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Product Innovations catalogue



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A compendium of expertise in machining

The Walter General Catalogue 2017 contains the entire standard range of our competence brands Walter, Walter Titex and Walter Prototyp. It is supplemented regularly with the latest Product Innovations catalogue.

New: Product Innovations catalogue 2019



General Catalogue 2017

+



Product Innovations catalogue 2019

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A – Turning

ISO turning – A1

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Technical information – A1/A2

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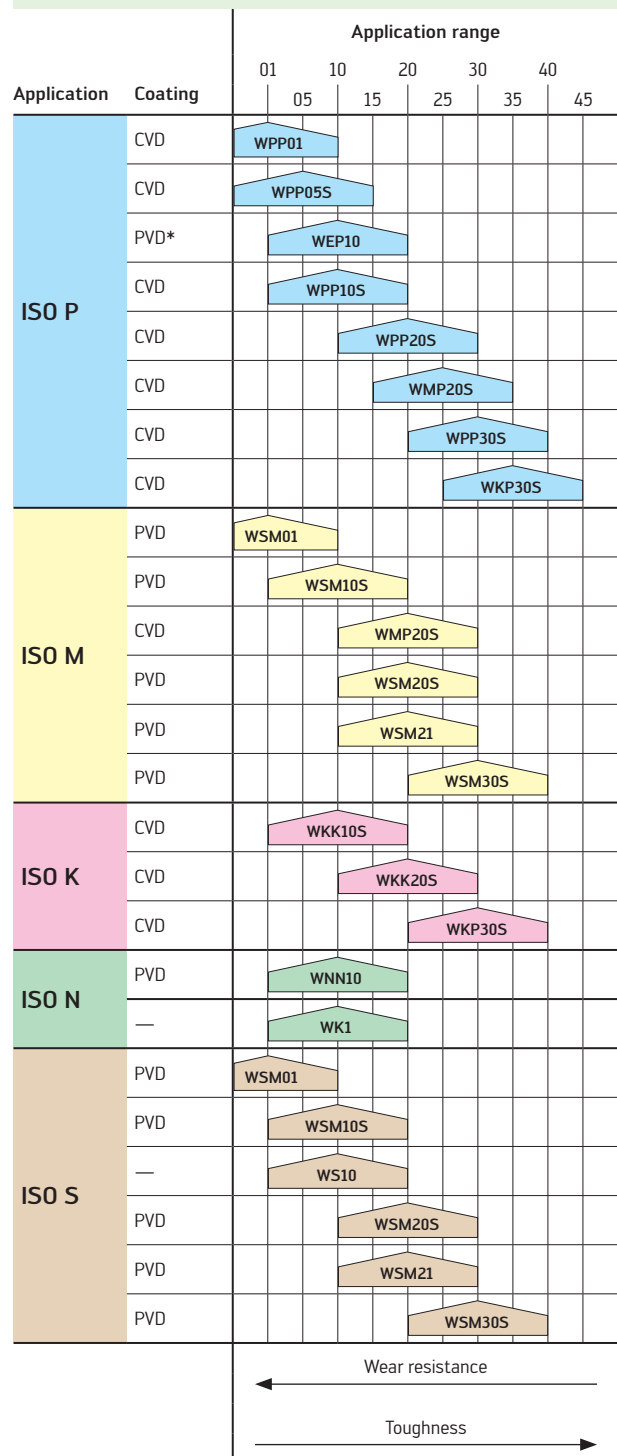
Product range overview of indexable inserts and cutting tool materials: ISO turning – Carbide



Indexable inserts

Insert shape	Description	Page
 Wiper C	Negative basic shape	10
	Positive basic shape 7°	26
	Positive basic shape 11°	28
 Wiper D	Negative basic shape	14
	Positive basic shape 7°	30
	Positive basic shape 11°	32
 R	Negative basic shape	16
	Positive basic shape 7°	33
 S	Negative basic shape	17
	Positive basic shape 7°	34
	Positive basic shape 11°	35
 T	Negative basic shape	19
	Positive basic shape 7°	36
	Positive basic shape 11°	38
 V	Negative basic shape	21
	Positive basic shape 5°/7°	40
 Wiper W	Negative basic shape	22
	Positive basic shape 7°	42





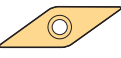

Cutting tool materials: Carbide

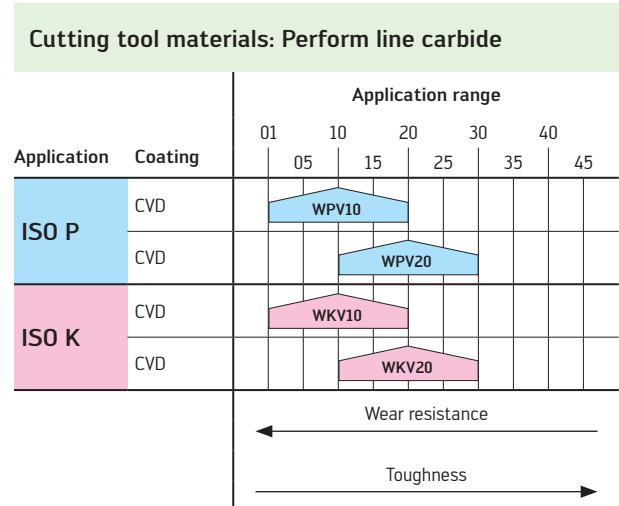


* Cermet

Product range overview of indexable inserts and cutting tool materials: ISO turning – Perform line carbide

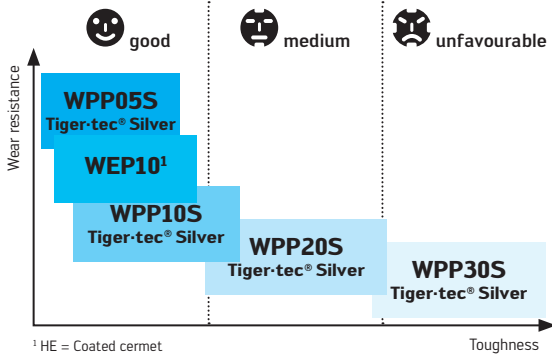


Indexable inserts		
Insert shape	Description	Page
	C Negative basic shape	13
	Positive basic shape 7°	29
	D Negative basic shape	16
	Positive basic shape 7°	32
	S Negative basic shape	18
	T Negative basic shape	20
	Positive basic shape 7°	39
	V Negative basic shape	21
	Positive basic shape 5°/7°	41
	W Negative basic shape	24



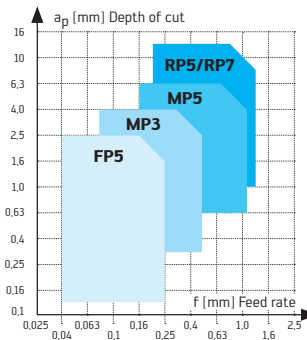
Product range overview of indexable inserts for ISO turning: Tiger-tec® Silver grades and geometries

Machining steel ISO P

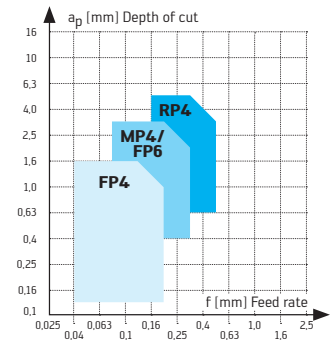


Negative basic shape

Positive basic shape

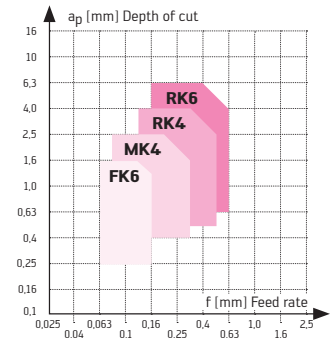
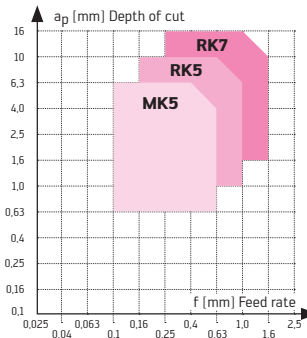
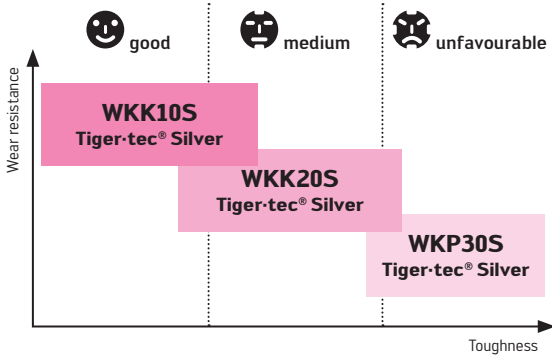


MP5: For universal machining
RP5: For universal machining
RP7: For interrupted cuts, cast skin/forged skin

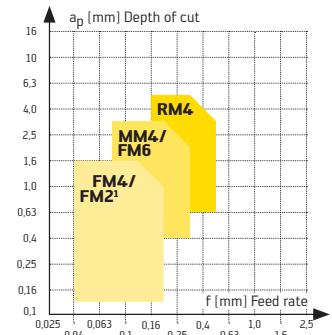
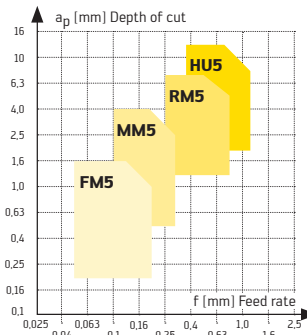
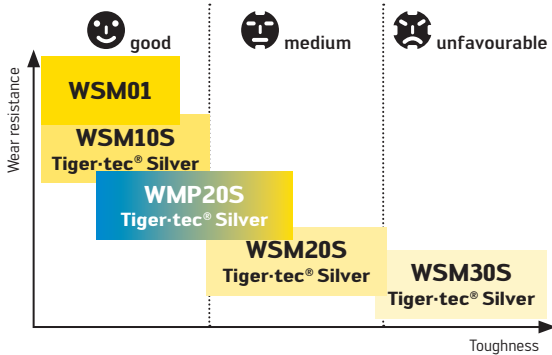


MP4: For universal machining, copy turning
FP6: For semi-finishing operations

Cast iron machining ISO K

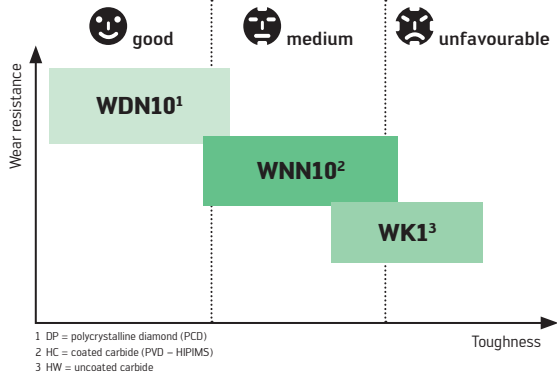


Stainless steel ISO M

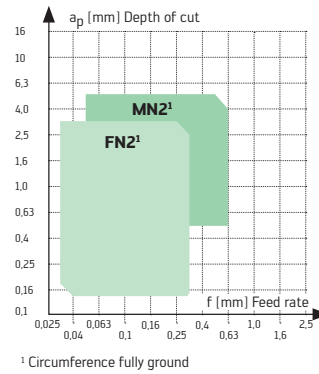


MM4: For universal machining, copy turning
FM6: For semi-finishing operations
¹ Circumference fully ground

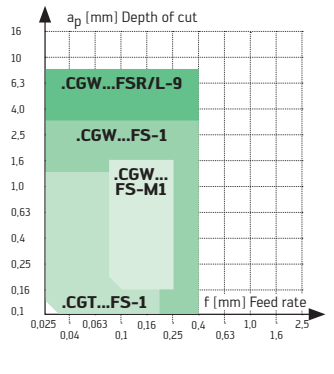
NF metals ISO N



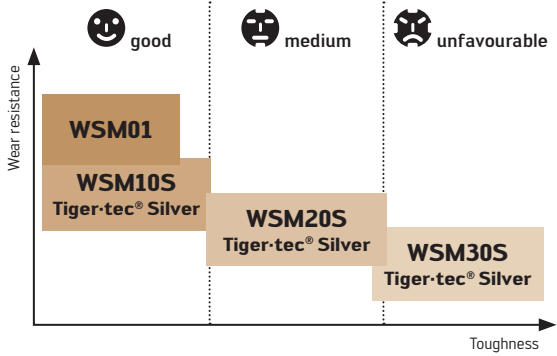
Positive basic shape Carbide



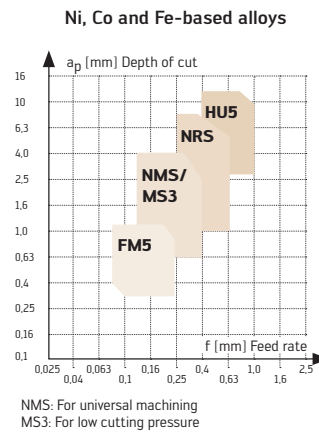
Positive basic shape PCD



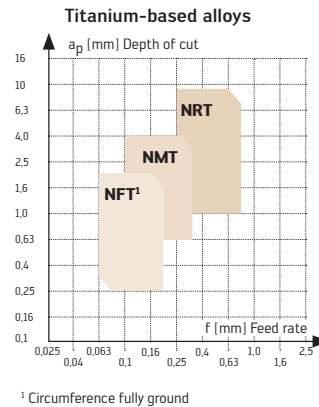
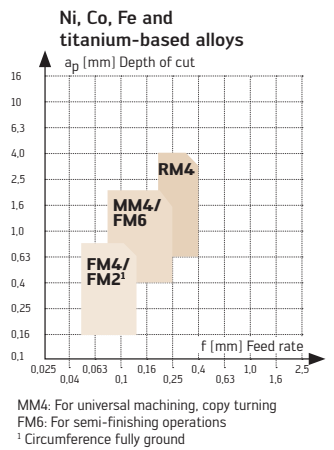
ISO S high-temperature alloys and titanium alloys



Negative basic shape



Positive basic shape



Product range overview of indexable inserts for ISO turning: Perform line

Designation key

Simple geometry designation:

M	V	5
1	2	3

- 1: Chip breaking range – e.g. M = Medium machining
- 2: Versatile materials
- 3: Feed/chip breaking range

Simple grade designation:

W	P	V	20
1	2	3	4

- 1: Walter
- 2: First primary application – e.g. P = ISO P
- 3: Second primary application, "Versatile"
- 4: ISO application range

Grades and geometries

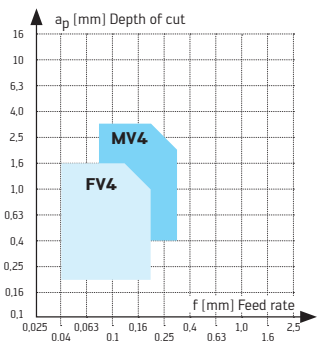
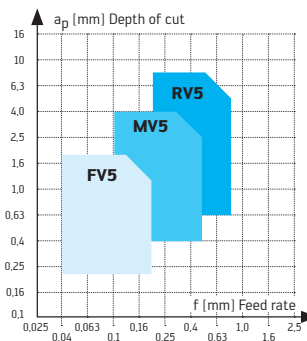
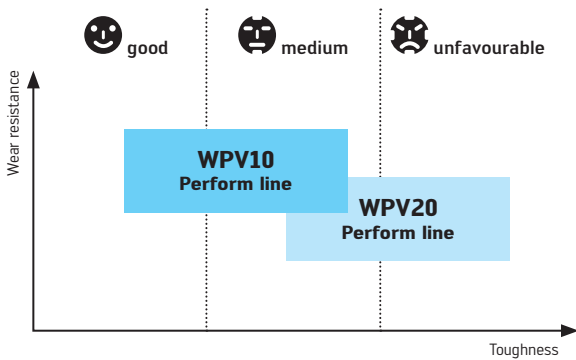
Machining steel ISO P



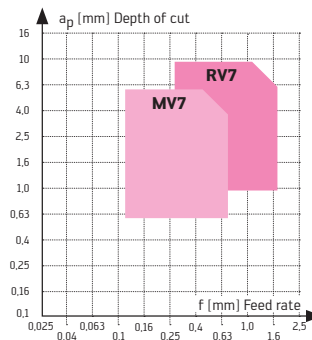
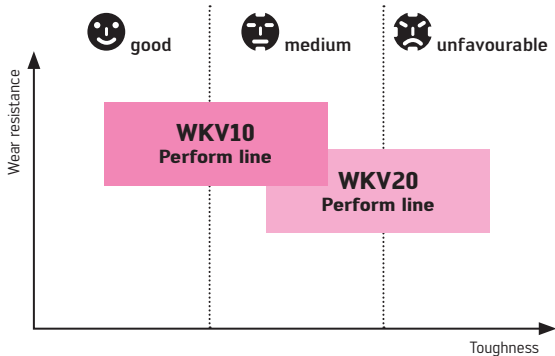
Negative basic shape



Positive basic shape

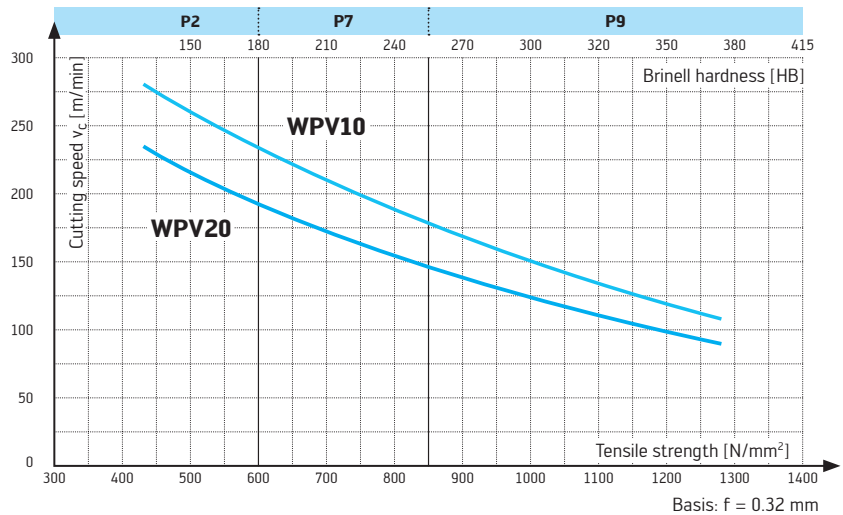


Cast iron machining ISO K



Cutting speeds

Cutting speed selection based on tensile strength/hardness:

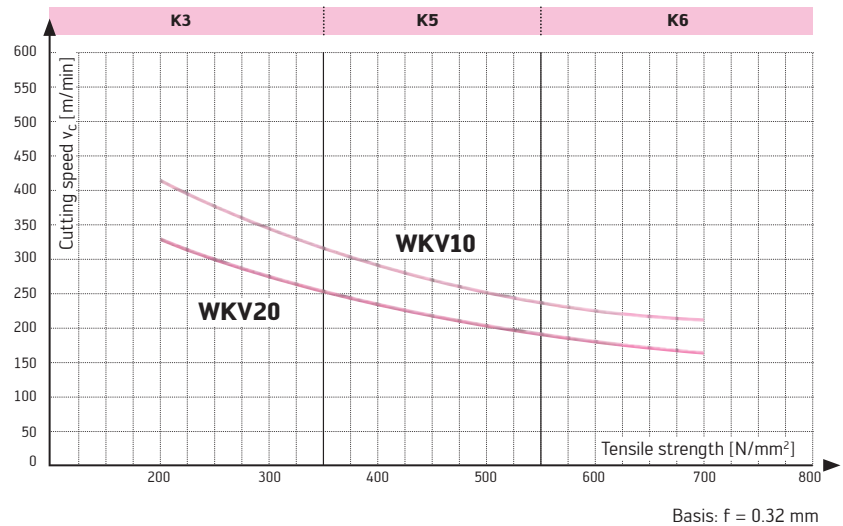


Machining steel ISO P

Cutting speed range for selected materials:

ISO material group	Material	Tensile strength	Brinell hardness	Cutting speed	
				WPV10	WPV20
P2	S235JR (St37), C45	500 N/mm ²	150 HB	200–240–340 m/min	160–200–280 m/min
P7	100Cr6, 42CrMo4	800 N/mm ²	240 HB	130–180–200 m/min	100–150–180 m/min
P9	56NiCrMoV7	1250 N/mm ²	370 HB	80–130–140 m/min	70–100–130 m/min

Cutting speed selection for ISO K materials based on tensile strength:



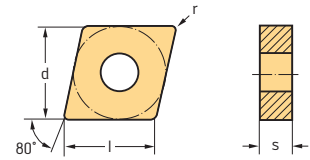
Cutting speed range for selected materials:

ISO material group	Material	Tensile strength	Brinell hardness	Cutting speed	
				WKV10	WKV20
K3	GG-25 (FC250)	250 N/mm ²	180 HB	270–360–560 m/min	210–300–500 m/min
K5	GGG-40 (FCD400)	400 N/mm ²	155 HB	210–270–370 m/min	160–220–290 m/min
K6	GGG-70 (FCD700)	700 N/mm ²	265 HB	170–210–270 m/min	130–170–210 m/min








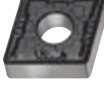

For indexable inserts with positive basic shape, the cutting speed should be reduced by approximately 10%

Negative rhombic 80° CNMG / CNGG / CNMA / CNMM

Tiger-tec® Silver



Indexable inserts

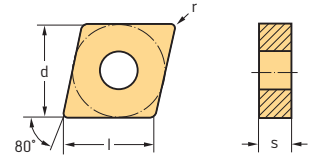
Designation	r mm	f mm	a _p mm	P						M				K			S						
				HC						HC				HC			HC						
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S	WSM30S	WS10	
 Wiper CNMG120404-NF	0,4	0,10–0,40	0,4–2,0	☉		☉	☉							☉							☉		
	CNMG120408-NF	0,8	0,15–0,55	0,5–3,0	☉		☉	☉							☉							☉	
 Wiper CNMG120404-NFT	0,4	0,08–0,17	0,4–1,5																			☉	☉
	CNMG120408-NFT	0,8	0,10–0,20	0,5–2,0																			☉
 Wiper CNMG120402-FM5	0,2	0,03–0,10	0,1–1,0																				
	CNMG120404-FM5	0,4	0,05–0,15	0,2–1,5						☉	☉											☉	☉
	CNMG120408-FM5	0,8	0,07–0,20	0,4–1,5						☉	☉											☉	☉
	CNMG120412-FM5	1,2	0,10–0,25	0,5–2,0						☉	☉												☉
 Wiper CNMG120408-NM	0,8	0,20–0,55	0,8–3,0			☉	☉								☉	☉						☉	
	CNMG120412-NM	1,2	0,25–0,70	1,5–4,0			☉	☉							☉	☉						☉	
 Wiper CNMG120404-MS3	0,4	0,12–0,25	0,6–3,0								☉	☉	☉	☉					☉	☉	☉	☉	☉
	CNMG120408-MS3	0,8	0,15–0,30	0,8–3,0			☉	☉			☉	☉	☉	☉					☉	☉	☉	☉	☉
 Wiper CNGG120401-MS3	0,1	0,02–0,06	0,2–2,5								☉											☉	
	CNMG120402-MS3	0,2	0,05–0,12	0,4–2,5							☉											☉	
	CNMG120404-MS3	0,4	0,10–0,25	0,6–3,0							☉											☉	
	CNMG120408-MS3	0,8	0,12–0,30	0,8–3,0							☉											☉	
 Wiper CNMG120408-NMT	0,8	0,12–0,30	0,8–4,0																			☉	☉
	CNMG120412-NMT	1,2	0,15–0,32	1,0–4,0																		☉	☉
 Wiper CNMG120404-NMS	0,4	0,10–0,24	0,6–2,5								☉	☉	☉	☉					☉	☉	☉	☉	☉
	CNMG120408-NMS	0,8	0,13–0,32	0,8–3,5							☉	☉	☉	☉					☉	☉	☉	☉	☉
	CNMG120412-NMS	1,2	0,16–0,36	1,0–3,5								☉	☉							☉	☉		☉
 Wiper CNMG090304-MP3	0,4	0,06–0,20	0,3–2,2			☉	☉																
	CNMG090308-MP3	0,8	0,10–0,28	0,6–3,0			☉	☉	☉														
	CNMG120404-MP3	0,4	0,08–0,22	0,3–2,5			☉	☉	☉														
	CNMG120408-MP3	0,8	0,12–0,32	0,6–3,2			☉	☉	☉														
	CNMG120412-MP3	1,2	0,16–0,40	0,8–3,5			☉	☉	☉														

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

☉ ☉ ☉ / ★ New addition to the product range

Negative rhombic 80° CNMG / CNGG / CNMA / CNMM Tiger-tec® Silver

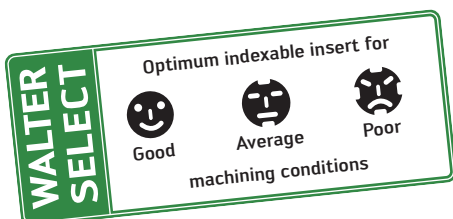


Indexable inserts

Designation	r mm	f mm	a _p mm	P						M				K			S			
				HC						HC				HC			HC			
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S
	CNMG120404-MM5	0,4	0,10-0,20	0,5-3,0																
	CNMG120408-MM5	0,8	0,15-0,32	0,8-3,0																
	CNMG120412-MM5	1,2	0,15-0,35	0,8-3,5																
	CNMG120416-MM5	1,6	0,15-0,40	1,0-4,0																
	CNMG160608-MM5	0,8	0,15-0,35	0,8-4,5																
	CNMG160612-MM5	1,2	0,18-0,40	0,8-4,5																
	CNMG160616-MM5	1,6	0,20-0,45	1,0-4,5																
	CNMG090308-MK5	0,8	0,10-0,20	0,2-3,0																
	CNMG120404-MK5	0,4	0,16-0,25	0,6-5,0																
	CNMG120408-MK5	0,8	0,25-0,50	0,8-5,0																
	CNMG120412-MK5	1,2	0,30-0,50	1,2-5,0																
	CNMG120416-MK5	1,6	0,35-0,50	1,5-5,0																
	CNMG160608-MK5	0,8	0,25-0,50	0,8-7,0																
	CNMG160612-MK5	1,2	0,30-0,60	1,2-7,0																
	CNMG160616-MK5	1,6	0,35-0,60	1,5-7,0																
	CNMG190612-MK5	1,2	0,30-0,65	1,2-8,0																
CNMG190616-MK5	1,6	0,35-0,80	1,5-8,0																	
	CNMG120408-NRT	0,8	0,18-0,35	1,0-6,0																
	CNMG120412-NRT	1,2	0,20-0,40	1,2-6,0																
	CNMG160612-NRT	1,2	0,28-0,55	1,5-7,5																
	CNMG190616-NRT	1,6	0,35-0,70	2,0-9,0																
	CNMG120408-NRS	0,8	0,16-0,35	1,0-4,0																
	CNMG120412-NRS	1,2	0,18-0,40	1,2-4,0																
	CNMG160612-NRS	1,2	0,21-0,45	1,2-6,5																
	CNMG160616-NRS	1,6	0,23-0,50	1,5-6,5																
	CNMG190608-NRS	0,8	0,20-0,45	1,0-8,0																
	CNMG190612-NRS	1,2	0,23-0,50	1,2-8,5																
	CNMG120408-RM5	0,8	0,20-0,40	1,2-5,0																
	CNMG120412-RM5	1,2	0,25-0,50	1,5-5,0																
	CNMG120416-RM5	1,6	0,30-0,55	2,0-5,0																
	CNMG160608-RM5	0,8	0,22-0,45	1,2-7,0																
	CNMG160612-RM5	1,2	0,25-0,60	1,5-7,0																
	CNMG160616-RM5	1,6	0,30-0,65	2,0-7,0																
	CNMG190612-RM5	1,2	0,25-0,60	1,5-8,0																
	CNMG190616-RM5	1,6	0,30-0,80	2,0-8,0																

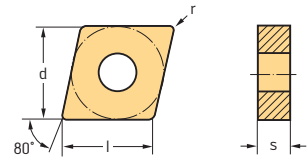
See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide





Negative rhombic 80° CNMG / CNGG / CNMA / CNMM

Tiger-tec® Silver



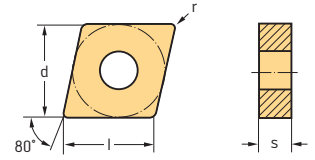
Indexable inserts

Designation	r mm	f mm	a _p mm	P						M			K			S				
				HC						HC			HC			HC				
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S
 CNMA120404-RK5	0,4	0,16–0,25	0,6–5,0																	
CNMA120408-RK5	0,8	0,25–0,50	0,8–5,0																	
CNMA120412-RK5	1,2	0,30–0,50	1,2–5,0																	
CNMA120416-RK5	1,6	0,35–0,70	1,5–5,0																	
CNMA160612-RK5	1,2	0,35–0,70	1,2–7,0																	
CNMA160616-RK5	1,6	0,35–0,80	1,5–7,0																	
CNMA190612-RK5	1,2	0,30–0,65	1,2–8,0																	
CNMA190616-RK5	1,6	0,35–0,80	1,5–8,0																	
CNMA190624-RK5	2,4	0,40–0,90	2,5–8,0																	
 CNMM120412-HU5	1,2	0,30–0,70	1,5–7,0																	
CNMM160612-HU5	1,2	0,35–0,70	1,5–9,0																	
CNMM160616-HU5	1,6	0,40–0,80	2,0–9,0																	
CNMM190612-HU5	1,2	0,35–0,70	1,5–10,0																	
CNMM190616-HU5	1,6	0,40–0,90	2,0–10,0																	

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

Negative rhombic 80° CNMG Perform / CNMA Perform



Indexable inserts

Designation	r mm	f mm	a _p mm	P						M			K				S				
				HC						HC			HC				HC				
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WKV10	WKV20	WSM10S	WSM20S
CNMG120404-FV5	0,4	0,05-0,20	0,2-1,5																		
	CNMG120408-FV5	0,8	0,08-0,25	0,4-2,0																	
CNMG120404-MV5	0,4	0,10-0,20	0,5-3,5																		
	CNMG120408-MV5	0,8	0,15-0,32	0,8-4,0																	
	CNMG120412-MV5	1,2	0,18-0,40	0,8-4,0																	
	CNMG160612-MV5	1,2	0,20-0,45	0,8-5,0																	
CNMG120408-MV7	0,8	0,20-0,45	0,8-5,0																		
	CNMG120412-MV7	1,2	0,25-0,50	1,2-5,0																	
	CNMG120416-MV7	1,6	0,30-0,55	1,5-5,0																	
	CNMG160612-MV7	1,2	0,25-0,50	1,2-7,0																	
	CNMG160616-MV7	1,6	0,30-0,55	1,5-7,0																	
	CNMG190612-MV7	1,2	0,30-0,60	1,2-8,0																	
	CNMG120408-RV5	0,8	0,20-0,40	1,0-5,0																	
	CNMG120412-RV5	1,2	0,25-0,55	1,0-5,0																	
CNMA120408-RV7	0,8	0,25-0,50	0,8-5,0																		
	CNMA120412-RV7	1,2	0,30-0,55	1,2-5,0																	
	CNMA120416-RV7	1,6	0,35-0,70	1,5-5,0																	

See the ISO 1832 designation key for dimensions

HC = Coated carbide

WALTER SELECT

Optimum indexable insert for

Good

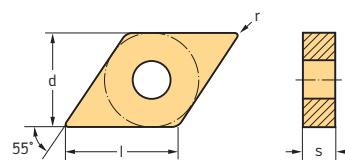
Average

Poor

machining conditions

Negative rhombic 55° DNMG / DNGG / DNMM

Tiger-tec® Silver



Indexable inserts

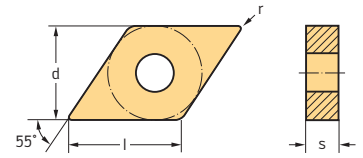
Designation	r mm	f mm	a _p mm	P						M				K			S				HW			
				HC						HC				HC			HC							
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S	WSM30S	WS10		
DNMG110408-NF	0,8	0,15-0,50	0,5-2,0	☉	☉							☉									☉			
	DNMG150408-NF	0,8	0,15-0,50	0,5-3,0	☉	☉							☉								☉			
	DNMG150608-NF	0,8	0,15-0,50	0,5-3,0	☉	☉							☉								☉			
	DNMG150404-NFT	0,4	0,06-0,16	0,4-1,5									☉								☉		☉	
	DNMG150604-NFT	0,4	0,06-0,16	0,4-1,5									☉								☉		☉	
	DNMG150608-NFT	0,8	0,08-0,19	0,5-2,0									☉								☉		☉	
	DNMG110404-FM5	0,4	0,05-0,15	0,2-1,0					☉	☉		☉	☉							☉	☉			
	DNMG110408-FM5	0,8	0,07-0,20	0,4-1,5					☉	☉		☉	☉							☉	☉			
	DNMG150404-FM5	0,4	0,05-0,15	0,2-1,5					☉	☉		☉	☉							☉	☉			
	DNMG150408-FM5	0,8	0,07-0,20	0,4-1,5					☉	☉		☉	☉							☉	☉			
	DNMG150602-FM5	0,2	0,03-0,10	0,1-1,0								☉	☉							☉	☉			
	DNMG150604-FM5	0,4	0,05-0,15	0,2-1,5					☉	☉		☉	☉							☉	☉			
	DNMG150608-FM5	0,8	0,07-0,20	0,4-1,5					☉	☉		☉	☉							☉	☉			
	DNMG110408-MS3	0,8	0,12-0,30	0,8-2,5								☉	☉	☉						☉	☉		☉	
	DNMG150404-MS3	0,4	0,12-0,25	0,6-2,5							☉	☉							☉	☉				
	DNMG150408-MS3	0,8	0,15-0,30	0,8-2,5		☉					☉	☉	☉						☉	☉		☉		
	DNMG150604-MS3	0,4	0,12-0,25	0,6-2,5							☉	☉							☉	☉				
	DNMG150608-MS3	0,8	0,15-0,30	0,8-2,5			☉				☉	☉	☉						☉	☉		☉		
	DNGG150404-MS3	0,2	0,05-0,12	0,4-2,0							☉								☉					
	DNGG150408-MS3	0,4	0,10-0,25	0,6-2,5							☉								☉					
	DNMG110404-NMT	0,4	0,08-0,22	0,4-2,5								☉								☉				
	DNMG110408-NMT	0,8	0,12-0,28	0,6-3,2								☉								☉				
	DNMG150408-NMT	0,8	0,12-0,28	0,6-4,0								☉								☉		☉		
	DNMG150608-NMT	0,8	0,12-0,28	0,6-4,0								☉	☉							☉	☉		☉	
	DNMG150612-NMT	1,2	0,15-0,30	0,8-4,0									☉										☉	
	DNMG150404-NMS	0,4	0,09-0,22	0,6-2,5								☉	☉							☉	☉			
	DNMG150408-NMS	0,8	0,11-0,30	0,8-3,5								☉	☉	☉						☉	☉			
	DNMG150604-NMS	0,4	0,09-0,22	0,6-2,5								☉	☉	☉						☉	☉			
	DNMG150608-NMS	0,8	0,11-0,30	0,8-3,5								☉	☉	☉						☉	☉		☉	
	DNMG110404-MM5	0,4	0,10-0,18	0,5-2,0					☉	☉		☉	☉	☉						☉	☉	☉		
	DNMG110408-MM5	0,8	0,15-0,25	0,8-3,0					☉	☉		☉	☉	☉						☉	☉	☉		
	DNMG150404-MM5	0,4	0,10-0,18	0,5-2,5					☉	☉		☉	☉	☉						☉	☉	☉		
	DNMG150408-MM5	0,8	0,15-0,25	0,8-3,0					☉	☉		☉	☉	☉						☉	☉	☉		
	DNMG150412-MM5	1,2	0,18-0,30	0,8-3,0									☉	☉							☉			
	DNMG150604-MM5	0,4	0,10-0,18	0,5-2,5					☉	☉		☉	☉	☉						☉	☉	☉		
	DNMG150608-MM5	0,8	0,15-0,25	0,8-3,0					☉	☉		☉	☉	☉						☉	☉	☉		
	DNMG150612-MM5	1,2	0,18-0,30	0,8-3,0					☉	☉		☉	☉	☉						☉	☉	☉		

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

☉ ☉ ☉ / ★ New addition to the product range

**Negative rhombic 55°
DNMG / DNGG / DNMM**
Tiger-tec® Silver



Indexable inserts

Designation	r mm	f mm	a _p mm	P						M				K			S			
				HC						HC				HC			HC			
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S
DNMG150408-NRS	0,8	0,13–0,32	1,0–4,0																	
DNMG150608-NRS	0,8	0,13–0,32	1,0–4,0																	
DNMG150612-NRS	1,2	0,15–0,35	1,2–4,0																	
DNMG110408-RM5	0,8	0,20–0,40	1,2–3,5																	
DNMG110412-RM5	1,2	0,25–0,50	1,5–3,5																	
DNMG150408-RM5	0,8	0,20–0,40	1,2–4,0																	
DNMG150608-RM5	0,8	0,20–0,40	1,2–4,0																	
DNMG150612-RM5	1,2	0,25–0,50	1,5–4,0																	
DNMM150608-HU5	0,8	0,25–0,45	1,0–5,0																	
DNMM150612-HU5	1,2	0,30–0,50	1,5–5,0																	

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

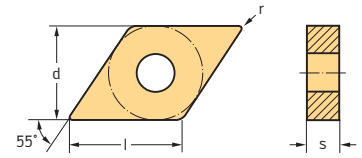
WALTER SELECT

Optimum indexable insert for

Good Average Poor

machining conditions

Negative rhombic 55° DNMG Perform



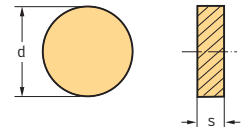
Indexable inserts

Designation	r mm	f mm	a _p mm	P						M			K				S							
				HC						HC			HC				HC							
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WKV10	WKV20	WSM10S	WSM20S	WSM30S		
	DNMG110404-FV5	0,4	0,05–0,20	0,2–1,5																				
	DNMG110408-FV5	0,8	0,08–0,25	0,4–2,0																				
	DNMG150408-FV5	0,8	0,08–0,25	0,4–2,0																				
	DNMG150604-FV5	0,4	0,05–0,20	0,2–1,5																				
	DNMG150608-FV5	0,8	0,08–0,25	0,4–2,0																				
	DNMG110408-MV5	0,8	0,15–0,32	0,8–3,0																				
	DNMG150408-MV5	0,8	0,15–0,32	0,8–3,5																				
	DNMG150608-MV5	0,8	0,15–0,32	0,8–3,5																				
	DNMG150412-MV7	1,2	0,25–0,45	1,2–5,0																				
	DNMG150608-MV7	0,8	0,20–0,45	0,8–5,0																				
	DNMG150612-MV7	1,2	0,25–0,45	1,2–5,0																				
	DNMG150608-RV5	0,8	0,15–0,40	1,0–4,5																				
	DNMG150612-RV5	1,2	0,20–0,50	1,0–4,5																				

See the ISO 1832 designation key for dimensions

HC = Coated carbide

Negative round RNMG / RNMA Tiger-tec® Silver



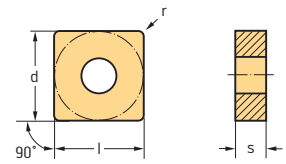
Indexable inserts

Designation	d mm	f mm	a _p mm	P					M			K			S					
				HC					HC			HC			HC					
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S	WSM20S	WSM30S	WS10	
	RNMG120400-RP5	12,7	0,20–0,60	1,2–5,0																
	RNMA120400-RK5	12,7	0,15–0,60	1,2–4,0																

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

Negative square SNMG / SNMM Tiger-tec® Silver

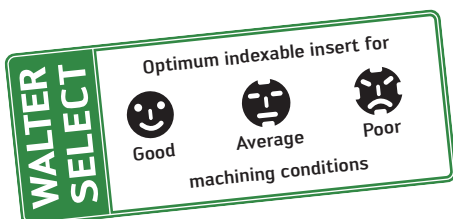


Indexable inserts

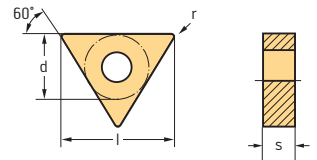
Designation	r mm	f mm	a _p mm	P			M			K			S			
				HC			HC			HC			HC			
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S	WSM20S
SNMG120408-FM5	0,8	0,07-0,20	0,4-1,5													
	1,2	0,10-0,25	0,5-2,0													
SNMG120404-MM5	0,4	0,10-0,18	0,5-2,0													
	0,8	0,15-0,25	0,8-3,0													
	1,2	0,18-0,30	0,8-3,5													
SNMG090308-MK5	0,8	0,10-0,20	0,2-3,0													
	0,8	0,25-0,50	0,8-5,0													
	1,2	0,30-0,50	1,2-5,0													
	1,6	0,35-0,50	1,5-5,0													
	1,2	0,30-0,60	1,2-7,0													
	1,6	0,35-0,60	1,5-7,0													
	1,2	0,30-0,65	1,2-8,0													
	1,6	0,35-0,80	1,5-8,0													
SNMG120412-NRT	1,2	0,25-0,50	0,8-6,0													
	1,2	0,30-0,60	1,0-7,5													
	1,6	0,35-0,70	1,2-7,5													
	1,6	0,40-0,80	1,5-9,0													
SNMG120408-NRS	0,8	0,20-0,40	0,8-5,0													
	1,2	0,22-0,45	1,0-5,0													
	1,6	0,24-0,55	1,2-7,0													
	1,2	0,24-0,55	1,0-9,0													
	1,6	0,27-0,60	1,2-9,0													
SNMG120408-RM5	0,8	0,20-0,40	1,2-5,0													
	1,2	0,25-0,50	1,5-5,0													
	1,6	0,30-0,55	2,0-5,0													
	1,2	0,25-0,60	1,5-7,0													
	1,6	0,30-0,55	2,0-7,0													
	1,2	0,25-0,60	1,5-8,0													
	1,6	0,30-0,80	2,0-8,0													
SNMM120412-HU5	1,2	0,30-0,70	1,5-7,0													
	1,2	0,35-0,70	1,5-9,0													
	1,2	0,35-0,80	1,5-10,0													
	1,6	0,40-1,00	2,0-10,0													
	2,4	0,50-1,20	2,5-12,0													

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide



Negative triangular 60° TNMG Tiger-tec® Silver



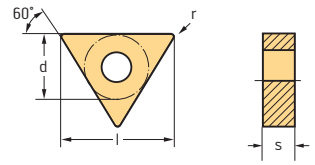
Indexable inserts

Designation	r mm	f mm	a _p mm	P					M				K			S				HW
				HC					HC				HC			HC				
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S	
TNMG160404-FM5	0,4	0,05-0,15	0,2-1,0																	
TNMG160408-FM5	0,8	0,07-0,20	0,4-1,5																	
TNMG160412-FM5	1,2	0,10-0,25	0,5-2,0																	
TNMG160304-MS3	0,4	0,12-0,25	0,6-3,0																	
TNMG160308-MS3	0,8	0,15-0,30	0,8-3,0																	
TNMG160404-MS3	0,4	0,12-0,25	0,6-3,0																	
TNMG160408-MS3	0,8	0,15-0,30	0,8-3,0																	
TNMG220404-MS3	0,4	0,12-0,25	0,6-3,0																	
TNMG220408-MS3	0,8	0,15-0,30	0,8-3,0																	
TNMG160404-NMT	0,4	0,08-0,20	0,6-3,0																	
TNMG160408-NMT	0,8	0,12-0,30	1,0-4,0																	
TNMG160404-NMS	0,4	0,09-0,22	0,6-2,5																	
TNMG160408-NMS	0,8	0,11-0,30	0,8-3,5																	
TNMG160404-MM5	0,4	0,10-0,18	0,5-2,0																	
TNMG160408-MM5	0,8	0,15-0,25	0,8-3,0																	
TNMG160412-MM5	1,2	0,18-0,30	0,8-3,5																	
TNMG160416-MM5	1,6	0,20-0,35	1,0-4,0																	
TNMG160412-NRS	1,2	0,25-0,50	1,5-4,5																	
TNMG160408-RM5	0,8	0,20-0,40	1,2-4,0																	
TNMG160412-RM5	1,2	0,25-0,50	1,5-4,0																	
TNMG220408-RM5	0,8	0,20-0,40	1,2-4,0																	
TNMG220412-RM5	1,2	0,25-0,55	1,5-5,0																	





See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

Negative triangular 60° TNMG Perform



Indexable inserts

Designation	r mm	f mm	a _p mm	P						M			K				S						
				HC						HC			HC				HC						
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WKV10	WKV20	WSM10S	WSM20S	WSM30S	
 TNMG160404-FV5 TNMG160408-FV5	0,4	0,05-0,20	0,2-1,5						☺	☹													
	0,8	0,08-0,25	0,4-2,0							☺	☹												
 TNMG160404-MV5 TNMG160408-MV5	0,4	0,10-0,20	0,5-3,5						☺	☹													
	0,8	0,15-0,32	0,8-3,5							☺	☹												
 TNMG160408-MV7 TNMG160412-MV7	0,8	0,20-0,45	0,8-5,0														☹	☹					
	1,2	0,25-0,45	1,2-5,0															☹	☹				
 TNMG160408-RV5	0,8	0,15-0,40	1,0-4,5						☺	☹													

See the ISO 1832 designation key for dimensions

HC = Coated carbide

WALTER SELECT

Optimum indexable insert for

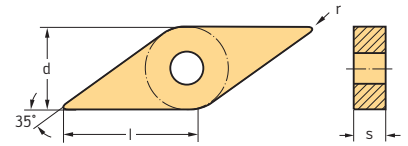
☺
Good

☹
Average

☹
Poor

machining conditions

Negative rhombic 35° VNMG / VNGG Tiger-tec® Silver



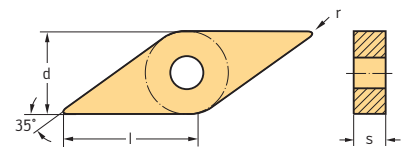
Indexable inserts

Designation	r mm	f mm	a _p mm	P					M				K			S			
				HC					HC				HC			HC			
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S
VNMG160404-NFT	0,4	0,05–0,15	0,2–1,5																
VNMG160408-NFT	0,8	0,07–0,18	0,3–2,0																
VNMG160402-FM5	0,2	0,03–0,10	0,1–1,0																
VNMG160404-FM5	0,4	0,05–0,15	0,2–1,0																
VNMG160408-FM5	0,8	0,07–0,20	0,4–1,5																
VNMG160404-FP5	0,4	0,04–0,22	0,1–1,5																
VNMG160408-FP5	0,8	0,08–0,25	0,2–2,0																
VNMG160412-FP5	1,2	0,12–0,28	0,3–2,5																
VNMG160404-MS3	0,4	0,10–0,20	0,6–2,5																
VNMG160408-MS3	0,8	0,12–0,25	0,8–2,5																
VNGG160401-MS3	0,1	0,02–0,06	0,2–2,0																
VNGG160402-MS3	0,2	0,05–0,12	0,4–2,0																
VNGG160404-MS3	0,4	0,10–0,20	0,6–2,0																
VNMG160404-NMS	0,4	0,08–0,16	0,5–1,5																
VNMG160408-NMS	0,8	0,10–0,22	0,8–2,2																
VNMG160404-MM5	0,4	0,10–0,18	0,5–2,0																
VNMG160408-MM5	0,8	0,15–0,25	0,8–3,0																

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

Negative rhombic 35° VNMG Perform



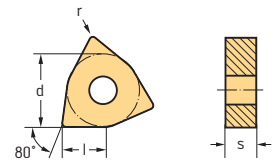
Indexable inserts

Designation	r mm	f mm	a _p mm	P					M			K			S				
				HC					HC			HC							
				WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP10	WMP20	WSM20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM10S	WSM20S
VNMG160404-FV5	0,4	0,05–0,20	0,2–1,5																
VNMG160408-FV5	0,8	0,08–0,25	0,4–2,0																

See the ISO 1832 designation key for dimensions

HC = Coated carbide

Negative Trigon 80° WNMG Tiger-tec® Silver



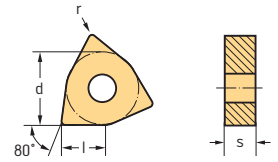
Indexable inserts

Designation	r mm	f mm	a _p mm	P						M				K			S				HW	
				HC						HC				HC			HC					
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S		WSM30S
WNMG060404-NF	0,4	0,10-0,40	0,4-2,0	☉		☉						☉							☉			
WNMG060408-NF	0,8	0,15-0,50	0,5-3,0	☉		☉						☉							☉			
WNMG080404-NF	0,4	0,20-0,40	0,4-2,0	☉		☉						☉							☉			
WNMG080408-NF	0,8	0,25-0,55	0,5-3,0	☉		☉						☉							☉			
WNMG080412-NF	1,2	0,25-0,70	0,8-3,0			☉																
WNMG060404-FM5	0,4	0,05-0,15	0,2-1,0									☉	☉						☉	☉		
WNMG060408-FM5	0,8	0,07-0,20	0,4-1,5									☉	☉						☉	☉		
WNMG080404-FM5	0,4	0,05-0,15	0,2-1,5									☉	☉						☉	☉		
WNMG080408-FM5	0,8	0,07-0,20	0,4-1,5									☉	☉						☉	☉		
WNMG080412-FM5	1,2	0,10-0,25	0,5-2,0									☉	☉						☉	☉		
WNMG060408-NM	0,8	0,20-0,55	0,8-3,0			☉						☉										
WNMG060412-NM	1,2	0,25-0,55	1,5-4,0			☉						☉										
WNMG080408-NM	0,8	0,20-0,55	0,8-3,0			☉	☉					☉	☉						☉	☉		
WNMG080412-NM	1,2	0,25-0,70	1,5-4,0			☉	☉					☉	☉						☉	☉		
WNMG080404-MS3	0,4	0,12-0,25	0,6-3,0									☉	☉						☉	☉		☉
WNMG080408-MS3	0,8	0,15-0,30	0,8-3,0									☉	☉						☉	☉		☉
WNMG080408-NMT	0,8	0,12-0,30	0,8-4,0									☉										☉
WNMG080412-NMT	1,2	0,15-0,32	1,0-4,0																			☉
WNMG060408-NMS	0,8	0,10-0,30	0,8-3,0									☉	☉						☉	☉		☉
WNMG080404-NMS	0,4	0,10-0,24	0,6-2,5									☉	☉	☉	☉				☉	☉	☉	☉
WNMG080408-NMS	0,8	0,13-0,32	0,8-3,5									☉	☉	☉	☉				☉	☉	☉	☉
WNMG060404-MM5	0,4	0,10-0,18	0,5-2,0									☉	☉						☉	☉		☉
WNMG060408-MM5	0,8	0,15-0,25	0,8-2,5									☉	☉						☉	☉		☉
WNMG060412-MM5	1,2	0,18-0,30	0,8-3,0									☉	☉						☉	☉		☉
WNMG080404-MM5	0,4	0,10-0,20	0,5-3,0									☉	☉						☉	☉		☉
WNMG080408-MM5	0,8	0,15-0,32	0,8-3,0									☉	☉						☉	☉		☉
WNMG080412-MM5	1,2	0,15-0,35	0,8-3,5									☉	☉						☉	☉		☉
WNMG080416-MM5	1,6	0,15-0,40	1,0-4,0									☉	☉						☉	☉		☉
WNMG100608-MM5	0,8	0,18-0,40	0,8-4,5									☉	☉						☉	☉		☉
WNMG100612-MM5	1,2	0,20-0,45	0,8-4,5									☉	☉						☉	☉		☉

See the ISO 1832 designation key for dimensions

HC = Coated carbide
HW = Uncoated carbide

Negative Trigon 80° WNMG Tiger-tec® Silver

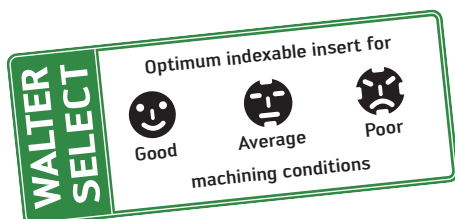


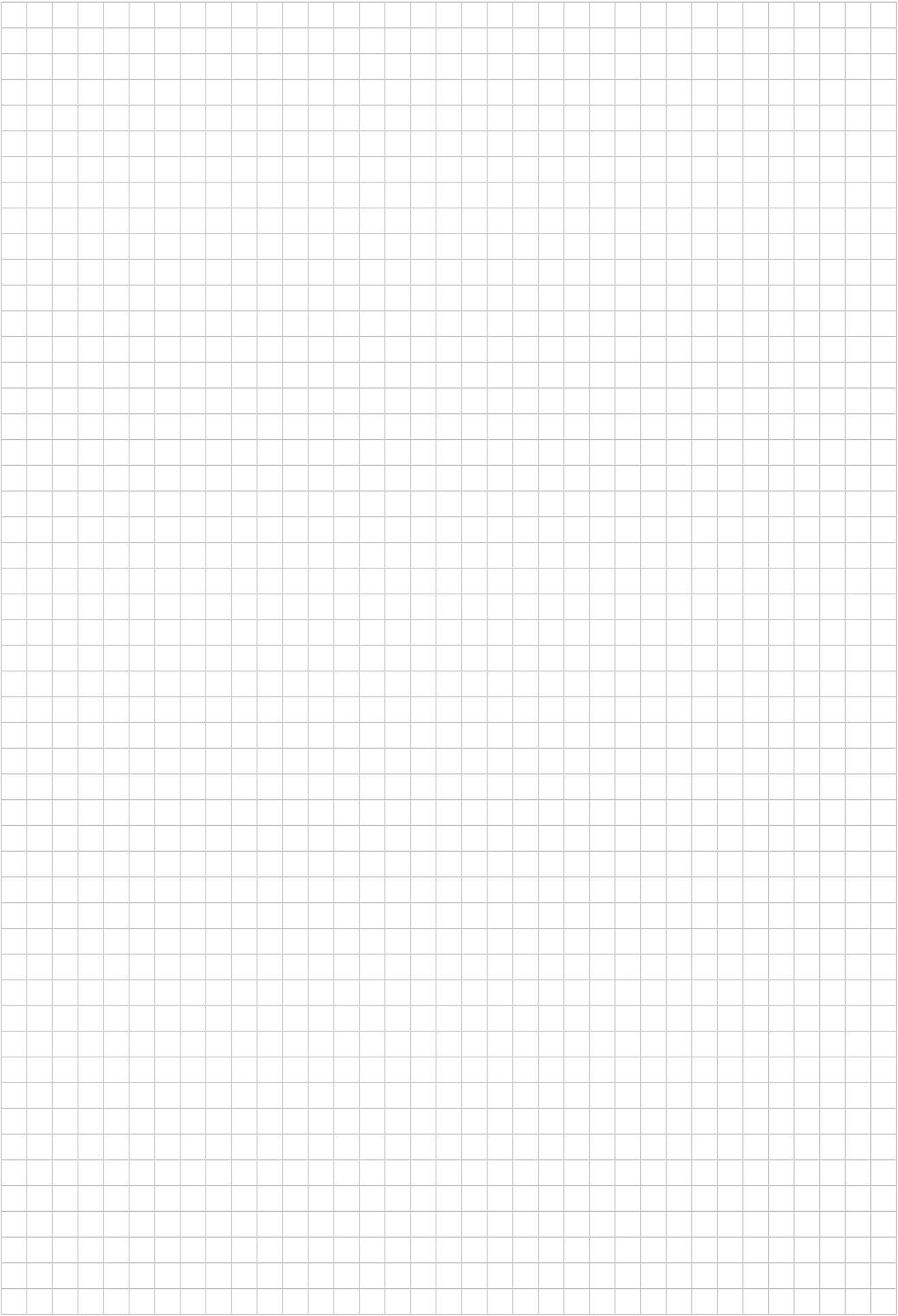
Indexable inserts

Designation	r mm	f mm	a _p mm	P						M				K			S			
				HC						HC				HC			HC			
				WPP01	WPP05S	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WKP30S	WSM01	WSM10S	WSM20S
	WNMG060404-MK5	0,4	0,16-0,25	0,6-4,0										☺	☺					
	WNMG060408-MK5	0,8	0,20-0,40	0,8-4,0										☺	☺					
	WNMG060412-MK5	1,2	0,16-0,45	0,6-4,0										☺	☺					
	WNMG080404-MK5	0,4	0,16-0,25	0,6-5,0										☺	☺					
	WNMG080408-MK5	0,8	0,20-0,45	1,2-5,0										☺	☺	☺				
	WNMG080412-MK5	1,2	0,22-0,50	1,5-5,0										☺	☺	☺				
	WNMG080416-MK5	1,6	0,25-0,55	2,0-5,0										☺	☺					
	WNMG100608-MK5	0,8	0,25-0,50	0,8-7,0										☺	☺					
	WNMG100612-MK5	1,2	0,30-0,60	1,2-7,0										☺	☺					
WNMG100616-MK5	1,6	0,35-0,60	1,5-7,0										☺	☺						
	WNMG080408-NRS	0,8	0,16-0,35	1,0-4,0					☺	☺	☺	☺	☺			☺	☺	☺	☺	
	WNMG080412-NRS	1,2	0,18-0,40	1,2-4,0					☺	☺	☺	☺	☺			☺	☺	☺	☺	
	WNMG060408-RM5	0,8	0,20-0,40	1,2-3,5					☺	☺								☺	☺	
	WNMG080408-RM5	0,8	0,20-0,40	1,2-4,5			☺	☺	☺	☺							☺	☺	☺	
	WNMG080412-RM5	1,2	0,25-0,50	1,5-4,5			☺	☺	☺	☺							☺	☺	☺	
	WNMG080408-RP7	0,8	0,16-0,45	1,0-5,0			☺	☺	☺						☺					
	WNMG080412-RP7	1,2	0,20-0,45	1,5-5,0			☺	☺	☺						☺					
	WNMG100608-RP7	0,8	0,30-0,50	0,8-6,0				☺	☺											
	WNMG100612-RP7	1,2	0,35-0,60	1,2-6,0			☺	☺	☺											
	WNMG100616-RP7	1,6	0,40-0,60	1,5-6,0				☺	☺											

See the ISO 1832 designation key for dimensions

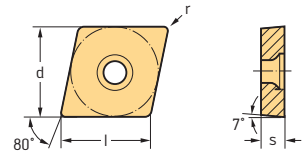
HC = Coated carbide
HW = Uncoated carbide





Positive rhombic 80° CCMT / CCGT

Tiger-tec® Silver



Indexable inserts

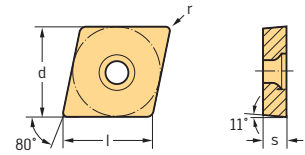
Designation	l mm	r mm	f mm	a _p mm	P							M				K		N		S				
					HE		HC					HC				HC		HC		HC				
					WEP10	WPP01	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S		
CCMT060204-PF	6,45	0,4	0,05–0,30	0,3–2,0		☺	☺	☺						☺	☺							☺	☺	
CCMT060208-PF	6,45	0,8	0,09–0,35	0,3–2,0			☺	☺						☺									☺	
CCMT09T304-PF	9,67	0,4	0,07–0,30	0,3–3,0		☺	☺	☺						☺	☺								☺	☺
CCMT09T308-PF	9,67	0,8	0,12–0,45	0,3–3,0		☺	☺	☺						☺	☺								☺	☺
CCGT060201-FN2	6,45	0,1	0,02–0,06	0,1–1,5																		☺		
CCGT060202-FN2	6,45	0,2	0,05–0,12	0,2–2,0																		☺		
CCGT060204-FN2	6,45	0,4	0,08–0,25	0,2–2,5																		☺		
CCGT09T301-FN2	9,67	0,1	0,02–0,06	0,1–1,5																		☺		
CCGT09T302-FN2	9,67	0,2	0,05–0,12	0,2–2,0																		☺		
CCGT09T304-FN2	9,67	0,4	0,08–0,25	0,2–2,5																		☺		
CCGT09T308-FN2	9,67	0,8	0,10–0,30	0,3–3,0																		☺		
CCGT120404-FN2	12,90	0,4	0,08–0,25	0,2–3,0																		☺		
CCGT120408-FN2	12,90	0,8	0,10–0,30	0,3–3,5																		☺		
CCGT060201-FM2	6,45	0,1	0,02–0,06	0,1–1,5																			☺	
CCGT060202-FM2	6,45	0,2	0,05–0,12	0,2–2,0										☺								☺	☺	
CCGT060204-FM2	6,45	0,4	0,08–0,25	0,2–2,5										☺								☺	☺	
CCGT09T301-FM2	9,67	0,1	0,02–0,06	0,1–1,5																			☺	
CCGT09T302-FM2	9,67	0,2	0,05–0,12	0,2–2,0										☺								☺	☺	
CCGT09T304-FM2	9,67	0,4	0,08–0,25	0,2–2,5										☺	☺							☺	☺	
CCGT09T308-FM2	9,67	0,8	0,10–0,30	0,3–3,0										☺	☺							☺	☺	
CCGT120404-FM2	12,90	0,4	0,08–0,25	0,2–3,0											☺								☺	
CCGT120408-FM2	12,90	0,8	0,10–0,30	0,3–3,5											☺								☺	
CCMT060202-FP4	6,45	0,2	0,04–0,12	0,1–1,0	☺		☺	☺																
CCMT060204-FP4	6,45	0,4	0,05–0,16	0,1–1,5	☺		☺	☺																
CCMT060208-FP4	6,45	0,8	0,08–0,20	0,1–1,5			☺	☺																
CCMT09T302-FP4	9,67	0,2	0,04–0,12	0,1–1,0	☺		☺	☺																
CCMT09T304-FP4	9,67	0,4	0,05–0,16	0,1–1,5	☺		☺	☺																
CCMT09T308-FP4	9,67	0,8	0,08–0,20	0,1–1,5	☺		☺	☺																
CCMT120404-FP4	12,90	0,4	0,05–0,16	0,1–1,5			☺	☺																
CCMT120408-FP4	12,90	0,8	0,08–0,20	0,1–1,5			☺	☺																
CCMT060204-FM6	6,45	0,4	0,08–0,25	0,3–1,6										☺	☺							☺	☺	
CCMT060208-FM6	6,45	0,8	0,12–0,30	0,5–1,6										☺								☺		
CCMT09T304-FM6	9,67	0,4	0,08–0,25	0,3–2,0										☺	☺							☺	☺	
CCMT09T308-FM6	9,67	0,8	0,12–0,32	0,5–2,0										☺	☺							☺	☺	
CCMT120408-FM6	12,90	0,8	0,12–0,32	0,5–2,5										☺	☺							☺	☺	

See the ISO 1832 designation key for dimensions

HE = Coated cermet
HC = Coated carbide

Positive rhombic 80° CPMT / CPGT / CPMW

Tiger-tec® Silver



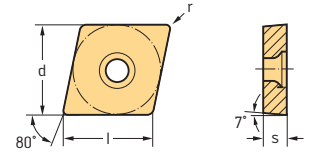
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P				M				K		S		
					HC				HC				HC		HC		
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S
CPMT050204-FM4	5,64	0,4	0,05-0,16	0,1-1,5				☉	☉								☉
CPMT060204-FM4	6,45	0,4	0,05-0,16	0,1-1,5				☉	☉								☉
CPMT09T304-FM4	9,67	0,4	0,05-0,16	0,1-1,5				☉	☉								☉
CPMT09T308-FM4	9,67	0,8	0,08-0,20	0,1-1,5				☉	☉								☉
CPMT050204-FP4	5,64	0,4	0,05-0,16	0,1-1,5	☉												
CPMT060204-FP4	6,45	0,4	0,05-0,16	0,1-1,5	☉												
CPMT09T304-FP4	9,67	0,4	0,05-0,16	0,1-1,5	☉												
CPMT09T308-FP4	9,67	0,8	0,08-0,20	0,1-1,5	☉												
CPMT04T104-MM4	4,84	0,4	0,06-0,16	0,3-1,5							☉						☉
CPMT060204-MM4	6,45	0,4	0,08-0,20	0,4-2,0							☉						☉
CPMT060208-MM4	6,45	0,8	0,12-0,25	0,5-2,0							☉						☉
CPMT09T304-MM4	9,67	0,4	0,08-0,25	0,4-3,0							☉						☉
CPMT09T308-MM4	9,67	0,8	0,12-0,32	0,5-3,0							☉						☉
CPGT050204-MM4	5,64	0,4	0,08-0,20	0,4-1,5							☉						☉
CPGT060201-MM4	6,45	0,1	0,04-0,12	0,1-2,0						☉					☉		
CPGT060202-MM4	6,45	0,2	0,06-0,16	0,2-2,0						☉					☉		
CPGT060204-MM4	6,45	0,4	0,08-0,20	0,4-2,0						☉	☉				☉		☉
CPGT060208-MM4	6,45	0,8	0,12-0,25	0,5-2,0						☉	☉				☉		☉
CPGT09T301-MM4	9,67	0,1	0,06-0,20	0,1-3,0						☉					☉		
CPGT09T304-MM4	9,67	0,4	0,08-0,25	0,4-3,0						☉	☉				☉		☉
CPGT09T308-MM4	9,67	0,8	0,12-0,32	0,5-3,0						☉	☉				☉		☉
CPMT04T104-MP4	4,84	0,4	0,06-0,16	0,3-1,5				☉									
CPMT060204-MP4	6,45	0,4	0,08-0,20	0,4-2,0				☉									
CPMT060208-MP4	6,45	0,8	0,12-0,25	0,5-2,0				☉									
CPMT09T304-MP4	9,67	0,4	0,08-0,25	0,4-3,0				☉									
CPMT09T308-MP4	9,67	0,8	0,12-0,32	0,5-3,0				☉									
CPMW050204-RK6	5,64	0,4	0,12-0,25	0,4-2,5						☉				☉	☉		
CPMW060204-RK6	6,45	0,4	0,12-0,25	0,4-2,5										☉	☉		
CPMW09T304-RK6	9,67	0,4	0,12-0,25	0,4-3,0										☉	☉		
CPMW09T308-RK6	9,67	0,8	0,16-0,35	0,5-4,0										☉	☉		



See the ISO 1832 designation key for dimensions

HC = Coated carbide

Positive rhombic 80° CCMT Perform

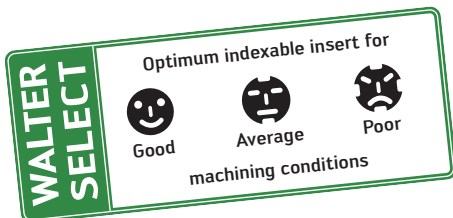


Indexable inserts

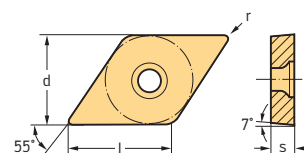
Designation	l mm	r mm	f mm	a _p mm	P						M			K		S		
					HC						HC			HC		HC		
					WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM10S	WSM20S
 CCMT060204-FV4 CCMT09T304-FV4 CCMT09T308-FV4	6,45	0,4	0,05–0,16	0,1–1,5														
	9,67	0,4	0,05–0,16	0,1–1,5														
	9,67	0,8	0,08–0,20	0,1–1,5														
 CCMT060204-MV4 CCMT09T304-MV4 CCMT09T308-MV4 CCMT120408-MV4	6,45	0,4	0,10–0,25	0,4–2,5														
	9,67	0,4	0,10–0,25	0,4–3,0														
	9,67	0,8	0,15–0,32	0,6–3,0														
	12,90	0,8	0,15–0,35	0,6–3,5														

See the ISO 1832 designation key for dimensions

HC = Coated carbide



Positive rhombic 55°
DCMT / DCGT
Tiger-tec® Silver



Indexable inserts

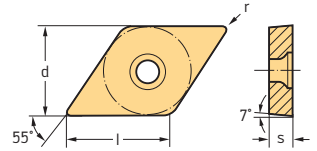
Designation	l mm	r mm	f mm	a _p mm	P						M			K		N		S					
					HE	HC			HC			HC		HC		HC							
					WEP10	WPP01	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S	
DCMT070204-PF	7,75	0,4	0,05–0,25	0,3–2,0	☺	☺	☺	☺						☺	☺							☺	☺
DCMT070208-PF	7,75	0,8	0,05–0,25	0,3–2,0										☺	☺							☺	☺
DCMT11T304-PF	11,63	0,4	0,07–0,30	0,3–3,0	☺	☺	☺	☺						☺	☺							☺	☺
DCMT11T308-PF	11,63	0,8	0,12–0,40	0,3–3,0	☺	☺	☺	☺						☺	☺							☺	☺
DCGT070201-FN2	7,75	0,1	0,02–0,06	0,1–1,5														☺					
DCGT070202-FN2	7,75	0,2	0,05–0,12	0,2–2,0														☺					
DCGT070204-FN2	7,75	0,4	0,08–0,25	0,2–2,5														☺					
DCGT11T301-FN2	11,63	0,1	0,02–0,06	0,1–1,5														☺					
DCGT11T302-FN2	11,63	0,2	0,05–0,12	0,2–2,0														☺					
DCGT11T304-FN2	11,63	0,4	0,08–0,25	0,2–2,5														☺					
DCGT11T308-FN2	11,63	0,8	0,10–0,30	0,3–3,0														☺					
DCGT070201-FM2	7,75	0,1	0,02–0,06	0,1–1,5										☺								☺	
DCGT070202-FM2	7,75	0,2	0,05–0,12	0,2–2,0								☺	☺	☺						☺	☺	☺	☺
DCGT070204-FM2	7,75	0,4	0,08–0,25	0,2–2,5								☺	☺	☺						☺	☺	☺	☺
DCGT11T301-FM2	11,63	0,1	0,02–0,06	0,1–1,5										☺								☺	
DCGT11T302-FM2	11,63	0,2	0,05–0,12	0,2–2,0								☺	☺	☺						☺	☺	☺	☺
DCGT11T304-FM2	11,63	0,4	0,08–0,25	0,2–2,5								☺	☺	☺						☺	☺	☺	☺
DCGT11T308-FM2	11,63	0,8	0,10–0,30	0,3–3,0								☺	☺	☺						☺	☺	☺	☺
DCMT070202-FP4	7,75	0,2	0,04–0,12	0,1–1,0	☺		☺	☺															
DCMT070204-FP4	7,75	0,4	0,05–0,16	0,1–1,5	☺		☺	☺															
DCMT070208-FP4	7,75	0,8	0,08–0,20	0,1–1,5			☺	☺															
DCMT11T302-FP4	11,63	0,2	0,04–0,12	0,1–1,0	☺		☺	☺															
DCMT11T304-FP4	11,63	0,4	0,05–0,16	0,1–1,5	☺		☺	☺															
DCMT11T308-FP4	11,63	0,8	0,08–0,20	0,1–1,5	☺		☺	☺															
DCMT070204-FM6	7,75	0,4	0,08–0,25	0,3–1,6										☺	☺							☺	☺
DCMT11T304-FM6	11,63	0,4	0,08–0,25	0,3–2,0										☺	☺							☺	☺
DCMT11T308-FM6	11,63	0,8	0,12–0,32	0,6–2,0										☺	☺							☺	☺
DCMT11T304-PM	11,63	0,4	0,12–0,40	0,5–4,0			☺	☺						☺	☺							☺	
DCMT11T308-PM	11,63	0,8	0,15–0,50	0,5–4,0			☺	☺						☺	☺							☺	
DCGT070201-MN2	7,75	0,1	0,02–0,06	0,5–1,5																		☺	
DCGT070202-MN2	7,75	0,2	0,05–0,12	0,5–2,0										☺								☺	☺
DCGT070204-MN2	7,75	0,4	0,08–0,25	0,6–2,5										☺								☺	☺
DCGT11T301-MN2	11,63	0,1	0,02–0,06	0,5–1,5																		☺	
DCGT11T302-MN2	11,63	0,2	0,05–0,12	0,5–2,0										☺								☺	☺
DCGT11T304-MN2	11,63	0,4	0,08–0,25	0,6–3,0										☺								☺	☺
DCGT11T308-MN2	11,63	0,8	0,10–0,30	0,8–3,5										☺								☺	☺

See the ISO 1832 designation key for dimensions

HE = Coated cermet
 HC = Coated carbide

☺ ☺ ☺ / ★ New addition to the product range

Positive rhombic 55°
DCMT / DCGT
Tiger-tec® Silver



Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P						M				K		N	S					
					HE		HC				HC		HC		HC	HC	HC		HC				
					WEP10	WPP01	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S	
DCMT070204-MM4	7,75	0,4	0,08-0,20	0,4-2,0						☹	☹		☺	☺	☹					☺	☺	☹	
DCMT070208-MM4	7,75	0,8	0,12-0,25	0,5-2,0						☹	☹		☺	☺						☺	☺		
DCMT11T302-MM4	11,63	0,2	0,04-0,12	0,2-2,0									☺	☺	☹						☺	☺	
DCMT11T304-MM4	11,63	0,4	0,08-0,25	0,4-3,0						☹	☹		☺	☺	☹					☺	☺	☹	
DCMT11T308-MM4	11,63	0,8	0,12-0,32	0,5-3,0						☹	☹		☺	☺	☹					☺	☺	☹	
DCMT11T312-MM4	11,63	1,2	0,15-0,35	0,5-3,0									☺								☺		
DCGT070204-MM4	7,75	0,4	0,08-0,20	0,4-2,0								☺		☺						☺		☺	
DCGT11T302-MM4	11,63	0,2	0,04-0,12	0,2-2,0								☺		☺						☺		☺	
DCGT11T304-MM4	11,63	0,4	0,08-0,25	0,4-3,0								☺	☺	☺						☺	☺	☺	
DCGT11T308-MM4	11,63	0,8	0,12-0,32	0,5-3,0								☺	☺	☺						☺	☺	☺	

See the ISO 1832 designation key for dimensions

HE = Coated cermet
 HC = Coated carbide

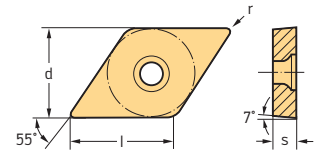
WALTER SELECT

Optimum indexable insert for



☺ Good ☹ Average ☹ Poor

machining conditions

Positive rhombic 55° DCMT Perform



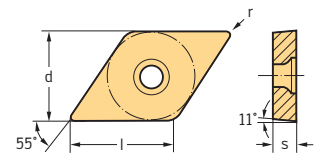
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P		M			K		S				
					HC		HC			HC		HC				
					WPP10S	WPP20S	WPP30S	WMP20S	WPM10S	WPM20S	WPM30S	WKK10S	WKK20S	WSM10S	WSM20S	WSM30S
 DCMT070204-FV4	7,75	0,4	0,05–0,16	0,1–1,5				⊕								
DCMT11T302-FV4	11,63	0,2	0,04–0,12	0,1–1,0				⊕								
DCMT11T304-FV4	11,63	0,4	0,05–0,16	0,1–1,5				⊕								
DCMT11T308-FV4	11,63	0,8	0,08–0,20	0,1–1,5				⊕								
 DCMT11T304-MV4	11,63	0,4	0,10–0,25	0,4–3,0				⊕								
DCMT11T308-MV4	11,63	0,8	0,15–0,32	0,6–3,0				⊕								

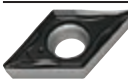


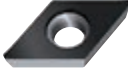
See the ISO 1832 designation key for dimensions

HC = Coated carbide

Positive rhombic 55° DPMT / DPGT / DPMW Tiger-tec® Silver



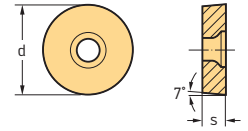
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P		M			K		S						
					HC		HC			HC		HC						
					WPP10S	WPP20S	WPP30S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S	WSM20S	WSM30S
 DPMT070204-FM4	7,75	0,4	0,05–0,16	0,1–1,5				⊕										
DPMT11T304-FM4	11,63	0,4	0,05–0,16	0,1–1,5				⊕										
DPMT11T308-FM4	11,63	0,8	0,08–0,20	0,1–1,5				⊕										
 DPMT070204-FP4	7,75	0,4	0,05–0,16	0,1–1,5	⊕													
DPMT11T304-FP4	11,63	0,4	0,05–0,16	0,1–1,5	⊕													
DPMT11T308-FP4	11,63	0,8	0,08–0,20	0,1–1,5	⊕													
 DPGT070204-MM4	7,75	0,4	0,08–0,20	0,4–2,0					⊕						⊕		⊕	
DPGT11T304-MM4	11,63	0,4	0,08–0,25	0,4–3,0					⊕						⊕		⊕	
DPGT11T308-MM4	11,63	0,8	0,12–0,32	0,5–3,0					⊕						⊕		⊕	
 DPMW11T308-RK6	11,63	0,8	0,16–0,35	0,5–4,0										⊕				


See the ISO 1832 designation key for dimensions

HC = Coated carbide

**Positive round
RCGT**



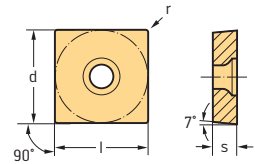
Indexable inserts

Designation	d mm	f mm	a _p mm	P			M			K		N	S		
				HC			HC			HC		HC	HC		
				WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM10S
 RCGT0602M0-MN2	6	0,10–0,55	0,6–2,5								☉				
RCGT0803M0-MN2	8	0,12–0,60	0,7–3,0								☉				
RCGT10T3M0-MN2	10	0,15–0,70	0,8–4,0								☉				
RCGT1204M0-MN2	12	0,18–0,80	1,0–5,0								☉				
RCGT120400-MN2	12,7	0,18–0,80	1,0–5,0								☉				

See the ISO 1832 designation key for dimensions

HC = Coated carbide

Positive square SCGT / SCMT Tiger-tec® Silver



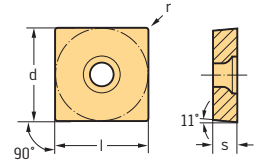
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P				M				K		N		S		
					HC				HC				HC		HC		HC		
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S
	SCGT09T304-FN2	9,53	0,4	0,08–0,25	0,2–2,5														
	SCGT09T308-FN2	9,53	0,8	0,10–0,30	0,3–3,0														
	SCGT120408-FN2	12,7	0,8	0,10–0,30	0,3–3,0														
	SCGT09T304-FM2	9,53	0,4	0,08–0,25	0,2–2,5														
	SCGT09T308-FM2	9,53	0,8	0,10–0,30	0,3–3,0														
	SCGT120408-FM2	12,7	0,8	0,10–0,30	0,3–3,0														
	SCMT060204-FM4	6,35	0,4	0,05–0,16	0,1–1,5														
	SCMT09T304-FM4	9,53	0,4	0,05–0,15	0,1–1,5														
	SCMT09T308-FM4	9,53	0,8	0,05–0,18	0,1–1,8														
	SCMT120404-FM4	12,7	0,4	0,05–0,15	0,1–1,5														
	SCMT120408-FM4	12,7	0,8	0,05–0,18	0,1–1,8														
	SCMT060204-FP4	6,35	0,4	0,05–0,16	0,1–1,5														
	SCMT09T304-FP4	9,53	0,4	0,05–0,15	0,1–1,5														
	SCMT09T308-FP4	9,53	0,8	0,05–0,18	0,1–1,8														
	SCMT120404-FP4	12,7	0,4	0,05–0,15	0,1–1,5														
	SCMT120408-FP4	12,7	0,8	0,05–0,18	0,1–1,8														
	SCMT120412-FP4	12,7	1,2	0,12–0,32	0,3–1,8														
	SCMT09T304-FM6	9,53	0,4	0,08–0,25	0,3–2,0														
	SCMT09T308-FM6	9,53	0,8	0,12–0,30	0,5–2,0														
	SCMT120408-FM6	12,7	0,8	0,12–0,32	0,5–2,5														
	SCGT09T304-MN2	9,53	0,4	0,08–0,25	0,6–4,0														
	SCGT09T308-MN2	9,53	0,8	0,10–0,35	0,7–4,0														
	SCGT120408-MN2	12,7	0,8	0,10–0,40	0,8–6,0														
	SCMT09T304-MM4	9,53	0,4	0,08–0,25	0,4–3,0														
	SCMT09T308-MM4	9,53	0,8	0,12–0,32	0,5–3,0														
	SCMT120408-MM4	12,7	0,8	0,12–0,32	0,5–3,5														
	SCGT09T304-MM4	9,53	0,4	0,08–0,25	0,4–3,0														
	SCGT09T308-MM4	9,53	0,8	0,12–0,32	0,5–3,0														
	SCGT120408-MM4	12,7	0,8	0,12–0,32	0,5–3,5														

















See the ISO 1832 designation key for dimensions

HC = Coated carbide

**Positive square
SPMT / SPGT / SPMW**
Tiger-tec® Silver



Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P				M				K		S		
					HC				HC				HC		HC		
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S
 SPMT120408-FP4	12,7	0,8	0,05-0,18	0,1-1,8	☺												
 SPMT09T304-MM4	9,53	0,4	0,08-0,25	0,4-3,0													☺
 SPMT09T308-MM4	9,53	0,8	0,12-0,32	0,5-3,0													☺
 SPGT09T304-MM4	9,53	0,4	0,08-0,25	0,4-3,0													☺
 SPGT09T308-MM4	9,53	0,8	0,12-0,32	0,5-3,0													☺
 SPMT09T304-MP4	9,53	0,4	0,08-0,25	0,4-3,0		☺											
 SPMT09T308-MP4	9,53	0,8	0,12-0,32	0,5-3,0		☺											
 SPGT09T304-MP4	9,53	0,4	0,08-0,25	0,4-3,0		☺	☺										
 SPGT09T308-MP4	9,53	0,8	0,12-0,32	0,5-3,0		☺	☺										
 SPMT09T304-MK4	9,53	0,4	0,08-0,25	0,4-3,0													☺
 SPMT09T308-MK4	9,53	0,8	0,12-0,32	0,5-3,0													☺
 SPGT09T304-MK4	9,53	0,4	0,08-0,25	0,4-3,0													☺
 SPGT09T308-MK4	9,53	0,8	0,12-0,32	0,5-3,0													☺
 SPMW09T304-RK6	9,53	0,4	0,12-0,25	0,4-3,0													☺
 SPMW09T308-RK6	9,53	0,8	0,16-0,35	0,6-4,0													☺
 SPMW120408-RK6	12,7	0,8	0,16-0,40	0,6-5,0													☺

See the ISO 1832 designation key for dimensions

HC = Coated carbide

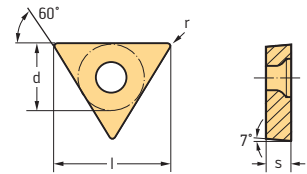
WALTER SELECT

Optimum indexable insert for

☺ Good ☺ Average ☺ Poor

machining conditions

Positive triangular 60°
TCGT / TCMT
Tiger-tec® Silver



Indexable inserts

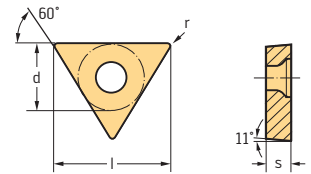
Designation	l mm	r mm	f mm	a _p mm	P					M					K		N	S						
					HE	HC				HC					HC	HC	HC							
					WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM21	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S		
	TCGT06T101-FN2	6,87	0,1	0,02-0,06	0,1-1,5													☺						
	TCGT06T102-FN2	6,87	0,2	0,05-0,12	0,2-2,0													☺						
	TCGT06T104-FN2	6,87	0,4	0,08-0,25	0,2-2,5													☺						
	TCGT090202-FN2	9,62	0,2	0,05-0,12	0,2-2,0													☺						
	TCGT090204-FN2	9,62	0,4	0,08-0,25	0,2-2,5													☺						
	TCGT110202-FN2	11,00	0,2	0,05-0,12	0,2-2,0													☺						
	TCGT110204-FN2	11,00	0,4	0,08-0,25	0,2-2,5													☺						
	TCGT16T304-FN2	16,50	0,4	0,08-0,25	0,2-2,5													☺						
TCGT16T308-FN2	16,50	0,8	0,10-0,30	0,3-3,0													☺							
	TCGT06T101-FM2	6,87	0,1	0,02-0,06	0,1-1,5									☹										
	TCGT06T102-FM2	6,87	0,2	0,05-0,12	0,2-2,0									☹										
	TCGT06T104-FM2	6,87	0,4	0,08-0,25	0,2-2,5						☹		☹						☹					
	TCGT090202-FM2	9,62	0,2	0,05-0,12	0,2-2,0									☹									☹	
	TCGT090204-FM2	9,62	0,4	0,08-0,25	0,2-2,5									☹									☹	
	TCGT110201-FM2	11,00	0,1	0,02-0,06	0,1-1,5									☹									☹	
	TCGT110202-FM2	11,00	0,2	0,05-0,12	0,2-2,0						☹		☹							☹			☹	
	TCGT110204-FM2	11,00	0,4	0,08-0,25	0,2-2,5						☹		☹							☹			☹	
	TCGT16T302-FM2	16,50	0,2	0,05-0,12	0,2-2,0									☹									☹	
	TCGT16T304-FM2	16,50	0,4	0,08-0,25	0,2-2,5						☹		☹							☹			☹	
TCGT16T308-FM2	16,50	0,8	0,10-0,30	0,3-3,0						☹		☹							☹			☹		
	TCMT06T102-FM4	6,87	0,2	0,02-0,10	0,1-1,0									☹										
	TCMT06T104-FM4	6,62	0,4	0,04-0,17	0,1-1,0									☹										
	TCMT090202-FM4	9,62	0,2	0,04-0,12	0,1-1,0									☹	☹						☹	☹	☹	
	TCMT090204-FM4	9,62	0,4	0,05-0,16	0,1-1,5									☹	☹						☹	☹	☹	
	TCMT090208-FM4	9,62	0,8	0,08-0,20	0,1-1,5									☹	☹						☹	☹	☹	
	TCMT110202-FM4	11,00	0,2	0,04-0,12	0,1-1,0									☹	☹						☹	☹	☹	
	TCMT110204-FM4	11,00	0,4	0,05-0,16	0,1-1,5									☹	☹						☹	☹	☹	
	TCMT110208-FM4	11,00	0,8	0,08-0,20	0,1-1,5									☹	☹						☹	☹	☹	
	TCMT16T302-FM4	16,50	0,2	0,04-0,12	0,1-1,0									☹	☹						☹	☹	☹	
	TCMT16T304-FM4	16,50	0,4	0,05-0,16	0,1-1,5									☹	☹						☹	☹	☹	
TCMT16T308-FM4	16,50	0,8	0,08-0,20	0,1-1,5									☹	☹						☹	☹	☹		

See the ISO 1832 designation key for dimensions

HE = Coated cermet
HC = Coated carbide

Positive triangular 60° TPMT / TPGT / TPMW / TPMR / TPGN

Tiger-tec® Silver



Indexable inserts

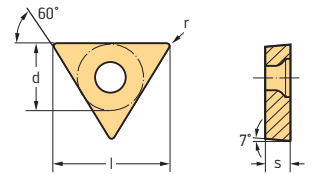
Designation	l mm	r mm	f mm	a _p mm	P				M				K		S				HW
					HC				HC				HC		HC				
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S	WSM20S	
TPMT110204-FM4	11,00	0,4	0,05–0,16	0,1–1,5				☞	☞									☞	
TPMT16T304-FM4	16,50	0,4	0,05–0,16	0,1–1,5				☞	☞									☞	
TPMT110204-FP4	11,00	0,4	0,05–0,16	0,1–1,5	☞														
TPMT16T304-FP4	16,50	0,4	0,05–0,16	0,1–1,5	☞														
TPGT110204-MM4	11,00	0,4	0,08–0,20	0,4–2,0						☞	☞				☞	☞			
TPGT110208-MM4	11,00	0,8	0,12–0,30	0,5–2,0						☞	☞				☞	☞			
TPGT16T304-MM4	16,50	0,4	0,08–0,25	0,4–3,0						☞	☞				☞	☞			
TPGT16T308-MM4	16,50	0,8	0,12–0,32	0,5–3,0						☞	☞				☞	☞			
TPMT090204-MP4	9,62	0,4	0,08–0,20	0,4–2,0		☞													
TPMT110204-MP4	11,00	0,4	0,08–0,20	0,4–2,0		☞													
TPMT110208-MP4	11,00	0,8	0,12–0,30	0,5–2,0		☞													
TPMT16T304-MP4	16,50	0,4	0,08–0,25	0,4–3,0		☞													
TPMT16T308-MP4	16,50	0,8	0,12–0,32	0,5–3,0		☞													
TPMT220408-MP4	22,00	0,8	0,15–0,32	0,5–3,5		☞													
TPMT090204-MK4	9,62	0,4	0,08–0,20	0,4–2,0										☞					
TPMT090208-MK4	9,62	0,8	0,12–0,20	0,5–2,0										☞					
TPMT110204-MK4	11,00	0,4	0,08–0,20	0,4–2,0										☞					
TPMT110208-MK4	11,00	0,8	0,12–0,30	0,5–2,0										☞					
TPMT16T304-MK4	16,50	0,4	0,08–0,25	0,4–3,0										☞					
TPMT16T308-MK4	16,50	0,8	0,12–0,32	0,5–3,0										☞					
TPMW110204-RK6	11,00	0,4	0,12–0,25	0,4–2,5										☞					
TPMW110208-RK6	11,00	0,8	0,16–0,30	0,6–3,0										☞					
TPMW16T304-RK6	16,50	0,4	0,12–0,25	0,4–3,0										☞					
TPMW16T308-RK6	16,50	0,8	0,16–0,35	0,6–4,0										☞					
TPMR110308	11,00	0,8	0,16–0,30	0,6–3,0										☞					
TPMR130308	13,75	0,8	0,16–0,30	0,6–3,0		☞													
TPMR160304	16,50	0,4	0,12–0,25	0,4–3,0		☞													
TPMR160308	16,50	0,8	0,16–0,30	0,6–4,0		☞													
TPGN090204	9,62	0,4	0,10–0,18	0,4–2,0										☞					
TPGN090208	9,62	0,8	0,12–0,20	0,8–2,0										☞					
TPGN110308	11,00	0,8	0,12–0,20	0,8–2,0									☞					☞	
TPGN160304	16,50	0,4	0,10–0,25	0,4–3,0		☞	☞						☞					☞	☞
TPGN160308	16,50	0,8	0,12–0,30	0,8–3,0		☞	☞						☞					☞	☞
TPGN220404	22,00	0,4	0,10–0,25	0,4–4,0		☞							☞						
TPGN220408	22,00	0,8	0,12–0,30	0,8–4,0		☞							☞						

See the ISO 1832 designation key for dimensions


 HC = Coated carbide
 HW = Uncoated carbide

/ ★ New addition to the product range

Positive triangular 60° TCMT Perform



Indexable inserts


Designation	l mm	r mm	f mm	a _p mm	P						M			K		S		
					HC						HC			HC		HC		
					WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM10S	WSM20S
 TCMT110204-MV4	11,00	0,4	0,10–0,25	0,4–2,0														
TCMT16T304-MV4	16,50	0,4	0,10–0,25	0,4–3,0														
TCMT16T308-MV4	16,50	0,8	0,12–0,32	0,5–3,0														


See the ISO 1832 designation key for dimensions


HC = Coated carbide

WALTER
SELECT

Optimum indexable insert for

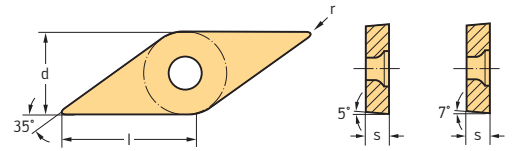

Good


Average


Poor

machining conditions

Positive rhombic 35°
VCGT / VCMT / VBMT
Tiger-tec® Silver



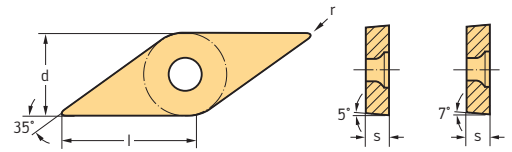
Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P					M				K		N		S				
					HE	HC				HC				HC		HC		HC				
					WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S	
VCGT110302-MM4	11,07	0,2	0,05-0,12	0,2-1,5							☺	☺	☺					☺	☺	☺		
VCGT110304-MM4	11,07	0,4	0,08-0,20	0,4-1,5							☺	☺	☺					☺	☺	☺		
VCGT160402-MM4	16,61	0,2	0,05-0,12	0,2-2,0							☺	☺	☺					☺	☺	☺		
VCGT160404-MM4	16,61	0,4	0,08-0,20	0,4-2,0							☺	☺	☺					☺	☺	☺		
VCGT160408-MM4	16,61	0,8	0,12-0,30	0,5-2,0							☺	☺	☺					☺	☺	☺		
VBMT110304-MK4	11,07	0,4	0,08-0,20	0,4-1,5											☺	☺						
VBMT110308-MK4	11,07	0,8	0,12-0,25	0,5-1,5											☺	☺						
VBMT160404-MK4	16,61	0,4	0,08-0,20	0,4-2,0											☺	☺						
VBMT160408-MK4	16,61	0,8	0,12-0,30	0,5-2,0											☺	☺						
VBMT160412-MK4	16,61	1,2	0,12-0,32	0,5-2,0											☺	☺						

See the ISO 1832 designation key for dimensions

HE = Coated cermet
 HC = Coated carbide

Positive rhombic 35°
VCMT Perform / VBMT Perform

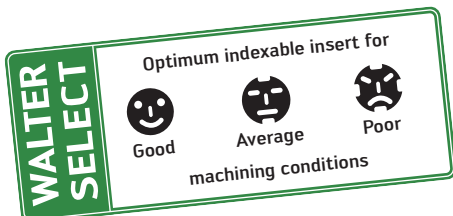


Indexable inserts

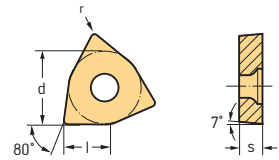
Designation	l mm	r mm	f mm	a _p mm	P						M			K		S					
					HC						HC			HC		HC					
					WPP10S	WPP20S	WPP30S	WMP20S	WPV10	WPV20	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WSM10S	WSM20S	WSM30S		
VCMT110304-FV4	11,07	0,4	0,05-0,16	0,1-1,5					☺	☺											
VCMT160404-FV4	16,61	0,4	0,05-0,16	0,1-1,5					☺	☺											
VCMT160408-FV4	16,61	0,8	0,08-0,20	0,1-1,5					☺	☺											
VBMT160404-MV4	16,61	0,4	0,10-0,25	0,4-2,0					☺	☺											
VBMT160408-MV4	16,61	0,8	0,15-0,30	0,5-2,0					☺	☺											

See the ISO 1832 designation key for dimensions

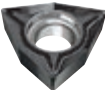


HC = Coated carbide



Positive Trigon 80° WCGT Tiger-tec®

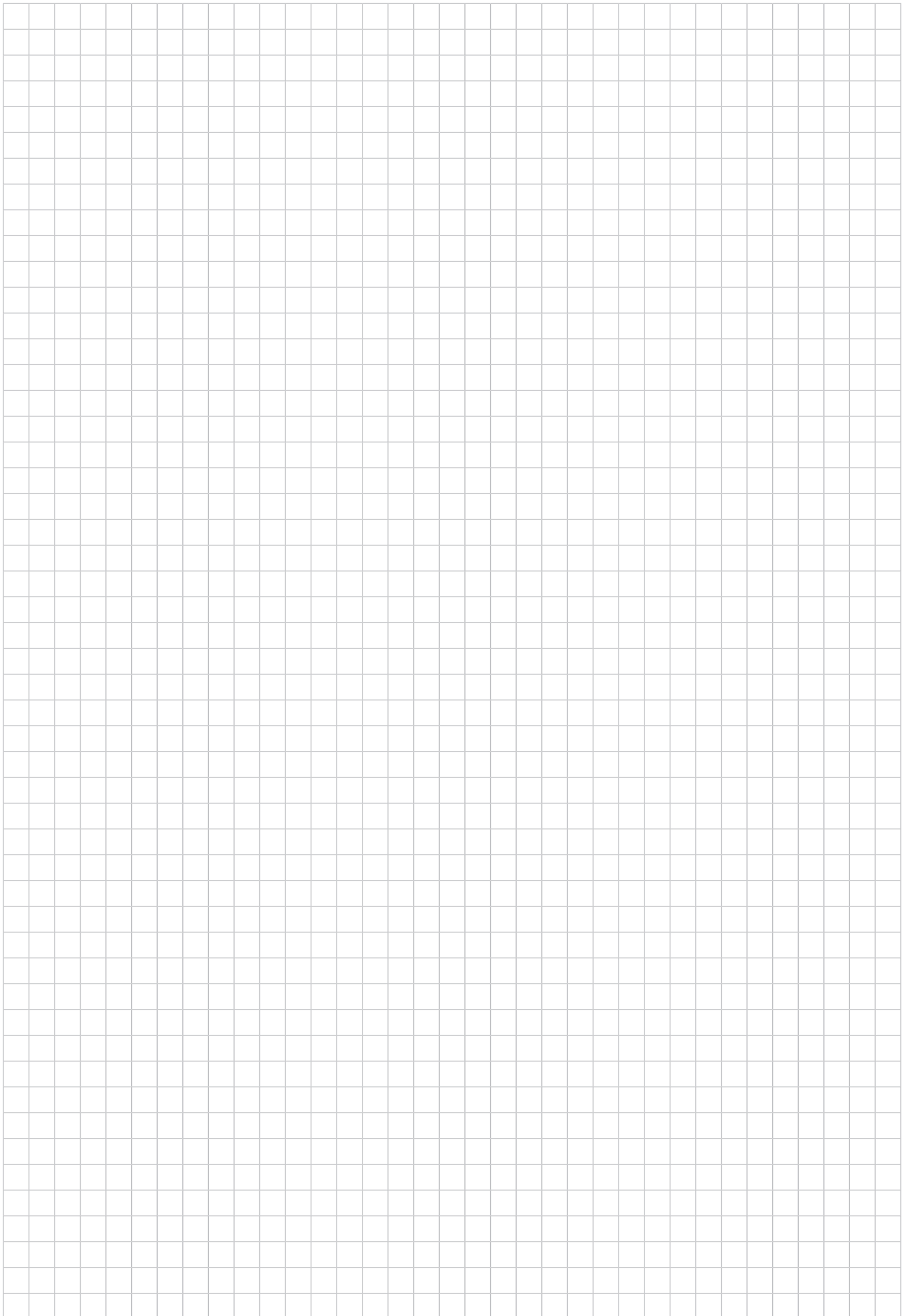


Indexable inserts

Designation	l mm	r mm	f mm	a _p mm	P				M				K		N	S		
					HC				HC				HC		HC	HC		
					WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM10S	WSM20S	WSM21	WSM30S	WKK10S	WKK20S	WNN10	WSM10S	WSM20S
 WCGT020102-FN2	2,7	0,2	0,05–0,12	0,2–1,5											☺			
WCGT020104-FN2	2,7	0,4	0,08–0,20	0,2–1,5											☺			
WCGT030202-FN2	3,91	0,2	0,05–0,12	0,2–2,0											☺			
WCGT030204-FN2	3,91	0,4	0,08–0,25	0,2–2,5											☺			
WCGT040202-FN2	4,34	0,2	0,05–0,12	0,2–2,0											☺			
WCGT040204-FN2	4,34	0,4	0,08–0,25	0,2–2,5											☺			
WCGT06T304-FN2	6,52	0,4	0,08–0,25	0,2–2,5											☺			
WCGT06T308-FN2	6,52	0,8	0,10–0,30	0,3–3,0											☺			
 WCGT030202-FM2	3,91	0,2	0,05–0,12	0,2–2,0							☹							
WCGT030204-FM2	3,91	0,4	0,08–0,25	0,2–2,5							☹							
WCGT040202-FM2	4,34	0,2	0,05–0,12	0,2–2,0							☹							
WCGT040204-FM2	4,34	0,4	0,08–0,25	0,2–2,5							☹							
 WCGT030202-MN2	3,91	0,2	0,05–0,12	0,5–1,5											☺			
WCGT030204-MN2	3,91	0,4	0,08–0,20	0,6–1,5											☺			
WCGT040204-MN2	4,34	0,4	0,08–0,25	0,6–2,5											☺			
WCGT06T302-MN2	6,52	0,2	0,05–0,12	0,6–2,0											☺			
WCGT06T304-MN2	6,52	0,4	0,08–0,25	0,6–3,0											☺			
WCGT080404-MN2	8,69	0,4	0,08–0,25	0,6–4,0											☺			
WCGT080408-MN2	8,69	0,8	0,10–0,35	0,8–4,0											☺			

See the ISO 1832 designation key for dimensions

HC = Coated carbide



Product range overview of indexable inserts and cutting tool materials: ISO turning – CBN/PCD/ceramic



CBN indexable inserts

Insert shape	Description	Page
	Negative basic shape	48
	Positive basic shape 7°	52
	Negative basic shape	49
	Positive basic shape 7°	53
	Negative basic shape	50
	Negative basic shape	50
	Negative basic shape	51
	Positive basic shape 5°	54
	Positive basic shape 7°	54
	Negative basic shape	51

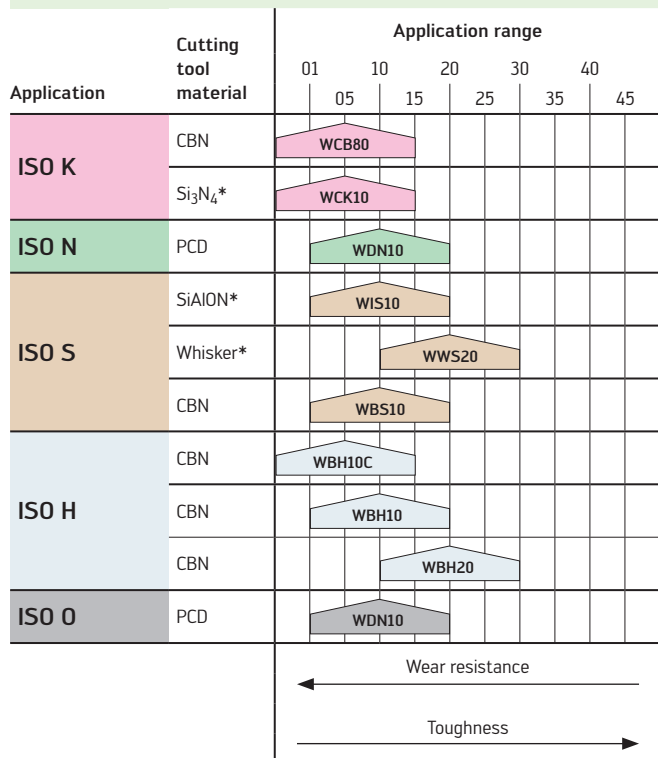
Ceramic indexable inserts

Insert shape	Description	Page	
	Negative basic shape	57	
		Negative basic shape	58
			Negative basic shape
	Negative basic shape		59
			Negative basic shape

PCD indexable inserts

Insert shape	Description	Page
	Positive basic shape 11°	55
	Positive basic shape 11°	55
	Positive basic shape 11°	56
	Positive basic shape 11°	56

Cutting tool materials: CBN, PCD, ceramic



* Ceramic

Designation key for CBN / cermet / ceramic / PCD cutting tool materials – Turning

Example:

W	B	H	10	C
Walter	1	2	3	4

1	2	3	4
Cutting tool material	Primary application	ISO application range	Coating
<p>B CBN</p> <p>C Si₃N₄ ceramic</p> <p>D Diamond</p> <p>E Cermet</p> <p>I SiAlON ceramic</p> <p>W Whisker-reinforced ceramic</p>	<p>P Steel</p> <p>M Stainless steel</p> <p>K Cast iron</p> <p>N NF metals</p> <p>S Materials with difficult cutting properties</p> <p>H Hard materials</p>		<p>C Coated</p>

Designation key in accordance with ISO 1832 for indexable inserts for turning

Example: Ceramic indexable inserts

R	N	G	N	12	07	00	T	010	20
1	2	3	4	5	6	7	8	11	12

1 Insert shape	
A	M
B	O
C	P
D	R
E	S
H	T
K	V
L	W

2 Clearance angle	
A	F
B	G
C	N
D	P
E	

3 Tolerances			
Permissible deviation in mm for			
	d	m	s
A	± 0,025	± 0,005	± 0,025
C	± 0,025	± 0,013	± 0,025
E	± 0,025	± 0,025	± 0,025
F	± 0,013	± 0,005	± 0,025
G	± 0,025	± 0,025	± 0,130
H	± 0,013	± 0,013	± 0,025
J ¹	± 0,05–0,15 ²	± 0,005	± 0,025
K ¹	± 0,05–0,15 ²	± 0,013	± 0,025
L ¹	± 0,05–0,15 ²	± 0,025	± 0,025
M	± 0,05–0,15 ²	± 0,08–0,20 ²	± 0,130
N	± 0,05–0,15 ²	± 0,08–0,20 ²	± 0,025
U	± 0,08–0,25 ²	± 0,13–0,38 ²	± 0,130

¹ Inserts with ground planar cutting edges
² Depending on the insert size (see ISO standard 1832)

6 Insert thickness s [mm]	
	01 s = 1,59
	T1 s = 1,98
	02 s = 2,38
	T2 s = 2,78
	03 s = 3,18
	T3 s = 3,97
	04 s = 4,76
	05 s = 5,56
	06 s = 6,35
	07 s = 7,94
	09 s = 9,52

7 Corner radius r [mm]	
	01 r = 0,1
	02 r = 0,2
	04 r = 0,4
	08 r = 0,8
	12 r = 1,2
	16 r = 1,6
	24 r = 2,4
	R
	M0 Metric version "diameter in [mm]"
	00 Inch version "diameter with inch units in [mm]"

8 Edge formation	
F	
E	
T	
S	

9 Cutting edge preparation	
S	small
M	medium

10 Cutting direction	
	R
	L
	N

Example: CBN indexable insert

C	N	G	A	12	04	08	T	M	.	-	MW	.	2
1	2	3	4	5	6	7	8	9	10		13	14	15

4	
Machining and fastening features	
A	N
B	Q
C	R
F	T
G	U
H	W
J	X
M	

β = 70-90°
β = 40-60°
β = 70-90°
β = 40-60°
β = 70-90°
β = 40-60°
β = 70-90°
β = 40-60°
β = 70-90°
β = 40-60°
Drawing or precise description of the indexable insert is required

5														
Cutting edge length l [mm]														
Inner circle diameter d	C		D		R	S		T		V		W		
	Size	l	Size	l	Size	Size	l	Size	l	Size	l	Size	l	
3,97	5/32							06	6,9					
5	0,197				05							03	3,8	
5,56	7/32							09	9					
6	0,236				06									
6,35	2/8	06	6,4	07	7,7	06 ¹		11	11	11	11	04	4,3	
8	0,315					08						05	5,2	
9,525	3/8	09	9,6	11	11,6	09 ¹	09	9,5	16	16,5	16	16,5	06	6,5
10	0,394					10								
12	0,472					12								
12,7	4/8	12	12,9	15	15,5	12 ¹	12	12,7	22	22			08	8,7
15,875	5/8	16	16,1				15	15,8	27	27			10	10,8
16	0,63					16								
17,46	11/16												12	11,6
19,05	6/8	19	19,3			19 ¹	19	19,0						
20	0,787					20								
25	0,984					25								
25,4	8/8	25	25,8			25 ¹	25	25,4						
32	1,26					32								

¹ Inch version (00)

11
Chamfer width
010 = 0,10 mm
020 = 0,20 mm
025 = 0,25 mm
070 = 0,70 mm
150 = 1,50 mm
200 = 2,00 mm

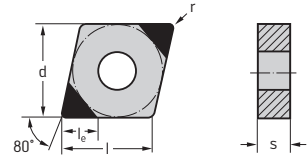
12
Chamfer angle
15 = 15°
20 = 20°

13
Wiper cutting edge
MW Wiper - medium feed





14
Chip breaking area
M Medium machining

15	
Number of cutting edges / version	
1 single	
2 double	
3 triple	
4 quadruple	
...	
9 strip	
0 full-face	
S solid	

CBN – Negative rhombic 80° CNGA



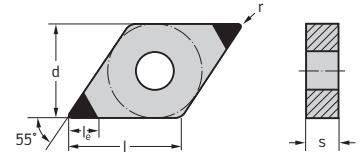
Indexable inserts

Designation	Number of cutting edges	l _e mm	r mm	f mm	a _p mm	K		N		S		H		O	
						BH	CN	DP	BH	DP	BL	DP			
						WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
 Wiper	CNGA120404TM-MW2	2	2,8	0,4	0,05–0,20	0,1–0,5						☹	☹		
	CNGA120408TM-MW2	2	2,7	0,8	0,05–0,25	0,1–1,0						☹	☹		
	CNGA120412TM-MW2	2	2,8	1,2	0,05–0,30	0,1–1,0						☹	☹		
 	CNGA120404EM-2	2	2,8	0,4	0,05–0,20	0,1–0,5				☹					
	CNGA120408EM-2	2	2,7	0,8	0,05–0,25	0,1–1,0				☹					
 Chipbreaker	CNGA120404TM-M2	2	2,8	0,4	0,05–0,20	0,1–0,5						☹			
	CNGA120408TM-M2	2	2,7	0,8	0,05–0,25	0,1–1,0						☹			
	CNGA120412TM-M2	2	2,8	1,2	0,05–0,30	0,1–1,0						☹			
 	CNGA120404TM-2	2	2,8	0,4	0,05–0,20	0,1–0,5						☹	☹	☹	
	CNGA120408TM-2	2	2,7	0,8	0,05–0,25	0,1–1,0						☹	☹	☹	
	CNGA120412TM-2	2	2,8	1,2	0,05–0,30	0,1–1,0						☹	☹	☹	

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

CBN – Negative rhombic 55° DNGA



Indexable inserts

Image	Designation	Number of cutting edges	l _e mm	r mm	f mm	a _p mm	K		N		S		H		O			
							BH		CN		DP		BH		BL		DP	
							WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10				
	DNGA150404TM-MW2	2	2,9	0,4	0,05–0,20	0,1–0,5							☹	☹				
	DNGA150604TM-MW2	2	2,9	0,4	0,05–0,20	0,1–0,5							☹	☹				
	DNGA150408TM-MW2	2	2,8	0,8	0,05–0,25	0,1–1,0							☹	☹				
	DNGA150608TM-MW2	2	2,8	0,8	0,05–0,25	0,1–1,0							☹	☹				
	DNGA150612TM-MW2	2	2,8	1,2	0,05–0,30	0,1–1,0							☹	☹				
	DNGA150404EM-2	2	2,9	0,4	0,05–0,20	0,1–0,5				☹								
	DNGA150408EM-2	2	2,8	0,8	0,05–0,25	0,1–1,0				☹								
	DNGA150404TM-M2	2	2,9	0,4	0,05–0,20	0,1–0,5							☹					
	DNGA150604TM-M2	2	2,9	0,4	0,05–0,20	0,1–0,5							☹					
	DNGA150408TM-M2	2	2,8	0,8	0,05–0,25	0,1–1,0							☹					
	DNGA150608TM-M2	2	2,8	0,8	0,05–0,25	0,1–1,0							☹					
	DNGA150612TM-M2	2	2,8	1,2	0,05–0,30	0,1–1,0							☹					
	DNGA150404TM-2	2	2,9	0,4	0,05–0,20	0,1–0,5							☹	☹	☹			
	DNGA150604TM-2	2	2,9	0,4	0,05–0,20	0,1–0,5							☹	☹	☹			
	DNGA150408TM-2	2	2,8	0,8	0,05–0,25	0,1–1,0							☹	☹	☹			
	DNGA150608TM-2	2	2,8	0,8	0,05–0,25	0,1–1,0							☹	☹	☹			
	DNGA150612TM-2	2	2,8	1,2	0,05–0,30	0,1–1,0							☹	☹	☹			

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

WALTER SELECT

Optimum indexable insert for

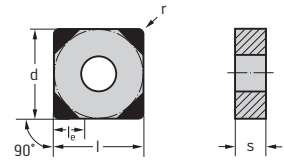
Good

Average


Poor

machining conditions

CBN – Negative square SNGA



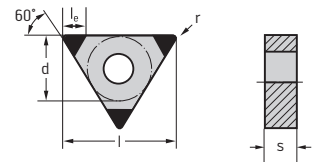
Indexable inserts

Designation	Number of cutting edges	l_e mm	r mm	f mm	a_p mm	K		N		S		H		O	
						BH	CN	DP	BH	BL	DP	DP			
						WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
 SNGA120408TM-4 SNGA120412TM-4	4	2,8	0,8	0,05–0,30	0,1–1,0										
	4	2,8	1,2	0,05–0,30	0,1–1,0										


See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si_3N_4
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

CBN – Negative triangular 60° TNGA



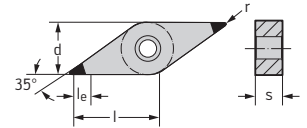
Indexable inserts

Designation	Number of cutting edges	l_e mm	r mm	f mm	a_p mm	K		N		S		H		O	
						BH	CN	DP	BH	BL	DP	DP			
						WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
 TNGA160404TM-3 TNGA160408TM-3	3	3	0,4	0,05–0,20	0,1–0,5										
	3	2,8	0,8	0,05–0,20	0,1–0,5										


See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si_3N_4
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

CBN – Negative rhombic 35° VNGA



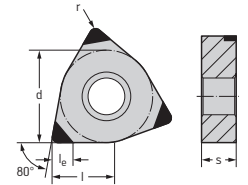
Indexable inserts

Designation	Number of cutting edges	l _e mm	r mm	f mm	a _p mm	K		N		S		H		O	
						BH	CN	DP	BH	BL	BL	DP			
						WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
 VNGA160404TM-2 VNGA160408TM-2	2	3	0,4	0,05–0,20	0,1–0,5							☹	☹	☹	
	2	3	0,8	0,05–0,20	0,1–0,5							☹	☹	☹	


See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

CBN – Negative Trigon 80° WNGA

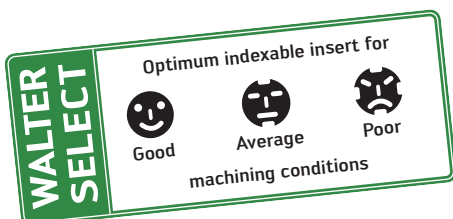


Indexable inserts

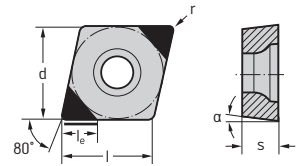
Designation	Number of cutting edges	l _e mm	r mm	f mm	a _p mm	K		N		S		H		O	
						BH	CN	DP	BH	BL	BL	DP			
						WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
 WNGA080408TM-3	3	2,8	0,8	0,05–0,25	0,1–1,0							☹	☹		

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content



CBN – Positive rhombic 80° CCGW



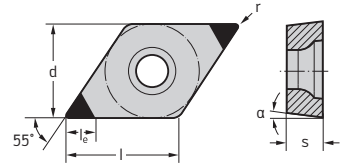
Indexable inserts

Designation	Number of cutting edges	l _e mm	r mm	α	f mm	a _p mm	K		N		S		H		O	
							BH	CN	DP	BH	WBH10C	WBH10	WBH20	DP		
							WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
	CCGW09T304TS-MW2	2	2,8	0,4	7°	0,05–0,20	0,1–0,5									
	CCGW09T308TM-MW2	2	2,7	0,8	7°	0,05–0,25	0,1–0,5									
	CCGW060202EM-2	2	2,8	0,2	7°	0,05–0,15	0,1–0,3									
	CCGW060204EM-2	2	2,8	0,4	7°	0,05–0,20	0,1–0,3									
	CCGW09T304EM-2	2	2,8	0,4	7°	0,05–0,20	0,1–0,5									
	CCGW09T308EM-2	2	2,7	0,8	7°	0,05–0,25	0,1–0,5									
	CCGW060202TS-2	2	2,8	0,2	7°	0,05–0,15	0,1–0,3									
	CCGW060204TM-2	2	2,8	0,4	7°	0,05–0,20	0,1–0,3									
	CCGW060208TM-2	2	2,7	0,8	7°	0,05–0,25	0,1–0,5									
	CCGW09T304TM-2	2	2,8	0,4	7°	0,05–0,20	0,1–0,5									
	CCGW09T308TM-2	2	2,7	0,8	7°	0,05–0,25	0,1–0,5									

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

CBN – Positive rhombic 55° DCGW

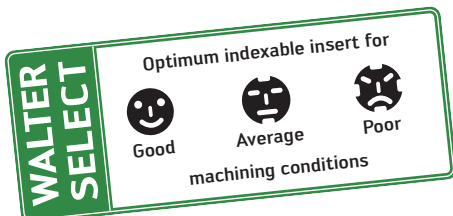


Indexable inserts

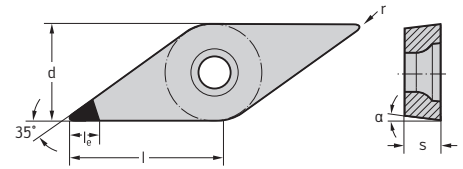
Designation	Number of cutting edges	l _e mm	r mm	α	f mm	a _p mm	K		N		S		H		O	
							BH	CN	DP	BH	DP	BH	BL	DP	DP	
							WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
	DCGW070202TM-2	2	3	0,2	7°	0,05–0,15	0,1–0,3									
	DCGW070204TM-2	2	2,9	0,4	7°	0,05–0,20	0,1–0,3									
	DCGW070208TM-2	2	2,8	0,8	7°	0,05–0,25	0,1–0,5									
	DCGW11T302TM-2	2	3	0,2	7°	0,05–0,15	0,1–0,5									
	DCGW11T304TM-2	2	2,9	0,4	7°	0,05–0,20	0,1–0,5									
	DCGW11T308TM-2	2	2,8	0,8	7°	0,05–0,25	0,1–0,5									
	DCGW070202EM-2	2	3	0,2	7°	0,05–0,15	0,1–0,3									
	DCGW070204EM-2	2	2,9	0,4	7°	0,05–0,20	0,1–0,3									
	DCGW11T304EM-2	2	2,9	0,4	7°	0,05–0,20	0,1–0,5									
	DCGW11T308EM-2	2	2,8	0,8	7°	0,05–0,25	0,1–0,5									
	DCGW070202TS-2	2	3	0,2	7°	0,05–0,15	0,1–0,3									
	DCGW11T302TS-2	2	3	0,2	7°	0,05–0,15	0,1–0,5									

See the ISO 1832 designation key for dimensions




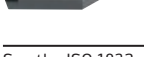
BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content



CBN – Positive rhombic 35° VBGW



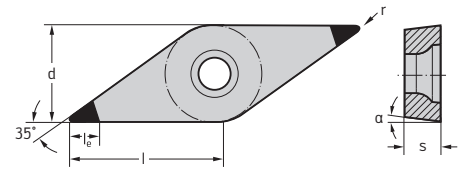
Indexable inserts

Designation	Number of cutting edges	l_e mm	r mm	α	f mm	a_p mm	K		N		S		H		O	
							BH	CN	DP	BH	WBH10C	WBH10	WBH20	DP		
 VBGW160404TS-2	2	3	0,4	5°	0,05–0,20	0,1–0,5							☺			
 VBGW160408TS-2	2	3	0,8	5°	0,05–0,25	0,1–0,5							☺			
 VBGW160404TM-2	2	3	0,4	5°	0,05–0,20	0,1–0,5							☺	☺		
 VBGW160408TM-2	2	3	0,8	5°	0,05–0,25	0,1–0,5							☺	☺		









See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si_3N_4
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

CBN – Positive rhombic 35° VCGW



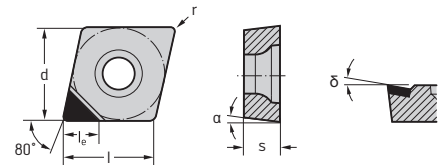
Indexable inserts

Designation	Number of cutting edges	l_e mm	r mm	α	f mm	a_p mm	K		N		S		H		O	
							BH	CN	DP	BH	WBH10C	WBH10	WBH20	DP		
 VCGW160404TS-2	2	3	0,4	7°	0,05–0,20	0,1–0,5							☺			
 VCGW160408TS-2	2	3	0,8	7°	0,05–0,25	0,1–0,5							☺			
 VCGW160404TM-2	2	3	0,4	7°	0,05–0,20	0,1–0,5							☺			
 VCGW160408TM-2	2	3	0,8	7°	0,05–0,25	0,1–0,5							☺			
 VCGW11T302EM-2	2	3,4	0,2	7°	0,05–0,15	0,1–0,3							☺			
 VCGW11T304EM-2	2	3	0,4	7°	0,05–0,20	0,1–0,3							☺			
 VCGW160404EM-2	2	3	0,4	7°	0,05–0,20	0,1–0,5							☺			
 VCGW160408EM-2	2	3	0,8	7°	0,05–0,25	0,1–0,5							☺			


See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si_3N_4
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

PCD – Positive rhombic 80° CPGW



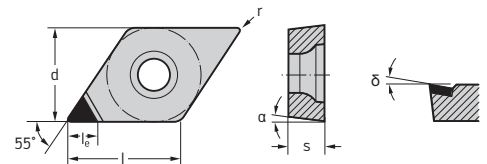
Indexable inserts

Designation	Number of cutting edges	l _e mm	r mm	α	δ°	f mm	a _p mm	K		N		S		H		O	
								BH	CN	DP	BH	BL	BL	DP			
								WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
 CPGW050204FS-1	1	3	0,4	11°	0°	0,03–0,25	0,1–2,5			☺							
CPGW060204FS-1	1	3,5	0,4	11°	0°	0,03–0,25	0,1–3,0			☺							
CPGW09T304FS-1	1	4	0,4	11°	0°	0,03–0,25	0,1–3,5			☺							
CPGW09T308FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			☺							
CPGW120408FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			☺							

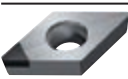
See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

PCD – Positive rhombic 55° DPGW

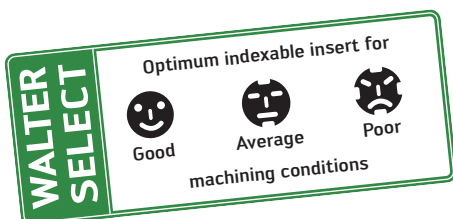


Indexable inserts

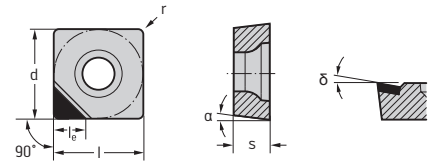
Designation	Number of cutting edges	l _e mm	r mm	α	δ°	f mm	a _p mm	K		N		S		H		O	
								BH	CN	DP	BH	BL	BL	DP			
								WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
 DPGW070204FS-1	1	3,5	0,4	11°	0°	0,03–0,25	0,1–3,0			☺							
DPGW11T304FS-1	1	4	0,4	11°	0°	0,03–0,25	0,1–3,5			☺							
DPGW11T308FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			☺							

See the ISO 1832 designation key for dimensions


BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content



PCD – Positive square SPGW



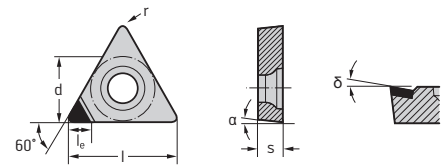
Indexable inserts

Designation	Number of cutting edges	l _e mm	r mm	α	δ	f mm	a _p mm	K		N		S		H		O		
								BH	CN	DP	BH	WBH10C	WBH10	WBH20	DP			
 SPGW09T308FS-1	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			⊕							⊕	


See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

PCD – Positive triangular 60° TPGW



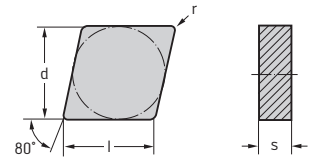
Indexable inserts

Designation	Number of cutting edges	l _e mm	r mm	α	δ	f mm	a _p mm	K		N		S		H		O		
								BH	CN	DP	BH	WBH10C	WBH10	WBH20	DP			
 TPGW110204FS-1 TPGW110208FS-1 TPGW16T304FS-1 TPGW16T308FS-1	1	4,2	0,4	11°	0°	0,03–0,25	0,1–3,5			⊕							⊕	
	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			⊕								⊕
	1	4,2	0,4	11°	0°	0,03–0,25	0,1–3,5			⊕								⊕
	1	4	0,8	11°	0°	0,03–0,38	0,1–3,5			⊕								⊕

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

Ceramic – Negative rhombic 80° CNGN / CNGA / CNGX

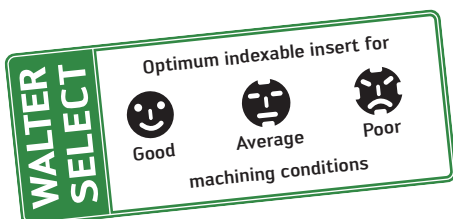


Indexable inserts

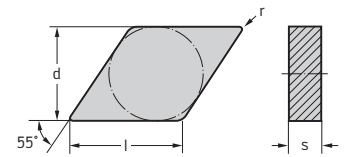
Designation	r mm	f mm	a _p mm	K		N	S			H			O
				BH	CN	DP	BH	CN	CR	BL	BL	WBH20	WDN10
				WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
	CNGN120408T01020	0,8	0,10–0,22	0,1–3,6									
	CNGN120408T02020	0,8	0,10–0,40	0,1–6,0	☺								
	CNGN120412T01020	1,2	0,10–0,32	0,1–3,6									
	CNGN120412T02020	1,2	0,10–0,60	0,1–6,0	☺								
	CNGN120416T02020	1,6	0,10–0,60	0,1–6,0	☺								
	CNGN120708T01020	0,8	0,10–0,22	0,1–3,6				☺	☺				
	CNGN120712T01020	1,2	0,10–0,32	0,1–3,6				☺	☺				
	CNGN120712T02020	1,2	0,10–0,60	0,1–6,0	☺								
	CNGN120716T01020	1,6	0,10–0,42	0,1–3,6				☺	☺				
CNGN120716T02020	1,6	0,10–0,60	0,1–6,0	☺									
	CNGA120408T02020	0,8	0,10–0,40	0,1–6,0	☺								
	CNGA120412T02020	1,2	0,10–0,60	0,1–6,0	☺								
	CNGA120416T02020	1,6	0,10–0,60	0,1–6,0	☺								
	CNGX120712T02020	1,2	0,10–0,60	0,1–6,0	☺								
	CNGX160712T02020	1,2	0,10–0,60	0,1–8,0	☺								
	CNGX120716T02020	1,6	0,10–0,60	0,1–6,0	☺								
	CNGX160716T02020	1,6	0,10–0,60	0,1–8,0	☺								

See the ISO 1832 designation key for dimensions

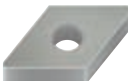
BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content



Ceramic – Negative rhombic 80° DNGA



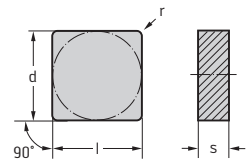
Indexable inserts

Designation	r mm	f mm	a _p mm	K		N		S		H		O	
				BH	CN	DP	BH	CN	CR	BL	DP		
 DNGA150608T02020	0,8	0,10–0,40	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
DNGA150612T02020	1,2	0,10–0,60	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		




See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

Ceramic – Negative square SNGN / SNGA / SNGX



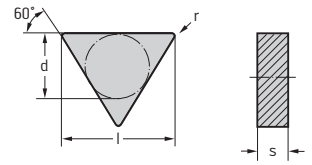
Indexable inserts

Designation	r mm	f mm	a _p mm	K		N		S		H		O	
				BH	CN	DP	BH	CN	CR	BL	DP		
 SNGN120412T02020	1,2	0,10–0,60	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGN120416T02020	1,6	0,10–0,60	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGN120708T01020	0,8	0,10–0,22	0,1–3,6	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGN120712T01020	1,2	0,10–0,32	0,1–3,6	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGN120712T02020	1,2	0,10–0,60	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGN120716T01020	1,6	0,10–0,42	0,1–3,6	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGN120716T02020	1,6	0,10–0,60	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
 SNGA120408T02020	0,8	0,10–0,40	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGA120412T02020	1,2	0,10–0,60	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGA120416T02020	1,6	0,10–0,80	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
 SNGX120712T02020	1,2	0,10–0,60	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGX120716T02020	1,6	0,10–0,60	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10
SNGX150712T02020	1,2	0,10–0,60	0,1–7,0	WCB80	WCK10	WDN10	WBS10	WIS10	WWS20	WBH10C	WBH10	WBH20	WDN10

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 CR = Reinforced ceramic
 BL = CBN with low CBN content

Ceramic – Negative triangular 60° TNGN / TNGA



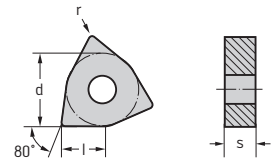
Indexable inserts

Designation	r mm	f mm	a _p mm	K		N		S		H		O	
				BH	CN	DP	BH	BL	BL	DP			
 TNGN160412T02020 TNGN160416T02020	1,2	0,10–0,60	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
	1,6	0,10–0,60	0,1–5,0	⊕									
 TNGA160408T02020 TNGA160412T02020	0,8	0,10–0,40	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
	1,2	0,10–0,60	0,1–5,0	⊕									

See the ISO 1832 designation key for dimensions

BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content

Ceramic – Negative Trigon 80° WNGA

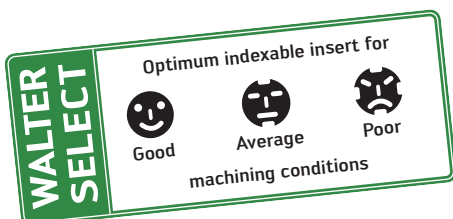


Indexable inserts

Designation	r mm	f mm	a _p mm	K		N		S		H		O	
				BH	CN	DP	BH	BL	BL	DP			
 WNGA080408T02020 WNGA080412T02020	0,8	0,10–0,40	0,1–5,0	WCB80	WCK10	WDN10	WBS10	WBH10C	WBH10	WBH20	WDN10		
	1,2	0,10–0,60	0,1–5,0	⊕									

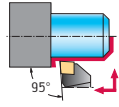
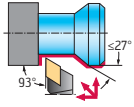
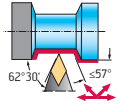
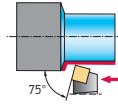
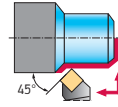
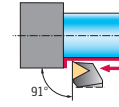






See the ISO 1832 designation key for dimensions

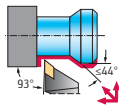
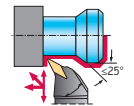
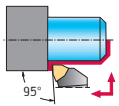



BH = CBN with high CBN content
 CN = Silicon nitride Si₃N₄
 DP = Polycrystalline diamond
 BL = CBN with low CBN content



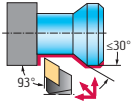
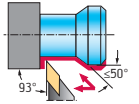


Walter Turn turning tools product range overview – External machining

Square-shank turning toolholders – Negative basic shape

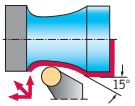

Machining						
Type	CN..	DN..	DN..	SN..	SN..	TN..
Designation	DCLN...-P	DDJN...-P	DDPN	DSBN...-P	DSSN...-P	DTGN...-P
Approach angle κ	95°	93°	62° 30'	75°	45°	91°
Clamping system	Clamp	Clamp	Clamp	Clamp	Clamp	Clamp
Coolant supply	Precision cooling	Precision cooling	External	Precision cooling	Precision cooling	Precision cooling
Shank size h [mm]	20–32	20–25		25	25	
Shank size h [inch]	0.750–1.000	0.750–1.000	0.750–1.250			0.750–1.000
Page	64	66	68	69	70	71
						

Machining			
Type	VN..	VN..	WN..
Designation	DVJN...-P	DVTN	DWLN...-P
Approach angle κ	93°	117,5°	95°
Clamping system	Clamp	Clamp	Clamp
Coolant supply	Precision cooling	External	Precision cooling
Shank size h [mm]	20–25		20–25
Shank size h [inch]	0.750–1.000	0.750–1.250	0.750–1.000
Page	72	74	75
			

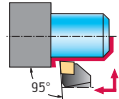
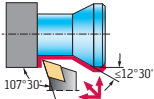
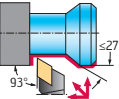
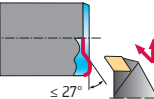
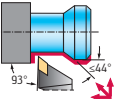










Walter Turn turning tools product range overview – External machining Square-shank turning toolholders – Positive basic shape

Machining		
Type	DC..	VB../VC..
Designation	DDJC...-P	DVJB...-P
Approach angle κ	93°	93°
Clamping system	Clamp	Clamp
Coolant supply	Precision cooling	Precision cooling
Shank size h [mm]	20–25	20–25
Shank size h [inch]		
Page	77	78
		

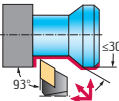
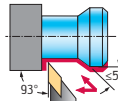




Walter Turn turning tools product range overview – External machining Square-shank turning toolholders – Ceramic indexable inserts

Machining	
Type	RN..
Designation	CRSN...-P
Approach angle κ	0°
Clamping system	Clamp
Coolant supply	Precision cooling
Shank size h [mm]	25
Shank size h [inch]	
Page	79
	

Walter Turn turning tools product range overview – External machining Walter Capto™ turning toolholders – Negative basic shape

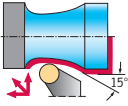


Machining					
Type					
Designation	C...-DCLN...-P	C...-DDHN...-P	C...-DDJN...-P	C...-DDUN...-P	C...-DVJN...-P
Lead angle κ	95°	107,5°	93°	93°	93°
Clamping system	Clamp	Clamp	Clamp	Clamp	Clamp
Coolant supply	Precision cooling	Precision cooling	Precision cooling	Precision cooling	Precision cooling
Walter Capto™ size	C4–C8	C6	C4–C8	C6	C4–C6
Insert size l [mm]	12–16	15	11–15	15	16
Page	80	81	82	83	84
					

Walter Turn turning tools product range overview – External machining Walter Capto™ turning toolholders – Positive basic shape

Machining		
Type		
Designation	C...-DDJC...-P	C...-DVJB...-P
Lead angle κ	93°	93°
Clamping system	Clamp	Clamp
Coolant supply	Precision cooling	Precision cooling
Walter Capto™ size	C4–C5	C4–C8
Insert size l [mm]	11	16
Page	85	86
		

Walter Turn turning tools product range overview – External machining

Walter Capto™ turning toolholders – Ceramic indexable inserts

Machining	
Type	 RN..
Designation	C...-CRSN...-P
Approach angle κ	0°
Clamping system	Clamp
Coolant supply	Precision cooling
Walter Capto™ size	C6
Insert size l [mm]	12
Page	87
	

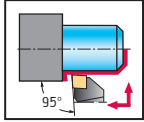
Shank tool – Rigid clamping

DCLN...-P **inch**

Walter Turn



– Precision cooling



Tool	Designation	(in)	$h = h_1$	b	b_1	f	l_1	l_4	γ	λ_s	Type
			Inch	Inch	Inch	Inch	Inch	Inch	Inch	°	
	DCLNR/L124B-P	0,500	0,750	0,750	0,394	1,000	4,500	1,575	-6°	-6°	CN .. 1204 ..
	DCLNR/L164D-P	0,500	1,000	1,000	0,157	1,250	6,000	1,516	-6°	-6°	
	DCLNR/L165D-P	0,625	1,000	1,000	0,472	1,250	6,000	1,713	-6°	-6°	

Measured with master insert: CN .. 120408 / CN .. 160612

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: DCLNR124B-P/ordering example, left-hand tool: DCLNL124B-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	CN .. 1204 ..	CN .. 1606 ..
			Shim
	Screw for shim	FS1461 (Torx 15IP)	FS1463 (Torx 20IP)
	Tightening torque	2,5 Nm	5,0 Nm
	Left clamp	PK265L	PK267
	Right clamp	PK265R	PK267
	Screw for clamp	FS1473 (Torx 15IP)	FS1474 (Torx 20IP)
	Tightening torque	3,9 Nm	6,4 Nm
	Pressure spring	FS2188	FS2298
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)	FS1464 (Torx 20IP)

Accessories	Type	CN .. 1204 ..	CN .. 1606 ..
			Left clamp set (standard assembly parts)
	Right clamp set (standard assembly parts)	PK265R-SET	PK267-SET

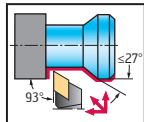
Shank tool – Rigid clamping

DDJN...-P

Walter Turn



– Precision cooling



Tool	Designation		h = h ₁ mm	b mm	b ₁ mm	f mm	l ₁ mm	l ₄ mm	γ	λ _s	Type	
	DDJNR/L2020X11-P		11	20	20	6	25	125	48,5	-6°	-7°	DN .. 1104 ..
	DDJNR/L2525X11-P		11	25	25	3	32	140	48,5	-6°	-7°	
	DDJNR/L2020X15-P		15	20	20	7	25	125	48,5	-6°	-7°	DN .. 1506 ..
	DDJNR/L2525X15-P		15	25	25	3	32	140	48,5	-6°	-7°	

Measured with master insert: DN .. 110408 / DN .. 150608

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: DDJNR2020X11-P/ordering example, left-hand tool: DDJNL2020X11-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	DN .. 1104 ..	DN .. 1506 ..
			Shim
	Screw for shim Tightening torque	FS1462 (Torx 9IP) 1,5 Nm	FS1461 (Torx 15IP) 2,5 Nm
	Left clamp	PK261L	PK265L
	Right clamp	PK261R	PK265R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)

Accessories	Type	DN .. 1104 ..	DN .. 1506 ..
			Left clamp set (standard assembly parts)
	Right clamp set (standard assembly parts)	PK261R-SET	PK265R-SET
	Shim for DN .. 1504 ..		AP304-DN1504

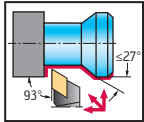
Shank tool – Rigid clamping

DDJN...-P **inch**

Walter Turn



– Precision cooling



Tool	Designation		$h = h_1$	b	b_1	f	l_1	l_4	γ	λ_s	Type
			Inch	Inch	Inch	Inch	Inch	Inch	Inch	°	
	DDJNR/L163D-P	0,375	1,000	1,000	0,118	1,250	6,000	1,909	-6°	-7°	DN .. 1104 ..
	DDJNR/L124B-P	0,500	0,750	0,750	0,276	1,000	4,500	1,969	-6°	-7°	DN .. 1504 ..
	DDJNR/L164D-P	0,500	1,000	1,000	0,118	1,250	6,000	1,909	-6°	-7°	DN .. 1504 ..

Measured with master insert: DN .. 110408 / DN .. 150408
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: DDJNR163D-P/ordering example, left-hand tool: DDJNL163D-P
 Bodies and assembly parts are included in the scope of delivery.

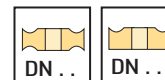
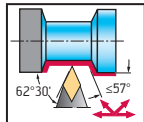
Assembly parts		DN .. 1104 ..	DN .. 1504 ..
	Shim	AP305-DN11	AP304-DN1504
	Screw for shim Tightening torque	FS1462 (Torx 9IP) 1,5 Nm	FS1461 (Torx 15IP) 2,5 Nm
	Left clamp	PK261L	PK265L
	Right clamp	PK261R	PK265R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)

Accessories		DN .. 1104 ..	DN .. 1504 ..
	Left clamp set (standard assembly parts)	PK261L-SET	PK265L-SET
	Right clamp set (standard assembly parts)	PK261R-SET	PK265R-SET
	Shim for DN .. 1506 ..		AP304-DN15

Shank tool – Rigid clamping

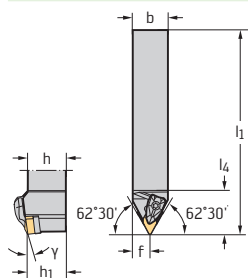
DDPN inch

Walter Turn



Tool

Designation	Inch	h = h ₁ Inch	b Inch	f Inch	l ₁ Inch	l ₄ Inch	γ	λ _s	Type
									DN ..
DDPNN124B	0,500	0,750	0,750	0,375	4,500	1,610	-5°	-9°	DN .. 1504 ..
DDPNN164D	0,500	1,000	1,000	0,500	6,000	1,610	-5°	-9°	
DDPNN204D	0,500	1,250	1,250	0,625	6,000	1,610	-5°	-9°	



Measured with master insert: DN .. 150408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	DN .. 1504 ..
Shim	AP304-DN1504
Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm
Clamp	PK241
Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
Pressure spring	FS1470
Pin	RS117
Torx key	FS1465 (Torx 15IP)

Accessories

Type	DN .. 1504 ..
Clamp set (standard assembly parts)	PK241-SET
Carbide clamp set Insert with drilled hole	PK245-SET
Carbide clamp set Insert without drilled hole	PK254-SET
Shim for DN .. 1504 ..	AP304-DN1504
Shim for DN .. 1507 ..	AP412-DN1507

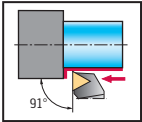
Shank tool – Rigid clamping

DTGN...-P inch

Walter Turn



– Precision cooling



Tool			$h = h_1$	b	b_1	f	l_1	l_4	γ	λ_s	Type
			Inch	Inch	Inch	Inch	Inch	Inch			
	Designation										
	DTGNR/L123B-P		0,375	0,750	0,750	0,000	1,000	4,500	1,516	-6°	-6°
	DTGNR/L163D-P		0,375	1,000	1,000	0,000	1,250	6,000	1,520	-6°	-6°

Measured with master insert: TN .. 160408
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 Ordering example, right-hand tool: DTGNR123B-P/ordering example, left-hand tool: DTGNL123B-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		
	Type	TN .. 1604 ..
	Shim	AP321-TN16
	Screw for shim Tightening torque	FS1462 (Torx 9IP) 1,5 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)

Accessories		
	Type	TN .. 1604 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

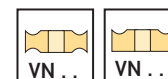
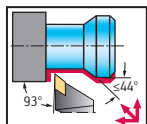
Shank tool – Rigid clamping

DVJN...-P

Walter Turn



– Precision cooling



Tool	Designation										
		h = h ₁ mm	b mm	b ₁ mm	f mm	l ₁ mm	l ₄ mm	γ	λ _s	Type	
	DVJNR/L2020X16-P	16	20	20	4	25	125	48,5	-4°	-13°	VN .. 1604 ..
	DVJNR/L2525X16-P	16	25	25	0	32	140	48	-4°	-13°	

Measured with master insert: VN .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

Ordering example, right-hand tool: DVJNR2020X16-P/ordering example, left-hand tool: DVJNL2020X16-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	Type	VN .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)

Accessories

	Type	VN .. 1604 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

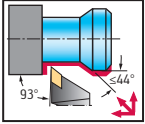
Shank tool – Rigid clamping

DVJN...-P inch

Walter Turn



– Precision cooling



Tool	Designation	$\frac{.in.}{.}$	$h = h_1$ Inch	b Inch	b_1 Inch	f Inch	l_1 Inch	l_4 Inch	γ	λ_s	Type
	DVJNR/L123B-P	0,375	0,750	0,750	0,157	1,000	4,496	1,906	-4°	-13°	VN .. 1604 ..
	DVJNR/L163D-P	0,375	1,000	1,000	0,000	1,250	5,996	1,906	-4°	-13°	

Measured with master insert: VN .. 160408
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: DVJNR123B-P/ordering example, left-hand tool: DVJNL123B-P
 Bodies and assembly parts are included in the scope of delivery.

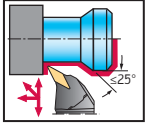
Assembly parts	Type	VN .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)

Accessories	Type	VN .. 1604 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

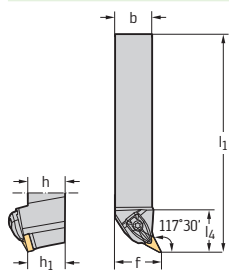
Shank tool – Rigid clamping

DVTN inch

Walter Turn



Tool



Designation	in	$h = h_1$ Inch	b Inch	f Inch	l_1 Inch	l_4 Inch	γ	λ_s	Type
DVTNR/L123B	0,375	0,750	0,750	1,000	4,500	1,543	-4°	-13°	VN .. 1604 ..
DVTNR/L163D	0,375	1,000	1,000	1,250	6,000	1,544	-4°	-13°	
DVTNR/L203D	0,375	1,250	1,250	1,500	6,000	1,544	-4°	-13°	

Measured with master insert: VN .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

Ordering example, right-hand tool: DVTNR123B/ordering example, left-hand tool: DVTNL123B

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	VN .. 1604 ..
Shim	AP312-VN16
Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
Clamp	PK244
Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
Pressure spring	FS1470
Pin	RS117
Torx key	FS1465 (Torx 15IP)

Accessories

Type	VN .. 1604 ..
Clamp set (standard assembly parts)	PK244-SET

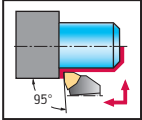
Shank tool – Rigid clamping

DWLN...-P

Walter Turn



– Precision cooling



Tool	Designation		h = h ₁ mm	b mm	b ₁ mm	f mm	l ₁ mm	l ₄ mm	γ	λ _s	Type	
	DWLNLR/L2020X08-P		8	20	20	0	25	120,0	43,5	-7°	-6°	WN .. 0804 ..
	DWLNLR/L2525X08-P		8	25	25	0	32	135,0	43,5	-7°	-6°	

Measured with master insert: WN .. 080408
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: DWLNLR2020X08-P/ordering example, left-hand tool: DWLNL2020X08-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	WN .. 0804 ..
	Shim	AP307-WN08
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm
	Left clamp	PK266L
	Right clamp	PK266R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)

Accessories	Type	WN .. 0804 ..
	Left clamp set (standard assembly parts)	PK266L-SET
	Right clamp set (standard assembly parts)	PK266R-SET

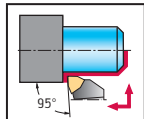
Shank tool – Rigid clamping

DWLN...-P inch

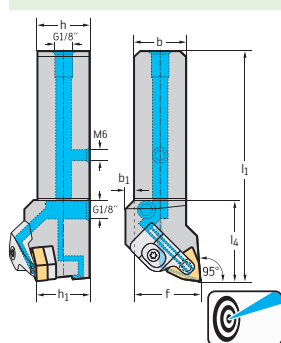
Walter Turn



– Precision cooling



Tool



Designation		h = h ₁ Inch	b Inch	b ₁ Inch	f Inch	l ₁ Inch	l ₄ Inch	γ	λ _s	Type	
DWLNLR/L124B-P		0,500	0,750	0,750	0,000	1,000	4,500	1,713	-6°	-6°	WN .. 0804 ..
DWLNLR/L164D-P		0,500	1,000	1,000	0,000	1,250	6,000	1,713	-7°	-6°	

Measured with master insert: WN .. 080408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

Ordering example, right-hand tool: DWLNLR124B-P/ordering example, left-hand tool: DWLNL124B-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	WN .. 0804 ..
Shim	AP307-WN08
Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm
Left clamp	PK266L
Right clamp	PK266R
Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
Pressure spring	FS2188
G 1/8" threaded plug	FS2258 (SW 5)
M6 threaded plug	FS2288 (SW 3)
Torx key	FS1465 (Torx 15IP)

Accessories

Type	WN .. 0804 ..
Left clamp set (standard assembly parts)	PK266L-SET
Right clamp set (standard assembly parts)	PK266R-SET

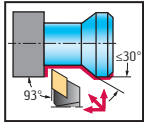
Shank tool – Rigid clamping

DDJC...-P

Walter Turn



– Precision cooling



Tool			$h = h_1$ mm	b mm	b_1 mm	f mm	l_1 mm	l_4 mm	γ	λ_s	Type	
	Designation											
	DDJCR/L2020X11-P		11	20	20	6	25	125	48,5	-3°	-7°	DC .. 11T3 ..
DDJCR/L2525X11-P		11	25	25	0	32	140	48,5	-3°	-7°		

Measured with master insert: DC .. 11T308
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: DDJCR2020X11-P/ordering example, left-hand tool: DDJCL2020X11-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type	DC .. 11T3 ..
	Shim for radius		AP315-DC1108 $r \leq 0,8$ mm
	Screw for shim		FS2068 (SW 3,5)
	Left clamp		PK261L
	Right clamp		PK261R
	Screw for clamp Tightening torque		FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring		FS2188
	G 1/8" threaded plug		FS2258 (SW 5)
	M6 threaded plug		FS2288 (SW 3)
	Torx key		FS1465 (Torx 15IP)

Accessories		Type	DC .. 11T3 ..
	Left clamp set (standard assembly parts)		PK261L-SET
	Right clamp set (standard assembly parts)		PK261R-SET

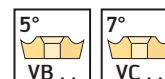
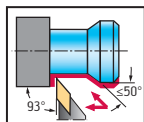
Shank tool – Rigid clamping

DVJB...-P

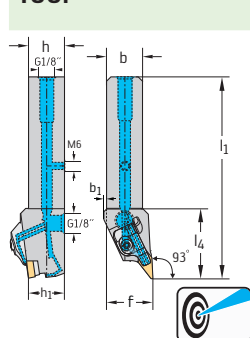
Walter Turn



– Precision cooling



Tool



Designation

Designation	h = h ₁ mm	b mm	b ₁ mm	f mm	l ₁ mm	l ₄ mm	γ	λ _s	Type
DVJBR/L2020X16-P	16	20	20	4	25	125	-2°	-7°	VB .. 1604 ..
DVJBR/L2525X16-P	16	25	25	0	32	140	-2°	-7°	VC .. 1604 ..

Measured with master insert: VB .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: DVJBR2020X16-P/ordering example, left-hand tool: DVJBL2020X16-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	Type	VB .. 1604 .. VC .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP)

Accessories

	Type	VB .. 1604 .. VC .. 1604 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

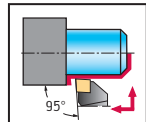
Turning toolholders – Rigid clamping

C...-DCLN...-P

Walter Turn



- Precision cooling
- Walter Capto™



Tool	Designation		d ₁	f mm	l ₄ mm	γ	λ _s	Type	
Walter Capto™ in accordance with ISO 26623	C4-DCLNR/L-27050-12-P		12	C4	27	50	-6°	-6°	CN .. 1204 ..
	C5-DCLNR/L-35060-12-P		12	C5	35	60	-6°	-6°	
	C6-DCLNR/L-45065-12-P		12	C6	45	65	-6°	-6°	
	C8-DCLNR/L-55080-12-P		12	C8	55	80	-6°	-6°	
 	* C5-DCLNR/L-35060-16-P		16	C5	35	60	-6°	-6°	CN .. 1606 ..
	* C6-DCLNR/L-45065-16-P		16	C6	45	65	-6°	-6°	
	* C8-DCLNR/L-55080-16-P		16	C8	55	80	-6°	-6°	

Measured with master insert: CN .. 120408 / CN .. 160612

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: C4-DCLNR-27050-12-P/ordering example, left-hand tool: C4-DCLNL-27050-12-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	CN .. 1204 ..	CN .. 1606 ..
	Shim	AP301-CN12	AP302-CN16
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm	FS1463 (Torx 20IP) 5,0 Nm
	Clamp	PK255	PK267
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1474 (Torx 20IP) 6,4 Nm
	Pressure spring	FS2188	FS2298
	Torx key	FS1465 (Torx 15IP)	FS1464 (Torx 20IP)

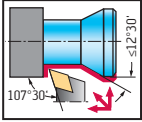
Accessories	Type	CN .. 1204 ..	CN .. 1606 ..
	Clamp set (standard assembly parts)	PK255-SET	PK267-SET

Turning toolholders – Rigid clamping

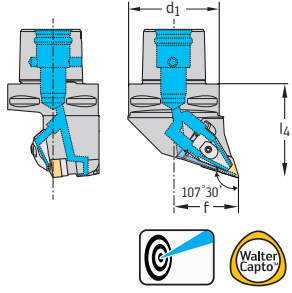
C...-DDHN...-P

Walter Turn

- Precision cooling
- Walter Capto™



Tool	Designation		d ₁	f mm	l ₄ mm	γ	λ _s	Type
Walter Capto™ in accordance with ISO 26623	C6-DDHNR/L-45065-15-P	15	C6	45	65	-6°	7°	DN .. 1506 ..



Measured with master insert: DN .. 150608
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: C6-DDHNR-45065-15-P/ordering example, left-hand tool: C6-DDHNL-45065-15-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	DN .. 1506 ..
	Shim	AP304-DN15
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm
	Clamp	PK256
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	Torx key	FS1465 (Torx 15IP)

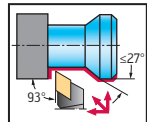
Accessories	Type	DN .. 1506 ..
	Clamp set (standard assembly parts)	PK256-SET
	Shim for DN .. 1504 ..	AP304-DN1504

Turning toolholders – Rigid clamping

C...-DDJN...-P

Walter Turn

- Precision cooling
- Walter Capto™



Tool	Designation		d ₁	f mm	l ₄ mm	γ	λ _s	Type
Walter Capto™ in accordance with ISO 26623 	C4-DDJNR/L-27055-11-P	11	C4	27	55	-6°	-7°	DN .. 1104 ..
	C4-DDJNR/L-27055-15-P	15	C4	27	55	-6°	-7°	DN .. 1506 ..
	C5-DDJNR/L-35060-15-P	15	C5	35	60	-6°	-7°	
	C6-DDJNR/L-45065-15-P	15	C6	45	65	-6°	-7°	
	C8-DDJNR/L-55080-15-P	15	C8	55	80	-6°	-7°	

Measured with master insert: DN .. 110408 / DN .. 150608

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: C4-DDJNR-27055-11-P/ordering example, left-hand tool: C4-DDJNL-27055-11-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	DN .. 1104 ..	DN .. 1506 ..
	Shim	AP305-DN11	AP304-DN15
	Screw for shim Tightening torque	FS1462 (Torx 9IP) 1,5 Nm	FS1461 (Torx 15IP) 2,5 Nm
	Clamp	PK255	PK256
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188	FS2188
	Torx key	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)

Accessories	Type	DN .. 1104 ..	DN .. 1506 ..
	Clamp set (standard assembly parts)	PK255-SET	PK256-SET
	Shim for DN .. 1504 ..		AP304-DN1504

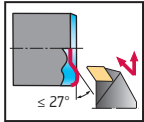
Turning toolholders – Rigid clamping

C...-DDUN...-P

Walter Turn



- Precision cooling
- Walter Capto™



Tool	Designation		d_1	f mm	l_4 mm	γ	λ_s	Type
Walter Capto™ in accordance with ISO 26623	C6-DDUNR/L-45065-15-P	15	C6	45	65	-7°	-6°	DN .. 1506 ..

Measured with master insert: DN .. 150608

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: C6-DDUNR-45065-15-P/ordering example, left-hand tool: C6-DDUNL-45065-15-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	DN .. 1506 ..
	Shim	AP304-DN15
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 2,5 Nm
	Clamp	PK256
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	Torx key	FS1465 (Torx 15IP)

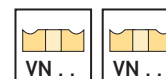
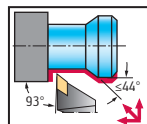
Accessories	Type	DN .. 1506 ..
	Clamp set (standard assembly parts)	PK256-SET
	Shim for DN .. 1504 ..	AP304-DN1504

Turning toolholders – Rigid clamping

C...-DVJN...-P

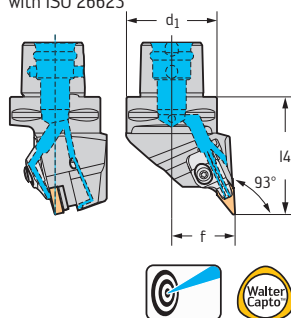
Walter Turn

- Precision cooling
- Walter Capto™



Tool

Walter Capto™ in accordance with ISO 26623



Designation

 d_1 f
mm l_4
mm γ λ_s

Type

★ C4-DVJNR/L-27062-16-P

16

C4

27

62

-4°

-13°

VN .. 1604 ..

★ C5-DVJNR/L-35065-16-P

16

C5

35

65

-4°

-13°

★ C6-DVJNR/L-45065-16-P

16

C6

45

65

-4°

-13°

Measured with master insert: VN .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: C4-DVJNR-27062-16-P/ordering example, left-hand tool: C4-DVJNL-27062-16-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	Type	VN .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	Torx key	FS1465 (Torx 15IP)

Accessories

	Type	VN .. 1604 ..
	Left clamp set	PK261L-SET
	Right clamp set	PK261R-SET

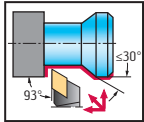
/ ★ New addition to the product range

Turning toolholders – Rigid clamping

C...-DDJC...-P

Walter Turn

- Precision cooling
- Walter Capto™



Tool	Designation		d ₁	f mm	l ₄ mm	γ	λ _s	Type
Walter Capto™ in accordance with ISO 26623	★ C4-DDJCR/L-27050-11-P	11	C4	27	50	-3°	-7°	DC .. 11T3 ..
	★ C5-DDJCR/L-35060-11-P	11	C5	35	60	-3°	-7°	

Measured with master insert: DC .. 11T308
 For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: C4-DDJCR-27050-11-P/ordering example, left-hand tool: C4-DDJCL-27050-11-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	DC .. 11T3 ..
	Shim for radius	AP315-DC1108 r ≤ 0,8 mm
	Screw for shim	FS2068 (SW 3,5)
	Left clamp	PK261L
	Right clamp	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	Torx key	FS1465 (Torx 15IP)

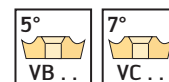
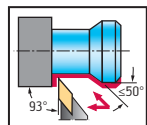
Accessories	Type	DC .. 11T3 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

Turning toolholders – Rigid clamping

C...-DVJB...-P

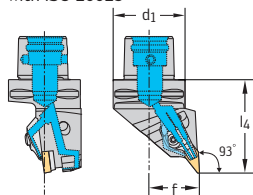
Walter Turn

- Precision cooling
- Walter Capto™



Tool

Walter Capto™ in accordance with ISO 26623



Designation		d_1	f mm	l_4 mm	γ	λ_s	Type	
C4-DVJBR/L-27062-16-P		16	C4	27	62	-2°	-7°	VB .. 1604 .. VC .. 1604 ..
C5-DVJBR/L-35065-16-P		16	C5	35	65	-2°	-7°	
C6-DVJBR/L-45065-16-P		16	C6	45	65	-2°	-7°	
C8-DVJBR/L-55080-16-P		16	C8	55	65	-2°	-7°	

Measured with master insert: VB .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: C4-DVJBR-27062-16-P/ordering example, left-hand tool: C4-DVJBL-27062-16-P

Bodies and assembly parts are included in the scope of delivery.

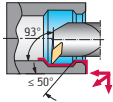
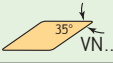

Assembly parts

	Type	VB .. 1604 .. VC .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS2188
	Torx key	FS1465 (Torx 15IP)

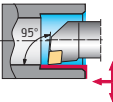
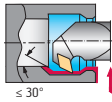
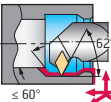
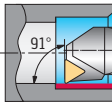
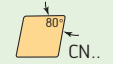
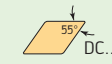
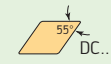






Accessories

	Type	VB .. 1604 .. VC .. 1604 ..
	Left clamp set (standard assembly parts)	PK261L-SET
	Right clamp set (standard assembly parts)	PK261R-SET

Walter Turn turning tools product range overview – Internal machining Boring bars – Negative basic shape

Machining	
Type	
Designation	A...-DVUN
Approach angle κ	93°
Clamping system	Clamp
Coolant supply	Internal
Boring bar diameter d ₁ [mm]	
Boring bar diameter d ₁ [inch]	1.250–1.500
Page	89
	

Walter Turn turning tools product range overview – Internal machining Boring bars – Positive basic shape

Machining					
Type					
Designation	A...-SCLP / E...-SCLP	A...-SDUC...-X	A...-SDXC...-X	A...-STFC / E...-STFC	A2140-W
Approach angle κ	95°	93°	62,5°	91°	
Clamping system	Screw	Screw	Screw	Screw	
Coolant supply	Internal	Internal	Internal	Internal	Axial
Boring bar diameter d ₁ [mm]			25		25–40
Boring bar diameter d ₁ [inch]	0.313–1.000	1.000–1.250		0.313–1.500	
Page	90	91	92	93	94
					

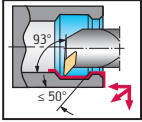
Boring bar – Rigid clamping

A...-DVUN inch

Walter Turn



– A = Steel version with internal coolant



Tool	Designation	in	D _{min} Inch	d ₁ Inch	f Inch	h Inch	l ₁ Inch	γ	λ _s	Type
	A20T-DVUNR/L3	0,375	1,705	1,250	1,000	1,181	12,000	-6°	-9°	VN .. 1604 ..
	A24T-DVUNR/L3	0,375	2,000	1,500	1,125	1,374	12,000	-6°	-8°	

Measured with master insert: VN .. 160408

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

Ordering example, right-hand tool: A20T-DVUNR3/ordering example, left-hand tool: A20T-DVUNL3

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	VN .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3,0 Nm
	Clamp	PK244
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3,9 Nm
	Pressure spring	FS1470
	Pin	RS117
	Torx key	FS1465 (Torx 15IP)

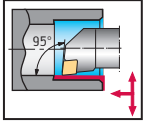
Accessories	Type	VN .. 1604 ..
	Clamp set (standard assembly parts)	PK244-SET

Boring bar – Screw clamping

A...-SCLP / E...-SCLP inch

Walter Turn

- A = Steel version with internal coolant
- E = Solid carbide version with internal coolant



Tool	Designation		D_{min} Inch	d_1 Inch	f Inch	h Inch	l_1 Inch	γ	λ_s	Type
	A05K-SCLPR/L2	0,250	0,413	0,313	0,219	0,272	5,000	0°	-9°	CP .. 0602 ..
	A06M-SCLPR/L2	0,250	0,480	0,375	0,250	0,336	6,000	4°	-6,5°	
	A08M-SCLPR/L2	0,250	0,598	0,500	0,312	0,460	6,000	6°	-2,6°	
	A10R-SCLPR/L2	0,250	0,772	0,625	0,406	0,562	8,000	0°	5°	CP .. 09T3 ..
	A12S-SCLPR/L3	0,375	0,929	0,750	0,500	0,709	10,000	0°	-6,3°	
	A16T-SCLPR/L3	0,375	1,201	1,000	0,639	0,906	14,173	6°	1°	
	E06M-SCLPR/L2	0,250	0,480	0,375	0,250	0,359	6,000	4°	-7°	CP .. 0602 ..
	E08R-SCLPR/L2	0,250	0,598	0,500	0,312	0,484	8,000	6°	-3°	

Measured with master insert: CP.. 060204 / CP .. 09T304

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

Ordering example, right-hand tool: A05K-SCLPR2/ordering example, left-hand tool: A05K-SCLPL2

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type D_{min} [Inch]	CP .. 0602 .. 0,413	CP .. 0602 .. 0,480–0,598	CP .. 0602 .. 0,772	CP .. 09T3 .. 0,929	CP .. 09T3 .. 1,201
	Clamping screw for insert Tightening torque	FS2187 (Torx 7IP) 0,9 Nm	FS2066 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS2062 (Torx 15IP) 3,0 Nm	FS2063 (Torx 15IP) 3,0 Nm
	Torx key	FS1490 (Torx 7IP)	FS1490 (Torx 7IP)	FS1490 (Torx 7IP)	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)

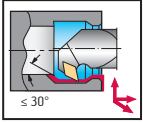
Boring bar – Screw clamping

A...-SDUC...-X inch

Walter Turn



- A = Steel version with internal coolant
- Reverse copy boring bar



Tool			D_{min}	d_1	f	h	l_1	l_{20}	γ	λ_s	Type
Designation			Inch	Inch	Inch	Inch	Inch	Inch	°	°	
	A16T-SDUCR/L2-X	0,250	1,299	1,000	0,750	0,906	12,000	12,480	0°	-0,9°	DC .. 0702 ..
	A20T-SDUCR/L3-X	0,375	1,579	1,250	0,875	1,181	12,000	12,610	0°	-7,5°	DC .. 11T3 ..

Measured with master insert: DC .. 070204 / DC .. 11T308

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s , see "Technical information – ISO turning"

Ordering example, right-hand tool: A16T-SDUCR2-X/ordering example, left-hand tool: A16T-SDUCL2-X

Bodies and assembly parts are included in the scope of delivery.

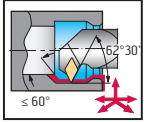
Assembly parts		DC .. 0702 ..	DC .. 11T3 ..
	Clamping screw for insert Tightening torque	FS2061 (Torx 7IP) 0,9 Nm	FS2062 (Torx 15IP) 3,0 Nm
	Torx key	FS1490 (Torx 7IP)	FS1465 (Torx 15IP)

Boring bar – Screw clamping

A...-SDXC...-X

Walter Turn

- A = Steel version with internal coolant
- Forwards/reverse copy boring bar



Tool	Designation		D _{min} mm	d ₁ mm	f mm	h mm	l ₁ mm	l ₂₀ mm	γ	λ _s	Type	
	A25T-SDXCR/L11-X		11	32	25	17	23	300	306	-2°	-3°	DC .. 11T3 ..

Measured with master insert: DC .. 11T308

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

Ordering example, right-hand tool: A25T-SDXCR11-X/ordering example, left-hand tool: A25T-SDXCL11-X

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	DC .. 11T3 ..
	Clamping screw for insert Tightening torque	FS2062 (Torx 15IP) 3,0 Nm
	Torx key	FS1465 (Torx 15IP)

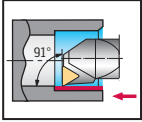
Boring bar – Screw clamping

A...-STFC / E...-STFC inch

Walter Turn



- A = Steel version with internal coolant
- E = Solid carbide version with internal coolant



Tool	Designation		D _{min} Inch	d ₁ Inch	f Inch	h Inch	l ₁ Inch	γ	λ _s	Type	
	A06M-STFCR/L2		0,250	0,500	0,375	0,250	0,336	6,000	0°	-10,1°	TC .. 1102 ..
	A08M-STFCR/L2		0,250	0,598	0,500	0,312	0,460	6,000	0°	-7,2°	
	A10R-STFCR/L2		0,250	0,772	0,625	0,406	0,562	8,000	0°	-4,7°	
	A12S-STFCR/L2		0,250	0,929	0,750	0,500	0,709	10,000	0°	-3,2°	
	A16T-STFCR/L3		0,375	1,201	1,000	0,640	0,906	12,000	0°	-3,8°	TC .. 16T3 ..
	A20T-STFCR/L3		0,375	1,469	1,250	0,765	1,181	12,000	0°	-8,7°	
A24T-STFCR/L3		0,375	1,760	1,500	0,890	1,374	12,000	0°	-6,8°		
	E06M-STFCR/L1.8		0,219	0,500	0,375	0,264	0,359	6,000	0°	-9,5°	TC .. 0902 ..
	E08R-STFCR/L1.8		0,219	0,630	0,500	0,349	0,460	8,000	0°	-7°	
	E10R-STFCR/L2		0,250	0,772	0,625	0,406	0,609	8,000	0°	-6°	TC .. 1102 ..
	E12S-STFCR/L2		0,250	0,929	0,750	0,500	0,734	10,000	0°	-4°	
	E16T-STFCR/L3		0,375	1,201	1,000	0,640	0,984	12,000	0°	-4°	TC .. 16T3 ..

Measured with master insert: TC .. 110204 / TC .. 16T308 / TC .. 090204 / TC .. 110200

For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – ISO turning"

Ordering example, right-hand tool: A06M-STFCR2/ordering example, left-hand tool: A06M-STFCL2

Bodies and assembly parts are included in the scope of delivery.

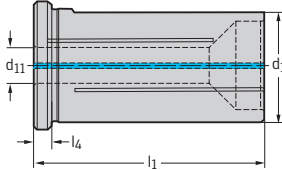
Assembly parts	Type	TC .. 0902 ..	TC .. 1102 ..	TC .. 1102 ..	TC .. 16T3 ..	TC .. 16T3 ..
	D _{min} [Inch]	0,500–0,630	0,500–0,598	0,772–0,929	1,201	1,469–1,760
	Clamping screw for insert Tightening torque	FS2149 (Torx 7IP) 0,9 Nm	FS2067 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS2063 (Torx 15IP) 3,0 Nm	FS2060 (Torx 15IP) 3,0 Nm
	Torx key	FS1490 (Torx 7IP)	FS1490 (Torx 7IP)	FS1490 (Torx 7IP)	FS1465 (Torx 15IP)	FS1465 (Torx 15IP)
	Shim for radius					AP317-TC1612 r ≤ 1,2 mm
	Clamping screw for shim					FS2068 (SW 3,5)

Boring bar adaptor

A2140-W

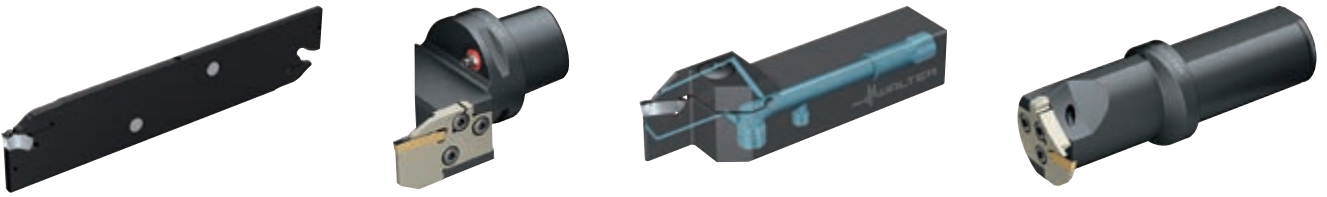


- With Weldon shank in accordance with DIN 9766
- Self-centring for cylindrical round shank

Tool	Designation	d ₁ mm	d ₁₁ mm	l ₁ mm	l ₄ mm	kg
Parallel shank with surface in accordance with ISO 9766 	A2140-W25-R06-061	25	6	61	5	0,2
	A2140-W25-R08-061	25	8	61	5	0,2
	A2140-W25-R10-061	25	10	61	5	0,2
	A2140-W25-R12-061	25	12	61	5	0,2
	A2140-W25-R16-061	25	16	61	5	0,1
	A2140-W32-R06-065	32	6	65	5	0,3
	A2140-W32-R08-065	32	8	65	5	0,3
	A2140-W32-R10-065	32	10	65	5	0,3
	A2140-W32-R12-065	32	12	65	5	0,3
	A2140-W32-R16-065	32	16	65	5	0,3
	A2140-W32-R20-065	32	20	65	5	0,2
	A2140-W40-R06-075	40	6	75	5	0,6
	A2140-W40-R08-075	40	8	75	5	0,6
	A2140-W40-R10-075	40	10	75	5	0,6
	A2140-W40-R12-075	40	12	75	5	0,6
	A2140-W40-R16-075	40	16	75	5	0,6
	A2140-W40-R20-075	40	20	75	5	0,6
	A2140-W40-R25-075	40	25	75	5	0,5

Comment: Groove for self-centring is present on all Walter Turn boring bars with fully rounded shank (-R) dia. 6–25 mm.

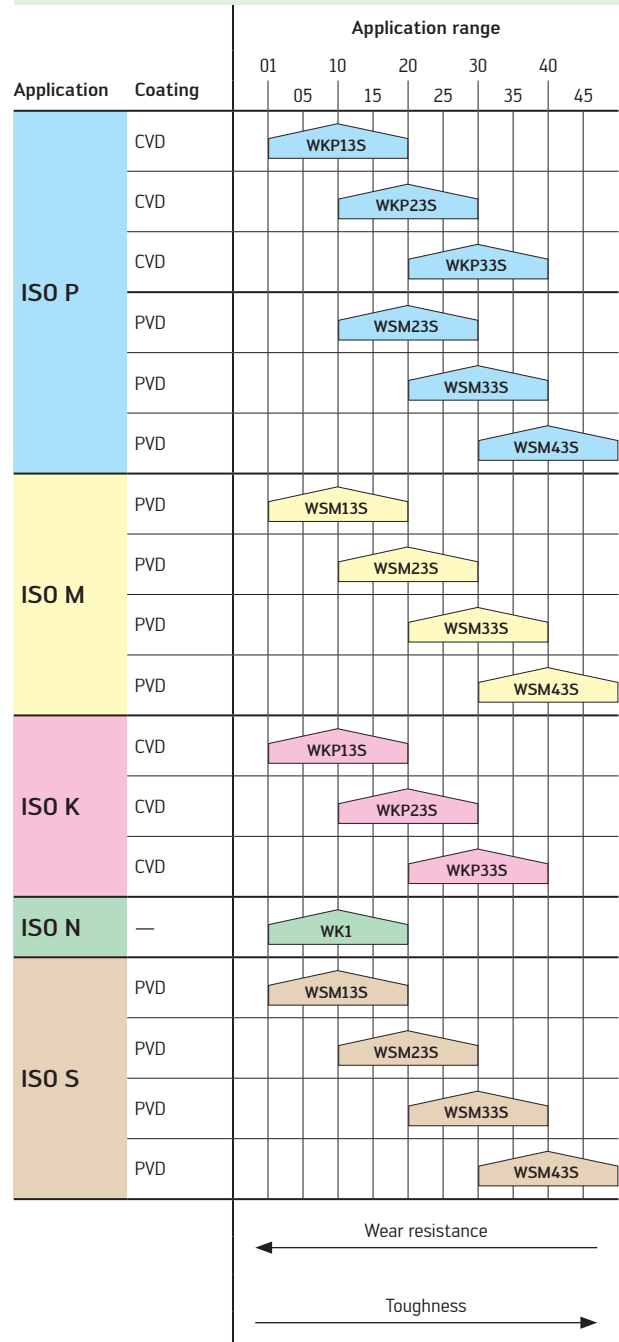
Product range overview of cutting inserts and cutting tool materials: Grooving



Cutting inserts

Insert shape	Description	Page
Parting off/grooving		
GX	Walter Cut GX grooving inserts, double-edged/ single-edged	96
SX	Walter Cut SX grooving inserts, single-edged	102
MX	Walter Cut MX grooving inserts, four-edged	104
Recessing		
GX	Walter Cut GX grooving inserts, double-edged	99
Semi-finished parts/ blanks		
MX	Walter Cut MX grooving inserts, four-edged	107

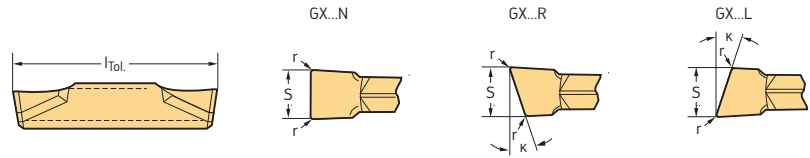
Cutting tool materials: Carbide





A2

Grooving and parting off GX cutting inserts Tiger-tec® Silver

A2



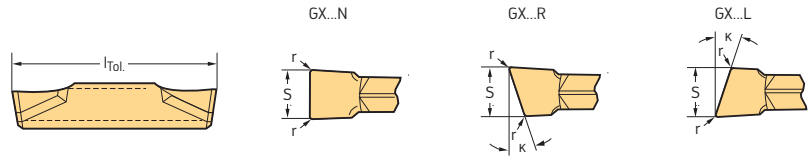
Cutting inserts

Designation	s mm	r mm	κ	l mm	f mm	S _{Tol} mm	l _{Tol} mm	P				M			K	N	S		
								HC				HC			HC	HW	HC		
								WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WK1	WSM23S	WSM33S	WSM43S
 GX16-1E200N02-CK8	2	0,2		16,6	0,04–0,12	±0,02	±0,03								☺				
GX16-2E300N02-CK8	3	0,2		16,6	0,08–0,20	±0,02	±0,03								☺				
GX24-2E300N02-CK8	3	0,2		24,6	0,08–0,20	±0,02	±0,03								☺				
GX24-3E400N02-CK8	4	0,2		24,6	0,10–0,22	±0,02	±0,03								☺				
 GX16-1E200N00-CF5	2	0		16,6	0,03–0,10	±0,02	±0,05		☺	☺	☺	☺	☺				☺	☺	
GX16-1E200N02-CF5	2	0,2		16,6	0,04–0,12	±0,05	±0,15		☺	☺	☺	☺	☺				☺	☺	
GX16-1E200R/L6-CF5	2	0,2	6°	16,6	0,03–0,10	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX16-1E200R/L7-CF5	2	0	7°	16,4	0,03–0,10	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX16-1E200R/L15-CF5	2	0	15°	16,4	0,03–0,10	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX16-1E250N02-CF5	2,5	0,2		16,6	0,05–0,15	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX16-1E250R/L6-CF5	2,5	0,2	6°	16,6	0,03–0,12	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX16-2E300N02-CF5	3	0,2		16,6	0,08–0,20	±0,05	±0,15		☺	☺	☺	☺	☺				☺	☺	
GX16-2E300R/L6-CF5	3	0,2	6°	16,6	0,04–0,16	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX16-2E300R/L7-CF5	3	0	7°	16,6	0,04–0,13	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX16-2E300R/L15-CF5	3	0	15°	16,6	0,04–0,13	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX24-1E200N02-CF5	2	0,2		24	0,04–0,12	±0,05	±0,15		☺	☺	☺	☺	☺				☺	☺	
GX24-1E250N02-CF5	2,5	0,2		24	0,05–0,15	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX24-2E300N00-CF5	3	0		24,6	0,04–0,16	±0,02	±0,05			☺	☺	☺	☺				☺	☺	
GX24-2E300N02-CF5	3	0,2		24	0,08–0,20	±0,05	±0,15		☺	☺	☺	☺	☺				☺	☺	
GX24-2E300R/L6-CF5	3	0,2	6°	24,6	0,04–0,16	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX24-3E400N02-CF5	4	0,2		24	0,10–0,22	±0,05	±0,15		☺	☺	☺	☺	☺				☺	☺	
GX24-3E400R/L6-CF5	4	0,2	6°	24,6	0,10–0,18	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX24-3E500N03-CF5	5	0,3		24	0,10–0,25	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX34-2E300N03-CF5	3	0,3		34	0,08–0,20	±0,05	±0,15		☺	☺	☺	☺	☺				☺	☺	
GX34-2E300R/L6-CF5	3	0,3	6°	34	0,04–0,16	±0,05	±0,15			☺	☺	☺	☺				☺	☺	
GX34-3E400N04-CF5	4	0,4		34	0,10–0,22	±0,05	±0,15		☺	☺	☺	☺	☺				☺	☺	

l_{Tol} = Repeat accuracy when changing indexable insert
 Radius tolerance r_{Tol} = ±0.05 mm
 Parting off with diameters up to 32 mm is possible with GX16 inserts (l = 16.6 mm)

HC = Coated carbide
 HW = Uncoated carbide

Grooving and parting off GX cutting inserts Tiger-tec® Silver

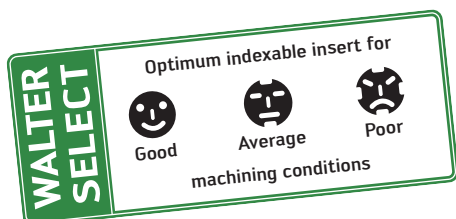


Cutting inserts

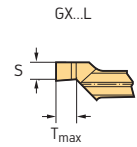
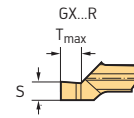
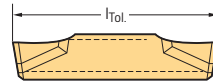
Designation	s mm	r mm	κ	l mm	f mm	S _{Tol} mm	l _{Tol} mm	P			M			K	N	S		
								HC			HC			HC	HW	HC		
								WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WK1	WSM23S	WSM33S
GX16-1E200N02-CE4	2	0,2		16,6	0,06-0,15	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-1E200R/L6-CE4	2	0,2	6°	16,6	0,04-0,10	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-1E250N02-CE4	2,5	0,2		16,6	0,07-0,18	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-1E250R/L6-CE4	2,5	0,2	6°	16,6	0,05-0,12	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-2E300N02-CE4	3	0,2		16,6	0,09-0,30	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-2E300R/L6-CE4	3	0,2	6°	16,6	0,09-0,24	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-1E200N02-CE4	2	0,2		24	0,06-0,15	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-1E250N02-CE4	2,5	0,2		24	0,07-0,18	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-2E300N02-CE4	3	0,2		24	0,09-0,30	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-2E300R/L6-CE4	3	0,2	6°	24,6	0,09-0,24	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-3E400N03-CE4	4	0,3		24	0,10-0,32	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-3E400R/L6-CE4	4	0,2	6°	24,6	0,10-0,26	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-3E500N03-CE4	5	0,3		24	0,12-0,35	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-4E600N03-CE4	6	0,3		24	0,12-0,40	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX34-2E300R6-CE4	3	0,3	6°	34	0,09-0,24	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX34-2E300N03-CE4	3	0,3		34	0,09-0,30	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX34-2E300L6-CE4	3	0,3	6°	34	0,09-0,24	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX34-3E400N04-CE4	4	0,4		34	0,10-0,32	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-1E200N02-GD6	2	0,2		16	0,04-0,12	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-1E250N02-GD6	2,5	0,2		16	0,06-0,17	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-2E300N03-GD6	3	0,3		16	0,08-0,18	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-3E400N04-GD6	4	0,4		16	0,10-0,22	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX16-3E500N04-GD6	5	0,4		16	0,12-0,24	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-2E300N03-GD6	3	0,3		24	0,08-0,18	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-3E400N04-GD6	4	0,4		24	0,10-0,22	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-3E500N04-GD6	5	0,4		24	0,12-0,24	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX24-4E600N05-GD6	6	0,5		24	0,14-0,30	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX34-2E300N03-GD6	3	0,3		34	0,08-0,20	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
GX34-3E400N04-GD6	4	0,4		34	0,10-0,22	±0,05	±0,15	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

l_{Tol} = Repeat accuracy when changing indexable insert
 Radius tolerance r_{Tol} = ±0.05 mm
 Parting off with diameters up to 32 mm is possible with GX16 inserts (l = 16.6 mm)

HC = Coated carbide
 HW = Uncoated carbide




Grooving and parting off GX cutting inserts Tiger-tec® Silver



A2

Cutting inserts

Designation	s mm	r mm	T _{max} mm	l mm	f mm	S _{Tol} mm	l _{Tol} mm	P				M		K	S			
								HC				HC		HC	HC		HC	
								WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S	WSM33S	WSM43S
 GX09-1E100R/L00-GD8	1	0	1,14	9	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX09-1E120R/L00-GD8	1,2	0	1,34	9	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX09-1E140R/L00-GD8	1,4	0	1,53	9	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX16-2E100R/L00-GD8	1	0	1,14	16	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX16-2E120R/L00-GD8	1,2	0	1,34	16	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX16-2E140R/L00-GD8	1,4	0	1,53	16	0,05-0,10	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

 l_{Tol} = Repeat accuracy when changing indexable insert

 Radius tolerance r_{Tol} = ±0.05 mm

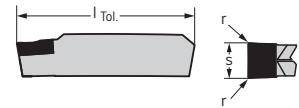
Cutting insert can be used in G15... / NCCE / NCNE / NCCI tools

With other tools, adapt support to the cutting insert profile


Further cutting inserts for circlip grooves: GX...UF8 / MX22...GD8 / MX22...CF5

HC = Coated carbide

PCD – Grooving and parting off GX cutting inserts



Cutting inserts

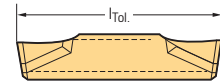
Designation	s mm	r mm	l mm	f mm	S _{Tol} mm	l _{Tol} mm	P			M	N	K	S	
							HC			HC	DP	HC	HC	DP
							WKP23S	WSM33S	WSM43S	WSM33S	WSM43S	WDN10	WKP23S	WSM33S
 GX16-1F200N02FS-F1	2	0,2	16	0,04-0,12	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX24-2F300N02FS-F1	3	0,2	24	0,05-0,16	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX24-2F318N02FS-F1	3,18	0,2	24	0,05-0,16	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX24-3F400N02FS-F1	4	0,2	24	0,06-0,22	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX24-3F475N02FS-F1	4,75	0,2	24	0,06-0,25	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX24-3F500N02FS-F1	5	0,2	24	0,06-0,25	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
GX24-4F600N02FS-F1	6	0,2	24	0,06-0,28	±0,02	±0,02	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

 l_{Tol} = Repeat accuracy when changing indexable insert

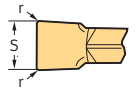
HC = Coated carbide

DP = Polycrystalline diamond

Grooving and recessing GX cutting inserts Tiger-tec® Silver



GX..N



Cutting inserts

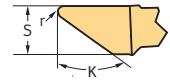
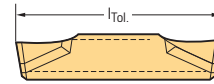
Designation	s mm	r mm	l mm	f mm	a _p mm	S _{Tol} mm	l _{Tol} mm	P			M			K	S		
								HC			HC			HC	HC		
								WKP23S	WSM23S	WSM33S	WSM43S	WSP23S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S
GX09-0E170N01-UF8	1,7	0,1	9	0,05-0,15	0,3-0,8	±0,02	±0,03	☉	☉		☉			☉			
GX09-0E196N01-UF8	1,96	0,1	9	0,05-0,15	0,3-0,8	±0,02	±0,03	☉	☉		☉			☉			
GX09-1E225N01-UF8	2,25	0,1	9	0,05-0,20	0,3-1,0	±0,02	±0,03	☉	☉		☉			☉			
GX09-1E275N01-UF8	2,75	0,1	9	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉		☉			☉			
GX09-2E325N01-UF8	3,25	0,1	9	0,07-0,24	0,4-1,5	±0,02	±0,03	☉	☉		☉			☉			
GX16-0E160N01-UF8	1,6	0,1	16	0,05-0,17	0,3-1,0	±0,02	±0,03	☉	☉		☉			☉			
GX16-0E170N01-UF8	1,7	0,1	16	0,05-0,17	0,3-1,0	±0,02	±0,03	☉	☉		☉			☉			
GX16-0E185N01-UF8	1,85	0,1	16	0,05-0,22	0,3-1,0	±0,02	±0,03	☉	☉		☉			☉			
GX16-0E196N01-UF8	1,96	0,1	16	0,05-0,22	0,3-1,2	±0,02	±0,03	☉	☉		☉			☉			
GX16-1E200N02-UF8	2	0,2	16	0,05-0,22	0,3-1,2	±0,02	±0,03	☉	☉		☉			☉			
GX16-1E225N01-UF8	2,25	0,1	16	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉		☉			☉			
GX16-1E239N02-UF8	2,39	0,2	16	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉		☉			☉			
GX16-1E275N01-UF8	2,75	0,1	16	0,06-0,22	0,3-1,3	±0,02	±0,03	☉	☉		☉			☉			
GX16-2E300N02-UF8	3	0,2	16	0,07-0,24	0,4-1,5	±0,02	±0,03	☉	☉		☉			☉			
GX16-2E318N02-UF8	3,18	0,2	16	0,07-0,24	0,4-1,6	±0,02	±0,03	☉	☉		☉			☉			
GX16-2E325N01-UF8	3,25	0,1	16	0,07-0,24	0,4-1,6	±0,02	±0,03	☉	☉		☉			☉			
GX16-3E400N04-UF8	4	0,4	16	0,09-0,30	0,9-2,2	±0,02	±0,03	☉	☉		☉			☉			
GX16-3E425N02-UF8	4,25	0,2	16	0,09-0,30	0,5-2,2	±0,02	±0,03	☉	☉		☉			☉			
GX16-3E525N02-UF8	5,25	0,2	16	0,11-0,35	0,9-2,6	±0,02	±0,03	☉	☉		☉			☉			
GX24-1E239N02-UF8	2,39	0,2	24	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉		☉			☉			
GX24-1E275N01-UF8	2,75	0,1	24	0,05-0,22	0,3-1,3	±0,02	±0,03	☉	☉		☉			☉			
GX24-2E300N02-UF8	3	0,2	24	0,07-0,24	0,4-1,5	±0,02	±0,03	☉	☉		☉			☉			
GX24-2E300N04-UF8	3	0,4	24	0,07-0,24	0,4-1,5	±0,02	±0,03	☉	☉		☉			☉			
GX24-2E318N02-UF8	3,18	0,2	24	0,07-0,24	0,4-1,6	±0,02	±0,03	☉	☉		☉			☉			
GX24-2E325N01-UF8	3,25	0,1	24	0,07-0,24	0,4-1,6	±0,02	±0,03	☉	☉		☉			☉			
GX24-3E400N02-UF8	4	0,2	24	0,09-0,30	0,3-2,2	±0,02	±0,03	☉	☉		☉			☉			
GX24-3E400N04-UF8	4	0,4	24	0,09-0,30	0,5-2,2	±0,02	±0,03	☉	☉		☉			☉			
GX24-3E425N02-UF8	4,25	0,2	24	0,09-0,30	0,5-2,2	±0,02	±0,03	☉	☉		☉			☉			
GX24-3E475N05-UF8	4,75	0,5	24	0,09-0,30	0,6-2,4	±0,02	±0,03	☉	☉		☉			☉			
GX24-3E500N02-UF8	5	0,2	24	0,11-0,35	0,3-2,6	±0,02	±0,03	☉	☉		☉			☉			
GX24-3E500N04-UF8	5	0,4	24	0,11-0,35	0,6-2,6	±0,02	±0,03	☉	☉		☉			☉			
GX24-3E500N08-UF8	5	0,8	24	0,11-0,35	0,9-2,6	±0,02	±0,03	☉	☉		☉			☉			
GX24-3E525N02-UF8	5,25	0,2	24	0,11-0,35	0,9-2,6	±0,02	±0,03	☉	☉		☉			☉			
GX24-3E556N05-UF8	5,56	0,5	24	0,11-0,35	0,6-2,8	±0,02	±0,03	☉	☉		☉			☉			
GX24-4E600N02-UF8	6	0,2	24	0,11-0,35	0,3-3,2	±0,02	±0,03	☉	☉		☉			☉			
GX24-4E600N04-UF8	6	0,4	24	0,11-0,35	0,6-3,2	±0,02	±0,03	☉	☉		☉			☉			
GX24-4E600N08-UF8	6	0,8	24	0,11-0,35	0,9-3,2	±0,02	±0,03	☉	☉		☉			☉			
GX24-4E635N04-UF8	6,35	0,4	24	0,11-0,35	0,6-3,4	±0,02	±0,03	☉	☉		☉			☉			
GX24-4E635N08-UF8	6,35	0,8	24	0,11-0,35	0,9-3,4	±0,02	±0,03	☉	☉		☉			☉			
GX30-5E800N08-UF8	8	0,8	30	0,13-0,40	1,0-4,2	±0,02	±0,03	☉	☉		☉			☉			

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ±0.05 mm

HC = Coated carbide

A2

Grooving and recessing GX cutting inserts Tiger-tec® Silver



A2

Cutting inserts

Designation	s mm	r mm	κ	l mm	f mm	a _p mm	S _{Tol} mm	l _{Tol} mm	P				M			K		S		
									HC				HC			HC		HC		
									WKP23S	WSM23S	WSM33S	WSM43S	WSP23S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S	WSM33S	WSM43S
GX24-2E280R02-VG7	2,8	0,2	50°	24	0,05-0,12	0,2-2,0	±0,05	±0,15	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX24-2E280R04-VG7	2,8	0,4	50°	24	0,08-0,25	0,2-2,5	±0,05	±0,15	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗

 l_{Tol} = Repeat accuracy when changing indexable insert

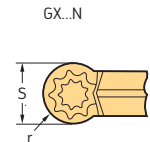
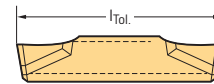
 Radius tolerance r_{Tol} = ±0.05 mm

Cutting insert can be used in G15... tools

With other tools, adapt support to the cutting insert profile

HC = Coated carbide

Grooving and copy turning GX cutting inserts Tiger-tec® Silver



Cutting inserts

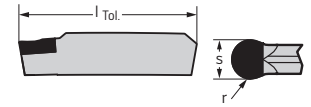
Designation	s mm	r mm	l mm	f mm	a _p mm	S _{Tol} mm	l _{Tol} mm	P				M			K		S		
								HC				HC			HC		HC		
								WKP23S	WSM13S	WSM23S	WSM33S	WSM43S	WSP13S	WSM23S	WSM33S	WSM43S	WKP23S	WSM13S	WSM23S
GX09-1E200N10-RF8	2	1	9	0,05-0,17	0,1-1,0	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX09-1E239N12-RF8	2,39	1,20	9	0,05-0,20	0,2-1,2	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX16-1E200N10-RF8	2	1	16	0,08-0,25	0,1-1,0	±0,05	±0,05	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX16-1E239N12-RF8	2,39	1,20	16	0,08-0,28	0,2-1,2	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX16-2E300N15-RF8	3	1,5	16	0,10-0,30	0,1-1,5	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX16-3E400N20-RF8	4	2	16	0,12-0,45	0,1-2,0	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX16-3E500N25-RF8	5	2,5	16	0,15-0,10	0,2-2,5	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX16-4E600N30-RF8	6	3	16	0,15-0,55	0,1-3,0	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX24-2E300N15-RF8	3	1,5	24	0,10-0,30	0,1-1,5	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX24-2E318N16-RF8	3,18	1,59	24	0,10-0,30	0,1-1,5	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX24-3E400N20-RF8	4	2	24	0,12-0,45	0,1-2,0	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX24-3E475N24-RF8	4,75	2,38	24	0,15-0,50	0,1-2,3	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX24-3E500N25-RF8	5	2,5	24	0,15-0,50	0,1-2,5	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX24-4E600N30-RF8	6	3	24	0,15-0,55	0,1-3,0	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX24-4E635N32-RF8	6,35	3,18	24	0,15-0,55	0,1-3,0	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
GX30-5E800N40-RF8	8	4	30	0,18-0,60	0,2-4,0	±0,02	±0,02	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗

 l_{Tol} = Repeat accuracy when changing indexable insert

 Radius tolerance r_{Tol} = ±0.05 mm


HC = Coated carbide

PCD – Grooving and copy turning GX cutting inserts



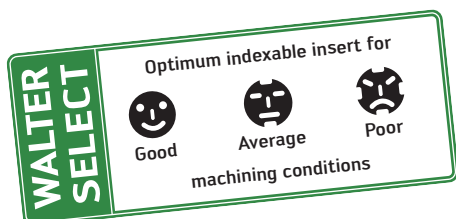
A2

Cutting inserts

Designation	s mm	r mm	l mm	f mm	a _p mm	S _{Tol} mm	l _{Tol} mm	P		M		N	K	S				
								HC		HC		DP	HC	HC				
								WKP23S	WSM33S	WSM43S	WSM33S	WSM43S	WDN10	WKP23S	WSM33S	WSM43S	WDN10	
 GX16-1F200N10FS-M1	2	0,1	16	0,05–0,25	0,1	±0,02	±0,02											
GX24-2F300N15FS-M1	3	0,15	24	0,05–0,30	0,1	±0,02	±0,02											
GX24-2F318N16FS-M1	3,18	0,16	24	0,05–0,30	0,1	±0,02	±0,02											
GX24-3F400N20FS-M1	4	0,2	24	0,05–0,35	0,1	±0,02	±0,02											
GX24-3F475N24FS-M1	4,75	0,24	24	0,05–0,40	0,1	±0,02	±0,02											
GX24-3F500N25FS-M1	5	0,25	24	0,05–0,40	0,1	±0,02	±0,02											
GX24-4F600N30FS-M1	6	0,3	24	0,05–0,50	0,1	±0,02	±0,02											
GX30-5F800N40FS-M1	8	0,4	30	0,05–0,60	0,1	±0,02	±0,02											

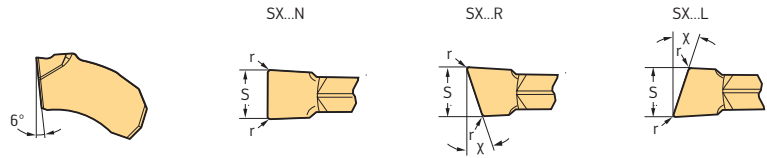
l_{Tol} = Repeat accuracy when changing indexable insert

HC = Coated carbide
DP = Polycrystalline diamond



Grooving and parting off SX cutting inserts Tiger-tec® Silver

A2



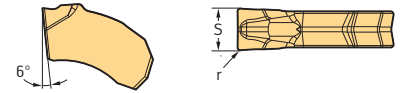
Cutting inserts

Designation	s mm	r mm	k	f mm	S _{Tol} mm	l _{Tol} mm	P				M		K	N	S		
							HC				HC		HC	HW	HC		
							WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WK1	WSM23S	WSM33S
SX-2E200N02-CK8	2	0,2		0,04–0,12	±0,02	±0,05								☺			
SX-3E300N02-CK8	3	0,2		0,08–0,20	±0,02	±0,05								☺			
SX-4E400N02-CK8	4	0,2		0,10–0,22	±0,02	±0,05								☺			
SX-5E500N04-CK8	5	0,4		0,10–0,25	±0,02	±0,05								☺			
SX-6E600N04-CK8	6	0,4		0,10–0,30	±0,02	±0,05								☺			
SX-1E150N01-CF6	1,5	0,15		0,03–0,10	±0,05	±0,1		☺	☺	☺						☺	☺
SX-2E200N02-CF6	2	0,2		0,03–0,12	±0,05	±0,1		☺	☺	☺						☺	☺
SX-3E300N02-CF6	3	0,2		0,04–0,20	±0,05	±0,1		☺	☺	☺						☺	☺
SX-1E150N01-CE4	1,5	0,15		0,03–0,12	±0,05	±0,1		☺	☺	☺						☺	☺
SX-1E150R/L6-CE4	1,5	0,15	6°	0,03–0,08	±0,05	±0,1		☺	☺							☺	
SX-2E200N02-CE4	2	0,2		0,06–0,15	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺
SX-2E200R/L6-CE4	2	0,2	6°	0,06–0,10	±0,05	±0,1		☺	☺							☺	
SX-2E260N03-CE4	2,6	0,3		0,06–0,18	±0,05	±0,1		☺	☺	☺					☺	☺	☺
SX-3E300N02-CE4	3	0,2		0,09–0,30	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺
SX-3E300R/L6-CE4	3	0,2	6°	0,09–0,20	±0,05	±0,1	☺	☺	☺							☺	☺
SX-3E310N03-CE4	3,1	0,3		0,09–0,30	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺
SX-4E400N02-CE4	4	0,2		0,10–0,32	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺
SX-4E400R/L6-CE4	4	0,2	6°	0,10–0,22	±0,05	±0,1	☺	☺	☺							☺	☺
SX-4E410N03-CE4	4,1	0,3		0,10–0,32	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺
SX-4E480N03-CE4	4,8	0,3		0,12–0,35	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺
SX-5E500N04-CE4	5	0,4		0,12–0,35	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺
SX-5E500R/L6-CE4	5	0,4	6°	0,12–0,25	±0,05	±0,1		☺	☺							☺	
SX-6E600N04-CE4	6	0,4		0,12–0,40	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺
SX-6E600R/L6-CE4	6	0,4	6°	0,12–0,30	±0,05	±0,1		☺	☺							☺	☺
SX-8E800N08-CE4	8	0,8		0,20–0,55	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺
SX-10E1000N08-CE4	10	0,8		0,25–0,60	±0,05	±0,1	☺	☺	☺	☺					☺	☺	☺

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ±0.05 mm

HC = Coated carbide
HW = Uncoated carbide

Grooving and recessing SX cutting inserts Tiger-tec® Silver



Cutting inserts

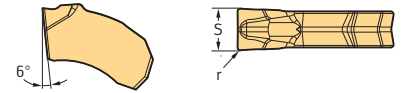
Designation	s mm	r mm	l mm	f mm	a _p mm	S _{Tol} mm	l _{Tol} mm	P		M		K		S	
								HC		HC		HC		HC	
								WKP23S	WSM33S	WSM43S	WSM33S	WSM43S	WKP23S	WSM33S	WSM43S
SX-8E800N08-UF4	8	0,8	17,4	0,18–0,55	0,9–4,0	±0,05	±0,1	☺	☺	☺	☺	☺	☺	☺	☺



l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ±0.05 mm

HC = Coated carbide

Slitting SX cutting inserts Tiger-tec® Silver

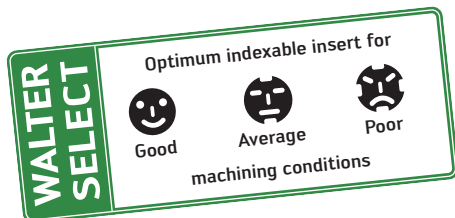


Cutting inserts

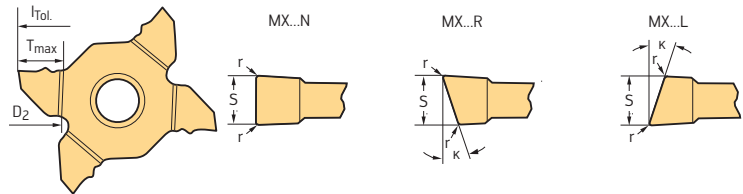
Designation	s mm	r mm	f mm	S _{Tol} mm	l _{Tol} mm	P		M		K		N		S	
						HC		HC		HC		HW		HC	
						WKP23S	WSM33S	WSM43S	WSM33S	WSM43S	WKP23S	WK1	WSM33S	WSM43S	
SX-1E150N01-SK8	1,5	0,1	0,03–0,08	±0,02	±0,05							☺			
SX-2E200N02-SK8	2	0,2	0,05–0,10	±0,02	±0,05							☺			
SX-3E300N02-SK8	3	0,2	0,05–0,15	±0,02	±0,05							☺			
SX-4E400N02-SK8	4	0,2	0,05–0,20	±0,02	±0,05							☺			
SX-5E500N04-SK8	5	0,4	0,05–0,25	±0,02	±0,05							☺			
SX-6E600N04-SK8	6	0,4	0,05–0,30	±0,02	±0,05							☺			
SX-1E150N01-SF5	1,5	0,15	0,03–0,10	±0,05	±0,1		☺	☺	☺	☺			☺	☺	
SX-2E200N02-SF5	2	0,2	0,06–0,15	±0,05	±0,1		☺	☺	☺	☺			☺	☺	
SX-3E300N02-SF5	3	0,2	0,08–0,20	±0,05	±0,1		☺	☺	☺	☺			☺	☺	
SX-4E400N02-SF5	4	0,2	0,10–0,22	±0,05	±0,1		☺	☺	☺	☺			☺	☺	
SX-5E500N04-SF5	5	0,4	0,10–0,25	±0,05	±0,1		☺	☺	☺	☺			☺	☺	

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ±0.05 mm

HC = Coated carbide
HW = Uncoated carbide



Grooving and parting off MX cutting inserts Tiger-tec® Silver



A2

Cutting inserts

Designation	s mm	r mm	k	T _{max} mm	D ₂ mm	f mm	S _{Tol} mm	I _{Tol} mm	P				M			K		S		
									HC				HC			HC		HC		
									WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S	WSM33S	WSM43S	
MX22-2E100N01-GD8	1	0,1		3,5	130	0,03-0,06	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E120N01-GD8	1,2	0,1		2		0,03-0,07	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E140N01-GD8	1,4	0,1		2		0,03-0,08	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E150N01-GD8	1,5	0,1		5	130	0,03-0,09	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E157N02-GD8	1,57	0,2		3		0,03-0,10	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E170N02-GD8	1,7	0,2		3		0,03-0,10	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E185N02-GD8	1,85	0,2		3		0,04-0,10	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E196N02-GD8	1,96	0,2		3		0,04-0,10	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E200N02-GD8	2	0,2		6	100	0,04-0,10	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E224N02-GD8	2,24	0,2		6	100	0,04-0,12	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E239N02-GD8	2,39	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E275N02-GD8	2,75	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E300N02-GD8	3	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E318N02-GD8	3,18	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕			⊕			⊕				
MX22-2E325N02-GD8	3,25	0,2		6	100	0,04-0,15	±0,02	±0,03	⊕	⊕			⊕			⊕				

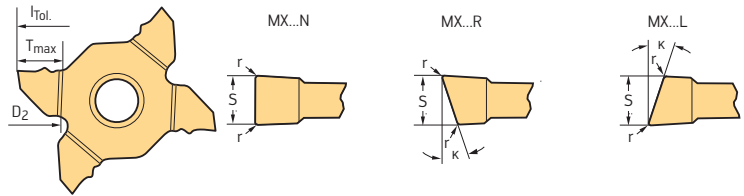
 I_{Tol} = Repeat accuracy when changing indexable insert

 Radius tolerance r_{Tol} = ±0.05 mm

 For information on T_{max} with diameters larger than D₂, see "Technical information – Grooving"

HC = Coated carbide

Grooving and parting off MX cutting inserts Tiger-tec® Silver



Cutting inserts

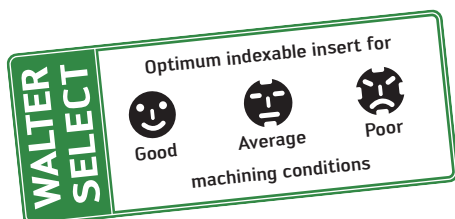
Designation	s mm	r mm	κ	T _{max} mm	D ₂ mm	f mm	S _{Tol} mm	I _{Tol} mm	P			M			K		S		
									HC			HC			HC		HC		
									WKP23S	WSM23S	WSM33S	WSM43S	WSP23S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S	WSM33S
MX22-2E080R/L5-CF5	0,8	0,05	5°	1,6	130	0,02-0,04	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E080N01-CF5	0,8	0,1		1,6	130	0,02-0,05	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E100R/L10-CF5	1	0,05	10°	3,5	130	0,02-0,04	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E100N01-CF5	1	0,1		3,5	130	0,03-0,07	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E104N01-CF5	1,04	0,1		2		0,03-0,07	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E120N01-CF5	1,2	0,1		2		0,03-0,08	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E140N01-CF5	1,4	0,1		2		0,03-0,09	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E147N01-CF5	1,47	0,1		2,5		0,03-0,09	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E150R/L10-CF5	1,5	0,05	10°	5	130	0,03-0,06	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E150N01-CF5	1,5	0,1		5	130	0,03-0,10	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E157N02-CF5	1,57	0,2		3		0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E170N02-CF5	1,7	0,2		3		0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E185N02-CF5	1,85	0,2		3		0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E196N02-CF5	1,96	0,2		3		0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E200R/L6-CF5	2	0,1	6°	6	100	0,04-0,12	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E200N02-CF5	2	0,2		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E224N02-CF5	2,24	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E239N02-CF5	2,39	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E250N02-CF5	2,5	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E275N02-CF5	2,75	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E300N02-CF5	3	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E318N02-CF5	3,18	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-2E325N02-CF5	3,25	0,2		6	100	0,04-0,16	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-4E400N02-CF5	4	0,2		6	100	0,10-0,20	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-4E400N04-CF5	4	0,4		6	100	0,10-0,20	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-4E425N02-CF5	4,25	0,2		6	100	0,10-0,20	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-4E480N06-CF5	4,8	0,6		6	100	0,10-0,25	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-4E500N02-CF5	5	0,2		6	100	0,10-0,25	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-4E500N04-CF5	5	0,4		6	100	0,10-0,25	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-4E525N02-CF5	5,25	0,2		6	100	0,10-0,25	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
MX22-4E556N02-CF5	5,56	0,2		6	100	0,10-0,28	±0,02	±0,03	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

I_{Tol} = Repeat accuracy when changing indexable insert

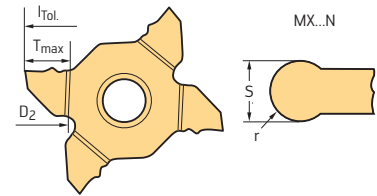
Radius tolerance r_{Tol} = ±0.05 mm

For information on T_{max} with diameters larger than D₂, see "Technical information – Grooving"

HC = Coated carbide




Grooving and parting off MX cutting inserts Tiger-tec® Silver



A2

Cutting inserts

Designation	s mm	r mm	k	T _{max} mm	D ₂ mm	f mm	S _{Tol} mm	l _{Tol} mm	P				M		K	S	
									HC				HC		HC	HC	
									WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S
 MX22-2E157N08-RF5	1,57	0,8		3	130	0,04-0,12	±0,02	±0,03	⊕	⊕			⊕				
MX22-2E200N10-RF5	2	1		6	100	0,04-0,14	±0,02	±0,03	⊕	⊕			⊕				
MX22-2E239N12-RF5	2,39	1,2		6	100	0,04-0,18	±0,02	±0,03	⊕	⊕			⊕				
MX22-2E300N15-RF5	3	1,5		6	100	0,04-0,20	±0,02	±0,03	⊕	⊕			⊕				
MX22-2E318N16-RF5	3,18	1,6		6	100	0,04-0,20	±0,02	±0,03	⊕	⊕			⊕				
MX22-4E400N20-RF5	4	2		6	100	0,01-0,22	±0,02	±0,03	⊕	⊕			⊕				
MX22-4E480N24-RF5	4,8	2,4		6	100	0,01-0,25	±0,02	±0,03	⊕	⊕			⊕				
MX22-4E500N25-RF5	5	2,5		6	100	0,06-0,25	±0,02	±0,03	⊕	⊕			⊕				

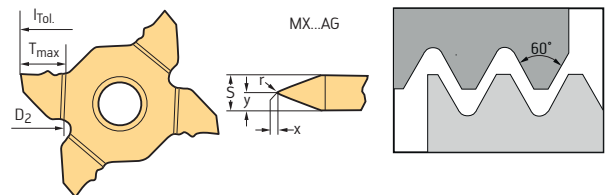
 l_{Tol} = Repeat accuracy when changing indexable insert

 Radius tolerance r_{Tol} = ±0.05 mm


 For information on T_{max} with diameters larger than D₂, see "Technical information – Grooving"

HC = Coated carbide

External thread – Partial profile 60° MX cutting inserts Tiger-tec® Silver



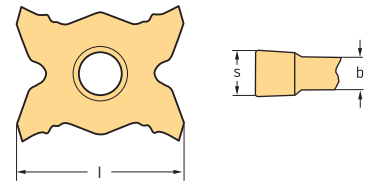
Thread turning inserts

Designation	Pitch P mm	Pitch (TPI) Inch	r mm	X mm	Y mm	P				M		K	S	
						HC				HC		HC	HC	
						WKP23S	WSM23S	WSM33S	WSM43S	WSM23S	WSM33S	WSM43S	WKP23S	WSM23S
 MX22-2E-EN-A60	0,50-1,50	48-16	0,05	0,05	1,68	⊕	⊕			⊕				
MX22-4E-EN-AG60	0,50-3,00	48-8	0,08	0,08	2,83	⊕	⊕			⊕				

 l_{Tol} = Repeat accuracy when changing indexable insert

HC = Coated carbide

Semi-finished blanks for special profiles MX cutting inserts



Blanks for special profiles

Designation	s mm	b mm	l mm	P				M			K	S					
				HC		HF	HC		HF	HC	HC		HF				
				WKP23S	WSM33S	WSM43S	WMG30	WSM33S	WSM43S	WMG30	WKP23S	WSM33S	WSM43S	WMG30			
MX22-2E335N	3,35	3,35	23,2				☉										
MX22-4E565N	5,65	5,65	23,2				☉			☉							☉

Grade WMG30 has the ISO application ranges P20, M20 and S20

HC = Coated carbide
HF = Uncoated fine-grained carbide

A2

Walter Cut grooving tools product range overview

Shank tools / parting blades / boring bars / Walter Capto™ groove turning holders

A2

Shank tools for grooving, parting off and recessing

Machining						
Type						
Designation	G3011	G3011...-P	G3021...-P	G1011	G1011...-P	G2012
Insert width s [mm]	0,5–3,25	0,5–5,56	0,5–5,56	2–8	2–8	1,5–3
Cutting depth T_{max} [mm]	6	6	6	8–32	12–33	15–33
Coolant supply	External	Precision cooling	Precision cooling	External	Precision cooling	External
Shank size h [mm]	10–12	12–25	20–25	12–32	16–32	12–25
Shank size h [inch]	-	0.750–1.000	1.000	0.500–1.000	0.750–1.000	0.500–1.000
Page	120	121	123	109	110	117

Parting blades for grooving and parting off

Machining					
Type					
Designation	G3041	G3041...C	G1041...-P	G1041...C-P	G2042...-P
Insert width s [mm]	0,5–3,25	0,5–3,25	2–4	2–4	2–4
Cutting depth T_{max} [mm]	6	6	16–33	16–32	26–33
Coolant supply	External	External	Precision cooling	Precision cooling	Precision cooling
Shank size h4 [mm]	26	26	26–32	26–32	26–23
Shank size h4 [inch]	1.024	1.024	1.024–1.260	1.024–1.260	1.024–1.260
Page	125	126	113	114	119

Boring bars for internal grooving

Machining	
Type	
Designation	G1221...-P
Insert width s [mm]	0,8–6
Cutting depth T_{max} [mm]	4–12
Coolant supply	Precision cooling
Shank size d_1 [mm]	16–40
Shank size d_1 [inch]	0.625–1.500
Page	115

Walter Capto™ groove turning holders for grooving, parting off and recessing

Machining	
Type	
Designation	G3011...C...-P
Insert width s [mm]	0,5–5,56
Cutting depth T_{max} [mm]	6
Coolant supply	Precision cooling
Walter Capto™ size	C3–C6
Page	127

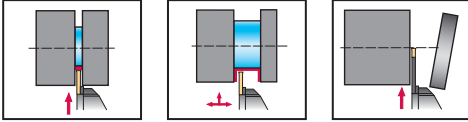
Shank tool – Radial grooving

G1011 inch

Walter Cut



– Screw clamping



A2

Tool	Designation	s Inch	T _{max} Inch	D ₂ Inch	h = h ₁ Inch	b Inch	f ₁ Inch	l ₁ Inch	l ₄ Inch	s ₁ Inch	Type
	G1011.16R/L-4T32GX24	0,157	1,260		1,000	1,000	0,933	6,496	2,165	0,134	GX24-3E4 .. GX24-3F4 ..

For information on T_{max} with diameters larger than D₂, see "Technical information – Grooving"
 $f = f_1 + s/2$
 Ordering example, right-hand tool: G1011.16R-4T32GX24/ordering example, left-hand tool: G1011.16L-4T32GX24
 Bodies and assembly parts are included in the scope of delivery.

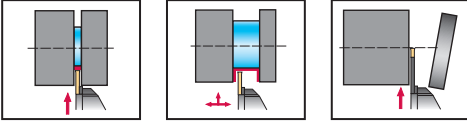
Assembly parts		h = h ₁ [Inch]	1,000
	Clamping screw for grooving insert Tightening torque		FS2118 (Torx 20IP) 5,0 Nm
	Torx key		FS1464 (Torx 20IP)

Shank tool – Radial grooving

G1011...-P

Walter Cut

- Screw clamping
- Precision cooling



Tool	Designation	s mm	T _{max} mm	D ₂ mm	h = h ₁ mm	b mm	f ₁ mm	l ₁ mm	l ₄ mm	s ₁ mm	Type
	G1011.2525R/L-5T12GX24-P	5	12		25	25	22,9	125	35	4,2	GX24-3E5 .. GX24-3F5 ..
	G1011.2525R/L-5T21GX24-P		21		25	25	22,9	130	40	4,2	
	G1011.2525R/L-5T32GX24-P		32	120	25	25	22,9	145	55	4,2	
	G1011.2525R/L-6T12GX24-P	6	12		25	25	22,4	125	35	5,2	GX24-4 .. GX24-4F6 ..
	G1011.2525R/L-6T21GX24-P		21		25	25	22,4	130	40	5,2	
	G1011.2525R/L-6T32GX24-P		32		25	25	22,4	145	55	5,2	
	G1011.2525R/L-8T28GX30-P	8	28		25	25	22	145	55	6,1	GX30-5E8 .. GX30-5F8 ..
	G1011.3225R/L-8T28GX30-P		28	32	25	22	145	55	6,1		

f = f₁ + s/2
 For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"
 The maximum recommended coolant pressure is 150 bar (2175 psi)
 Ordering example, right-hand tool: G1011.1212R-2T12GX16-P/ordering example, left-hand tool: G1011.1212L-2T12GX16-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	h = h ₁ [mm]	12	16	20	20	20-25	25	25	32
	T _{max} [mm]	12	12-21	12	15-21	33	12-32	21	28
Clamping screw for grooving insert Tightening torque	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	M06X025 ISO4762 12,9 (SW 5) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm
G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)
M6 threaded plug			FS2288 (SW 3)	FS2288 (SW 3)	FS2288 (SW 3)	FS2288 (SW 3)	FS2288 (SW 3)	FS2288 (SW 3)	FS2288 (SW 3)
Torx key	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)		FS1464 (Torx 20IP)	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)
ISO 2936 key				ISO2936-5 (SW 5)	ISO2936-5 (SW 5)		ISO2936-5 (SW 5)	ISO2936-5 (SW 5)	

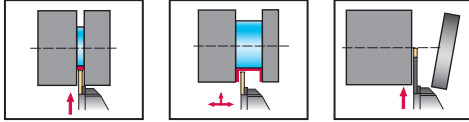
Shank tool – Radial grooving

G1011...-P inch

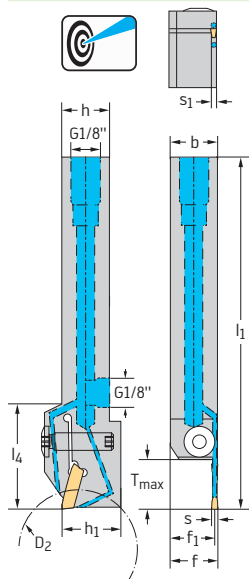
Walter Cut



- Screw clamping
- Precision cooling



Tool



Designation	s Inch	T _{max} Inch	D ₂ Inch	h = h ₁ Inch	b Inch	f ₁ Inch	l ₁ Inch	l ₄ Inch	s ₁ Inch	Type
G1011.12R/L-2T15GX16-P	0,079	0,591		0,750	0,750	0,719	5,906	1,398	0,063	GX16-1E2 ..
G1011.16R/L-2T15GX16-P		0,591		1,000	1,000	0,969	5,906	1,398	0,063	GX16-1F2 ..
G1011.12R/L-3T15GX16-P	0,118	0,591		0,750	0,750	0,707	5,906	1,398	0,087	GX16-2E3 ..
G1011.12R/L-3T21GX24-P		0,827	3,150	0,750	0,750	0,701	5,906	1,575	0,094	GX24-2E ..
★ G1011.16R/L-3T12GX24-P	0,118	0,472		1,000	1,000	0,953	5,906	1,575	0,094	GX24-2F3 ..
G1011.16R/L-3T21GX24-P		0,827	3,150	1,000	1,000	0,953	5,906	1,575	0,094	
G1011.12R/L-3T33GX34-P	0,157	1,299	5,512	0,750	0,750	0,703	5,906	2,087	0,094	GX34-2E3 ..
G1011.16R/L-3T33GX34-P		1,299	5,512	1,000	1,000	0,953	5,906	2,087	0,094	
G1011.12R/L-4T12GX24-P	0,157	0,472		0,750	0,750	0,685	5,906	1,378	0,134	GX24-3E4 ..
G1011.12R/L-4T21GX24-P		0,827		0,750	0,750	0,685	5,906	1,575	0,134	
G1011.16R/L-4T12GX24-P	0,157	0,472		1,000	1,000	0,933	5,709	1,378	0,134	GX24-3F4 ..
G1011.16R/L-4T21GX24-P		0,827		1,000	1,000	0,933	5,906	1,575	0,134	
G1011.16R/L-4T32GX24-P	0,157	1,260		1,000	1,000	0,933	5,906	2,165	0,134	GX34-3E4 ..
G1011.12R/L-4T33GX34-P		1,299	5,512	0,750	0,750	0,685	5,906	2,087	0,130	
G1011.16R/L-4T33GX34-P	0,197	1,299	5,512	1,000	1,000	0,937	5,906	2,087	0,130	GX24-3E5 ..
G1011.12R/L-5T21GX24-P		0,827		0,750	0,750	0,669	5,906	1,575	0,165	
G1011.16R/L-5T12GX24-P	0,197	0,472		1,000	1,000	0,917	5,709	1,378	0,165	GX24-3F5 ..
G1011.16R/L-5T21GX24-P		0,827		1,000	1,000	0,917	5,906	1,575	0,165	
G1011.16R/L-5T32GX24-P	0,236	1,260		1,000	1,000	0,917	5,906	2,165	0,165	GX24-4 ..
G1011.16R/L-6T12GX24-P		0,472		1,000	1,000	0,898	5,709	1,378	0,205	
G1011.16R/L-6T21GX24-P	0,236	0,827		1,000	1,000	0,898	5,906	1,575	0,205	GX24-4F6 ..
G1011.16R/L-6T32GX24-P		1,260		1,000	1,000	0,898	5,906	2,165	0,205	

$$F = f_1 + s/2$$

For the connection set for coolant supply with G1/8" thread, see "Assembly parts and accessories"

The maximum recommended coolant pressure is 150 bar (2175 psi)

Ordering example, right-hand tool: G1011.12R-2T15GX16-P/ordering example, left-hand tool: G1011.12L-2T15GX16-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

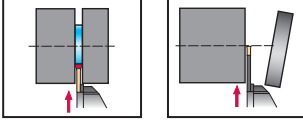
	h = h ₁ [Inch] T _{max} [Inch]	0,750 0,472–0,827	0,750–1,000 1,299	1,000 0,472–1,260
	Clamping screw for grooving insert Tightening torque	FS2118 (Torx 20IP) 5,0 Nm	M06X025 ISO4762 12.9 (SW 5) 5,0 Nm	FS2118 (Torx 20IP) 5,0 Nm
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug		FS2288 (SW 3)	
	Torx key	FS1464 (Torx 20IP)		FS1464 (Torx 20IP)
	ISO 2936 key		ISO2936-5 (SW 5)	

Reinforced parting blade

G1041...-P

Walter Cut

- Screw clamping
- Precision cooling



A2

Tool	Designation	s mm	T _{max} mm	D _{max} mm	h ₄ mm	l ₁ mm	h ₁ mm	s ₁ mm	Type
	G1041.26R/L-2T16GX16-P	2	16	32	26	110	21	1,5	GX16-1E2 .. GX16-1F2 ..
	G1041.26R/L-3T23GX24-P	3	23	46	26	110	21	2,2	GX24-2E .. GX24-2F3 ..
	G1041.32R/L-3T23GX24-P		23	46	32	110	24,6	2,2	
	G1041.32R/L-3T32GX24-P		32	65	32	110	24,6	2,2	
	G1041.32R/L-3T33GX34-P	4	33	65	32	110	24,6	2,4	GX34-2E3 ..
	G1041.32R/L-4T32GX24-P		32	65	32	110	24,6	3,1	GX24-3E4 .. GX24-3F4 ..
	G1041.32R/L-4T33GX34-P		33	65	32	110	24,6	3,3	GX34-3E4 ..

Ordering example, right-hand tool: G1041.26R-2T16GX16-P/ordering example, left-hand tool: G1041.26L-2T16GX16-P
Bodies and assembly parts are included in the scope of delivery.

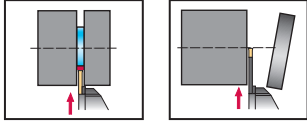
Assembly parts		h ₄ [mm]	26-32
	Clamping screw for grooving insert Tightening torque		FS2164 (Torx 15IP) 3,5 Nm
Accessories		h ₄ [mm]	26-32
	Screwdriver for grooving insert		FS1485 (Torx 15IP)

Reinforced parting blade – Contra

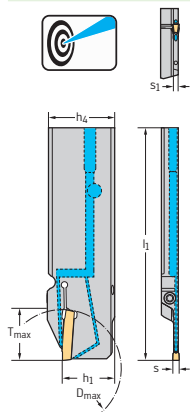
G1041...C-P

Walter Cut

- Screw clamping
- Precision cooling



Tool



Designation	s mm	T _{max} mm	D _{max} mm	h ₄ mm	l ₁ mm	h ₁ mm	s ₁ mm	Type
G1041.26R/L-2T16GX16C-P	2	16	32	26	110	21	1,5	GX16-1E2 .. GX16-1F2 ..
G1041.32R/L-2T23GX24C-P		23	46	32	110	24,6	1,5	GX24-1E2 ..
G1041.26R/L-3T23GX24C-P	3	23	46	26	110	21	2,2	GX24-2E .. GX24-2F3 ..
G1041.32R/L-3T23GX24C-P		23	46	32	110	24,6	2,2	
G1041.32R/L-3T33GX34C-P		33	65	32	110	24,6	2,4	GX34-2E3 ..
G1041.32R/L-4T32GX24C-P	4	32	65	32	110	24,6	3,1	GX24-3E4 .. GX24-3F4 ..
G1041.32R/L-4T33GX34C-P		33	65	32	110	24,6	3,3	GX34-3E4 ..

Ordering example, right-hand tool: G1041.26R-2T16GX16C-P/ordering example, left-hand tool: G1041.26L-2T16GX16C-P
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	h ₄ [mm]	26-32
Clamping screw for grooving insert Tightening torque		FS2164 (Torx 15IP) 3,5 Nm

Accessories

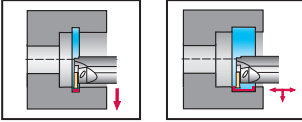
	h ₄ [mm]	26-32
Screwdriver for grooving insert		FS1485 (Torx 15IP)

Boring bar – Internal grooving

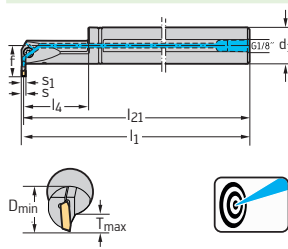
G1221...-P

Walter Cut

- Screw clamping
- Precision cooling



Tool



Designation	s mm	T _{max} mm	D _{min} mm	d ₁ mm	f mm	l ₄ mm	l ₂₁ mm	s ₁ mm	Type
G1221-16QR/L-2T04-GX09-P	2-2,5	4	16	16	12,6	29,3	179,3	1,4	GX09-..E..
G1221-20QR/L-2T06-GX09-P		6	20	20	16,6	36,3	179,3	1,4	GX16-1E2 .. GX16-1F2 ..
G1221-25RR/L-2T08-GX16-P		8	25	25	21,1	45,2	199,3	1,5	GX09-2E3 ..
G1221-20QR/L-3T06-GX09-P	2,5-3	6	20	20	16,6	35,9	179,0	2,1	GX16-2E3 ..
G1221-25RR/L-3T08-GX16-P		8	25	25	21,1	44,9	199,0	2,1	GX24-2E .. GX24-2F3 ..
G1221-32SR/L-3T10-GX16-P	3	10	32	32	26,6	57,9	249,0	2,1	GX16-3E ..
★ G1221-40TR/L-3T12-GX24-P		12	40	40	32,6	72,0	298,9	2,1	GX24-4E ..
G1221-32SR/L-4T10-GX16-P		10	32	32	26,6	57,4	248,5	3,1	GX24-3E ..
★ G1221-40TR/L-4T12-GX24-P	4	12	40	40	32,6	71,5	298,4	3,1	GX24-4E ..
★ G1221-40TR/L-5T12-GX24-P		12	40	40	32,6	71,1	298,1	3,8	GX24-4E ..

$$l_1 = l_{21} + s/2$$

Ordering example, right-hand tool: G1221-16QR-2T04-GX09-P/ordering example, left-hand tool: G1221-16QL-2T04-GX09-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _{min} [mm]	16	20	25	32	40
 Clamping screw for grooving insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS2081 (Torx 15IP) 4,0 Nm	FS1495 (Torx 20IP) 5,0 Nm	FS2089 (Torx 25IP) 5,0 Nm	FS2089 (Torx 25IP) 5,0 Nm
 Threaded plug	M02X002 ISO 4026 (SW 0,9)	M03X003 ISO 4026 (SW 1,5)	M03X003 ISO 4026 (SW 1,5)	M03X003 ISO 4026 (SW 1,5)	M02X002 ISO 4026 (SW 0,9)
 O-ring	O-RING 11X2	O-RING 15X2	O-RING 20X2	O-RING 27X2	O-RING 34X2
 Screwdriver	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)	FS1487 (Torx 25IP)

Accessories

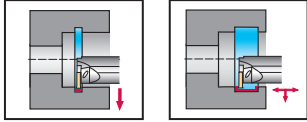
D _{min} [mm]	16-20	25	32-40
 Torque screwdriver, digital Tightening torque	FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm
 Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2016 (Torx 25IP)

Boring bar – Internal grooving

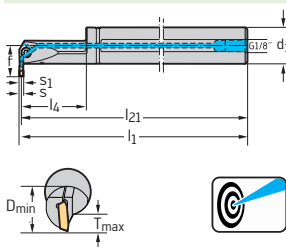
G1221...-P inch

Walter Cut

- Screw clamping
- Precision cooling



Tool



Designation	s Inch	T _{max} Inch	D _{min} Inch	d ₁ Inch	f Inch	l ₄ Inch	l ₂₁ Inch	s ₁ Inch	Type
G1221.10QR/L-2T04-GX09-P	0,079– 0,098	0,157	0,625	0,625	0,492	1,154	7,059	0,055	GX09- . E ..
G1221.12QR/L-2T06-GX09-P		0,236	0,750	0,750	0,634	1,429	7,059	0,055	
G1221.16RR/L-2T08-GX16-P		0,315	1,000	1,000	0,839	1,780	7,844	0,059	GX16-1E2 .. GX16-1F2 ..
G1221.12QR/L-3T06-GX09-P	0,118	0,236	0,750	0,750	0,634	1,413	7,045	0,083	GX09-2E3 ..
G1221.16RR/L-3T08-GX16-P		0,315	1,000	1,000	0,839	1,768	7,833	0,083	GX16-2E3 ..
G1221.20SR/L-3T10-GX16-P	0,157	0,394	1,250	1,250	1,043	2,280	9,801	0,083	GX16-3E ..
G1221.20SR/L-4T10-GX16-P		0,394	1,250	1,250	1,043	2,260	9,781	0,122	
★ G1221-24TR/L-4T12-GX24-P		0,472	1,500	1,500	1,244	2,813	11,750	0,122	GX24-3E ..
★ G1221-24TR/L-5T12-GX24-P	0,197– 0,236	0,472	1,500	1,500	1,244	2,799	11,736	0,150	GX24-4E ..

$$l_1 = l_{21} + s/2$$

Ordering example, right-hand tool: G1221.10QR-2T04-GX09-P/ordering example, left-hand tool: G1221.10QL-2T04-GX09-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _{min} [Inch]	0,625	0,750	1,000	1,250
Clamping screw for grooving insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS2081 (Torx 15IP) 4,0 Nm	FS1495 (Torx 20IP) 5,0 Nm	FS2089 (Torx 25IP) 5,0 Nm
Threaded plug	M02X002 ISO 4026 (SW 0,9)	M03X003 ISO 4026 (SW 1,5)	M03X003 ISO 4026 (SW 1,5)	M03X003 ISO 4026 (SW 1,5)
O-ring	O-RING 11X2	O-RING 15X2	O-RING 20X2	O-RING 27X2
Screwdriver	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Accessories

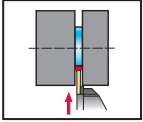
D _{min} [Inch]	0,625-0,750	1,000	1,250
Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2016 (Torx 25IP)

Reinforced parting blade

G2042...R/L...-P

Walter Cut

- Self-clamping system
- Precision cooling



A2

Tool		s	T _{max}	D _{max}	h ₄	l ₁	h ₁	s ₁	Type
Designation		mm	mm	mm	mm	mm	mm	mm	
	G2042.32R/L-2T26SX-P	2	26	52	32	110	24,7	1,6	SX-2E2 ..
	G2042.26R/L-3T33SX-P	3	33	65	26	110	21	2,4	SX-3E3 ..
	G2042.32R/L-3T33SX-P		33	65	32	110	24,7	2,4	
	G2042.32R/L-4T33SX-P	4	33	65	32	110	24,7	3,4	SX-4E4 ..

Ordering example, right-hand tool: G2042.32R-2T26SX-P/ordering example, left-hand tool: G2042.32L-2T26SX-P

Accessories		
	h ₄ [mm]	
	26-32	
	Mounting wrench for grooving insert	FS1494

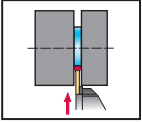
Reinforced parting blade

G3041

Walter Cut



– Screw clamping



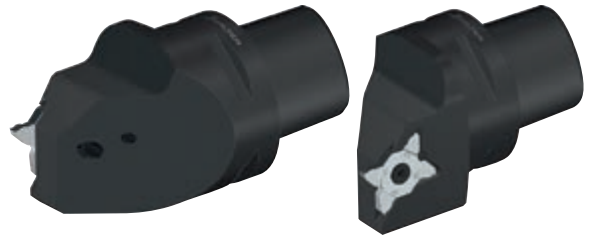
Tool	Designation	s mm	T _{max} mm	h ₄ mm	l ₁ mm	h ₁ mm	Type
	★ G3041.26R/L-MX22-2	0,8–3,25	6	26	110	21	MX22-2E ..

Ordering example, right-hand tool: G3041.26R-MX22-2/ordering example, left-hand tool: G3041.26L-MX22-2
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	h ₄ [mm]	
		26
Clamping screw for grooving insert		FS2574
Torx key		FS2572

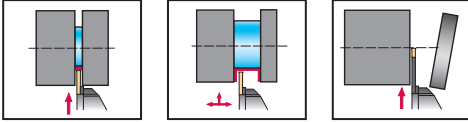
A2

Groove turning holders – Radial grooving

C...-G3011...-P 

A2

- Walter Capto™
- Screw clamping



Tool		s mm	T _{max} mm	d ₁	f ₁ mm	l ₄ mm	Type
Walter Capto™ in accordance with ISO 26623							
	★ G3011-C3R/L-MX22-2-P	0,8–3,25	6	C3	20	45	MX22-2E ..
	★ G3011-C4R/L-MX22-2-P		6	C4	20	60	
	★ G3011-C5R/L-MX22-2-P		6	C5	25	60	
	★ G3011-C6R/L-MX22-2-P	6	6	C6	32	65	
	★ G3011-C4R/L-MX22-4-P	4–5,65	6	C4	20	60	MX22-4E ..
	★ G3011-C5R/L-MX22-4-P		6	C5	25	60	
★ G3011-C6R/L-MX22-4-P	6		C6	32	65		

$$f = f_1 + s/2$$

For information on the maximum cutting depth T_{max}, see "Cutting inserts"

The maximum recommended coolant pressure is 150 bar (2175 psi)

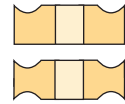
Ordering example, right-hand tool: G3011-C3R-MX22-2-P/ordering example, left-hand tool: G3011-C3L-MX22-2-P

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		s [mm]	0,8–3,25/4–5,65
	Clamping screw for grooving insert		FS2571
	Torx key		FS2572

Cutting data for turning inserts – Negative basic shape

Carbide grades



Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R_{m} N/mm ²	Machining group ¹		Cutting material grades				
							Starting values for cutting speed v_c [m/min]				
							HC				
							WSM01				
							f [mm/rev]				
							0,10	0,20	0,50		
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	●	240	230	
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	●●	●	190	160	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	●●	●	160	130	
		C > 0.55%	Annealed	190	640	P4	●●	●	150	130	
		C > 0.55%	Heat-treated	300	1010	P5	●●	●	140	100	
	Free-machining steel (short-chipping)	Annealed	220	750	P6	●●	●	210	190		
	Low-alloy steel	Annealed		175	590	P7	●●	●	150	130	
		Heat-treated		285	960	P8	●●	●	130	80	
		Heat-treated		380	1280	P9	●●	●	100	70	
		Heat-treated		430	1480	P10	●●	●	80	60	
High-alloyed steel and high-alloyed tool steel	Annealed		200	680	P11	●●	●	140	120		
	Hardened and tempered		300	1010	P12	●●	●	120	90		
	Hardened and tempered		380	1280	P13	●●	●	70	50		
Stainless steel	Ferritic/martensitic, annealed		200	680	P14	●●	●	200	180		
	Martensitic, heat-treated		330	1110	P15	●●	●	150	120		
M	Stainless steel	Austenitic, quench hardened		200	680	M1	●●	●	250	190	120
		Austenitic, precipitation hardened (PH)		300	1010	M2	●●	●	150	130	
		Austenitic/ferritic, duplex		230	780	M3	●●	●	160	140	100
K	Malleable cast iron	Ferritic		200	400	K1	●●	●			
		Pearlitic		260	700	K2	●●	●			
	Grey cast iron	Low tensile strength		180	200	K3	●●	●			
		High tensile strength/austenitic		245	350	K4	●●	●			
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	●●	●			
		Pearlitic		265	700	K6	●●	●			
GGV (CGI)		230	400	K7	●●	●					
N	Wrought aluminium alloys	Not hardenable		30	–	N1			3000	2400	1800
		Hardenable, hardened		100	340	N2			900	720	360
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3			960	540	360
		≤ 12% Si, hardenable, hardened		90	310	N4			600	360	240
		> 12% Si, not hardenable		130	450	N5					
	Magnesium-based alloys ³		70	250	N6						
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7			720	480	320
		Brass, bronze, red brass		90	310	N8			480	360	300
		Cu alloys, short-chipping		110	380	N9			340	240	160
		High-tensile, Ampco		300	1010	N10					
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	●●	●	100	70	
			Hardened	280	940	S2	●●	●	80	60	
		Ni- or Co-based	Annealed	250	840	S3	●●	●	80	60	
			Hardened	350	1180	S4	●●	●	70	50	
	Cast		320	1080	S5	●●	●	60	40		
	Titanium alloys	Pure titanium		200	680	S6	●●	●			
		α and β alloys, hardened		375	1260	S7	●●	●	70	50	
β alloys			410	1400	S8	●●	●	50	40		
Tungsten alloys		300	1010	S9							
Molybdenum alloys		300	1010	S10							
H	Hardened steel	Hardened and tempered	50 HRC		H1	●	●●	50			
		Hardened and tempered	55 HRC		H2	●	●●	40			
		Hardened and tempered	60 HRC		H3	●	●●				
	Hardened cast iron	Hardened and tempered	55 HRC		H4	●	●●				
O	Thermoplastics	Without abrasive fillers			O1						
	Thermosets	Without abrasive fillers			O2						
	Plastic, glass-fibre-reinforced	GFRP			O3						
	Plastic, carbon-fibre-reinforced	CFRP			O4						
	Plastic, aramid-fibre-reinforced	AFRP			O5						
	Graphite (technical)		80 Shore		O6						

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application

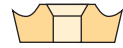
Note: If dry machining is possible, the tool life is reduced by 20–30% on average.

¹ The classification of the machining groups can be found from page A 468 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium alloys.

Cutting data for turning inserts – Positive basic shape

Carbide grades



Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R _m N/mm ²	Machining group ¹			Cutting material grades				
								Starting values for cutting speed v _c [m/min]				
								HE				
								WEP10				
								f [mm/rev]				
								0,10	0,20	0,30		
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	●	300	250	200	
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	●●	●	230	200	180	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	●●	●	210	180	150	
		C > 0.55%	Annealed	190	640	P4	●●	●	220	200	180	
		C > 0.55%	Heat-treated	300	1010	P5	●●	●	180	150		
	Low-alloy steel	Free-machining steel (short-chipping)	Annealed	220	750	P6	●●	●	230	200	180	
		Annealed		175	590	P7	●●	●	210	180	150	
		Heat-treated		285	960	P8	●●	●	150	130	110	
		Heat-treated		380	1280	P9	●●	●				
		Heat-treated		430	1480	P10	●●	●				
High-alloyed steel and high-alloyed tool steel	Annealed		200	680	P11	●●	●	160	140	130		
	Hardened and tempered		300	1010	P12	●●	●					
	Hardened and tempered		380	1280	P13	●●	●					
Stainless steel	Ferritic/martensitic, annealed		200	680	P14	●●	●					
	Martensitic, heat-treated		330	1110	P15	●●	●					
M	Stainless steel	Austenitic, quench hardened		200	680	M1	●●	●	210	190	160	
		Austenitic, precipitation hardened (PH)		300	1010	M2	●●	●	150	130	110	
		Austenitic/ferritic, duplex		230	780	M3	●●	●	160	140	110	
K	Malleable cast iron	Ferritic		200	400	K1	●●	●	220	200	180	
		Pearlitic		260	700	K2	●●	●	190	170	150	
	Grey cast iron	Low tensile strength		180	200	K3	●●	●	420	390	360	
		High tensile strength/austenitic		245	350	K4	●●	●	220	200	180	
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	●●	●	240	220	200	
		Pearlitic		265	700	K6	●●	●	170	140	130	
GGV (CGI)		230	400	K7	●●	●	220	180	170			
N	Wrought aluminium alloys	Not hardenable		30	–	N1	●●	●				
		Hardenable, hardened		100	340	N2	●●	●				
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3	●●	●				
		≤ 12% Si, hardenable, hardened		90	310	N4	●●	●				
		> 12% Si, not hardenable		130	450	N5						
	Magnesium-based alloys ³			70	250	N6						
		Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7	●●	●			
Brass, bronze, red brass			90	310	N8	●●	●					
Cu alloys, short-chipping			110	380	N9	●●	●					
High-tensile, Ampco			300	1010	N10							
S	Heat-resistant alloys	Fe-based	Annealed		200	680	S1	●●	●			
			Hardened		280	940	S2	●●	●			
		Ni- or Co-based	Annealed		250	840	S3	●●	●			
			Hardened		350	1180	S4	●●	●			
	Titanium alloys	Cast		320	1080	S5	●●	●				
		Pure titanium		200	680	S6	●●	●				
		α and β alloys, hardened		375	1260	S7	●●	●				
	Tungsten alloys	β alloys		410	1400	S8	●●	●				
			300	1010	S9							
Molybdenum alloys		300	1010	S10								
H	Hardened steel	Hardened and tempered		50 HRC		H1	●	●●				
		Hardened and tempered		55 HRC		H2	●	●●				
		Hardened and tempered		60 HRC		H3	●	●●				
	Hardened cast iron	Hardened and tempered		55 HRC		H4	●	●●				
O	Thermoplastics	Without abrasive fillers				O1						
	Thermosets	Without abrasive fillers				O2						
	Plastic, glass-fibre-reinforced	GFRP				O3						
	Plastic, carbon-fibre-reinforced	CFRP				O4						
	Plastic, aramid-fibre-reinforced	AFRP				O5						
	Graphite (technical)		80 Shore			O6						

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application

Note: If dry machining is possible, the tool life is reduced by 20–30% on average.

¹ The classification of the machining groups can be found from page A 468 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium alloys.

Cutting material grades												
Starting values for cutting speed v_c [m/min]												
HC												
WSM01			WNN10			WPV10			WPV20			
f [mm/rev]			f [mm/rev]			f [mm/rev]			f [mm/rev]			
0,10	0,20	0,40	0,10	0,20	0,40	0,10	0,20	0,40	0,10	0,20	0,40	
240	230		230	210		400	350	300	330	300	250	
190	160		170	150		320	280	230	270	240	190	
160	130		130	120		240	210	200	190	170	160	
150	130		140	120		280	260	250	240	220	200	
140	100					190	160	160	160	130	120	
210	190		180	160		360	340	330	310	280	270	
150	130		120	100		290	270	260	250	230	210	
130	80					160	140	130	130	120	100	
100	70					100	80	80	80	70	50	
80	60					70	50		50	40		
140	120		130	100		280	250	240	230	200	190	
120	90					170	160	140	140	120	100	
70	50					60	50		50	40		
200	180					240	220	210	170	160	140	
150	120					100	80	80	80	80	60	
250	190	120	200	180								
150	130		140	120								
160	140	100	150	130								
						230	200	190	200	180	160	
						200	170	160	170	150	130	
						430	400	360	390	360	350	
						230	200	190	170	150	130	
						240	220	200	190	160	150	
						170	150	130	130	110	90	
						230	190	170				
3000	2400	1800	3000	2400	1800							
900	720	360	900	720	360							
960	540	360	960	540	360							
600	360	240	600	360	240							
720	480	320	720	480	320							
480	360	300	480	360	300							
340	240	160	340	240	160							
100	70		80	60								
80	60		60	50								
80	60		60	50								
70	50		50	40								
60	40		40	30								
			220	200	160							
70	50		70	50								
50	40		40	30								
50												
40												
			400	400								
			300	300								
			600	600								

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

HC = Coated carbide
HE = Coated cermet

Cutting data for turning inserts – Negative and positive basic shape CBN/PCD/ceramic

Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R_m N/mm ²	Machining group ¹	Cutting material grades					
						Starting values for cutting speed v_c [m/min]					
						CBN					
						BL WBH10C					
						f [mm/rev]					
						0.05	0.15	0.20			
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1					
		C > 0.25%... ≤ 0.55%	Annealed	190	640	P2					
		C > 0.25%... ≤ 0.55%	Heat-treated	210	710	P3					
		C > 0.55%	Annealed	190	640	P4					
		C > 0.55%	Heat-treated	300	1010	P5					
		Free-machining steel (short-chipping)	Annealed	220	750	P6					
	Low-alloy steel	Annealed		175	590	P7					
		Heat-treated		285	960	P8					
		Heat-treated		380	1280	P9					
		Heat-treated		430	1480	P10					
	High-alloyed steel and high-alloyed tool steel	Annealed		200	680	P11					
		Hardened and tempered		300	1010	P12					
		Hardened and tempered		380	1280	P13					
	Stainless steel	Ferritic/martensitic, annealed		200	680	P14					
		Martensitic, heat-treated		330	1110	P15					
M	Stainless steel	Austenitic, quench hardened		200	680	M1					
		Austenitic, precipitation hardened (PH)		300	1010	M2					
		Austenitic/ferritic, duplex		230	780	M3					
K	Malleable cast iron	Ferritic		200	400	K1	●●●	●			
		Pearlitic		260	700	K2	●●●	●			
	Grey cast iron	Low tensile strength		180	200	K3	●●●	●			
		High tensile strength/austenitic		245	350	K4	●●●	●			
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	●●●	●			
		Pearlitic		265	700	K6	●●●	●			
	GGV (CGI)			230	400	K7					
N	Wrought aluminium alloys	Not hardenable		30	–	N1					
		Hardenable, hardened		100	340	N2					
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3					
		≤ 12% Si, hardenable, hardened		90	310	N4					
		> 12% Si, not hardenable		130	450	N5					
	Magnesium alloys		70	250	N6						
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7					
		Brass, bronze, red brass		90	310	N8					
		Cu alloys, short-chipping		110	380	N9					
		High-tensile, Ampco		300	1010	N10					
S	Heat-resistant alloys	Fe-based	Annealed		200	680	S1				
			Hardened		280	940	S2				
		Ni- or Co-based	Annealed		250	840	S3	●●●	●		
			Hardened		350	1180	S4	●●●	●		
			Cast		320	1080	S5	●●●	●		
	Titanium alloys	Pure titanium		200	680	S6					
		α and β alloys, hardened		375	1260	S7					
		β alloys		410	1400	S8					
	Tungsten alloys		300	1010	S9						
	Molybdenum alloys		300	1010	S10						
H	Hardened steel	Hardened and tempered		50 HRC	–	H1	●	●●	300	250	220
		Hardened and tempered		55 HRC	–	H2	●	●●	280	230	200
		Hardened and tempered		60 HRC	–	H3	●	●●	250	200	180
	Hardened cast iron	Hardened and tempered		55 HRC	–	H4	●	●●	250	200	180
O	Thermoplastics	Without abrasive fillers				O1					
	Thermosets	Without abrasive fillers				O2					
	Plastic, glass-fibre-reinforced	GFRP				O3					
	Plastic, carbon-fibre-reinforced	CFRP				O4					
	Plastic, aramid-fibre-reinforced	AFRP				O5					
	Graphite (technical)			80 Shore		O6					

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application

¹ The classification of the machining groups can be found from page A 468 onwards in the Walter General Catalogue 2017.

Cutting tool material application chart

Carbide

Walter grade designation	Standard designation	Material groups							Application range							Coating method	Coating composition	Indexable insert example
		P Steel	M Stainless steel	K Cast iron	N NF metals	S Materials with difficult cutting properties	H Hard materials	O Other	01	05	10	15	20	25	30			
WPV10	HC - P 10	●●							[Application range diagram]							CVD	TiCN + Al ₂ O ₃ + TiN	
	HC - M 20		●					[Application range diagram]										
	HC - K 20			●				[Application range diagram]										
WPV20	HC - P 20	●●						[Application range diagram]							CVD	TiCN + Al ₂ O ₃ + TiN		
	HC - M 30		●				[Application range diagram]											
	HC - K 30			●				[Application range diagram]										
WKV10	HC - K 10			●●				[Application range diagram]							CVD	TiCN + Al ₂ O ₃ + TiN		
	HC - P 10	●					[Application range diagram]											
	HC - H 30						●	[Application range diagram]										
WKV20	HC - K 20			●●				[Application range diagram]							CVD	TiCN + Al ₂ O ₃ + TiN		
	HC - P 20	●					[Application range diagram]											
WSM01	HC - M 01		●●					[Application range diagram]							PVD	TiAlN (HIPIMS)		
	HC - S 01					●●	[Application range diagram]											
	HC - P 10	●					[Application range diagram]											
	HC - N 10				●			[Application range diagram]										
	HC - H 20						●	[Application range diagram]										
WSM21	HC - M 20		●●					[Application range diagram]							PVD	TiAlN		
	HC - S 20					●●	[Application range diagram]											
	HC - P 20	●●					[Application range diagram]											
WNN10	HC - N 10				●●			[Application range diagram]							PVD	TiAlN (HIPIMS)		
	HC - P 01	●					[Application range diagram]											
	HC - M 01		●				[Application range diagram]											

HC = Coated carbide ●● Primary application
 HW = Uncoated carbide ● Additional application


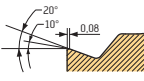
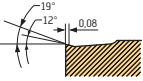

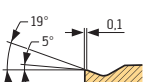
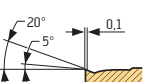

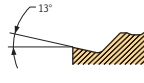
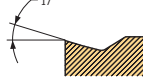

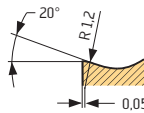
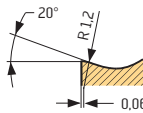

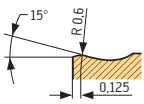
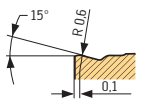

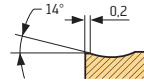
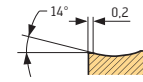

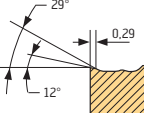
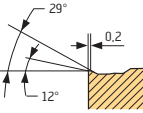

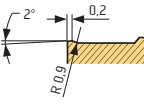
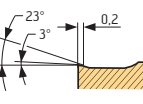

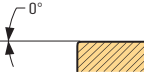
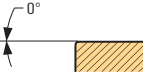
CBN/cermet/PCD/ceramic

Walter grade designation	Standard designation	Material groups							Application range							Coating method	Cutting tool material	Indexable insert example
		P Steel	M Stainless steel	K Cast iron	N NF metals	S Materials with difficult cutting properties	H Hard materials	O Other	01	05	10	15	20	25	30			
WBH10C	BL - H 05						••		[Application range diagram for WBH10C: 01-10]							PVD	CBN + TiAlSiN	
WBH10	BL - H 10						••		[Application range diagram for WBH10: 01-15]							-	CBN	
WBH20	BL - H 20						••		[Application range diagram for WBH20: 01-20]							-	CBN	
WBS10	BH - S 10					••			[Application range diagram for WBS10: 01-15]							-	CBN	
WEP10	HE - P 10	••							[Application range diagram for WEP10 HE-P: 01-15]							PVD	TiCN + TiAlN	
	HE - M 10		•						[Application range diagram for WEP10 HE-M: 01-10]									
	HE - K 10			•						[Application range diagram for WEP10 HE-K: 01-10]								
WDN10	DP - N 20				••				[Application range diagram for WDN10 DP-N: 10-20]							-	PCD	
	DP - O 20						••		[Application range diagram for WDN10 DP-O: 10-20]									
WCK10	CN - K 10			••					[Application range diagram for WCK10: 01-10]							-	Si ₃ N ₄ ceramic	
WIS10	CN - S 10					••			[Application range diagram for WIS10: 01-10]							-	SiAlON ceramic	
WWS20	CR - S 20					••			[Application range diagram for WWS20 CR-S: 10-20]							-	Whisker ceramic	
	CR - H 20						•		[Application range diagram for WWS20 CR-H: 01-10]									

BH = CBN with high CBN content
 BL = CBN with low CBN content
 CN = Silicon nitride Si₃N₄
 CR = Reinforced ceramic
 DP = Polycrystalline diamond

•• Primary application
 • Additional application


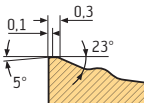
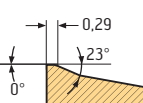
Geometry overview of turning inserts – Negative basic shape

Finishing operation		Material groups							Main cutting edge section	Corner radius section	a _p [mm]	f [mm]
Geometry	Remarks/field of applications	P	M	K	N	S	H	O				
	FM5 – Finishing stainless materials and high-temperature alloys – Finishing long-chipping steel materials – Curved cutting edge for cutting pressure reduction	•	••			••					0,1–4,5	0,03–0,50
	FV5 – Finishing steel materials – Can also be used in semi-finishing	••	•	•							0,2–2,0	0,05–0,25
Medium machining												
	MS3 – For unstable or thin-walled components – Low cutting forces thanks to sharp cutting edge design – Circumference precision-ground – Circumference precision-sintered	•	•		•	••					0,2–3,0	0,02–0,30
	MM5 – Universal geometry for stainless materials and for high-temperature alloys – Machining long-chipping steels	•	••			••					0,5–4,5	0,10–0,45
	MV5 – Universal geometry for steel materials – Wide range of applications	••	•	•							0,5–5,0	0,10–0,45
	MV7 – Universal geometry for cast iron workpieces – Machining steel materials with higher strength	•		••							0,8–8,0	0,20–0,60
Roughing operation												
	RM5 – Roughing operations in stainless materials and high-temperature alloys		••			••					1,2–8,0	0,20–0,80
	RV5 – Roughing steel materials – Roughing ductile cast iron	••		•							1,0–6,0	0,15–0,60
	RV7 – Universal geometry for cast iron workpieces			••				•			0,8–5,0	0,20–0,70

•• Primary application
• Additional application

Comment: Sectional views show CNMG120408 . . . or CNMA 120408 . . .

Roughing operations – Single-sided indexable inserts


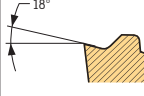
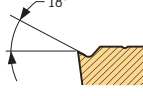
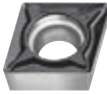
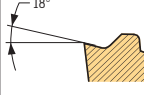
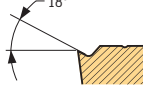

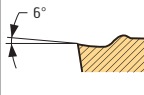
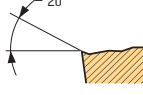
Geometry	Remarks/field of applications	Material groups							Main cutting edge section	Corner radius section	a _p [mm]	f [mm]
		P	M	K	N	S	H	O				
	<p>HU5</p> <ul style="list-style-type: none"> - Universal, single sided roughing insert - Open chip breaker groove design for reduced heat development - Low cutting forces due to curved cutting edge 	●	●●	●		●●					2,5–10,0	0,30–1,00

- Primary application
- Additional application


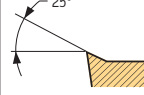
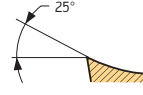

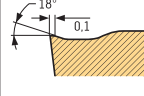
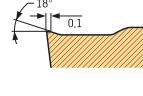
Comment: Sectional views show SNMM190616 ..

Geometry overview of turning inserts – Positive basic shape

Finishing operation

Geometry	Remarks/field of applications	Material groups							Main cutting edge section	Corner radius section	a _p [mm]	f [mm]
		P	M	K	N	S	H	O				
	FN2 – Finishing insert with circumference fully ground – Low cutting forces – Machining long, small diameter shafts with a tendency to vibrate	●●	●●	●	●●	●●					0,12–4,5	0,02–0,45
	FM2 – Finishing insert with circumference fully ground – Low cutting forces – Machining long, small diameter shafts with a tendency to vibrate	●●	●●	●	●●	●●					0,12–4,5	0,02–0,45
	FV4 – Universal finishing indexable insert – Excellent chip control – Can also be used for precision boring	●●	●	●		●					0,1–2,5	0,04–0,20

Medium machining


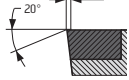
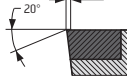

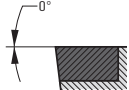
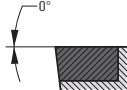

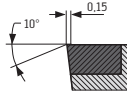
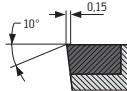

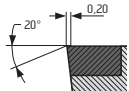
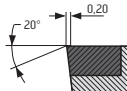

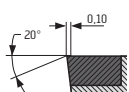
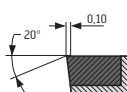

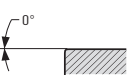
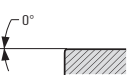

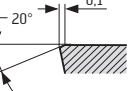
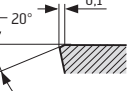

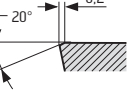
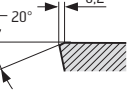
	MN2 – Universal indexable insert for non-ferrous metallic materials – Sharp cutting edge with circumference fully ground – Polished rake face – Precision finishing on steel and stainless materials	●	●		●●	●					0,5–6,0	0,02–0,80
	MV4 – Machining long-chipping materials – Can be used universally in a wide range of applications	●●	●	●		●					0,4–3,5	0,10–0,35

- Primary application
- Additional application

Comment: Sectional views show CCMT09T308 ... or CCGT09T308 ...

Geometry overview of turning inserts – Positive basic shape CBN/PCD/ceramic

Ceramic







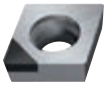

















Geometry	Remarks/field of applications	Material groups							Main cutting edge section	Corner radius section	a _p [mm]	f [mm]
		P	M	K	N	S	H	O				
 Wiper	CNG..TM-MW2 – CBN indexable insert with circumference fully ground to G tolerance – CBN indexable insert with chamfered cutting edge – Effective wiper geometry for the best surfaces										0,1–0,5	0,05–0,30
	CNG..EM2 – CBN indexable insert with circumference fully ground to G tolerance – Rounded cutting edge for minimum cutting forces – Machining high-temperature alloys									0,1–2,0	0,05–0,20	
	CNG..TS2 – CBN indexable insert with circumference fully ground to G tolerance – Universal CBN indexable insert with chamfered cutting edge – Finishing operations in hardened steel									0,1–0,5	0,05–0,25	
	CNG..TM2 – CBN indexable insert with circumference fully ground to G tolerance – Universal CBN indexable insert with chamfered cutting edge – Machining of hardened steel									0,1–0,5	0,05–0,25	
 Chipbreaker	CNG..TM-M2 – CBN indexable insert with circumference fully ground to G tolerance – CBN indexable insert with chamfered cutting edge – Effective chip formation for hard machining									0,1–0,5	0,05–0,25	
	... E – Ceramic indexable insert with circumference fully ground – Rounded cutting edge for minimum cutting forces – Machining high-temperature alloys									0,1–7,5	0,1–0,5	
	... T01020 – Ceramic indexable insert with circumference fully ground – Chamfered cutting edge for maximum stability for medium machining to roughing operations – Machining high-temperature alloys									0,1–5,0	0,1–0,45	
	... T02020 – Ceramic indexable insert with circumference fully ground – Chamfered cutting edge for maximum stability for medium machining to roughing operations – Machining cast iron									0,1–6,0	0,1–0,4	

●● Primary application
 ● Additional application

Comment: Sectional views show RNGN120700 . .
 CNGA120408 . .

Geometry overview of turning inserts – Positive basic shape

CBN/PCD/ceramic

Ceramic		Material groups							Main cutting edge section	Corner radius section	a _p [mm]	f [mm]	
Geometry	Remarks/field of applications	P	M	K	N	S	H	O					
	<ul style="list-style-type: none"> . CGT . . . FS-1 – PCD finishing insert with circumference fully ground to G tolerance – Extremely low cutting forces due to 7°–10° rake angle – Extremely high surface quality 				••	•			••			0,05–1,5	0,03–0,38
	<ul style="list-style-type: none"> . CGT . . . FS-M1 – PCD indexable insert with circumference fully ground to G tolerance – Excellent chip control thanks to laser-generated chip-breaker geometry – Finishing to medium machining 				••	•			••			0,1–3,0	0,08–0,2
	<ul style="list-style-type: none"> . CGW . . . FS-1 – PCD indexable insert with circumference fully ground to G tolerance – Universal PCD indexable insert with 0° rake angle – Maximum repeat accuracy 				••	•			••			0,05–3,5	0,03–0,38
	<ul style="list-style-type: none"> . CGW . . . FSL/R-9 – PCD indexable insert with circumference fully ground to G tolerance – Cutting edge with guide pad – Maximum depth of cut and shoulder machining 				••	•			••			0,05–9,0	0,03–0,38
	<ul style="list-style-type: none"> . CGW . . TM-MW2 – CBN indexable insert with circumference fully ground to G tolerance – Universal CBN indexable insert with chamfered cutting edge – Effective wiper geometry for the best surfaces 								••			0,1–0,5	0,05–0,30
	<ul style="list-style-type: none"> . CGW . . EM2 – CBN indexable insert with circumference fully ground – Rounded cutting edge for minimum cutting forces – Machining high-temperature alloys 					••						0,1–2,0	0,05–0,20
	<ul style="list-style-type: none"> . CGW . . TS2 – CBN indexable insert with circumference fully ground to G tolerance – Universal CBN indexable insert with chamfered cutting edge – Finishing operations in hardened steel 								••			0,1–0,5	0,05–0,25
	<ul style="list-style-type: none"> . CGW . . TM2 – CBN indexable insert with circumference fully ground to G tolerance – Universal CBN indexable insert with chamfered cutting edge – Machining of hardened steel 								••			0,1–0,5	0,05–0,25

•• Primary application
• Additional application

Comment: Sectional views show CCGT09T304 . . .
CCGW09T304 . . . or RCGX090700 . . .

Ceramic


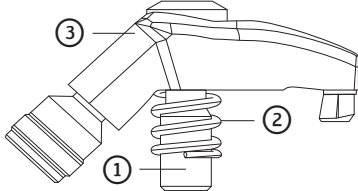

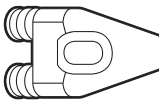

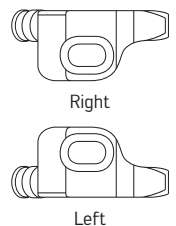





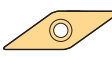

Geometry	Remarks/field of applications	Material groups							Main cutting edge section	Corner radius section	a _p [mm]	f [mm]
		P	M	K	N	S	H	O				
	<p>... E</p> <ul style="list-style-type: none"> - Ceramic indexable insert with circumference fully ground - Rounded cutting edge for minimum cutting forces - Machining high-temperature alloys 					••					0,1-3,6	0,1-0,32
	<p>... T01020</p> <ul style="list-style-type: none"> - Ceramic indexable insert with circumference fully ground - Chamfered cutting edge for maximum stability for medium to roughing operations - Machining high-temperature alloys 					••				0,1-3,6	0,1-0,32	

- Primary application
- Additional application

Comment: Sectional views show CCGT09T304 ... CCGW09T304 .. or RCGX090700 ...

Assembly parts and accessories for Walter Turn rigid clamping with precision cooling


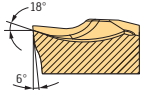


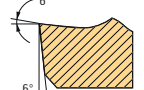

Standard clamps for tools with precision cooling

Application	 <p>for indexable inserts with drilled hole</p>							
								
Version	 					 <p>Right Left</p>		
Set	PK255 set	PK256 set	PK264 set	PK267 set	PK268 set	PK261R/L set	PK265R/L set	PK266R/L set
① Clamp screw	FS1473 (Torx 15IP)	FS1473 (Torx 15IP)	FS1474 (Torx 20IP)	FS1474 (Torx 20IP)	FS1474 (Torx 20IP)	FS1473 (Torx 15IP)	FS1473 (Torx 15IP)	FS1473 (Torx 15IP)
② Pressure spring	FS2188	FS2188	FS2298	FS2298	FS2298	FS2188	FS2188	FS2188
③ Clamp	PK255	PK256	PK264	PK267	PK268	PK261R/L	PK265R/L	PK266R/L
Type	Size							
	CN .. 12 ..		CN .. 19 ..	CN .. 16 ..		CN .. 12 ..	CN .. 12 .. ¹⁾	
	DN .. 11 ..	DN .. 15 ..				DN .. 11 .. DC .. 11 ..	DN .. 15 ..	
					RN . N12 ..			
	SN .. 12 ..					SN .. 12 ..	SN .. 12 .. ¹⁾	
	TN .. 16 .. TC .. 16T3 ..					TN .. 16 .. TC .. 16T3 ..		
	VB .. 1604 ..					VB .. 1604 ..		
	WN .. 08 ..							WN .. 08 ..

¹⁾ First choice

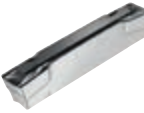
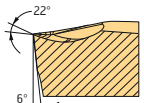


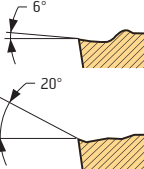

Geometry overview of cutting inserts:

GX system: Grooving and parting off

Geometry	Remarks / field of applications	Material groups							Main cutting edge section	View of main cutting edge	s [mm]	f [mm]
		P	M	K	N	S	H	O				
 <p>CK8 – Grooving and parting off operations – Light to moderate feeds – Good chip control – Low burr/centre pip formation – Polished rake face</p>		Steel	Stainless steel	Cast iron	NF metals	Materials with difficult cutting properties	Hard materials	Other			2	0,04–0,15
											2,5	0,05–0,15
											3	0,08–0,20
											4	0,10–0,22
											5	0,10–0,25
 <p>GD8 – For DIN 471 circlip grooves with the tolerance class H13 – For precision grooving – Extremely soft cutting action – Light to moderate feeds</p>		Steel	Stainless steel	Cast iron	NF metals	Materials with difficult cutting properties	Hard materials	Other			1	0,03–0,06
											1,5	0,03–0,09
											2	0,04–0,10
											2,5	0,04–0,14
											3	0,04–0,14


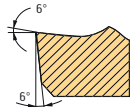


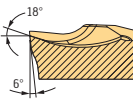


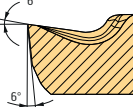


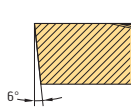

●● Primary application
 ● Additional application

GX system: Grooving, parting off and recessing

Geometry	Remarks / field of applications	Material groups							Main cutting edge section	View of main cutting edge	s [mm]	a _p [mm]	f [mm]
		P	M	K	N	S	H	O					
 <p>UF8 – All grooving operations – Excellent chip control – Low to average feed range – For DIN 471 circlip grooves with the tolerance class H13</p>		Steel	Stainless steel	Cast iron	NF metals	Materials with difficult cutting properties	Hard materials	Other			1,6	0,3–1,0	0,05–0,17
											2	0,3–1,2	0,05–0,22
											3	0,4–1,5	0,07–0,24
											4	0,3–2,2	0,07–0,30
											5	0,3–2,6	0,11–0,35
											6	0,3–3,2	0,11–0,35
 <p>VG7 – For finishing operations on the rear side of a component, particularly on multi-spindle machines – Enormous savings on material compared to standard ISO indexable inserts – Optimum chip breaking for finishing operations</p>		Steel	Stainless steel	Cast iron	NF metals	Materials with difficult cutting properties	Hard materials	Other			2,8	0,2–2,5	0,05–0,25

●● Primary application
 ● Additional application


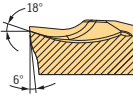

MX system: Cutting inserts for grooving and parting off

Geometry	Remarks / field of applications	Material groups							Main cutting edge section	View of main cutting edge	s [mm]	f [mm]
		P	M	K	N	S	H	O				
 <p>GD8 – For DIN 471 circlip grooves with the tolerance class H13 – For precision grooving – Extremely soft cutting action – Light to moderate feeds</p>		●●	●	●	●	●					1	0,03–0,06
		1,5	0,03–0,09									
		2	0,04–0,10									
		2,5	0,04–0,14									
		3	0,04–0,14									
 <p>CF5 – Grooving and parting off operations – Light to moderate feeds – Excellent chip control – Low burr/centre pip formation</p>		●●	●●	●	●	●●					1	0,03–0,07
		1,5	0,03–0,10									
		2	0,04–0,14									
		2,5	0,04–0,16									
 <p>RF5 – For full radius grooves – Circumference fully ground – For low to moderate feeds</p>		●●	●●	●	●	●●					2	0,04–0,14
		2,5	0,04–0,18									
		3	0,04–0,20									
 <p>AG60 – For thread turning operations where space is limited – Thread turning with the same basic holder – 60° partial profile external thread – Pitch range 0.5–3.0 mm</p>		●●	●●	●	●	●●					3,35	–
		5,65	–									

Additional shapes via Walter Xpress

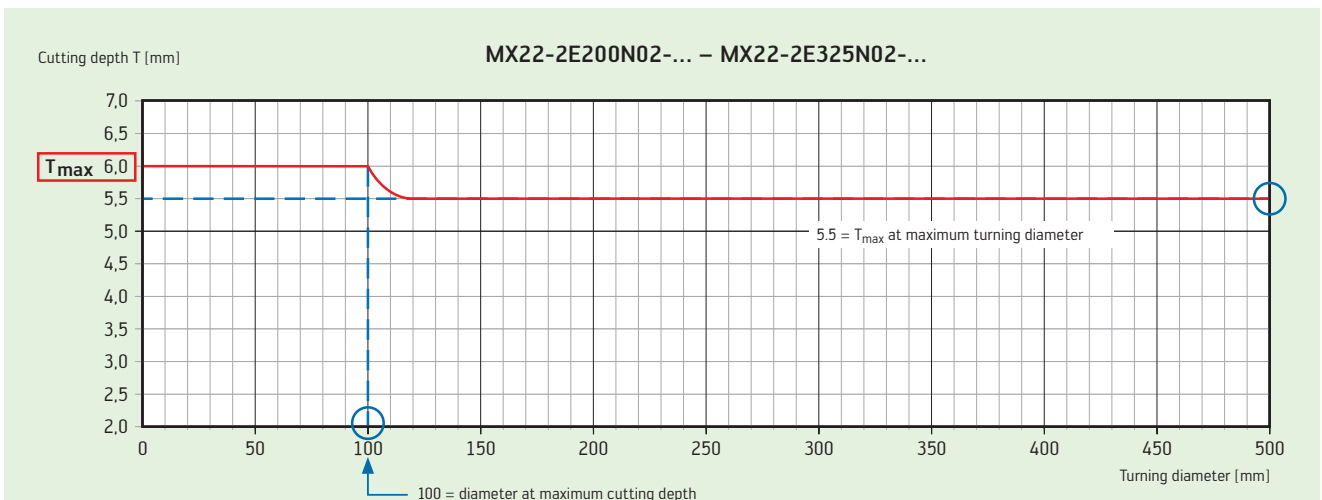
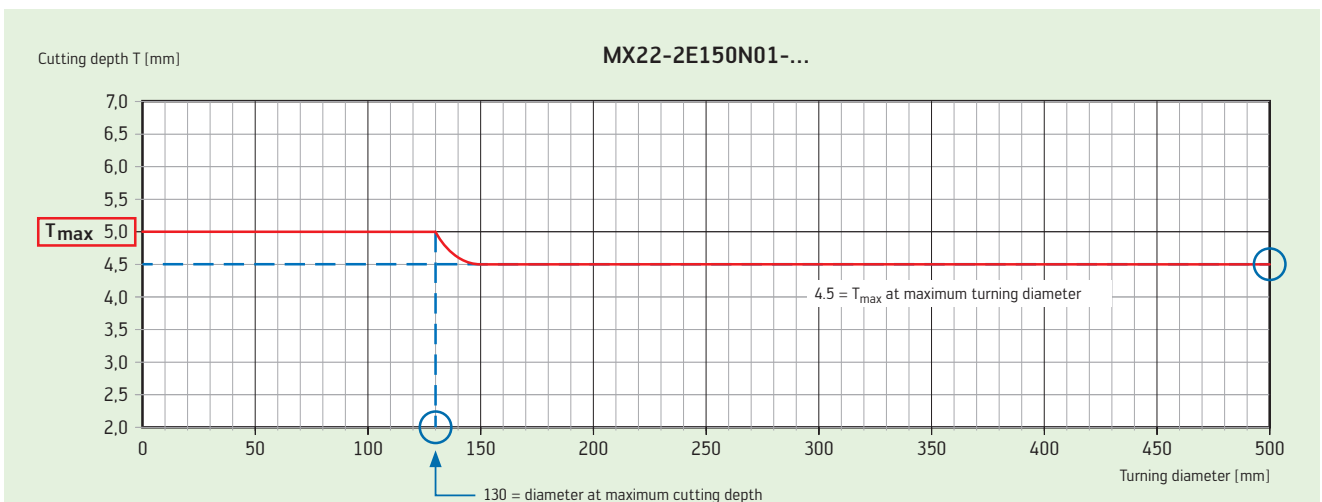
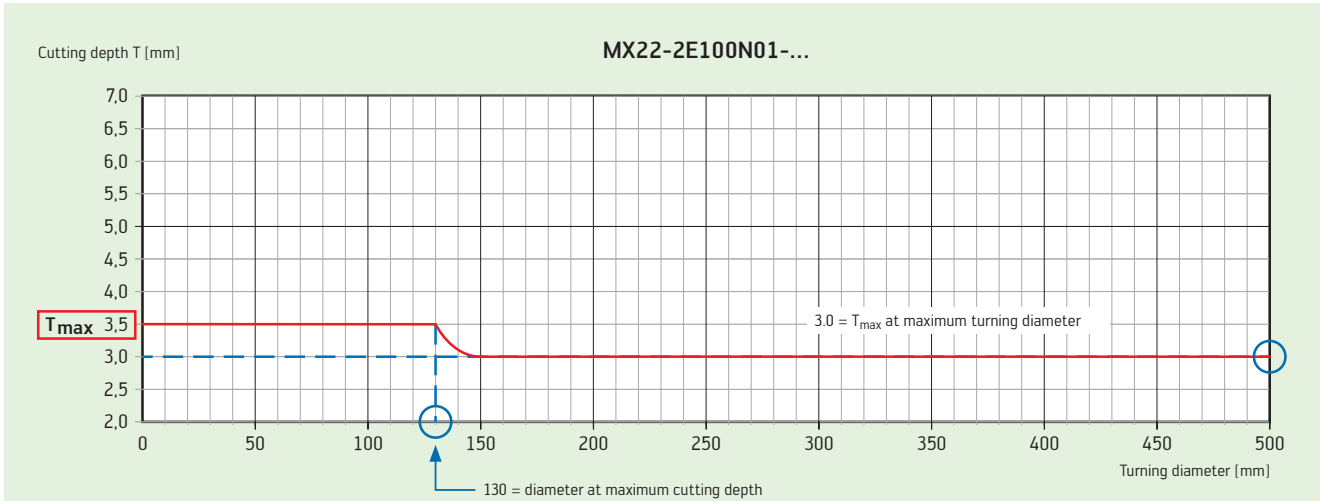
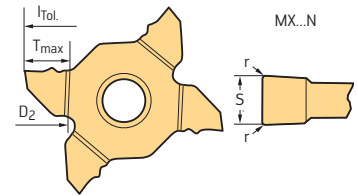
- Primary application
- Additional application

SX system: Grooving and parting off

Geometry	Remarks / field of applications	Material groups							Main cutting edge section	View of main cutting edge	s [mm]	f [mm]
		P	M	K	N	S	H	O				
 <p>CK8 – Grooving and parting off operations – Light to moderate feeds – Good chip control – Low burr/centre pip formation – Polished rake face</p>					●●	●					2	0,04–0,15
		2,5	0,05–0,15									
		3	0,08–0,20									
		4	0,10–0,22									
		5	0,10–0,25									

- Primary application
- Additional application

Application information: Cutting depths depending on turning diameter



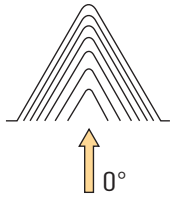
Application information: Standard values for thread turning with Walter Cut MX

Feed types and their influence on machining

Radial feed

Recommended for:

- Short-chipping materials
- Hard materials

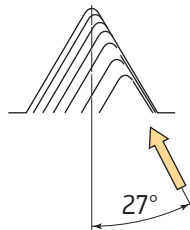


- Formation of V-shaped chips
- Both cutting edges engaged
- High cutting temperature
- Even indexable insert wear on both flanks
- Suitable for small pitches

Feed via flank 27°–29°

Recommended for:

- Pitches greater than 1.5 mm or 16 TPI
- The manufacture of trapezoidal threads

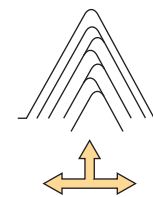


- Good chip formation
- Formation of helical chips
- One cutting edge engaged
- Chips are guided away from the thread
- Thread flanks with excellent surface quality

Alternating feed

Recommended for:

- Steep pitches
- Long-chipping materials



- Good chip formation
- Formation of flat helical chips
- Both cutting edges are evenly engaged, ensuring even wear

Standard values for the number of radial infeeds for each thread turning pass on manual lathes

The recommended cutting passes are only to be regarded as standard values. They were determined under good operating conditions with medium-strength steel materials. In the case of high-strength steel materials, the number of feeds must be increased. It is important to reduce the initial threading cuts in this case.

External machining, metric 60°

No. of feeds	Pitch [mm]											
	0,5	0,6	0,7	0,75	0,8	1,0	1,25	1,5	1,75	2,0	2,5	3,0
Total depth [mm]	0,64	0,68	0,87	0,91	1,07	1,12	1,23	1,42	1,54	1,69	1,87	2,09
16												
15												
14												
13												
12												0,08
11												0,10
10											0,08	0,11
9											0,11	0,12
8									0,08	0,08	0,11	0,12
7									0,10	0,11	0,12	0,13
6							0,08	0,08	0,10	0,12	0,13	0,14
5						0,08	0,10	0,12	0,12	0,14	0,15	0,16
4	0,07	0,07	0,07	0,07	0,08	0,11	0,11	0,14	0,14	0,16	0,17	0,18
3	0,07	0,08	0,10	0,11	0,12	0,13	0,14	0,17	0,17	0,18	0,20	0,21
2	0,09	0,11	0,14	0,15	0,16	0,16	0,17	0,21	0,21	0,24	0,24	0,26
1	0,11	0,14	0,16	0,17	0,18	0,19	0,20	0,22	0,22	0,25	0,27	0,28

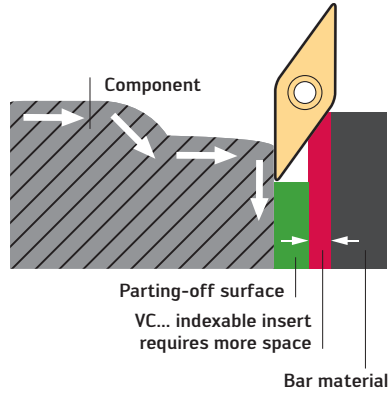
Radial infeed [mm]

Reduce the cutting speed

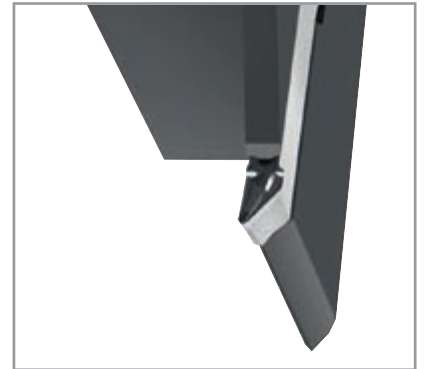
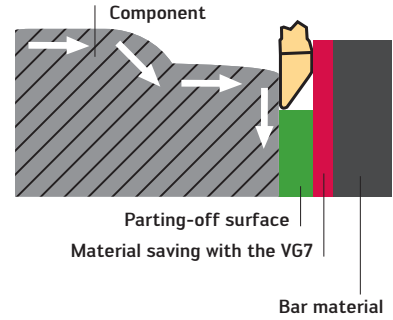
Application information: Reverse turning with Walter Cut GX-VG7

Walter Cut GX-VG7
Area of application for reverse turning
Instead of using a VC.. finishing insert

Example of a VC... indexable insert (35°)



GX24-2E280R02-VG7 WSM33S



Cutting inserts can be used in G15.../NCCE/NCNE/NCCI tools
With other tools, e.g. G1011, adapt support to the cutting insert profile.

Solid drilling – B1

Solid carbide drilling and reaming tools	Product range overview	150
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Technical information – B1

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Counterboring and precision boring – B2

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	Indexable inserts for counterboring and precision boring tools	289
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Cartridges	Product range overview	338
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Technical information – B2

Counterboring and precision boring tools	Cutting data	348
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Product range overview of solid carbide drilling and reaming tools

Solid carbide drills with internal coolant

Machining							
Drilling depth	3 × D _c	3 × D _c		5 × D _c		8 × D _c	12 × D _c
Designation	DC260 Advance	DC160 Advance	DC150 Perform	DC160 Advance	DC150 Perform	DC160 Advance	DC160 Advance
Standard	Walter	DIN 6537 K	DIN 6537 K	DIN 6537 L	DIN 6537 L	Walter	Walter
Dia. range [mm]	3,3–14	3–20	3–20	3–25	3–20	3–20	3–20
Page	152	153	160	161	169	172	175

Product range overview of solid carbide drilling and reaming tools

Solid carbide drills without internal coolant

Machining						
Drilling depth	3 × D _c	3 × D _c		5 × D _c		
Designation	DC260 Advance	DC160 Advance	DC150 Perform	DB130 Advance	DC160 Advance	DC150 Perform
Standard	Walter	DIN 6537 K	DIN 6537 K	DIN 1899	DIN 6537 L	DIN 6537 L
Dia. range [mm]	3,3–14,5	3–20	3–20	0,1–1,45	3–25	3–20
Page	178	179	186	188	190	197

Designation key for Walter Titex solid drills

D	C	1	70	-	16	-	03.000	A	1	-	W	J	30	EJ
1	2	3	4	5	6		7	8	9		Grade			

1	2	3	4	5
Tool group	Generation	Tool type	Tool type	1. Delimiters
D Drilling		1 Cylindrical drill 2 Chamfer drills	10 Type N Perform 33 Supreme micro drill 30 Advance micro drill 50 Universal Perform 60 Universal Advance 70 ISO P; ISO K Supreme	- Metric . Inch

6	7	8	9
Drilling depth	Cutting diameter	Shank type	Cooling
03 $\approx 3 \times D_c$ in accordance with DIN 6537 short 05 $\approx 5 \times D_c$ in accordance with DIN 6537 long or in accordance with Walter standard 08 $\approx 8 \times D_c$ in accordance with Walter standard in accordance with DIN 338 12 $\approx 12 \times D_c$ in accordance with Walter standard 16 $\approx 16 \times D_c$ in accordance with Walter standard 20 $\approx 20 \times D_c$ in accordance with Walter standard 25 $\approx 25 \times D_c$ in accordance with Walter standard 30 $\approx 30 \times D_c$ in accordance with Walter standard		A DIN 6535 HA parallel shank F DIN 6535 HE parallel shank U Parallel shank D Parallel shank DIN 6535 HB/ DIN 6535 HE	0 External coolant 1 Axial internal coolant

Grade designation key for solid carbide and HSS cutting tool materials

W	J	30	EJ
Walter	1	2	3

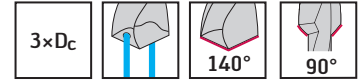
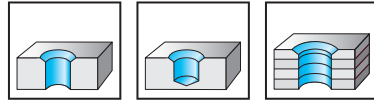
1	2	3
Substrate	Application range	Coating
Solid carbide J HSS Z		EJ TiAlN (AlCrN) RE TiAlN TA TiAlN EL AlCrN ER AlCrN point coating UU Uncoated ET TiSiAlCrN/AlTiN EU TiSiAlCrN/AlTiN point coating AJ TiN point coating

B1

Solid carbide chamfer drills with coolant-through DC260 Advance



- Step length in accordance with DIN 8378
- For threaded core hole drilling



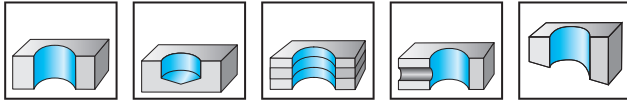
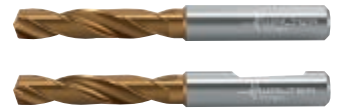
	P	M	K	N	S	H	O
WJ30ET	●	●	●	●	●	●	●

B1

	Designation	For thread	D _c m7 mm	d ₁₀ h7 mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA 	DC260-03-03.300A1-	M 4	3,3	5	11	66	28	36	6	●
	DC260-03-04.200A1-	M 5	4,2	6	14	66	28	36	6	●
	DC260-03-05.000A1-	M 6	5	8	17	79	41	36	8	●
	DC260-03-06.800A1-	M 8	6,8	10	21	89	47	40	10	●
	DC260-03-08.500A1-	M 10	8,5	12	26	102	55	45	12	●
	DC260-03-10.200A1-	M 12	10,2	14	30	107	60	45	14	●
	DC260-03-12.000A1-	M 14	12	16	35	115	65	48	16	●
Shank DIN 6535 HE 	DC260-03-03.300F1-	M 4	3,3	5	11	66	28	36	6	●
	DC260-03-04.200F1-	M 5	4,2	6	14	66	28	36	6	●
	DC260-03-05.000F1-	M 6	5	8	17	79	41	36	8	●
	DC260-03-06.800F1-	M 8	6,8	10	21	89	47	40	10	●
	DC260-03-08.500F1-	M 10	8,5	12	26	102	55	45	12	●
	DC260-03-10.200F1-	M 12	10,2	14	30	107	60	45	14	●
	DC260-03-12.000F1-	M 14	12	16	35	115	65	48	16	●
	DC260-03-14.000F1-	M 16	14	18	39	123	73	48	18	●

Ordering example for the WJ30ET grade: DC260-03-03.300A1-WJ30ET

Solid carbide drills with coolant-through DC160 Advance



Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
DC160-03-03.000A1-	3		14	62	20	36	6	●
DC160-03-03.100A1-	3,1		14	62	20	36	6	●
DC160-03-03.175A1-	3,175	1/8"	14	62	20	36	6	●
DC160-03-03.200A1-	3,2		14	62	20	36	6	●
DC160-03-03.250A1-	3,25		14	62	20	36	6	●
DC160-03-03.300A1-	3,3		14	62	20	36	6	●
DC160-03-03.400A1-	3,4		14	62	20	36	6	●
DC160-03-03.500A1-	3,5		14	62	20	36	6	●
DC160-03-03.572A1-	3,572	9/64"	14	62	20	36	6	●
DC160-03-03.600A1-	3,6		14	62	20	36	6	●
DC160-03-03.650A1-	3,65		14	62	20	36	6	●
DC160-03-03.700A1-	3,7		14	62	20	36	6	●
DC160-03-03.800A1-	3,8		17	66	24	36	6	●
DC160-03-03.900A1-	3,9		17	66	24	36	6	●
DC160-03-03.969A1-	3,969	5/32"	17	66	24	36	6	●
DC160-03-04.000A1-	4		17	66	24	36	6	●
DC160-03-04.100A1-	4,1		17	66	24	36	6	●
DC160-03-04.200A1-	4,2		17	66	24	36	6	●
DC160-03-04.300A1-	4,3		17	66	24	36	6	●
DC160-03-04.366A1-	4,366	11/64"	17	66	24	36	6	●
DC160-03-04.400A1-	4,4		17	66	24	36	6	●
DC160-03-04.500A1-	4,5		17	66	24	36	6	●
DC160-03-04.600A1-	4,6		17	66	24	36	6	●
DC160-03-04.650A1-	4,65		17	66	24	36	6	●
DC160-03-04.700A1-	4,7		17	66	24	36	6	●
DC160-03-04.763A1-	4,763	3/16"	20	66	28	36	6	●
DC160-03-04.800A1-	4,8		20	66	28	36	6	●
DC160-03-04.900A1-	4,9		20	66	28	36	6	●
DC160-03-05.000A1-	5		20	66	28	36	6	●
DC160-03-05.100A1-	5,1		20	66	28	36	6	●
DC160-03-05.159A1-	5,159	13/64"	20	66	28	36	6	●
DC160-03-05.200A1-	5,2		20	66	28	36	6	●
DC160-03-05.300A1-	5,3		20	66	28	36	6	●
DC160-03-05.400A1-	5,4		20	66	28	36	6	●
DC160-03-05.500A1-	5,5		20	66	28	36	6	●
DC160-03-05.550A1-	5,55		20	66	28	36	6	●
DC160-03-05.556A1-	5,556	7/32"	20	66	28	36	6	●
DC160-03-05.600A1-	5,6		20	66	28	36	6	●
DC160-03-05.700A1-	5,7		20	66	28	36	6	●
DC160-03-05.800A1-	5,8		20	66	28	36	6	●
DC160-03-05.900A1-	5,9		20	66	28	36	6	●
DC160-03-05.953A1-	5,953	15/64"	20	66	28	36	6	●
DC160-03-06.000A1-	6		20	66	28	36	6	●

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

B1

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
Shank DIN 6535 HA 	DC160-03-06.100A1-	6,1		24	79	34	36	8	☺
	DC160-03-06.200A1-	6,2		24	79	34	36	8	☺
	DC160-03-06.300A1-	6,3		24	79	34	36	8	☺
	DC160-03-06.350A1-	6,35	1/4"	24	79	34	36	8	☺
	DC160-03-06.400A1-	6,4		24	79	34	36	8	☺
	DC160-03-06.500A1-	6,5		24	79	34	36	8	☺
	DC160-03-06.600A1-	6,6		24	79	34	36	8	☺
	DC160-03-06.700A1-	6,7		24	79	34	36	8	☺
	DC160-03-06.747A1-	6,747	17/64"	24	79	34	36	8	☺
	DC160-03-06.800A1-	6,8		24	79	34	36	8	☺
	DC160-03-06.900A1-	6,9		24	79	34	36	8	☺
	DC160-03-07.000A1-	7		24	79	34	36	8	☺
	DC160-03-07.100A1-	7,1		29	79	41	36	8	☺
	DC160-03-07.144A1-	7,144	9/32"	29	79	41	36	8	☺
	DC160-03-07.200A1-	7,2		29	79	41	36	8	☺
	DC160-03-07.300A1-	7,3		29	79	41	36	8	☺
	DC160-03-07.400A1-	7,4		29	79	41	36	8	☺
	DC160-03-07.500A1-	7,5		29	79	41	36	8	☺
	DC160-03-07.541A1-	7,541	19/64"	29	79	41	36	8	☺
	DC160-03-07.550A1-	7,55		29	79	41	36	8	☺
	DC160-03-07.600A1-	7,6		29	79	41	36	8	☺
	DC160-03-07.700A1-	7,7		29	79	41	36	8	☺
	DC160-03-07.800A1-	7,8		29	79	41	36	8	☺
	DC160-03-07.900A1-	7,9		29	79	41	36	8	☺
	DC160-03-07.938A1-	7,938	5/16"	29	79	41	36	8	☺
	DC160-03-08.000A1-	8		29	79	41	36	8	☺
	DC160-03-08.100A1-	8,1		35	89	47	40	10	☺
	DC160-03-08.200A1-	8,2		35	89	47	40	10	☺
	DC160-03-08.300A1-	8,3		35	89	47	40	10	☺
	DC160-03-08.334A1-	8,334	21/64"	35	89	47	40	10	☺
	DC160-03-08.400A1-	8,4		35	89	47	40	10	☺
	DC160-03-08.500A1-	8,5		35	89	47	40	10	☺
	DC160-03-08.600A1-	8,6		35	89	47	40	10	☺
	DC160-03-08.700A1-	8,7		35	89	47	40	10	☺
	DC160-03-08.731A1-	8,731	11/32"	35	89	47	40	10	☺
	DC160-03-08.800A1-	8,8		35	89	47	40	10	☺
	DC160-03-08.900A1-	8,9		35	89	47	40	10	☺
DC160-03-09.000A1-	9		35	89	47	40	10	☺	
DC160-03-09.100A1-	9,1		35	89	47	40	10	☺	
DC160-03-09.128A1-	9,128	23/64"	35	89	47	40	10	☺	
DC160-03-09.200A1-	9,2		35	89	47	40	10	☺	
DC160-03-09.300A1-	9,3		35	89	47	40	10	☺	
DC160-03-09.400A1-	9,4		35	89	47	40	10	☺	
DC160-03-09.500A1-	9,5		35	89	47	40	10	☺	
DC160-03-09.525A1-	9,525	3/8"	35	89	47	40	10	☺	
DC160-03-09.550A1-	9,55		35	89	47	40	10	☺	
DC160-03-09.600A1-	9,6		35	89	47	40	10	☺	
DC160-03-09.700A1-	9,7		35	89	47	40	10	☺	
DC160-03-09.800A1-	9,8		35	89	47	40	10	☺	
DC160-03-09.900A1-	9,9		35	89	47	40	10	☺	
DC160-03-09.922A1-	9,922	25/64"	35	89	47	40	10	☺	
DC160-03-10.000A1-	10		35	89	47	40	10	☺	
DC160-03-10.100A1-	10,1		40	102	55	45	12	☺	
DC160-03-10.200A1-	10,2		40	102	55	45	12	☺	
DC160-03-10.300A1-	10,3		40	102	55	45	12	☺	
DC160-03-10.319A1-	10,319	13/32"	40	102	55	45	12	☺	
DC160-03-10.400A1-	10,4		40	102	55	45	12	☺	
DC160-03-10.500A1-	10,5		40	102	55	45	12	☺	
DC160-03-10.600A1-	10,6		40	102	55	45	12	☺	
DC160-03-10.700A1-	10,7		40	102	55	45	12	☺	
DC160-03-10.716A1-	10,716	27/64"	40	102	55	45	12	☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued

/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
	DC160-03-10.800A1-	10,8		40	102	55	45	12	
	DC160-03-10.900A1-	10,9		40	102	55	45	12	
	DC160-03-11.000A1-	11		40	102	55	45	12	
	DC160-03-11.100A1-	11,1		40	102	55	45	12	
	DC160-03-11.113A1-	11,113	7/16"	40	102	55	45	12	
	DC160-03-11.200A1-	11,2		40	102	55	45	12	
	DC160-03-11.300A1-	11,3		40	102	55	45	12	
	DC160-03-11.400A1-	11,4		40	102	55	45	12	
	DC160-03-11.500A1-	11,5		40	102	55	45	12	
	DC160-03-11.509A1-	11,509	29/64"	40	102	55	45	12	
	DC160-03-11.550A1-	11,55		40	102	55	45	12	
	DC160-03-11.600A1-	11,6		40	102	55	45	12	
	DC160-03-11.700A1-	11,7		40	102	55	45	12	
	DC160-03-11.800A1-	11,8		40	102	55	45	12	
	DC160-03-11.900A1-	11,9		40	102	55	45	12	
	DC160-03-11.906A1-	11,906	15/32"	40	102	55	45	12	
	DC160-03-12.000A1-	12		40	102	55	45	12	
	DC160-03-12.100A1-	12,1		43	107	60	45	14	
	DC160-03-12.200A1-	12,2		43	107	60	45	14	
	DC160-03-12.250A1-	12,25		43	107	60	45	14	
	DC160-03-12.300A1-	12,3		43	107	60	45	14	
	DC160-03-12.303A1-	12,303	31/64"	43	107	60	45	14	
	DC160-03-12.400A1-	12,4		43	107	60	45	14	
	DC160-03-12.500A1-	12,5		43	107	60	45	14	
	DC160-03-12.600A1-	12,6		43	107	60	45	14	
	DC160-03-12.700A1-	12,7	1/2"	43	107	60	45	14	
	DC160-03-12.750A1-	12,75		43	107	60	45	14	
	DC160-03-12.800A1-	12,8		43	107	60	45	14	
	DC160-03-12.900A1-	12,9		43	107	60	45	14	
	DC160-03-13.000A1-	13		43	107	60	45	14	
	DC160-03-13.100A1-	13,1		43	107	60	45	14	
	DC160-03-13.200A1-	13,2		43	107	60	45	14	
	DC160-03-13.300A1-	13,3		43	107	60	45	14	
	DC160-03-13.400A1-	13,4		43	107	60	45	14	
	DC160-03-13.494A1-	13,494	17/32"	43	107	60	45	14	
DC160-03-13.500A1-	13,5		43	107	60	45	14		
DC160-03-13.600A1-	13,6		43	107	60	45	14		
DC160-03-13.700A1-	13,7		43	107	60	45	14		
DC160-03-13.800A1-	13,8		43	107	60	45	14		
DC160-03-13.900A1-	13,9		43	107	60	45	14		
DC160-03-14.000A1-	14		43	107	60	45	14		
DC160-03-14.100A1-	14,1		45	115	65	48	16		
DC160-03-14.200A1-	14,2		45	115	65	48	16		
DC160-03-14.288A1-	14,288	9/16"	45	115	65	48	16		
DC160-03-14.300A1-	14,3		45	115	65	48	16		
DC160-03-14.400A1-	14,4		45	115	65	48	16		
DC160-03-14.500A1-	14,5		45	115	65	48	16		
DC160-03-14.600A1-	14,6		45	115	65	48	16		
DC160-03-14.700A1-	14,7		45	115	65	48	16		
DC160-03-14.750A1-	14,75		45	115	65	48	16		
DC160-03-14.800A1-	14,8		45	115	65	48	16		
DC160-03-15.000A1-	15		45	115	65	48	16		
DC160-03-15.100A1-	15,1		45	115	65	48	16		
DC160-03-15.200A1-	15,2		45	115	65	48	16		
DC160-03-15.300A1-	15,3		45	115	65	48	16		
DC160-03-15.500A1-	15,5		45	115	65	48	16		
DC160-03-15.600A1-	15,6		45	115	65	48	16		

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

•• Primary application

• Other application

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
	Shank DIN 6535 HA								
	DC160-03-15.700A1-	15,7		45	115	65	48	16	☺☺☺
	DC160-03-15.800A1-	15,8		45	115	65	48	16	☺☺☺
	DC160-03-15.875A1-	15,875	5/8"	45	115	65	48	16	☺☺☺
	DC160-03-15.900A1-	15,9		45	115	65	48	16	☺☺☺
	DC160-03-16.000A1-	16		45	115	65	48	16	☺☺☺
	DC160-03-16.100A1-	16,1		51	123	73	48	18	☺☺☺
	DC160-03-16.200A1-	16,2		51	123	73	48	18	☺☺☺
	DC160-03-16.300A1-	16,3		51	123	73	48	18	☺☺☺
	DC160-03-16.400A1-	16,4		51	123	73	48	18	☺☺☺
	DC160-03-16.500A1-	16,5		51	123	73	48	18	☺☺☺
	DC160-03-16.600A1-	16,6		51	123	73	48	18	☺☺☺
	DC160-03-16.700A1-	16,7		51	123	73	48	18	☺☺☺
	DC160-03-16.750A1-	16,75		51	123	73	48	18	☺☺☺
	DC160-03-16.800A1-	16,8		51	123	73	48	18	☺☺☺
	DC160-03-17.000A1-	17		51	123	73	48	18	☺☺☺
	DC160-03-17.200A1-	17,2		51	123	73	48	18	☺☺☺
	DC160-03-17.300A1-	17,3		51	123	73	48	18	☺☺☺
	DC160-03-17.500A1-	17,5		51	123	73	48	18	☺☺☺
	DC160-03-17.600A1-	17,6		51	123	73	48	18	☺☺☺
DC160-03-17.700A1-	17,7		51	123	73	48	18	☺☺☺	
DC160-03-17.800A1-	17,8		51	123	73	48	18	☺☺☺	
DC160-03-18.000A1-	18		51	123	73	48	18	☺☺☺	
DC160-03-18.200A1-	18,2		55	131	79	50	20	☺☺☺	
DC160-03-18.500A1-	18,5		55	131	79	50	20	☺☺☺	
DC160-03-18.700A1-	18,7		55	131	79	50	20	☺☺☺	
DC160-03-18.800A1-	18,8		55	131	79	50	20	☺☺☺	
DC160-03-19.000A1-	19		55	131	79	50	20	☺☺☺	
DC160-03-19.050A1-	19,05	3/4"	55	131	79	50	20	☺☺☺	
DC160-03-19.500A1-	19,5		55	131	79	50	20	☺☺☺	
DC160-03-19.700A1-	19,7		55	131	79	50	20	☺☺☺	
DC160-03-19.800A1-	19,8		55	131	79	50	20	☺☺☺	
DC160-03-20.000A1-	20		55	131	79	50	20	☺☺☺	
	Shank DIN 6535 HE								
	DC160-03-03.000F1-	3		14	62	20	36	6	☺☺☺
	DC160-03-03.100F1-	3,1		14	62	20	36	6	☺☺☺
	DC160-03-03.200F1-	3,2		14	62	20	36	6	☺☺☺
	DC160-03-03.250F1-	3,25		14	62	20	36	6	☺☺☺
	DC160-03-03.300F1-	3,3		14	62	20	36	6	☺☺☺
	DC160-03-03.400F1-	3,4		14	62	20	36	6	☺☺☺
	DC160-03-03.500F1-	3,5		14	62	20	36	6	☺☺☺
	DC160-03-03.600F1-	3,6		14	62	20	36	6	☺☺☺
	DC160-03-03.650F1-	3,65		14	62	20	36	6	☺☺☺
	DC160-03-03.700F1-	3,7		14	62	20	36	6	☺☺☺
	DC160-03-03.800F1-	3,8		17	66	24	36	6	☺☺☺
	DC160-03-03.900F1-	3,9		17	66	24	36	6	☺☺☺
	DC160-03-04.000F1-	4		17	66	24	36	6	☺☺☺
	DC160-03-04.100F1-	4,1		17	66	24	36	6	☺☺☺
	DC160-03-04.200F1-	4,2		17	66	24	36	6	☺☺☺
	DC160-03-04.300F1-	4,3		17	66	24	36	6	☺☺☺
	DC160-03-04.400F1-	4,4		17	66	24	36	6	☺☺☺
	DC160-03-04.500F1-	4,5		17	66	24	36	6	☺☺☺
	DC160-03-04.600F1-	4,6		17	66	24	36	6	☺☺☺
	DC160-03-04.650F1-	4,65		17	66	24	36	6	☺☺☺
	DC160-03-04.700F1-	4,7		17	66	24	36	6	☺☺☺
	DC160-03-04.800F1-	4,8		20	66	28	36	6	☺☺☺
	DC160-03-04.900F1-	4,9		20	66	28	36	6	☺☺☺
	DC160-03-05.000F1-	5		20	66	28	36	6	☺☺☺
	DC160-03-05.100F1-	5,1		20	66	28	36	6	☺☺☺
	DC160-03-05.200F1-	5,2		20	66	28	36	6	☺☺☺
DC160-03-05.300F1-	5,3		20	66	28	36	6	☺☺☺	
DC160-03-05.400F1-	5,4		20	66	28	36	6	☺☺☺	
DC160-03-05.500F1-	5,5		20	66	28	36	6	☺☺☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued

/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
	DC160-03-05.550F1-	5,55		20	66	28	36	6	☺☺
	DC160-03-05.600F1-	5,6		20	66	28	36	6	☺☺
	DC160-03-05.700F1-	5,7		20	66	28	36	6	☺☺
	DC160-03-05.800F1-	5,8		20	66	28	36	6	☺☺
	DC160-03-05.900F1-	5,9		20	66	28	36	6	☺☺
	DC160-03-06.000F1-	6		20	66	28	36	6	☺☺
	DC160-03-06.100F1-	6,1		24	79	34	36	8	☺☺
	DC160-03-06.200F1-	6,2		24	79	34	36	8	☺☺
	DC160-03-06.300F1-	6,3		24	79	34	36	8	☺☺
	DC160-03-06.400F1-	6,4		24	79	34	36	8	☺☺
	DC160-03-06.500F1-	6,5		24	79	34	36	8	☺☺
	DC160-03-06.600F1-	6,6		24	79	34	36	8	☺☺
	DC160-03-06.700F1-	6,7		24	79	34	36	8	☺☺
	DC160-03-06.800F1-	6,8		24	79	34	36	8	☺☺
	DC160-03-06.900F1-	6,9		24	79	34	36	8	☺☺
	DC160-03-07.000F1-	7		24	79	34	36	8	☺☺
	DC160-03-07.100F1-	7,1		29	79	41	36	8	☺☺
	DC160-03-07.200F1-	7,2		29	79	41	36	8	☺☺
	DC160-03-07.300F1-	7,3		29	79	41	36	8	☺☺
	DC160-03-07.400F1-	7,4		29	79	41	36	8	☺☺
	DC160-03-07.500F1-	7,5		29	79	41	36	8	☺☺
	DC160-03-07.550F1-	7,55		29	79	41	36	8	☺☺
	DC160-03-07.600F1-	7,6		29	79	41	36	8	☺☺
	DC160-03-07.700F1-	7,7		29	79	41	36	8	☺☺
	DC160-03-07.800F1-	7,8		29	79	41	36	8	☺☺
	DC160-03-07.900F1-	7,9		29	79	41	36	8	☺☺
	DC160-03-08.000F1-	8		29	79	41	36	8	☺☺
	DC160-03-08.100F1-	8,1		35	89	47	40	10	☺☺
	DC160-03-08.200F1-	8,2		35	89	47	40	10	☺☺
	DC160-03-08.300F1-	8,3		35	89	47	40	10	☺☺
	DC160-03-08.400F1-	8,4		35	89	47	40	10	☺☺
	DC160-03-08.500F1-	8,5		35	89	47	40	10	☺☺
	DC160-03-08.600F1-	8,6		35	89	47	40	10	☺☺
	DC160-03-08.700F1-	8,7		35	89	47	40	10	☺☺
	DC160-03-08.800F1-	8,8		35	89	47	40	10	☺☺
	DC160-03-08.900F1-	8,9		35	89	47	40	10	☺☺
DC160-03-09.000F1-	9		35	89	47	40	10	☺☺	
DC160-03-09.100F1-	9,1		35	89	47	40	10	☺☺	
DC160-03-09.200F1-	9,2		35	89	47	40	10	☺☺	
DC160-03-09.300F1-	9,3		35	89	47	40	10	☺☺	
DC160-03-09.400F1-	9,4		35	89	47	40	10	☺☺	
DC160-03-09.500F1-	9,5		35	89	47	40	10	☺☺	
DC160-03-09.550F1-	9,55		35	89	47	40	10	☺☺	
DC160-03-09.600F1-	9,6		35	89	47	40	10	☺☺	
DC160-03-09.700F1-	9,7		35	89	47	40	10	☺☺	
DC160-03-09.800F1-	9,8		35	89	47	40	10	☺☺	
DC160-03-09.900F1-	9,9		35	89	47	40	10	☺☺	
DC160-03-10.000F1-	10		35	89	47	40	10	☺☺	
DC160-03-10.100F1-	10,1		40	102	55	45	12	☺☺	
DC160-03-10.200F1-	10,2		40	102	55	45	12	☺☺	
DC160-03-10.300F1-	10,3		40	102	55	45	12	☺☺	
DC160-03-10.400F1-	10,4		40	102	55	45	12	☺☺	
DC160-03-10.500F1-	10,5		40	102	55	45	12	☺☺	
DC160-03-10.600F1-	10,6		40	102	55	45	12	☺☺	
DC160-03-10.700F1-	10,7		40	102	55	45	12	☺☺	
DC160-03-10.800F1-	10,8		40	102	55	45	12	☺☺	
DC160-03-10.900F1-	10,9		40	102	55	45	12	☺☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹☹
Poor

machining conditions

•• Primary application

• Other application

B1

Continued

		D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
	Designation								
	DC160-03-11.000F1-	11		40	102	55	45	12	
	DC160-03-11.100F1-	11,1		40	102	55	45	12	
	DC160-03-11.200F1-	11,2		40	102	55	45	12	
	DC160-03-11.300F1-	11,3		40	102	55	45	12	
	DC160-03-11.400F1-	11,4		40	102	55	45	12	
	DC160-03-11.500F1-	11,5		40	102	55	45	12	
	DC160-03-11.550F1-	11,55		40	102	55	45	12	
	DC160-03-11.600F1-	11,6		40	102	55	45	12	
	DC160-03-11.700F1-	11,7		40	102	55	45	12	
	DC160-03-11.800F1-	11,8		40	102	55	45	12	
	DC160-03-11.900F1-	11,9		40	102	55	45	12	
	DC160-03-12.000F1-	12		40	102	55	45	12	
	DC160-03-12.100F1-	12,1		43	107	60	45	14	
	DC160-03-12.200F1-	12,2		43	107	60	45	14	
	DC160-03-12.250F1-	12,25		43	107	60	45	14	
	DC160-03-12.300F1-	12,3		43	107	60	45	14	
	DC160-03-12.400F1-	12,4		43	107	60	45	14	
	DC160-03-12.500F1-	12,5		43	107	60	45	14	
	DC160-03-12.600F1-	12,6		43	107	60	45	14	
	DC160-03-12.700F1-	12,7	1/2"	43	107	60	45	14	
	DC160-03-12.750F1-	12,75		43	107	60	45	14	
	DC160-03-12.800F1-	12,8		43	107	60	45	14	
	DC160-03-12.900F1-	12,9		43	107	60	45	14	
	DC160-03-13.000F1-	13		43	107	60	45	14	
	DC160-03-13.100F1-	13,1		43	107	60	45	14	
	DC160-03-13.200F1-	13,2		43	107	60	45	14	
	DC160-03-13.300F1-	13,3		43	107	60	45	14	
	DC160-03-13.400F1-	13,4		43	107	60	45	14	
	DC160-03-13.500F1-	13,5		43	107	60	45	14	
	DC160-03-13.600F1-	13,6		43	107	60	45	14	
	DC160-03-13.700F1-	13,7		43	107	60	45	14	
	DC160-03-13.800F1-	13,8		43	107	60	45	14	
	DC160-03-13.900F1-	13,9		43	107	60	45	14	
DC160-03-14.000F1-	14		43	107	60	45	14		
DC160-03-14.100F1-	14,1		45	115	65	48	16		
DC160-03-14.200F1-	14,2		45	115	65	48	16		
DC160-03-14.300F1-	14,3		45	115	65	48	16		
DC160-03-14.400F1-	14,4		45	115	65	48	16		
DC160-03-14.500F1-	14,5		45	115	65	48	16		
DC160-03-14.600F1-	14,6		45	115	65	48	16		
DC160-03-14.700F1-	14,7		45	115	65	48	16		
DC160-03-14.750F1-	14,75		45	115	65	48	16		
DC160-03-14.800F1-	14,8		45	115	65	48	16		
DC160-03-15.000F1-	15		45	115	65	48	16		
DC160-03-15.100F1-	15,1		45	115	65	48	16		
DC160-03-15.200F1-	15,2		45	115	65	48	16		
DC160-03-15.300F1-	15,3		45	115	65	48	16		
DC160-03-15.500F1-	15,5		45	115	65	48	16		
DC160-03-15.600F1-	15,6		45	115	65	48	16		
DC160-03-15.700F1-	15,7		45	115	65	48	16		
DC160-03-15.800F1-	15,8		45	115	65	48	16		
DC160-03-15.900F1-	15,9		45	115	65	48	16		
DC160-03-16.000F1-	16		45	115	65	48	16		
DC160-03-16.100F1-	16,1		51	123	73	48	18		
DC160-03-16.200F1-	16,2		51	123	73	48	18		
DC160-03-16.300F1-	16,3		51	123	73	48	18		
DC160-03-16.400F1-	16,4		51	123	73	48	18		
DC160-03-16.500F1-	16,5		51	123	73	48	18		
DC160-03-16.600F1-	16,6		51	123	73	48	18		
DC160-03-16.700F1-	16,7		51	123	73	48	18		
DC160-03-16.750F1-	16,75		51	123	73	48	18		

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

Continued

/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
	Shank DIN 6535 HE								
	DC160-03-16.800F1-	16,8		51	123	73	48	18	
	DC160-03-17.000F1-	17		51	123	73	48	18	
	DC160-03-17.200F1-	17,2		51	123	73	48	18	
	DC160-03-17.300F1-	17,3		51	123	73	48	18	
	DC160-03-17.500F1-	17,5		51	123	73	48	18	
	DC160-03-17.600F1-	17,6		51	123	73	48	18	
	DC160-03-17.700F1-	17,7		51	123	73	48	18	
	DC160-03-17.800F1-	17,8		51	123	73	48	18	
	DC160-03-18.000F1-	18		51	123	73	48	18	
	DC160-03-18.200F1-	18,2		55	131	79	50	20	
	DC160-03-18.500F1-	18,5		55	131	79	50	20	
	DC160-03-18.700F1-	18,7		55	131	79	50	20	
	DC160-03-18.800F1-	18,8		55	131	79	50	20	
	DC160-03-19.000F1-	19		55	131	79	50	20	
	DC160-03-19.500F1-	19,5		55	131	79	50	20	
	DC160-03-19.700F1-	19,7		55	131	79	50	20	
	DC160-03-19.800F1-	19,8		55	131	79	50	20	
	DC160-03-20.000F1-	20		55	131	79	50	20	

Ordering example for the WJ30ET grade: DC160-03-03.000A1-WJ30ET

B1

WALTER SELECT

Best tool for

Good

Average

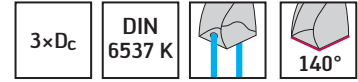
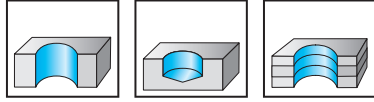
Poor

machining conditions

•• Primary application

• Other application

Solid carbide drills with coolant-through DC150 Perform



P	M	K	N	S	H	O
●	●	●	●	●	●	●

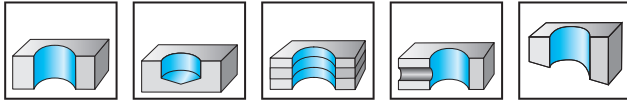
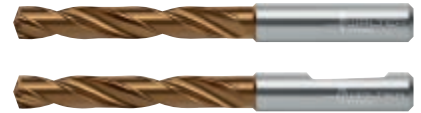
WJ30RE

B1

Designation	D _c m7 mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB							
DC150-03-03.000D1-	3	14	62	20	36	6	●
DC150-03-03.300D1-	3,3	14	62	20	36	6	●
DC150-03-03.400D1-	3,4	14	62	20	36	6	●
DC150-03-03.500D1-	3,5	14	62	20	36	6	●
DC150-03-03.700D1-	3,7	14	62	20	36	6	●
DC150-03-03.800D1-	3,8	17	66	24	36	6	●
DC150-03-04.000D1-	4	17	66	24	36	6	●
DC150-03-04.200D1-	4,2	17	66	24	36	6	●
DC150-03-04.300D1-	4,3	17	66	24	36	6	●
DC150-03-04.500D1-	4,5	17	66	24	36	6	●
DC150-03-04.800D1-	4,8	20	66	28	36	6	●
DC150-03-05.000D1-	5	20	66	28	36	6	●
DC150-03-05.100D1-	5,1	20	66	28	36	6	●
DC150-03-05.300D1-	5,3	20	66	28	36	6	●
DC150-03-05.500D1-	5,5	20	66	28	36	6	●
DC150-03-06.000D1-	6	20	66	28	36	6	●
DC150-03-06.500D1-	6,5	24	79	34	36	8	●
DC150-03-06.700D1-	6,7	24	79	34	36	8	●
DC150-03-06.800D1-	6,8	24	79	34	36	8	●
DC150-03-07.000D1-	7	24	79	34	36	8	●
DC150-03-07.500D1-	7,5	29	79	41	36	8	●
DC150-03-07.800D1-	7,8	29	79	41	36	8	●
DC150-03-08.000D1-	8	29	79	41	36	8	●
DC150-03-08.500D1-	8,5	35	89	47	40	10	●
DC150-03-08.600D1-	8,6	35	89	47	40	10	●
DC150-03-08.800D1-	8,8	35	89	47	40	10	●
DC150-03-09.000D1-	9	35	89	47	40	10	●
DC150-03-10.000D1-	10	35	89	47	40	10	●
DC150-03-10.200D1-	10,2	40	102	55	45	12	●
DC150-03-10.300D1-	10,3	40	102	55	45	12	●
DC150-03-10.500D1-	10,5	40	102	55	45	12	●
DC150-03-10.800D1-	10,8	40	102	55	45	12	●
DC150-03-11.000D1-	11	40	102	55	45	12	●
DC150-03-11.800D1-	11,8	40	102	55	45	12	●
DC150-03-12.000D1-	12	40	102	55	45	12	●
DC150-03-12.200D1-	12,2	43	107	60	45	14	●
DC150-03-12.500D1-	12,5	43	107	60	45	14	●
DC150-03-13.000D1-	13	43	107	60	45	14	●
DC150-03-14.000D1-	14	43	107	60	45	14	●
DC150-03-15.000D1-	15	45	115	65	48	16	●
DC150-03-15.500D1-	15,5	45	115	65	48	16	●
DC150-03-16.000D1-	16	45	115	65	48	16	●
DC150-03-16.500D1-	16,5	51	123	73	48	18	●
DC150-03-17.000D1-	17	51	123	73	48	18	●
DC150-03-17.500D1-	17,5	51	123	73	48	18	●
DC150-03-18.000D1-	18	51	123	73	48	18	●
DC150-03-19.000D1-	19	55	131	79	50	20	●
DC150-03-20.000D1-	20	55	131	79	50	20	●

Ordering example for the WJ30RE grade: DC150-03-03.000D1-WJ30RE

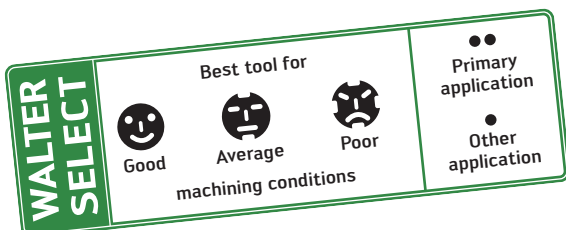
Solid carbide drills with coolant-through DC160 Advance



Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-05-03.000A1-	3		23	66	28	36	6	☺
DC160-05-03.100A1-	3,1		23	66	28	36	6	☺
DC160-05-03.175A1-	3,175	1/8"	23	66	28	36	6	☺
DC160-05-03.200A1-	3,2		23	66	28	36	6	☺
DC160-05-03.250A1-	3,25		23	66	28	36	6	☺
DC160-05-03.300A1-	3,3		23	66	28	36	6	☺
DC160-05-03.400A1-	3,4		23	66	28	36	6	☺
DC160-05-03.500A1-	3,5		23	66	28	36	6	☺
DC160-05-03.572A1-	3,572	9/64"	23	66	28	36	6	☺
DC160-05-03.600A1-	3,6		23	66	28	36	6	☺
DC160-05-03.650A1-	3,65		23	66	28	36	6	☺
DC160-05-03.700A1-	3,7		23	66	28	36	6	☺
DC160-05-03.800A1-	3,8		29	74	36	36	6	☺
DC160-05-03.900A1-	3,9		29	74	36	36	6	☺
DC160-05-03.969A1-	3,969	5/32"	29	74	36	36	6	☺
DC160-05-04.000A1-	4		29	74	36	36	6	☺
DC160-05-04.100A1-	4,1		29	74	36	36	6	☺
DC160-05-04.200A1-	4,2		29	74	36	36	6	☺
DC160-05-04.300A1-	4,3		29	74	36	36	6	☺
DC160-05-04.366A1-	4,366	11/64"	29	74	36	36	6	☺
DC160-05-04.400A1-	4,4		29	74	36	36	6	☺
DC160-05-04.500A1-	4,5		29	74	36	36	6	☺
DC160-05-04.600A1-	4,6		29	74	36	36	6	☺
DC160-05-04.650A1-	4,65		29	74	36	36	6	☺
DC160-05-04.700A1-	4,7		29	74	36	36	6	☺
DC160-05-04.763A1-	4,763	3/16"	35	82	44	36	6	☺
DC160-05-04.800A1-	4,8		35	82	44	36	6	☺
DC160-05-04.900A1-	4,9		35	82	44	36	6	☺
DC160-05-05.000A1-	5		35	82	44	36	6	☺
DC160-05-05.100A1-	5,1		35	82	44	36	6	☺
DC160-05-05.159A1-	5,159	13/64"	35	82	44	36	6	☺
DC160-05-05.200A1-	5,2		35	82	44	36	6	☺
DC160-05-05.300A1-	5,3		35	82	44	36	6	☺
DC160-05-05.400A1-	5,4		35	82	44	36	6	☺
DC160-05-05.500A1-	5,5		35	82	44	36	6	☺
DC160-05-05.550A1-	5,55		35	82	44	36	6	☺
DC160-05-05.556A1-	5,556	7/32"	35	82	44	36	6	☺
DC160-05-05.600A1-	5,6		35	82	44	36	6	☺
DC160-05-05.700A1-	5,7		35	82	44	36	6	☺
DC160-05-05.800A1-	5,8		35	82	44	36	6	☺
DC160-05-05.900A1-	5,9		35	82	44	36	6	☺
DC160-05-05.953A1-	5,953	15/64"	35	82	44	36	6	☺
DC160-05-06.000A1-	6		35	82	44	36	6	☺

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

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Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Shank DIN 6535 HA								
	DC160-05-06.100A1-	6,1		43	91	53	36	8	WJ30ET
	DC160-05-06.200A1-	6,2		43	91	53	36	8	WJ30ET
	DC160-05-06.300A1-	6,3		43	91	53	36	8	WJ30ET
	DC160-05-06.350A1-	6,35	1/4"	43	91	53	36	8	WJ30ET
	DC160-05-06.400A1-	6,4		43	91	53	36	8	WJ30ET
	DC160-05-06.500A1-	6,5		43	91	53	36	8	WJ30ET
	DC160-05-06.600A1-	6,6		43	91	53	36	8	WJ30ET
	DC160-05-06.700A1-	6,7		43	91	53	36	8	WJ30ET
	DC160-05-06.747A1-	6,747	17/64"	43	91	53	36	8	WJ30ET
	DC160-05-06.800A1-	6,8		43	91	53	36	8	WJ30ET
	DC160-05-06.900A1-	6,9		43	91	53	36	8	WJ30ET
	DC160-05-07.000A1-	7		43	91	53	36	8	WJ30ET
	DC160-05-07.100A1-	7,1		43	91	53	36	8	WJ30ET
	DC160-05-07.144A1-	7,144	9/32"	43	91	53	36	8	WJ30ET
	DC160-05-07.200A1-	7,2		43	91	53	36	8	WJ30ET
	DC160-05-07.300A1-	7,3		43	91	53	36	8	WJ30ET
	DC160-05-07.400A1-	7,4		43	91	53	36	8	WJ30ET
	DC160-05-07.500A1-	7,5		43	91	53	36	8	WJ30ET
	DC160-05-07.541A1-	7,541	19/64"	43	91	53	36	8	WJ30ET
	DC160-05-07.550A1-	7,55		43	91	53	36	8	WJ30ET
	DC160-05-07.600A1-	7,6		43	91	53	36	8	WJ30ET
	DC160-05-07.700A1-	7,7		43	91	53	36	8	WJ30ET
	DC160-05-07.800A1-	7,8		43	91	53	36	8	WJ30ET
	DC160-05-07.900A1-	7,9		43	91	53	36	8	WJ30ET
	DC160-05-07.938A1-	7,938	5/16"	43	91	53	36	8	WJ30ET
	DC160-05-08.000A1-	8		43	91	53	36	8	WJ30ET
	DC160-05-08.100A1-	8,1		49	103	61	40	10	WJ30ET
	DC160-05-08.200A1-	8,2		49	103	61	40	10	WJ30ET
	DC160-05-08.300A1-	8,3		49	103	61	40	10	WJ30ET
	DC160-05-08.334A1-	8,334	21/64"	49	103	61	40	10	WJ30ET
	DC160-05-08.400A1-	8,4		49	103	61	40	10	WJ30ET
	DC160-05-08.500A1-	8,5		49	103	61	40	10	WJ30ET
	DC160-05-08.600A1-	8,6		49	103	61	40	10	WJ30ET
	DC160-05-08.700A1-	8,7		49	103	61	40	10	WJ30ET
	DC160-05-08.731A1-	8,731	11/32"	49	103	61	40	10	WJ30ET
	DC160-05-08.800A1-	8,8		49	103	61	40	10	WJ30ET
DC160-05-08.900A1-	8,9		49	103	61	40	10	WJ30ET	
DC160-05-09.000A1-	9		49	103	61	40	10	WJ30ET	
DC160-05-09.100A1-	9,1		49	103	61	40	10	WJ30ET	
DC160-05-09.128A1-	9,128	23/64"	49	103	61	40	10	WJ30ET	
DC160-05-09.200A1-	9,2		49	103	61	40	10	WJ30ET	
DC160-05-09.300A1-	9,3		49	103	61	40	10	WJ30ET	
DC160-05-09.400A1-	9,4		49	103	61	40	10	WJ30ET	
DC160-05-09.500A1-	9,5		49	103	61	40	10	WJ30ET	
DC160-05-09.525A1-	9,525	3/8"	49	103	61	40	10	WJ30ET	
DC160-05-09.550A1-	9,55		49	103	61	40	10	WJ30ET	
DC160-05-09.600A1-	9,6		49	103	61	40	10	WJ30ET	
DC160-05-09.700A1-	9,7		49	103	61	40	10	WJ30ET	
DC160-05-09.800A1-	9,8		49	103	61	40	10	WJ30ET	
DC160-05-09.900A1-	9,9		49	103	61	40	10	WJ30ET	
DC160-05-09.922A1-	9,922	25/64"	49	103	61	40	10	WJ30ET	
DC160-05-10.000A1-	10		49	103	61	40	10	WJ30ET	
DC160-05-10.100A1-	10,1		56	118	71	45	12	WJ30ET	
DC160-05-10.200A1-	10,2		56	118	71	45	12	WJ30ET	
DC160-05-10.300A1-	10,3		56	118	71	45	12	WJ30ET	
DC160-05-10.319A1-	10,319	13/32"	56	118	71	45	12	WJ30ET	
DC160-05-10.400A1-	10,4		56	118	71	45	12	WJ30ET	
DC160-05-10.500A1-	10,5		56	118	71	45	12	WJ30ET	
DC160-05-10.600A1-	10,6		56	118	71	45	12	WJ30ET	
DC160-05-10.700A1-	10,7		56	118	71	45	12	WJ30ET	
DC160-05-10.716A1-	10,716	27/64"	56	118	71	45	12	WJ30ET	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

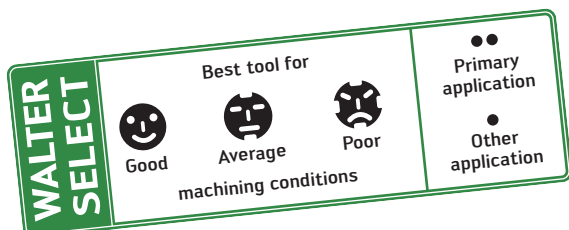
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-05-10.800A1-	10,8		56	118	71	45	12	☺
	DC160-05-10.900A1-	10,9		56	118	71	45	12	☺
	DC160-05-11.000A1-	11		56	118	71	45	12	☺
	DC160-05-11.100A1-	11,1		56	118	71	45	12	☺
	DC160-05-11.113A1-	11,113	7/16"	56	118	71	45	12	☺
	DC160-05-11.200A1-	11,2		56	118	71	45	12	☺
	DC160-05-11.300A1-	11,3		56	118	71	45	12	☺
	DC160-05-11.400A1-	11,4		56	118	71	45	12	☺
	DC160-05-11.500A1-	11,5		56	118	71	45	12	☺
	DC160-05-11.509A1-	11,509	29/64"	56	118	71	45	12	☺
	DC160-05-11.550A1-	11,55		56	118	71	45	12	☺
	DC160-05-11.600A1-	11,6		56	118	71	45	12	☺
	DC160-05-11.700A1-	11,7		56	118	71	45	12	☺
	DC160-05-11.800A1-	11,8		56	118	71	45	12	☺
	DC160-05-11.900A1-	11,9		56	118	71	45	12	☺
	DC160-05-11.906A1-	11,906	15/32"	56	118	71	45	12	☺
	DC160-05-12.000A1-	12		56	118	71	45	12	☺
	DC160-05-12.100A1-	12,1		60	124	77	45	14	☺
	DC160-05-12.200A1-	12,2		60	124	77	45	14	☺
	DC160-05-12.250A1-	12,25		60	124	77	45	14	☺
	DC160-05-12.300A1-	12,3		60	124	77	45	14	☺
	DC160-05-12.303A1-	12,303	31/64"	60	124	77	45	14	☺
	DC160-05-12.400A1-	12,4		60	124	77	45	14	☺
	DC160-05-12.500A1-	12,5		60	124	77	45	14	☺
	DC160-05-12.600A1-	12,6		60	124	77	45	14	☺
	DC160-05-12.700A1-	12,7	1/2"	60	124	77	45	14	☺
	DC160-05-12.750A1-	12,75		60	124	77	45	14	☺
	DC160-05-12.800A1-	12,8		60	124	77	45	14	☺
	DC160-05-12.900A1-	12,9		60	124	77	45	14	☺
	DC160-05-13.000A1-	13		60	124	77	45	14	☺
	DC160-05-13.100A1-	13,1		60	124	77	45	14	☺
	DC160-05-13.200A1-	13,2		60	124	77	45	14	☺
	DC160-05-13.300A1-	13,3		60	124	77	45	14	☺
	DC160-05-13.400A1-	13,4		60	124	77	45	14	☺
	DC160-05-13.494A1-	13,494	17/32"	60	124	77	45	14	☺
	DC160-05-13.500A1-	13,5		60	124	77	45	14	☺
	DC160-05-13.600A1-	13,6		60	124	77	45	14	☺
	DC160-05-13.700A1-	13,7		60	124	77	45	14	☺
	DC160-05-13.800A1-	13,8		60	124	77	45	14	☺
	DC160-05-13.900A1-	13,9		60	124	77	45	14	☺
	DC160-05-14.000A1-	14		60	124	77	45	14	☺
	DC160-05-14.100A1-	14,1		63	133	83	48	16	☺
	DC160-05-14.200A1-	14,2		63	133	83	48	16	☺
	DC160-05-14.288A1-	14,288	9/16"	63	133	83	48	16	☺
	DC160-05-14.300A1-	14,3		63	133	83	48	16	☺
	DC160-05-14.400A1-	14,4		63	133	83	48	16	☺
	DC160-05-14.500A1-	14,5		63	133	83	48	16	☺
	DC160-05-14.600A1-	14,6		63	133	83	48	16	☺
DC160-05-14.700A1-	14,7		63	133	83	48	16	☺	
DC160-05-14.750A1-	14,75		63	133	83	48	16	☺	
DC160-05-14.800A1-	14,8		63	133	83	48	16	☺	
DC160-05-14.900A1-	14,9		63	133	83	48	16	☺	
DC160-05-15.000A1-	15		63	133	83	48	16	☺	
DC160-05-15.100A1-	15,1		63	133	83	48	16	☺	
DC160-05-15.200A1-	15,2		63	133	83	48	16	☺	
DC160-05-15.300A1-	15,3		63	133	83	48	16	☺	
DC160-05-15.400A1-	15,4		63	133	83	48	16	☺	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

Continued



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Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA 	DC160-05-15.500A1-	15,5		63	133	83	48	16	☺
	DC160-05-15.600A1-	15,6		63	133	83	48	16	☺
	DC160-05-15.700A1-	15,7		63	133	83	48	16	☺
	DC160-05-15.800A1-	15,8		63	133	83	48	16	☺
	DC160-05-15.875A1-	15,875	5/8"	63	133	83	48	16	☺
	DC160-05-15.900A1-	15,9		63	133	83	48	16	☺
	DC160-05-16.000A1-	16		63	133	83	48	16	☺
	DC160-05-16.100A1-	16,1		71	143	93	48	18	☺
	DC160-05-16.200A1-	16,2		71	143	93	48	18	☺
	DC160-05-16.300A1-	16,3		71	143	93	48	18	☺
	DC160-05-16.400A1-	16,4		71	143	93	48	18	☺
	DC160-05-16.500A1-	16,5		71	143	93	48	18	☺
	DC160-05-16.600A1-	16,6		71	143	93	48	18	☺
	DC160-05-16.700A1-	16,7		71	143	93	48	18	☺
	DC160-05-16.750A1-	16,75		71	143	93	48	18	☺
	DC160-05-16.800A1-	16,8		71	143	93	48	18	☺
	DC160-05-16.900A1-	16,9		71	143	93	48	18	☺
	DC160-05-17.000A1-	17		71	143	93	48	18	☺
	DC160-05-17.100A1-	17,1		71	143	93	48	18	☺
	DC160-05-17.200A1-	17,2		71	143	93	48	18	☺
	DC160-05-17.300A1-	17,3		71	143	93	48	18	☺
	DC160-05-17.400A1-	17,4		71	143	93	48	18	☺
	DC160-05-17.500A1-	17,5		71	143	93	48	18	☺
	DC160-05-17.600A1-	17,6		71	143	93	48	18	☺
	DC160-05-17.700A1-	17,7		71	143	93	48	18	☺
DC160-05-17.800A1-	17,8		71	143	93	48	18	☺	
DC160-05-17.900A1-	17,9		71	143	93	48	18	☺	
DC160-05-18.000A1-	18		71	143	93	48	18	☺	
DC160-05-18.100A1-	18,1		77	153	101	50	20	☺	
DC160-05-18.200A1-	18,2		77	153	101	50	20	☺	
DC160-05-18.300A1-	18,3		77	153	101	50	20	☺	
DC160-05-18.400A1-	18,4		77	153	101	50	20	☺	
DC160-05-18.500A1-	18,5		77	153	101	50	20	☺	
DC160-05-18.600A1-	18,6		77	153	101	50	20	☺	
DC160-05-18.700A1-	18,7		77	153	101	50	20	☺	
DC160-05-18.800A1-	18,8		77	153	101	50	20	☺	
DC160-05-18.900A1-	18,9		77	153	101	50	20	☺	
DC160-05-19.000A1-	19		77	153	101	50	20	☺	
DC160-05-19.050A1-	19,05	3/4"	77	153	101	50	20	☺	
DC160-05-19.100A1-	19,1		77	153	101	50	20	☺	
DC160-05-19.200A1-	19,2		77	153	101	50	20	☺	
DC160-05-19.300A1-	19,3		77	153	101	50	20	☺	
DC160-05-19.400A1-	19,4		77	153	101	50	20	☺	
DC160-05-19.500A1-	19,5		77	153	101	50	20	☺	
DC160-05-19.600A1-	19,6		77	153	101	50	20	☺	
DC160-05-19.700A1-	19,7		77	153	101	50	20	☺	
DC160-05-19.800A1-	19,8		77	153	101	50	20	☺	
DC160-05-19.900A1-	19,9		77	153	101	50	20	☺	
DC160-05-20.000A1-	20		77	153	101	50	20	☺	
DC160-05-20.500A1-	20,5		86	166	108	56	25	☺	
DC160-05-21.000A1-	21		86	166	108	56	25	☺	
DC160-05-21.500A1-	21,5		86	166	108	56	25	☺	
DC160-05-22.000A1-	22		86	166	108	56	25	☺	
DC160-05-22.500A1-	22,5		91	173	115	56	25	☺	
DC160-05-23.000A1-	23		91	173	115	56	25	☺	
DC160-05-23.500A1-	23,5		91	173	115	56	25	☺	
DC160-05-24.000A1-	24		91	173	115	56	25	☺	
DC160-05-24.500A1-	24,5		97	180	122	56	25	☺	
DC160-05-25.000A1-	25		97	180	122	56	25	☺	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

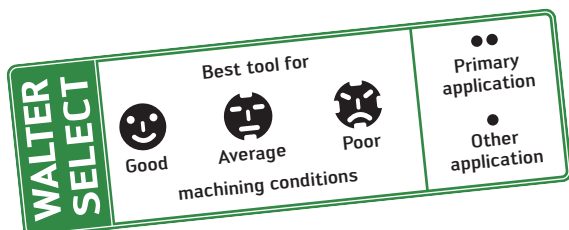
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-05-03.000F1-	3		23	66	28	36	6	☺
	DC160-05-03.100F1-	3,1		23	66	28	36	6	☺
	DC160-05-03.200F1-	3,2		23	66	28	36	6	☺
	DC160-05-03.250F1-	3,25		23	66	28	36	6	☺
	DC160-05-03.300F1-	3,3		23	66	28	36	6	☺
	DC160-05-03.400F1-	3,4		23	66	28	36	6	☺
	DC160-05-03.500F1-	3,5		23	66	28	36	6	☺
	DC160-05-03.600F1-	3,6		23	66	28	36	6	☺
	DC160-05-03.650F1-	3,65		23	66	28	36	6	☺
	DC160-05-03.700F1-	3,7		23	66	28	36	6	☺
	DC160-05-03.800F1-	3,8		29	74	36	36	6	☺
	DC160-05-03.900F1-	3,9		29	74	36	36	6	☺
	DC160-05-04.000F1-	4		29	74	36	36	6	☺
	DC160-05-04.100F1-	4,1		29	74	36	36	6	☺
	DC160-05-04.200F1-	4,2		29	74	36	36	6	☺
	DC160-05-04.300F1-	4,3		29	74	36	36	6	☺
	DC160-05-04.400F1-	4,4		29	74	36	36	6	☺
	DC160-05-04.500F1-	4,5		29	74	36	36	6	☺
	DC160-05-04.600F1-	4,6		29	74	36	36	6	☺
	DC160-05-04.650F1-	4,65		29	74	36	36	6	☺
	DC160-05-04.700F1-	4,7		29	74	36	36	6	☺
	DC160-05-04.800F1-	4,8		35	82	44	36	6	☺
	DC160-05-04.900F1-	4,9		35	82	44	36	6	☺
	DC160-05-05.000F1-	5		35	82	44	36	6	☺
	DC160-05-05.100F1-	5,1		35	82	44	36	6	☺
	DC160-05-05.200F1-	5,2		35	82	44	36	6	☺
	DC160-05-05.300F1-	5,3		35	82	44	36	6	☺
	DC160-05-05.400F1-	5,4		35	82	44	36	6	☺
	DC160-05-05.500F1-	5,5		35	82	44	36	6	☺
	DC160-05-05.550F1-	5,55		35	82	44	36	6	☺
	DC160-05-05.600F1-	5,6		35	82	44	36	6	☺
	DC160-05-05.700F1-	5,7		35	82	44	36	6	☺
	DC160-05-05.800F1-	5,8		35	82	44	36	6	☺
	DC160-05-05.900F1-	5,9		35	82	44	36	6	☺
	DC160-05-06.000F1-	6		35	82	44	36	6	☺
	DC160-05-06.100F1-	6,1		43	91	53	36	8	☺
	DC160-05-06.200F1-	6,2		43	91	53	36	8	☺
	DC160-05-06.300F1-	6,3		43	91	53	36	8	☺
	DC160-05-06.400F1-	6,4		43	91	53	36	8	☺
	DC160-05-06.500F1-	6,5		43	91	53	36	8	☺
DC160-05-06.600F1-	6,6		43	91	53	36	8	☺	
DC160-05-06.700F1-	6,7		43	91	53	36	8	☺	
DC160-05-06.800F1-	6,8		43	91	53	36	8	☺	
DC160-05-06.900F1-	6,9		43	91	53	36	8	☺	
DC160-05-07.000F1-	7		43	91	53	36	8	☺	
DC160-05-07.100F1-	7,1		43	91	53	36	8	☺	
DC160-05-07.200F1-	7,2		43	91	53	36	8	☺	
DC160-05-07.300F1-	7,3		43	91	53	36	8	☺	
DC160-05-07.400F1-	7,4		43	91	53	36	8	☺	
DC160-05-07.500F1-	7,5		43	91	53	36	8	☺	
DC160-05-07.550F1-	7,55		43	91	53	36	8	☺	
DC160-05-07.600F1-	7,6		43	91	53	36	8	☺	
DC160-05-07.700F1-	7,7		43	91	53	36	8	☺	
DC160-05-07.800F1-	7,8		43	91	53	36	8	☺	
DC160-05-07.900F1-	7,9		43	91	53	36	8	☺	
DC160-05-08.000F1-	8		43	91	53	36	8	☺	
DC160-05-08.100F1-	8,1		49	103	61	40	10	☺	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

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		D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Designation								
	DC160-05-08.200F1-	8,2		49	103	61	40	10	WJ30ET
	DC160-05-08.300F1-	8,3		49	103	61	40	10	WJ30ET
	DC160-05-08.400F1-	8,4		49	103	61	40	10	WJ30ET
	DC160-05-08.500F1-	8,5		49	103	61	40	10	WJ30ET
	DC160-05-08.600F1-	8,6		49	103	61	40	10	WJ30ET
	DC160-05-08.700F1-	8,7		49	103	61	40	10	WJ30ET
	DC160-05-08.800F1-	8,8		49	103	61	40	10	WJ30ET
	DC160-05-08.900F1-	8,9		49	103	61	40	10	WJ30ET
	DC160-05-09.000F1-	9		49	103	61	40	10	WJ30ET
	DC160-05-09.100F1-	9,1		49	103	61	40	10	WJ30ET
	DC160-05-09.200F1-	9,2		49	103	61	40	10	WJ30ET
	DC160-05-09.300F1-	9,3		49	103	61	40	10	WJ30ET
	DC160-05-09.400F1-	9,4		49	103	61	40	10	WJ30ET
	DC160-05-09.500F1-	9,5		49	103	61	40	10	WJ30ET
	DC160-05-09.550F1-	9,55		49	103	61	40	10	WJ30ET
	DC160-05-09.600F1-	9,6		49	103	61	40	10	WJ30ET
	DC160-05-09.700F1-	9,7		49	103	61	40	10	WJ30ET
	DC160-05-09.800F1-	9,8		49	103	61	40	10	WJ30ET
	DC160-05-09.900F1-	9,9		49	103	61	40	10	WJ30ET
	DC160-05-10.000F1-	10		49	103	61	40	10	WJ30ET
	DC160-05-10.100F1-	10,1		56	118	71	45	12	WJ30ET
	DC160-05-10.200F1-	10,2		56	118	71	45	12	WJ30ET
	DC160-05-10.300F1-	10,3		56	118	71	45	12	WJ30ET
	DC160-05-10.400F1-	10,4		56	118	71	45	12	WJ30ET
	DC160-05-10.500F1-	10,5		56	118	71	45	12	WJ30ET
	DC160-05-10.600F1-	10,6		56	118	71	45	12	WJ30ET
	DC160-05-10.700F1-	10,7		56	118	71	45	12	WJ30ET
	DC160-05-10.800F1-	10,8		56	118	71	45	12	WJ30ET
	DC160-05-10.900F1-	10,9		56	118	71	45	12	WJ30ET
	DC160-05-11.000F1-	11		56	118	71	45	12	WJ30ET
	DC160-05-11.100F1-	11,1		56	118	71	45	12	WJ30ET
	DC160-05-11.200F1-	11,2		56	118	71	45	12	WJ30ET
	DC160-05-11.300F1-	11,3		56	118	71	45	12	WJ30ET
	DC160-05-11.400F1-	11,4		56	118	71	45	12	WJ30ET
	DC160-05-11.500F1-	11,5		56	118	71	45	12	WJ30ET
	DC160-05-11.550F1-	11,55		56	118	71	45	12	WJ30ET
DC160-05-11.600F1-	11,6		56	118	71	45	12	WJ30ET	
DC160-05-11.700F1-	11,7		56	118	71	45	12	WJ30ET	
DC160-05-11.800F1-	11,8		56	118	71	45	12	WJ30ET	
DC160-05-11.900F1-	11,9		56	118	71	45	12	WJ30ET	
DC160-05-12.000F1-	12		56	118	71	45	12	WJ30ET	
DC160-05-12.100F1-	12,1		60	124	77	45	14	WJ30ET	
DC160-05-12.200F1-	12,2		60	124	77	45	14	WJ30ET	
DC160-05-12.250F1-	12,25		60	124	77	45	14	WJ30ET	
DC160-05-12.300F1-	12,3		60	124	77	45	14	WJ30ET	
DC160-05-12.400F1-	12,4		60	124	77	45	14	WJ30ET	
DC160-05-12.500F1-	12,5		60	124	77	45	14	WJ30ET	
DC160-05-12.600F1-	12,6		60	124	77	45	14	WJ30ET	
DC160-05-12.700F1-	12,7	1/2"	60	124	77	45	14	WJ30ET	
DC160-05-12.750F1-	12,75		60	124	77	45	14	WJ30ET	
DC160-05-12.800F1-	12,8		60	124	77	45	14	WJ30ET	
DC160-05-12.900F1-	12,9		60	124	77	45	14	WJ30ET	
DC160-05-13.000F1-	13		60	124	77	45	14	WJ30ET	
DC160-05-13.100F1-	13,1		60	124	77	45	14	WJ30ET	
DC160-05-13.200F1-	13,2		60	124	77	45	14	WJ30ET	
DC160-05-13.300F1-	13,3		60	124	77	45	14	WJ30ET	
DC160-05-13.400F1-	13,4		60	124	77	45	14	WJ30ET	
DC160-05-13.500F1-	13,5		60	124	77	45	14	WJ30ET	
DC160-05-13.600F1-	13,6		60	124	77	45	14	WJ30ET	
DC160-05-13.700F1-	13,7		60	124	77	45	14	WJ30ET	
DC160-05-13.800F1-	13,8		60	124	77	45	14	WJ30ET	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

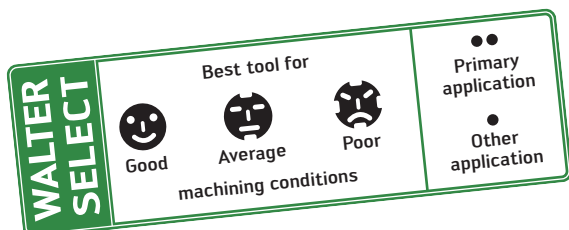
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET	
	Shank DIN 6535 HE	DC160-05-13.900F1-	13,9		60	124	77	45	14	☺
		DC160-05-14.000F1-	14		60	124	77	45	14	☺
		DC160-05-14.100F1-	14,1		63	133	83	48	16	☺
		DC160-05-14.200F1-	14,2		63	133	83	48	16	☺
		DC160-05-14.300F1-	14,3		63	133	83	48	16	☺
		DC160-05-14.400F1-	14,4		63	133	83	48	16	☺
		DC160-05-14.500F1-	14,5		63	133	83	48	16	☺
		DC160-05-14.600F1-	14,6		63	133	83	48	16	☺
		DC160-05-14.700F1-	14,7		63	133	83	48	16	☺
		DC160-05-14.750F1-	14,75		63	133	83	48	16	☺
		DC160-05-14.800F1-	14,8		63	133	83	48	16	☺
		DC160-05-14.900F1-	14,9		63	133	83	48	16	☺
		DC160-05-15.000F1-	15		63	133	83	48	16	☺
		DC160-05-15.100F1-	15,1		63	133	83	48	16	☺
		DC160-05-15.200F1-	15,2		63	133	83	48	16	☺
		DC160-05-15.300F1-	15,3		63	133	83	48	16	☺
		DC160-05-15.400F1-	15,4		63	133	83	48	16	☺
		DC160-05-15.500F1-	15,5		63	133	83	48	16	☺
		DC160-05-15.600F1-	15,6		63	133	83	48	16	☺
		DC160-05-15.700F1-	15,7		63	133	83	48	16	☺
		DC160-05-15.800F1-	15,8		63	133	83	48	16	☺
		DC160-05-15.900F1-	15,9		63	133	83	48	16	☺
		DC160-05-16.000F1-	16		63	133	83	48	16	☺
		DC160-05-16.100F1-	16,1		71	143	93	48	18	☺
		DC160-05-16.200F1-	16,2		71	143	93	48	18	☺
		DC160-05-16.300F1-	16,3		71	143	93	48	18	☺
		DC160-05-16.400F1-	16,4		71	143	93	48	18	☺
		DC160-05-16.500F1-	16,5		71	143	93	48	18	☺
		DC160-05-16.600F1-	16,6		71	143	93	48	18	☺
		DC160-05-16.700F1-	16,7		71	143	93	48	18	☺
		DC160-05-16.750F1-	16,75		71	143	93	48	18	☺
		DC160-05-16.800F1-	16,8		71	143	93	48	18	☺
		DC160-05-16.900F1-	16,9		71	143	93	48	18	☺
		DC160-05-17.000F1-	17		71	143	93	48	18	☺
		DC160-05-17.100F1-	17,1		71	143	93	48	18	☺
		DC160-05-17.200F1-	17,2		71	143	93	48	18	☺
	DC160-05-17.300F1-	17,3		71	143	93	48	18	☺	
	DC160-05-17.400F1-	17,4		71	143	93	48	18	☺	
	DC160-05-17.500F1-	17,5		71	143	93	48	18	☺	
	DC160-05-17.600F1-	17,6		71	143	93	48	18	☺	
	DC160-05-17.700F1-	17,7		71	143	93	48	18	☺	
	DC160-05-17.800F1-	17,8		71	143	93	48	18	☺	
	DC160-05-17.900F1-	17,9		71	143	93	48	18	☺	
	DC160-05-18.000F1-	18		71	143	93	48	18	☺	
	DC160-05-18.100F1-	18,1		77	153	101	50	20	☺	
	DC160-05-18.200F1-	18,2		77	153	101	50	20	☺	
	DC160-05-18.300F1-	18,3		77	153	101	50	20	☺	
	DC160-05-18.400F1-	18,4		77	153	101	50	20	☺	
	DC160-05-18.500F1-	18,5		77	153	101	50	20	☺	
	DC160-05-18.600F1-	18,6		77	153	101	50	20	☺	
	DC160-05-18.700F1-	18,7		77	153	101	50	20	☺	
	DC160-05-18.800F1-	18,8		77	153	101	50	20	☺	
	DC160-05-18.900F1-	18,9		77	153	101	50	20	☺	
	DC160-05-19.000F1-	19		77	153	101	50	20	☺	
	DC160-05-19.100F1-	19,1		77	153	101	50	20	☺	
	DC160-05-19.200F1-	19,2		77	153	101	50	20	☺	
	DC160-05-19.300F1-	19,3		77	153	101	50	20	☺	

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

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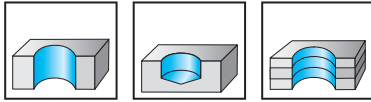
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Shank DIN 6535 HE								
	DC160-05-19.400F1-	19,4		77	153	101	50	20	WJ30ET
	DC160-05-19.500F1-	19,5		77	153	101	50	20	WJ30ET
	DC160-05-19.600F1-	19,6		77	153	101	50	20	WJ30ET
	DC160-05-19.700F1-	19,7		77	153	101	50	20	WJ30ET
	DC160-05-19.800F1-	19,8		77	153	101	50	20	WJ30ET
	DC160-05-19.900F1-	19,9		77	153	101	50	20	WJ30ET
	DC160-05-20.000F1-	20		77	153	101	50	20	WJ30ET
	DC160-05-20.500F1-	20,5		86	166	108	56	25	WJ30ET
	DC160-05-21.000F1-	21		86	166	108	56	25	WJ30ET
	DC160-05-21.500F1-	21,5		86	166	108	56	25	WJ30ET
	DC160-05-22.000F1-	22		86	166	108	56	25	WJ30ET
	DC160-05-22.500F1-	22,5		91	173	115	56	25	WJ30ET
	DC160-05-23.000F1-	23		91	173	115	56	25	WJ30ET
	DC160-05-23.500F1-	23,5		91	173	115	56	25	WJ30ET
	DC160-05-24.000F1-	24		91	173	115	56	25	WJ30ET
	DC160-05-24.500F1-	24,5		97	180	122	56	25	WJ30ET
	DC160-05-25.000F1-	25		97	180	122	56	25	WJ30ET

Ordering example for the WJ30ET grade: DC160-05-03.000A1-WJ30ET

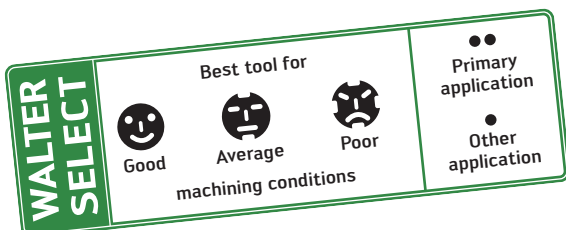
Solid carbide drills with coolant-through DC150 Perform



	Designation	D _c m7 mm	D _c Inch./no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB 	DC150-05-03.000D1-	3		23	66	28	36	6	
	DC150-05-03.100D1-	3,1		23	66	28	36	6	
	DC150-05-03.200D1-	3,2		23	66	28	36	6	
	DC150-05-03.300D1-	3,3		23	66	28	36	6	
	DC150-05-03.400D1-	3,4		23	66	28	36	6	
	DC150-05-03.500D1-	3,5		23	66	28	36	6	
	DC150-05-03.600D1-	3,6		23	66	28	36	6	
	DC150-05-03.700D1-	3,7		23	66	28	36	6	
	DC150-05-03.800D1-	3,8		29	74	36	36	6	
	DC150-05-03.900D1-	3,9		29	74	36	36	6	
	DC150-05-04.000D1-	4		29	74	36	36	6	
	DC150-05-04.100D1-	4,1		29	74	36	36	6	
	DC150-05-04.200D1-	4,2		29	74	36	36	6	
	DC150-05-04.300D1-	4,3		29	74	36	36	6	
	DC150-05-04.400D1-	4,4		29	74	36	36	6	
	DC150-05-04.500D1-	4,5		29	74	36	36	6	
	DC150-05-04.600D1-	4,6		29	74	36	36	6	
	DC150-05-04.650D1-	4,65		29	74	36	36	6	
	DC150-05-04.700D1-	4,7		29	74	36	36	6	
	DC150-05-04.800D1-	4,8		35	82	44	36	6	
	DC150-05-04.900D1-	4,9		35	82	44	36	6	
	DC150-05-05.000D1-	5		35	82	44	36	6	
	DC150-05-05.100D1-	5,1		35	82	44	36	6	
	DC150-05-05.200D1-	5,2		35	82	44	36	6	
	DC150-05-05.300D1-	5,3		35	82	44	36	6	
	DC150-05-05.400D1-	5,4		35	82	44	36	6	
	DC150-05-05.500D1-	5,5		35	82	44	36	6	
	DC150-05-05.550D1-	5,55		35	82	44	36	6	
	DC150-05-05.600D1-	5,6		35	82	44	36	6	
	DC150-05-05.700D1-	5,7		35	82	44	36	6	
	DC150-05-05.800D1-	5,8		35	82	44	36	6	
	DC150-05-05.900D1-	5,9		35	82	44	36	6	
	DC150-05-06.000D1-	6		35	82	44	36	6	
DC150-05-06.100D1-	6,1		43	91	53	36	8		
DC150-05-06.200D1-	6,2		43	91	53	36	8		
DC150-05-06.300D1-	6,2		43	91	53	36	8		
DC150-05-06.400D1-	6,4		43	91	53	36	8		
DC150-05-06.500D1-	6,5		43	91	53	36	8		
DC150-05-06.600D1-	6,6		43	91	53	36	8		
DC150-05-06.700D1-	6,7		43	91	53	36	8		
DC150-05-06.800D1-	6,8		43	91	53	36	8		
DC150-05-06.900D1-	6,9		43	91	53	36	8		
DC150-05-07.000D1-	7		43	91	53	36	8		

Ordering example for the WJ30RE grade: DC150-05-03.000D1-WJ30RE

Continued



B1

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180°	DC150-05-07.100D1-	7,1		43	91	53	36	8	☺☺
	DC150-05-07.200D1-	7,2		43	91	53	36	8	☺☺
DIN 6535 HB	DC150-05-07.300D1-	7,3		43	91	53	36	8	☺☺
	DC150-05-07.400D1-	7,4		43	91	53	36	8	☺☺
	DC150-05-07.500D1-	7,5		43	91	53	36	8	☺☺
	DC150-05-07.600D1-	7,6		43	91	53	36	8	☺☺
	DC150-05-07.700D1-	7,7		43	91	53	36	8	☺☺
	DC150-05-07.800D1-	7,8		43	91	53	36	8	☺☺
	DC150-05-07.900D1-	7,9		43	91	53	36	8	☺☺
	DC150-05-08.000D1-	8		43	91	53	36	8	☺☺
	DC150-05-08.100D1-	8,1		49	103	61	40	10	☺☺
	DC150-05-08.200D1-	8,2		49	103	61	40	10	☺☺
	DC150-05-08.300D1-	8,3		49	103	61	40	10	☺☺
	DC150-05-08.400D1-	8,4		49	103	61	40	10	☺☺
	DC150-05-08.500D1-	8,5		49	103	61	40	10	☺☺
	DC150-05-08.600D1-	8,6		49	103	61	40	10	☺☺
	DC150-05-08.700D1-	8,7		49	103	61	40	10	☺☺
	DC150-05-08.800D1-	8,8		49	103	61	40	10	☺☺
	DC150-05-09.000D1-	9		49	103	61	40	10	☺☺
	DC150-05-09.100D1-	9,1		49	103	61	40	10	☺☺
	DC150-05-09.200D1-	9,2		49	103	61	40	10	☺☺
	DC150-05-09.300D1-	9,3		49	103	61	40	10	☺☺
	DC150-05-09.400D1-	9,4		49	103	61	40	10	☺☺
	DC150-05-09.500D1-	9,5		49	103	61	40	10	☺☺
	DC150-05-09.600D1-	9,6		49	103	61	40	10	☺☺
	DC150-05-09.700D1-	9,7		49	103	61	40	10	☺☺
	DC150-05-09.800D1-	9,8		49	103	61	40	10	☺☺
	DC150-05-09.900D1-	9,9		49	103	61	40	10	☺☺
	DC150-05-10.000D1-	10		49	103	61	40	10	☺☺
	DC150-05-10.100D1-	10,1		56	118	71	45	12	☺☺
	DC150-05-10.200D1-	10,2		56	118	71	45	12	☺☺
	DC150-05-10.300D1-	10,3		56	118	71	45	12	☺☺
	DC150-05-10.400D1-	10,4		56	118	71	45	12	☺☺
	DC150-05-10.500D1-	10,5		56	118	71	45	12	☺☺
	DC150-05-10.600D1-	10,6		56	118	71	45	12	☺☺
	DC150-05-10.800D1-	10,8		56	118	71	45	12	☺☺
	DC150-05-11.000D1-	11		56	118	71	45	12	☺☺
	DC150-05-11.100D1-	11,1		56	118	71	45	12	☺☺
	DC150-05-11.200D1-	11,2		56	118	71	45	12	☺☺
	DC150-05-11.300D1-	11,3		56	118	71	45	12	☺☺
	DC150-05-11.500D1-	11,5		56	118	71	45	12	☺☺
	DC150-05-11.600D1-	11,6		56	118	71	45	12	☺☺
	DC150-05-11.700D1-	11,7		56	118	71	45	12	☺☺
	DC150-05-11.800D1-	11,8		56	118	71	45	12	☺☺
	DC150-05-11.900D1-	11,9		56	118	71	45	12	☺☺
	DC150-05-12.000D1-	12		56	118	71	45	12	☺☺
	DC150-05-12.100D1-	12,1		60	124	77	45	14	☺☺
	DC150-05-12.200D1-	12,2		60	124	77	45	14	☺☺
	DC150-05-12.300D1-	12,3		60	124	77	45	14	☺☺
	DC150-05-12.400D1-	12,4		60	124	77	45	14	☺☺
	DC150-05-12.500D1-	12,5		60	124	77	45	14	☺☺
	DC150-05-12.700D1-	12,7	1/2"	60	124	77	45	14	☺☺
	DC150-05-12.800D1-	12,8		60	124	77	45	14	☺☺
	DC150-05-13.000D1-	13		60	124	77	45	14	☺☺
	DC150-05-13.100D1-	13,1		60	124	77	45	14	☺☺
	DC150-05-13.200D1-	13,2		60	124	77	45	14	☺☺
	DC150-05-13.500D1-	13,5		60	124	77	45	14	☺☺
	DC150-05-13.800D1-	13,8		60	124	77	45	14	☺☺
	DC150-05-14.000D1-	14		60	124	77	45	14	☺☺
	DC150-05-14.100D1-	14,1		63	133	83	48	16	☺☺
	DC150-05-14.200D1-	14,2		63	133	83	48	16	☺☺

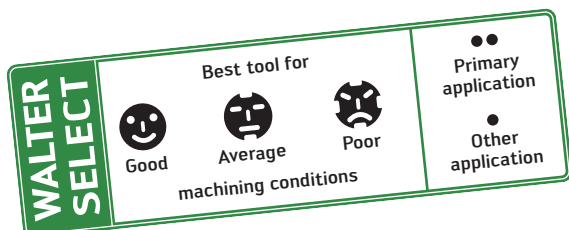
Ordering example for the WJ30RE grade: DC150-05-03.000D1-WJ30RE

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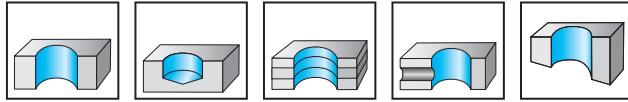
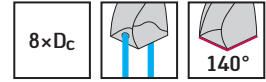
	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB 	DC150-05-14.300D1-	14,3		63	133	83	48	16	☺
	DC150-05-14.500D1-	14,5		63	133	83	48	16	☺
	DC150-05-14.600D1-	14,6		63	133	83	48	16	☺
	DC150-05-14.800D1-	14,8		63	133	83	48	16	☺
	DC150-05-15.000D1-	15		63	133	83	48	16	☺
	DC150-05-15.100D1-	15,1		63	133	83	48	16	☺
	DC150-05-15.200D1-	15,2		63	133	83	48	16	☺
	DC150-05-15.300D1-	15,3		63	133	83	48	16	☺
	DC150-05-15.500D1-	15,5		63	133	83	48	16	☺
	DC150-05-15.600D1-	15,6		63	133	83	48	16	☺
	DC150-05-15.700D1-	15,7		63	133	83	48	16	☺
	DC150-05-15.800D1-	15,8		63	133	83	48	16	☺
	DC150-05-16.000D1-	16		63	133	83	48	16	☺
	DC150-05-16.500D1-	16,5		71	143	93	48	18	☺
	DC150-05-16.600D1-	16,6		71	143	93	48	18	☺
	DC150-05-17.000D1-	17		71	143	93	48	18	☺
	DC150-05-17.200D1-	17,2		71	143	93	48	18	☺
	DC150-05-17.300D1-	17,3		71	143	93	48	18	☺
	DC150-05-17.500D1-	17,5		71	143	93	48	18	☺
	DC150-05-17.700D1-	17,7		71	143	93	48	18	☺
DC150-05-17.800D1-	17,8		71	143	93	48	18	☺	
DC150-05-18.000D1-	18		71	143	93	48	18	☺	
DC150-05-18.100D1-	18,1		77	153	101	50	20	☺	
DC150-05-18.500D1-	18,5		77	153	101	50	20	☺	
DC150-05-18.800D1-	18,8		77	153	101	50	20	☺	
DC150-05-19.000D1-	19		77	153	101	50	20	☺	
DC150-05-19.500D1-	19,5		77	153	101	50	20	☺	
DC150-05-19.700D1-	19,7		77	153	101	50	20	☺	
DC150-05-20.000D1-	20		77	153	101	50	20	☺	

Ordering example for the WJ30RE grade: DC150-05-03.000D1-WJ30RE



B1

Solid carbide drills with coolant-through DC160 Advance



WJ30ET	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

B1

Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA								
DC160-08-03.000A1-	3		28	74	34	36	6	●
DC160-08-03.100A1-	3,1		28	74	34	36	6	●
DC160-08-03.175A1-	3,175	1/8"	28	74	34	36	6	●
DC160-08-03.200A1-	3,2		28	74	34	36	6	●
DC160-08-03.300A1-	3,3		28	74	34	36	6	●
DC160-08-03.400A1-	3,4		28	74	34	36	6	●
DC160-08-03.500A1-	3,5		28	74	34	36	6	●
DC160-08-03.572A1-	3,572	9/64"	28	74	34	36	6	●
DC160-08-03.600A1-	3,6		28	74	34	36	6	●
DC160-08-03.700A1-	3,7		28	74	34	36	6	●
DC160-08-03.800A1-	3,8		37	85	45	36	6	●
DC160-08-03.900A1-	3,9		37	85	45	36	6	●
DC160-08-03.969A1-	3,969	5/32"	37	85	45	36	6	●
DC160-08-04.000A1-	4		37	85	45	36	6	●
DC160-08-04.100A1-	4,1		37	85	45	36	6	●
DC160-08-04.200A1-	4,2		37	85	45	36	6	●
DC160-08-04.300A1-	4,3		37	85	45	36	6	●
DC160-08-04.366A1-	4,366	11/64"	37	85	45	36	6	●
DC160-08-04.400A1-	4,4		37	85	45	36	6	●
DC160-08-04.500A1-	4,5		37	85	45	36	6	●
DC160-08-04.600A1-	4,6		37	85	45	36	6	●
DC160-08-04.700A1-	4,7		37	85	45	36	6	●
DC160-08-04.763A1-	4,763	3/16"	48	97	57	36	6	●
DC160-08-04.800A1-	4,8		48	97	57	36	6	●
DC160-08-04.900A1-	4,9		48	97	57	36	6	●
DC160-08-05.000A1-	5		48	97	57	36	6	●
DC160-08-05.100A1-	5,1		48	97	57	36	6	●
DC160-08-05.159A1-	5,159	13/64"	48	97	57	36	6	●
DC160-08-05.200A1-	5,2		48	97	57	36	6	●
DC160-08-05.300A1-	5,3		48	97	57	36	6	●
DC160-08-05.400A1-	5,4		48	97	57	36	6	●
DC160-08-05.500A1-	5,5		48	97	57	36	6	●
DC160-08-05.556A1-	5,556	7/32"	48	97	57	36	6	●
DC160-08-05.600A1-	5,6		48	97	57	36	6	●
DC160-08-05.700A1-	5,7		48	97	57	36	6	●
DC160-08-05.800A1-	5,8		48	97	57	36	6	●
DC160-08-05.900A1-	5,9		48	97	57	36	6	●
DC160-08-05.953A1-	5,953	15/64"	48	97	57	36	6	●
DC160-08-06.000A1-	6		48	97	57	36	6	●
DC160-08-06.100A1-	6,1		55	106	66	36	8	●
DC160-08-06.200A1-	6,2		55	106	66	36	8	●
DC160-08-06.300A1-	6,3		55	106	66	36	8	●
DC160-08-06.350A1-	6,35	1/4"	55	106	66	36	8	●
DC160-08-06.400A1-	6,4		55	106	66	36	8	●
DC160-08-06.500A1-	6,5		55	106	66	36	8	●
DC160-08-06.600A1-	6,6		55	106	66	36	8	●
DC160-08-06.700A1-	6,7		55	106	66	36	8	●

Ordering example for the WJ30ET grade: DC160-08-03.000A1-WJ30ET

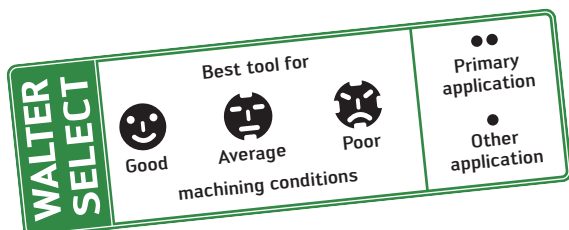
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	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-08-06.747A1-	6,747	17/64"	55	106	66	36	8	☺
	DC160-08-06.800A1-	6,8		55	106	66	36	8	☺
	DC160-08-06.900A1-	6,9		55	106	66	36	8	☺
	DC160-08-07.000A1-	7		55	106	66	36	8	☺
	DC160-08-07.100A1-	7,1		64	116	76	36	8	☺
	DC160-08-07.144A1-	7,144	9/32"	64	116	76	36	8	☺
	DC160-08-07.200A1-	7,2		64	116	76	36	8	☺
	DC160-08-07.300A1-	7,3		64	116	76	36	8	☺
	DC160-08-07.400A1-	7,4		64	116	76	36	8	☺
	DC160-08-07.500A1-	7,5		64	116	76	36	8	☺
	DC160-08-07.541A1-	7,541	19/64"	64	116	76	36	8	☺
	DC160-08-07.600A1-	7,6		64	116	76	36	8	☺
	DC160-08-07.700A1-	7,7		64	116	76	36	8	☺
	DC160-08-07.800A1-	7,8		64	116	76	36	8	☺
	DC160-08-07.900A1-	7,9		64	116	76	36	8	☺
	DC160-08-07.938A1-	7,938	5/16"	64	116	76	36	8	☺
	DC160-08-08.000A1-	8		64	116	76	36	8	☺
	DC160-08-08.100A1-	8,1		80	139	95	40	10	☺
	DC160-08-08.200A1-	8,2		80	139	95	40	10	☺
	DC160-08-08.300A1-	8,3		80	139	95	40	10	☺
	DC160-08-08.334A1-	8,334	21/64"	80	139	95	40	10	☺
	DC160-08-08.400A1-	8,4		80	139	95	40	10	☺
	DC160-08-08.500A1-	8,5		80	139	95	40	10	☺
	DC160-08-08.600A1-	8,6		80	139	95	40	10	☺
	DC160-08-08.700A1-	8,7		80	139	95	40	10	☺
	DC160-08-08.731A1-	8,731	11/32"	80	139	95	40	10	☺
	DC160-08-08.800A1-	8,8		80	139	95	40	10	☺
	DC160-08-08.900A1-	8,9		80	139	95	40	10	☺
	DC160-08-09.000A1-	9		80	139	95	40	10	☺
	DC160-08-09.100A1-	9,1		80	139	95	40	10	☺
	DC160-08-09.128A1-	9,128	23/64"	80	139	95	40	10	☺
	DC160-08-09.200A1-	9,2		80	139	95	40	10	☺
	DC160-08-09.300A1-	9,3		80	139	95	40	10	☺
	DC160-08-09.400A1-	9,4		80	139	95	40	10	☺
	DC160-08-09.500A1-	9,5		80	139	95	40	10	☺
	DC160-08-09.525A1-	9,525	3/8"	80	139	95	40	10	☺
	DC160-08-09.600A1-	9,6		80	139	95	40	10	☺
	DC160-08-09.700A1-	9,7		80	139	95	40	10	☺
	DC160-08-09.800A1-	9,8		80	139	95	40	10	☺
	DC160-08-09.900A1-	9,9		80	139	95	40	10	☺
DC160-08-09.922A1-	9,922	25/64"	80	139	95	40	10	☺	
DC160-08-10.000A1-	10		80	139	95	40	10	☺	
DC160-08-10.100A1-	10,1		96	163	114	45	12	☺	
DC160-08-10.200A1-	10,2		96	163	114	45	12	☺	
DC160-08-10.300A1-	10,3		96	163	114	45	12	☺	
DC160-08-10.319A1-	10,319	13/32"	96	163	114	45	12	☺	
DC160-08-10.400A1-	10,4		96	163	114	45	12	☺	
DC160-08-10.500A1-	10,5		96	163	114	45	12	☺	
DC160-08-10.600A1-	10,6		96	163	114	45	12	☺	
DC160-08-10.700A1-	10,7		96	163	114	45	12	☺	
DC160-08-10.716A1-	10,716	27/64"	96	163	114	45	12	☺	
DC160-08-10.800A1-	10,8		96	163	114	45	12	☺	
DC160-08-10.900A1-	10,9		96	163	114	45	12	☺	
DC160-08-11.000A1-	11		96	163	114	45	12	☺	
DC160-08-11.100A1-	11,1		96	163	114	45	12	☺	
DC160-08-11.113A1-	11,113	7/16"	96	163	114	45	12	☺	
DC160-08-11.200A1-	11,2		96	163	114	45	12	☺	

Ordering example for the WJ30ET grade: DC160-08-03.000A1-WJ30ET

Continued



B1

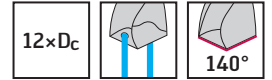
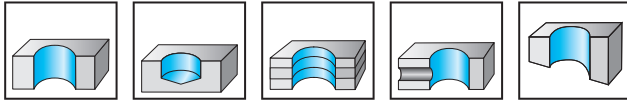
Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Shank DIN 6535 HA								
	DC160-08-11.300A1-	11,3		96	163	114	45	12	WJ30ET
	DC160-08-11.400A1-	11,4		96	163	114	45	12	WJ30ET
	DC160-08-11.500A1-	11,5		96	163	114	45	12	WJ30ET
	DC160-08-11.509A1-	11,509	29/64"	96	163	114	45	12	WJ30ET
	DC160-08-11.600A1-	11,6		96	163	114	45	12	WJ30ET
	DC160-08-11.700A1-	11,7		96	163	114	45	12	WJ30ET
	DC160-08-11.800A1-	11,8		96	163	114	45	12	WJ30ET
	DC160-08-11.900A1-	11,9		96	163	114	45	12	WJ30ET
	DC160-08-11.906A1-	11,906	15/32"	96	163	114	45	12	WJ30ET
	DC160-08-12.000A1-	12		96	163	114	45	12	WJ30ET
	DC160-08-12.303A1-	12,303	31/64"	119	182	133	45	14	WJ30ET
	DC160-08-12.500A1-	12,5		119	182	133	45	14	WJ30ET
	DC160-08-12.700A1-	12,7	1/2"	119	182	133	45	14	WJ30ET
	DC160-08-13.000A1-	13		119	182	133	45	14	WJ30ET
	DC160-08-13.494A1-	13,494	17/32"	119	182	133	45	14	WJ30ET
	DC160-08-13.500A1-	13,5		119	182	133	45	14	WJ30ET
	DC160-08-14.000A1-	14		119	182	133	45	14	WJ30ET
	DC160-08-14.288A1-	14,288	9/16"	136	204	152	48	16	WJ30ET
	DC160-08-14.500A1-	14,5		136	204	152	48	16	WJ30ET
DC160-08-15.000A1-	15		136	204	152	48	16	WJ30ET	
DC160-08-15.500A1-	15,5		136	204	152	48	16	WJ30ET	
DC160-08-15.875A1-	15,875	5/8"	136	204	152	48	16	WJ30ET	
DC160-08-16.000A1-	16		136	204	152	48	16	WJ30ET	
DC160-08-16.500A1-	16,5		153	223	171	48	18	WJ30ET	
DC160-08-17.000A1-	17		153	223	171	48	18	WJ30ET	
DC160-08-17.500A1-	17,5		153	223	171	48	18	WJ30ET	
DC160-08-18.000A1-	18		153	223	171	48	18	WJ30ET	
DC160-08-18.500A1-	18,5		170	244	190	50	20	WJ30ET	
DC160-08-19.000A1-	19		170	244	190	50	20	WJ30ET	
DC160-08-19.050A1-	19,05	3/4"	170	244	190	50	20	WJ30ET	
DC160-08-19.500A1-	19,5		170	244	190	50	20	WJ30ET	
DC160-08-20.000A1-	20		170	244	190	50	20	WJ30ET	

Ordering example for the WJ30ET grade: DC160-08-03.000A1-WJ30ET

B1

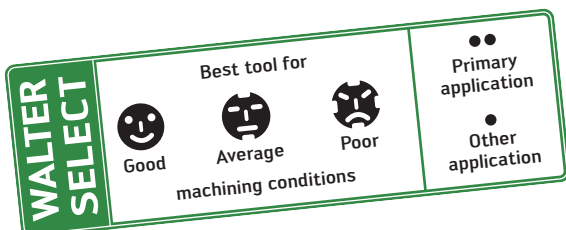
Solid carbide drills with coolant-through DC160 Advance



	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30EU
Shank DIN 6535 HA	DC160-12-03.000A1-	3		48	92	54	36	6	
	DC160-12-03.100A1-	3,1		48	92	54	36	6	
	DC160-12-03.175A1-	3,175	1/8"	48	92	54	36	6	
	DC160-12-03.200A1-	3,2		48	92	54	36	6	
	DC160-12-03.300A1-	3,3		48	92	54	36	6	
	DC160-12-03.400A1-	3,4		48	92	54	36	6	
	DC160-12-03.500A1-	3,5		48	92	54	36	6	
	DC160-12-03.572A1-	3,572	9/64"	48	92	54	36	6	
	DC160-12-03.600A1-	3,6		48	92	54	36	6	
	DC160-12-03.700A1-	3,7		48	92	54	36	6	
	DC160-12-03.800A1-	3,8		56	102	64	36	6	
	DC160-12-03.900A1-	3,9		56	102	64	36	6	
	DC160-12-03.969A1-	3,969	5/32"	56	102	64	36	6	
	DC160-12-04.000A1-	4		56	102	64	36	6	
	DC160-12-04.100A1-	4,1		56	102	64	36	6	
	DC160-12-04.200A1-	4,2		56	102	64	36	6	
	DC160-12-04.300A1-	4,3		56	102	64	36	6	
	DC160-12-04.366A1-	4,366	11/64"	56	102	64	36	6	
	DC160-12-04.400A1-	4,4		56	102	64	36	6	
	DC160-12-04.500A1-	4,5		56	102	64	36	6	
	DC160-12-04.600A1-	4,6		56	102	64	36	6	
	DC160-12-04.700A1-	4,7		56	102	64	36	6	
	DC160-12-04.763A1-	4,763	3/16"	74	121	83	36	6	
	DC160-12-04.800A1-	4,8		74	121	83	36	6	
	DC160-12-04.900A1-	4,9		74	121	83	36	6	
	DC160-12-05.000A1-	5		74	121	83	36	6	
	DC160-12-05.100A1-	5,1		74	121	83	36	6	
	DC160-12-05.159A1-	5,159	13/64"	74	121	83	36	6	
	DC160-12-05.200A1-	5,2		74	121	83	36	6	
	DC160-12-05.300A1-	5,3		74	121	83	36	6	
	DC160-12-05.400A1-	5,4		74	121	83	36	6	
	DC160-12-05.500A1-	5,5		74	121	83	36	6	
	DC160-12-05.550A1-	5,55		74	121	83	36	6	
	DC160-12-05.556A1-	5,556	7/32"	74	121	83	36	6	
	DC160-12-05.600A1-	5,6		74	121	83	36	6	
DC160-12-05.700A1-	5,7		74	121	83	36	6		
DC160-12-05.800A1-	5,8		74	121	83	36	6		
DC160-12-05.900A1-	5,9		74	121	83	36	6		
DC160-12-06.000A1-	6		74	121	83	36	6		
DC160-12-06.100A1-	6,1		98	148	110	36	8		
DC160-12-06.200A1-	6,2		98	148	110	36	8		
DC160-12-06.300A1-	6,3		98	148	110	36	8		
DC160-12-06.350A1-	6,35	1/4"	98	148	110	36	8		

Ordering example for the WJ30EU grade: DC160-12-03.000A1-WJ30EU

Continued



B1

Continued

		D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30EU
Shank DIN 6535 HA 	DC160-12-06.400A1-	6,4		98	148	110	36	8	☺☺☺
	DC160-12-06.500A1-	6,5		98	148	110	36	8	☺☺☺
	DC160-12-06.600A1-	6,6		98	148	110	36	8	☺☺☺
	DC160-12-06.700A1-	6,7		98	148	110	36	8	☺☺☺
	DC160-12-06.747A1-	6,747	17/64"	98	148	110	36	8	☺☺☺
	DC160-12-06.800A1-	6,8		98	148	110	36	8	☺☺☺
	DC160-12-06.900A1-	6,9		98	148	110	36	8	☺☺☺
	DC160-12-07.000A1-	7		98	148	110	36	8	☺☺☺
	DC160-12-07.100A1-	7,1		98	148	110	36	8	☺☺☺
	DC160-12-07.144A1-	7,144	9/32"	98	148	110	36	8	☺☺☺
	DC160-12-07.200A1-	7,2		98	148	110	36	8	☺☺☺
	DC160-12-07.300A1-	7,3		98	148	110	36	8	☺☺☺
	DC160-12-07.400A1-	7,4		98	148	110	36	8	☺☺☺
	DC160-12-07.500A1-	7,5		98	148	110	36	8	☺☺☺
	DC160-12-07.541A1-	7,541	19/64"	98	148	110	36	8	☺☺☺
	DC160-12-07.800A1-	7,8		98	148	110	36	8	☺☺☺
	DC160-12-07.900A1-	7,9		98	148	110	36	8	☺☺☺
	DC160-12-07.938A1-	7,938	5/16"	98	148	110	36	8	☺☺☺
	DC160-12-08.000A1-	8		98	148	110	36	8	☺☺☺
	DC160-12-08.100A1-	8,1		123	180	138	40	10	☺☺☺
	DC160-12-08.200A1-	8,2		123	180	138	40	10	☺☺☺
	DC160-12-08.300A1-	8,3		123	180	138	40	10	☺☺☺
	DC160-12-08.400A1-	8,4		123	180	138	40	10	☺☺☺
	DC160-12-08.500A1-	8,5		123	180	138	40	10	☺☺☺
	DC160-12-08.600A1-	8,6		123	180	138	40	10	☺☺☺
	DC160-12-08.700A1-	8,7		123	180	138	40	10	☺☺☺
	DC160-12-08.731A1-	8,731	11/32"	123	180	138	40	10	☺☺☺
	DC160-12-08.800A1-	8,8		123	180	138	40	10	☺☺☺
	DC160-12-09.000A1-	9		123	180	138	40	10	☺☺☺
	DC160-12-09.128A1-	9,128	23/64"	123	180	138	40	10	☺☺☺
	DC160-12-09.200A1-	9,2		123	180	138	40	10	☺☺☺
	DC160-12-09.300A1-	9,3		123	180	138	40	10	☺☺☺
	DC160-12-09.500A1-	9,5		123	180	138	40	10	☺☺☺
	DC160-12-09.525A1-	9,525	3/8"	123	180	138	40	10	☺☺☺
	DC160-12-09.600A1-	9,6		123	180	138	40	10	☺☺☺
DC160-12-09.700A1-	9,7		123	180	138	40	10	☺☺☺	
DC160-12-09.800A1-	9,8		123	180	138	40	10	☺☺☺	
DC160-12-09.922A1-	9,922	25/64"	123	180	138	40	10	☺☺☺	
DC160-12-10.000A1-	10		123	180	138	40	10	☺☺☺	
DC160-12-10.100A1-	10,1		140	206	158	45	12	☺☺☺	
DC160-12-10.200A1-	10,2		140	206	158	45	12	☺☺☺	
DC160-12-10.300A1-	10,3		140	206	158	45	12	☺☺☺	
DC160-12-10.319A1-	10,319	13/32"	140	206	158	45	12	☺☺☺	
DC160-12-10.400A1-	10,4		140	206	158	45	12	☺☺☺	
DC160-12-10.500A1-	10,5		140	206	158	45	12	☺☺☺	
DC160-12-10.716A1-	10,716	27/64"	140	206	158	45	12	☺☺☺	
DC160-12-10.800A1-	10,8		140	206	158	45	12	☺☺☺	
DC160-12-11.000A1-	11		140	206	158	45	12	☺☺☺	
DC160-12-11.100A1-	11,1		140	206	158	45	12	☺☺☺	
DC160-12-11.113A1-	11,113	7/16"	140	206	158	45	12	☺☺☺	
DC160-12-11.200A1-	11,2		140	206	158	45	12	☺☺☺	
DC160-12-11.500A1-	11,5		140	206	158	45	12	☺☺☺	
DC160-12-11.509A1-	11,509	29/64"	140	206	158	45	12	☺☺☺	
DC160-12-11.700A1-	11,7		140	206	158	45	12	☺☺☺	
DC160-12-11.800A1-	11,8		140	206	158	45	12	☺☺☺	
DC160-12-11.906A1-	11,906	15/32"	140	206	158	45	12	☺☺☺	
DC160-12-12.000A1-	12		140	206	158	45	12	☺☺☺	
DC160-12-12.100A1-	12,1		168	230	182	45	14	☺☺☺	
DC160-12-12.200A1-	12,2		168	230	182	45	14	☺☺☺	
DC160-12-12.300A1-	12,3		168	230	182	45	14	☺☺☺	
DC160-12-12.303A1-	12,303	31/64"	168	230	182	45	14	☺☺☺	

Ordering example for the WJ30EU grade: DC160-12-03.000A1-WJ30EU

Continued

/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30EU
	Shank DIN 6535 HA								
	DC160-12-12.500A1-	12,5		168	230	182	45	14	☺☺
	DC160-12-12.600A1-	12,6		168	230	182	45	14	☺☺
	DC160-12-12.700A1-	12,7	1/2"	168	230	182	45	14	☺☺
	DC160-12-13.000A1-	13		168	230	182	45	14	☺☺
	DC160-12-13.494A1-	13,494	17/32"	168	230	182	45	14	☺☺
	DC160-12-13.500A1-	13,5		168	230	182	45	14	☺☺
	DC160-12-14.000A1-	14		168	230	182	45	14	☺☺
	DC160-12-14.288A1-	14,288	9/16"	192	260	208	48	16	☺☺
	DC160-12-14.500A1-	14,5		192	260	208	48	16	☺☺
	DC160-12-15.000A1-	15		192	260	208	48	16	☺☺
	DC160-12-15.500A1-	15,5		192	260	208	48	16	☺☺
	DC160-12-15.875A1-	15,875	5/8"	192	260	208	48	16	☺☺
	DC160-12-16.000A1-	16		192	260	208	48	16	☺☺
	DC160-12-16.500A1-	16,5		216	285	234	48	18	☺☺
	DC160-12-17.000A1-	17		216	285	234	48	18	☺☺
	DC160-12-17.500A1-	17,5		216	285	234	48	18	☺☺
	DC160-12-18.000A1-	18		216	285	234	48	18	☺☺
	DC160-12-18.500A1-	18,5		238	310	258	50	20	☺☺
	DC160-12-19.000A1-	19		238	310	258	50	20	☺☺
DC160-12-19.500A1-	19,5		238	310	258	50	20	☺☺	
DC160-12-20.000A1-	20		238	310	258	50	20	☺☺	

Ordering example for the WJ30EU grade: DC160-12-03.000A1-WJ30EU

B1

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹☹
Poor

machining conditions

•• Primary application

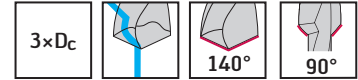
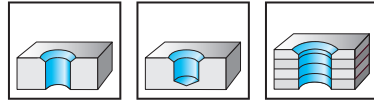
• Other application

Solid carbide chamfer drills

DC260 Advance



- Step length in accordance with DIN 8378
- For threaded core hole drilling



	P	M	K	N	S	H	O
WJ30ET	●	●	●	●	●	●	●

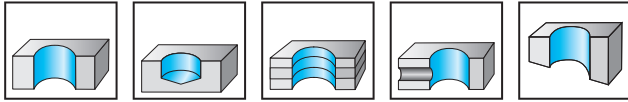
B1

	Designation	For thread	D _c m7 mm	d ₁₀ h7 mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA 	DC260-03-03.300A0-	M 4	3,3	5	11	66	28	36	6	●
	DC260-03-04.200A0-	M 5	4,2	6	14	66	28	36	6	●
	DC260-03-05.000A0-	M 6	5	8	17	79	41	36	8	●
	DC260-03-06.800A0-	M 8	6,8	10	21	89	47	40	10	●
	DC260-03-08.500A0-	M 10	8,5	12	26	102	55	45	12	●
	DC260-03-10.200A0-	M 12	10,2	14	30	107	60	45	14	●
	DC260-03-12.000A0-	M 14	12	16	35	115	65	48	16	●
	DC260-03-14.000A0-	M 16	14	18	39	123	73	48	18	●
Shank DIN 6535 HE 	DC260-03-03.300F0-	M 4	3,3	5	11	66	28	36	6	●
	DC260-03-04.200F0-	M 5	4,2	6	14	66	28	36	6	●
	DC260-03-05.000F0-	M 6	5	8	17	79	41	36	8	●
	DC260-03-06.800F0-	M 8	6,8	10	21	89	47	40	10	●
	DC260-03-07.000F0-	M 8 X 1	7	10	21	89	47	40	10	●
	DC260-03-08.500F0-	M 10	8,5	12	26	102	55	45	12	●
	DC260-03-09.000F0-	M 10 X 1	9	12	26	102	55	45	12	●
	DC260-03-10.200F0-	M 12	10,2	14	30	107	60	45	14	●
	DC260-03-10.500F0-	M 12 X 1,5	10,5	14	30	107	60	45	14	●
	DC260-03-12.000F0-	M 14	12	16	35	115	65	48	16	●
	DC260-03-12.500F0-	M 14 X 1,5	12,5	16	35	115	65	48	16	●
	DC260-03-14.000F0-	M 16	14	18	39	123	73	48	18	●
DC260-03-14.500F0-	M 16 X 1,5	14,5	18	39	123	73	48	18	●	

Ordering example for the WJ30ET grade: DC260-03-03.300A0-WJ30ET

Solid carbide twist drills

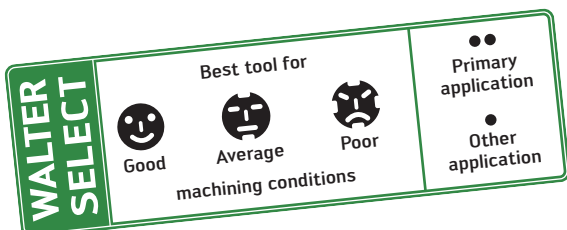
DC160 Advance



	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA 	DC160-03-03.000A0-	3		14	62	20	36	6	
	DC160-03-03.100A0-	3,1		14	62	20	36	6	
	DC160-03-03.175A0-	3,175	1/8"	14	62	20	36	6	
	DC160-03-03.200A0-	3,2		14	62	20	36	6	
	DC160-03-03.250A0-	3,25		14	62	20	36	6	
	DC160-03-03.300A0-	3,3		14	62	20	36	6	
	DC160-03-03.400A0-	3,4		14	62	20	36	6	
	DC160-03-03.500A0-	3,5		14	62	20	36	6	
	DC160-03-03.572A0-	3,572	9/64"	14	62	20	36	6	
	DC160-03-03.600A0-	3,6		14	62	20	36	6	
	DC160-03-03.650A0-	3,65		14	62	20	36	6	
	DC160-03-03.700A0-	3,7		14	62	20	36	6	
	DC160-03-03.800A0-	3,8		17	66	24	36	6	
	DC160-03-03.900A0-	3,9		17	66	24	36	6	
	DC160-03-03.969A0-	3,969	5/32"	17	66	24	36	6	
	DC160-03-04.000A0-	4		17	66	24	36	6	
	DC160-03-04.100A0-	4,1		17	66	24	36	6	
	DC160-03-04.200A0-	4,2		17	66	24	36	6	
	DC160-03-04.300A0-	4,3		17	66	24	36	6	
	DC160-03-04.366A0-	4,366	11/64"	17	66	24	36	6	
	DC160-03-04.400A0-	4,4		17	66	24	36	6	
	DC160-03-04.500A0-	4,5		17	66	24	36	6	
	DC160-03-04.600A0-	4,6		17	66	24	36	6	
	DC160-03-04.650A0-	4,65		17	66	24	36	6	
	DC160-03-04.700A0-	4,7		17	66	24	36	6	
	DC160-03-04.763A0-	4,763	3/16"	20	66	28	36	6	
	DC160-03-04.800A0-	4,8		20	66	28	36	6	
	DC160-03-04.900A0-	4,9		20	66	28	36	6	
	DC160-03-05.000A0-	5		20	66	28	36	6	
	DC160-03-05.100A0-	5,1		20	66	28	36	6	
	DC160-03-05.159A0-	5,159	13/64"	20	66	28	36	6	
	DC160-03-05.200A0-	5,2		20	66	28	36	6	
	DC160-03-05.300A0-	5,3		20	66	28	36	6	
	DC160-03-05.400A0-	5,4		20	66	28	36	6	
	DC160-03-05.500A0-	5,5		20	66	28	36	6	
	DC160-03-05.550A0-	5,55		20	66	28	36	6	
DC160-03-05.556A0-	5,556	7/32"	20	66	28	36	6		
DC160-03-05.600A0-	5,6		20	66	28	36	6		
DC160-03-05.700A0-	5,7		20	66	28	36	6		
DC160-03-05.800A0-	5,8		20	66	28	36	6		
DC160-03-05.900A0-	5,9		20	66	28	36	6		
DC160-03-05.953A0-	5,953	15/64"	20	66	28	36	6		
DC160-03-06.000A0-	6		20	66	28	36	6		

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued



B1

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA 	DC160-03-06.100A0-	6,1		24	79	34	36	8	☺
	DC160-03-06.200A0-	6,2		24	79	34	36	8	☺
	DC160-03-06.300A0-	6,3		24	79	34	36	8	☺
	DC160-03-06.350A0-	6,35	1/4"	24	79	34	36	8	☺
	DC160-03-06.400A0-	6,4		24	79	34	36	8	☺
	DC160-03-06.500A0-	6,5		24	79	34	36	8	☺
	DC160-03-06.600A0-	6,6		24	79	34	36	8	☺
	DC160-03-06.700A0-	6,7		24	79	34	36	8	☺
	DC160-03-06.747A0-	6,747	17/64"	24	79	34	36	8	☺
	DC160-03-06.800A0-	6,8		24	79	34	36	8	☺
	DC160-03-06.900A0-	6,9		24	79	34	36	8	☺
	DC160-03-07.000A0-	7		24	79	34	36	8	☺
	DC160-03-07.100A0-	7,1		29	79	41	36	8	☺
	DC160-03-07.144A0-	7,144	9/32"	29	79	41	36	8	☺
	DC160-03-07.200A0-	7,2		29	79	41	36	8	☺
	DC160-03-07.300A0-	7,3		29	79	41	36	8	☺
	DC160-03-07.400A0-	7,4		29	79	41	36	8	☺
	DC160-03-07.500A0-	7,5		29	79	41	36	8	☺
	DC160-03-07.541A0-	7,541	19/64"	29	79	41	36	8	☺
	DC160-03-07.550A0-	7,55		29	79	41	36	8	☺
	DC160-03-07.600A0-	7,6		29	79	41	36	8	☺
	DC160-03-07.700A0-	7,7		29	79	41	36	8	☺
	DC160-03-07.800A0-	7,8		29	79	41	36	8	☺
	DC160-03-07.900A0-	7,9		29	79	41	36	8	☺
	DC160-03-07.938A0-	7,938	5/16"	29	79	41	36	8	☺
	DC160-03-08.000A0-	8		29	79	41	36	8	☺
	DC160-03-08.100A0-	8,1		35	89	47	40	10	☺
	DC160-03-08.200A0-	8,2		35	89	47	40	10	☺
	DC160-03-08.300A0-	8,3		35	89	47	40	10	☺
	DC160-03-08.334A0-	8,334	21/64"	35	89	47	40	10	☺
	DC160-03-08.400A0-	8,4		35	89	47	40	10	☺
	DC160-03-08.500A0-	8,5		35	89	47	40	10	☺
	DC160-03-08.600A0-	8,6		35	89	47	40	10	☺
	DC160-03-08.700A0-	8,7		35	89	47	40	10	☺
	DC160-03-08.731A0-	8,731	11/32"	35	89	47	40	10	☺
	DC160-03-08.800A0-	8,8		35	89	47	40	10	☺
	DC160-03-08.900A0-	8,9		35	89	47	40	10	☺
	DC160-03-09.000A0-	9		35	89	47	40	10	☺
	DC160-03-09.100A0-	9,1		35	89	47	40	10	☺
	DC160-03-09.128A0-	9,128	23/64"	35	89	47	40	10	☺
	DC160-03-09.200A0-	9,2		35	89	47	40	10	☺
	DC160-03-09.300A0-	9,3		35	89	47	40	10	☺
	DC160-03-09.400A0-	9,4		35	89	47	40	10	☺
	DC160-03-09.500A0-	9,5		35	89	47	40	10	☺
	DC160-03-09.525A0-	9,525	3/8"	35	89	47	40	10	☺
DC160-03-09.550A0-	9,55		35	89	47	40	10	☺	
DC160-03-09.600A0-	9,6		35	89	47	40	10	☺	
DC160-03-09.700A0-	9,7		35	89	47	40	10	☺	
DC160-03-09.800A0-	9,8		35	89	47	40	10	☺	
DC160-03-09.900A0-	9,9		35	89	47	40	10	☺	
DC160-03-09.922A0-	9,922	25/64"	35	89	47	40	10	☺	
DC160-03-10.000A0-	10		35	89	47	40	10	☺	
DC160-03-10.100A0-	10,1		40	102	55	45	12	☺	
DC160-03-10.200A0-	10,2		40	102	55	45	12	☺	
DC160-03-10.300A0-	10,3		40	102	55	45	12	☺	
DC160-03-10.319A0-	10,319	13/32"	40	102	55	45	12	☺	
DC160-03-10.400A0-	10,4		40	102	55	45	12	☺	
DC160-03-10.500A0-	10,5		40	102	55	45	12	☺	
DC160-03-10.600A0-	10,6		40	102	55	45	12	☺	
DC160-03-10.700A0-	10,7		40	102	55	45	12	☺	
DC160-03-10.716A0-	10,716	27/64"	40	102	55	45	12	☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA 	DC160-03-10.800A0-	10,8		40	102	55	45	12	☺
	DC160-03-10.900A0-	10,9		40	102	55	45	12	☺
	DC160-03-11.000A0-	11		40	102	55	45	12	☺
	DC160-03-11.100A0-	11,1		40	102	55	45	12	☺
	DC160-03-11.113A0-	11,113	7/16"	40	102	55	45	12	☺
	DC160-03-11.200A0-	11,2		40	102	55	45	12	☺
	DC160-03-11.300A0-	11,3		40	102	55	45	12	☺
	DC160-03-11.400A0-	11,4		40	102	55	45	12	☺
	DC160-03-11.500A0-	11,5		40	102	55	45	12	☺
	DC160-03-11.509A0-	11,509	29/64"	40	102	55	45	12	☺
	DC160-03-11.550A0-	11,55		40	102	55	45	12	☺
	DC160-03-11.600A0-	11,6		40	102	55	45	12	☺
	DC160-03-11.700A0-	11,7		40	102	55	45	12	☺
	DC160-03-11.800A0-	11,8		40	102	55	45	12	☺
	DC160-03-11.900A0-	11,9		40	102	55	45	12	☺
	DC160-03-11.906A0-	11,906	15/32"	40	102	55	45	12	☺
	DC160-03-12.000A0-	12		40	102	55	45	12	☺
	DC160-03-12.100A0-	12,1		43	107	60	45	14	☺
	DC160-03-12.200A0-	12,2		43	107	60	45	14	☺
	DC160-03-12.250A0-	12,25		43	107	60	45	14	☺
	DC160-03-12.300A0-	12,3		43	107	60	45	14	☺
	DC160-03-12.303A0-	12,303	31/64"	43	107	60	45	14	☺
	DC160-03-12.400A0-	12,4		43	107	60	45	14	☺
	DC160-03-12.500A0-	12,5		43	107	60	45	14	☺
	DC160-03-12.600A0-	12,6		43	107	60	45	14	☺
	DC160-03-12.700A0-	12,7	1/2"	43	107	60	45	14	☺
	DC160-03-12.750A0-	12,75		43	107	60	45	14	☺
	DC160-03-12.800A0-	12,8		43	107	60	45	14	☺
	DC160-03-12.900A0-	12,9		43	107	60	45	14	☺
	DC160-03-13.000A0-	13		43	107	60	45	14	☺
	DC160-03-13.100A0-	13,1		43	107	60	45	14	☺
	DC160-03-13.200A0-	13,2		43	107	60	45	14	☺
	DC160-03-13.300A0-	13,3		43	107	60	45	14	☺
	DC160-03-13.400A0-	13,4		43	107	60	45	14	☺
	DC160-03-13.494A0-	13,494	17/32"	43	107	60	45	14	☺
DC160-03-13.500A0-	13,5		43	107	60	45	14	☺	
DC160-03-13.600A0-	13,6		43	107	60	45	14	☺	
DC160-03-13.700A0-	13,7		43	107	60	45	14	☺	
DC160-03-13.800A0-	13,8		43	107	60	45	14	☺	
DC160-03-13.900A0-	13,9		43	107	60	45	14	☺	
DC160-03-14.000A0-	14		43	107	60	45	14	☺	
DC160-03-14.100A0-	14,1		45	115	65	48	16	☺	
DC160-03-14.200A0-	14,2		45	115	65	48	16	☺	
DC160-03-14.288A0-	14,288	9/16"	45	115	65	48	16	☺	
DC160-03-14.300A0-	14,3		45	115	65	48	16	☺	
DC160-03-14.400A0-	14,4		45	115	65	48	16	☺	
DC160-03-14.500A0-	14,5		45	115	65	48	16	☺	
DC160-03-14.600A0-	14,6		45	115	65	48	16	☺	
DC160-03-14.700A0-	14,7		45	115	65	48	16	☺	
DC160-03-14.750A0-	14,75		45	115	65	48	16	☺	
DC160-03-14.800A0-	14,8		45	115	65	48	16	☺	
DC160-03-15.000A0-	15		45	115	65	48	16	☺	
DC160-03-15.100A0-	15,1		45	115	65	48	16	☺	
DC160-03-15.200A0-	15,2		45	115	65	48	16	☺	
DC160-03-15.300A0-	15,3		45	115	65	48	16	☺	
DC160-03-15.500A0-	15,5		45	115	65	48	16	☺	
DC160-03-15.600A0-	15,6		45	115	65	48	16	☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹
Poor

machining conditions

•• Primary application

• Other application

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
Shank DIN 6535 HA 	DC160-03-15.700A0-	15,7		45	115	65	48	16	WJ30ET
	DC160-03-15.800A0-	15,8		45	115	65	48	16	WJ30ET
	DC160-03-15.875A0-	15,875	5/8"	45	115	65	48	16	WJ30ET
	DC160-03-15.900A0-	15,9		45	115	65	48	16	WJ30ET
	DC160-03-16.000A0-	16		45	115	65	48	16	WJ30ET
	DC160-03-16.100A0-	16,1		51	123	73	48	18	WJ30ET
	DC160-03-16.200A0-	16,2		51	123	73	48	18	WJ30ET
	DC160-03-16.300A0-	16,3		51	123	73	48	18	WJ30ET
	DC160-03-16.400A0-	16,4		51	123	73	48	18	WJ30ET
	DC160-03-16.500A0-	16,5		51	123	73	48	18	WJ30ET
	DC160-03-16.600A0-	16,6		51	123	73	48	18	WJ30ET
	DC160-03-16.700A0-	16,7		51	123	73	48	18	WJ30ET
	DC160-03-16.750A0-	16,75		51	123	73	48	18	WJ30ET
	DC160-03-16.800A0-	16,8		51	123	73	48	18	WJ30ET
	DC160-03-17.000A0-	17		51	123	73	48	18	WJ30ET
	DC160-03-17.200A0-	17,2		51	123	73	48	18	WJ30ET
	DC160-03-17.300A0-	17,3		51	123	73	48	18	WJ30ET
	DC160-03-17.500A0-	17,5		51	123	73	48	18	WJ30ET
	DC160-03-17.600A0-	17,6		51	123	73	48	18	WJ30ET
	DC160-03-17.700A0-	17,7		51	123	73	48	18	WJ30ET
DC160-03-17.800A0-	17,8		51	123	73	48	18	WJ30ET	
DC160-03-18.000A0-	18		51	123	73	48	18	WJ30ET	
DC160-03-18.200A0-	18,2		55	131	79	50	20	WJ30ET	
DC160-03-18.500A0-	18,5		55	131	79	50	20	WJ30ET	
DC160-03-18.700A0-	18,7		55	131	79	50	20	WJ30ET	
DC160-03-18.800A0-	18,8		55	131	79	50	20	WJ30ET	
DC160-03-19.000A0-	19		55	131	79	50	20	WJ30ET	
DC160-03-19.050A0-	19,05	3/4"	55	131	79	50	20	WJ30ET	
DC160-03-19.500A0-	19,5		55	131	79	50	20	WJ30ET	
DC160-03-19.700A0-	19,7		55	131	79	50	20	WJ30ET	
DC160-03-19.800A0-	19,8		55	131	79	50	20	WJ30ET	
DC160-03-20.000A0-	20		55	131	79	50	20	WJ30ET	
Shank DIN 6535 HE 	DC160-03-03.000F0-	3		14	62	20	36	6	WJ30ET
	DC160-03-03.100F0-	3,1		14	62	20	36	6	WJ30ET
	DC160-03-03.200F0-	3,2		14	62	20	36	6	WJ30ET
	DC160-03-03.250F0-	3,25		14	62	20	36	6	WJ30ET
	DC160-03-03.300F0-	3,3		14	62	20	36	6	WJ30ET
	DC160-03-03.400F0-	3,4		14	62	20	36	6	WJ30ET
	DC160-03-03.500F0-	3,5		14	62	20	36	6	WJ30ET
	DC160-03-03.600F0-	3,6		14	62	20	36	6	WJ30ET
	DC160-03-03.650F0-	3,65		14	62	20	36	6	WJ30ET
	DC160-03-03.700F0-	3,7		14	62	20	36	6	WJ30ET
	DC160-03-03.800F0-	3,8		17	66	24	36	6	WJ30ET
	DC160-03-03.900F0-	3,9		17	66	24	36	6	WJ30ET
	DC160-03-04.000F0-	4		17	66	24	36	6	WJ30ET
	DC160-03-04.100F0-	4,1		17	66	24	36	6	WJ30ET
	DC160-03-04.200F0-	4,2		17	66	24	36	6	WJ30ET
	DC160-03-04.300F0-	4,3		17	66	24	36	6	WJ30ET
	DC160-03-04.400F0-	4,4		17	66	24	36	6	WJ30ET
	DC160-03-04.500F0-	4,5		17	66	24	36	6	WJ30ET
	DC160-03-04.600F0-	4,6		17	66	24	36	6	WJ30ET
	DC160-03-04.650F0-	4,65		17	66	24	36	6	WJ30ET
	DC160-03-04.700F0-	4,7		17	66	24	36	6	WJ30ET
	DC160-03-04.800F0-	4,8		20	66	28	36	6	WJ30ET
	DC160-03-04.900F0-	4,9		20	66	28	36	6	WJ30ET
	DC160-03-05.000F0-	5		20	66	28	36	6	WJ30ET
	DC160-03-05.100F0-	5,1		20	66	28	36	6	WJ30ET
	DC160-03-05.200F0-	5,2		20	66	28	36	6	WJ30ET
	DC160-03-05.300F0-	5,3		20	66	28	36	6	WJ30ET
DC160-03-05.400F0-	5,4		20	66	28	36	6	WJ30ET	
DC160-03-05.500F0-	5,5		20	66	28	36	6	WJ30ET	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-03-05.550FO-	5,55		20	66	28	36	6	☺
	DC160-03-05.600FO-	5,6		20	66	28	36	6	☺
	DC160-03-05.700FO-	5,7		20	66	28	36	6	☺
	DC160-03-05.800FO-	5,8		20	66	28	36	6	☺
	DC160-03-05.900FO-	5,9		20	66	28	36	6	☺
	DC160-03-06.000FO-	6		20	66	28	36	6	☺
	DC160-03-06.100FO-	6,1		24	79	34	36	8	☺
	DC160-03-06.200FO-	6,2		24	79	34	36	8	☺
	DC160-03-06.300FO-	6,3		24	79	34	36	8	☺
	DC160-03-06.400FO-	6,4		24	79	34	36	8	☺
	DC160-03-06.500FO-	6,5		24	79	34	36	8	☺
	DC160-03-06.600FO-	6,6		24	79	34	36	8	☺
	DC160-03-06.700FO-	6,7		24	79	34	36	8	☺
	DC160-03-06.800FO-	6,8		24	79	34	36	8	☺
	DC160-03-06.900FO-	6,9		24	79	34	36	8	☺
	DC160-03-07.000FO-	7		24	79	34	36	8	☺
	DC160-03-07.100FO-	7,1		29	79	41	36	8	☺
	DC160-03-07.200FO-	7,2		29	79	41	36	8	☺
	DC160-03-07.300FO-	7,3		29	79	41	36	8	☺
	DC160-03-07.400FO-	7,4		29	79	41	36	8	☺
	DC160-03-07.500FO-	7,5		29	79	41	36	8	☺
	DC160-03-07.550FO-	7,55		29	79	41	36	8	☺
	DC160-03-07.600FO-	7,6		29	79	41	36	8	☺
	DC160-03-07.700FO-	7,7		29	79	41	36	8	☺
	DC160-03-07.800FO-	7,8		29	79	41	36	8	☺
	DC160-03-07.900FO-	7,9		29	79	41	36	8	☺
	DC160-03-08.000FO-	8		29	79	41	36	8	☺
	DC160-03-08.100FO-	8,1		35	89	47	40	10	☺
	DC160-03-08.200FO-	8,2		35	89	47	40	10	☺
	DC160-03-08.300FO-	8,3		35	89	47	40	10	☺
	DC160-03-08.400FO-	8,4		35	89	47	40	10	☺
	DC160-03-08.500FO-	8,5		35	89	47	40	10	☺
	DC160-03-08.600FO-	8,6		35	89	47	40	10	☺
	DC160-03-08.700FO-	8,7		35	89	47	40	10	☺
	DC160-03-08.800FO-	8,8		35	89	47	40	10	☺
DC160-03-08.900FO-	8,9		35	89	47	40	10	☺	
DC160-03-09.000FO-	9		35	89	47	40	10	☺	
DC160-03-09.100FO-	9,1		35	89	47	40	10	☺	
DC160-03-09.200FO-	9,2		35	89	47	40	10	☺	
DC160-03-09.300FO-	9,3		35	89	47	40	10	☺	
DC160-03-09.400FO-	9,4		35	89	47	40	10	☺	
DC160-03-09.500FO-	9,5		35	89	47	40	10	☺	
DC160-03-09.550FO-	9,55		35	89	47	40	10	☺	
DC160-03-09.600FO-	9,6		35	89	47	40	10	☺	
DC160-03-09.700FO-	9,7		35	89	47	40	10	☺	
DC160-03-09.800FO-	9,8		35	89	47	40	10	☺	
DC160-03-09.900FO-	9,9		35	89	47	40	10	☺	
DC160-03-10.000FO-	10		35	89	47	40	10	☺	
DC160-03-10.100FO-	10,1		40	102	55	45	12	☺	
DC160-03-10.200FO-	10,2		40	102	55	45	12	☺	
DC160-03-10.300FO-	10,3		40	102	55	45	12	☺	
DC160-03-10.400FO-	10,4		40	102	55	45	12	☺	
DC160-03-10.500FO-	10,5		40	102	55	45	12	☺	
DC160-03-10.600FO-	10,6		40	102	55	45	12	☺	
DC160-03-10.700FO-	10,7		40	102	55	45	12	☺	
DC160-03-10.800FO-	10,8		40	102	55	45	12	☺	
DC160-03-10.900FO-	10,9		40	102	55	45	12	☺	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹
Poor

machining conditions

•• Primary application

• Other application

B1

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-03-11.000FO-	11		40	102	55	45	12	WJ30ET
	DC160-03-11.100FO-	11,1		40	102	55	45	12	WJ30ET
	DC160-03-11.200FO-	11,2		40	102	55	45	12	WJ30ET
	DC160-03-11.300FO-	11,3		40	102	55	45	12	WJ30ET
	DC160-03-11.400FO-	11,4		40	102	55	45	12	WJ30ET
	DC160-03-11.500FO-	11,5		40	102	55	45	12	WJ30ET
	DC160-03-11.550FO-	11,55		40	102	55	45	12	WJ30ET
	DC160-03-11.600FO-	11,6		40	102	55	45	12	WJ30ET
	DC160-03-11.700FO-	11,7		40	102	55	45	12	WJ30ET
	DC160-03-11.800FO-	11,8		40	102	55	45	12	WJ30ET
	DC160-03-11.900FO-	11,9		40	102	55	45	12	WJ30ET
	DC160-03-12.000FO-	12		40	102	55	45	12	WJ30ET
	DC160-03-12.100FO-	12,1		43	107	60	45	14	WJ30ET
	DC160-03-12.200FO-	12,2		43	107	60	45	14	WJ30ET
	DC160-03-12.250FO-	12,25		43	107	60	45	14	WJ30ET
	DC160-03-12.300FO-	12,3		43	107	60	45	14	WJ30ET
	DC160-03-12.400FO-	12,4		43	107	60	45	14	WJ30ET
	DC160-03-12.500FO-	12,5		43	107	60	45	14	WJ30ET
	DC160-03-12.600FO-	12,6		43	107	60	45	14	WJ30ET
	DC160-03-12.700FO-	12,7	1/2"	43	107	60	45	14	WJ30ET
	DC160-03-12.750FO-	12,75		43	107	60	45	14	WJ30ET
	DC160-03-12.800FO-	12,8		43	107	60	45	14	WJ30ET
	DC160-03-12.900FO-	12,9		43	107	60	45	14	WJ30ET
	DC160-03-13.000FO-	13		43	107	60	45	14	WJ30ET
	DC160-03-13.100FO-	13,1		43	107	60	45	14	WJ30ET
	DC160-03-13.200FO-	13,2		43	107	60	45	14	WJ30ET
	DC160-03-13.300FO-	13,3		43	107	60	45	14	WJ30ET
	DC160-03-13.400FO-	13,4		43	107	60	45	14	WJ30ET
	DC160-03-13.500FO-	13,5		43	107	60	45	14	WJ30ET
	DC160-03-13.600FO-	13,6		43	107	60	45	14	WJ30ET
	DC160-03-13.700FO-	13,7		43	107	60	45	14	WJ30ET
	DC160-03-13.800FO-	13,8		43	107	60	45	14	WJ30ET
	DC160-03-13.900FO-	13,9		43	107	60	45	14	WJ30ET
	DC160-03-14.000FO-	14		43	107	60	45	14	WJ30ET
DC160-03-14.100FO-	14,1		45	115	65	48	16	WJ30ET	
DC160-03-14.200FO-	14,2		45	115	65	48	16	WJ30ET	
DC160-03-14.300FO-	14,3		45	115	65	48	16	WJ30ET	
DC160-03-14.400FO-	14,4		45	115	65	48	16	WJ30ET	
DC160-03-14.500FO-	14,5		45	115	65	48	16	WJ30ET	
DC160-03-14.600FO-	14,6		45	115	65	48	16	WJ30ET	
DC160-03-14.700FO-	14,7		45	115	65	48	16	WJ30ET	
DC160-03-14.750FO-	14,75		45	115	65	48	16	WJ30ET	
DC160-03-14.800FO-	14,8		45	115	65	48	16	WJ30ET	
DC160-03-15.000FO-	15		45	115	65	48	16	WJ30ET	
DC160-03-15.100FO-	15,1		45	115	65	48	16	WJ30ET	
DC160-03-15.200FO-	15,2		45	115	65	48	16	WJ30ET	
DC160-03-15.300FO-	15,3		45	115	65	48	16	WJ30ET	
DC160-03-15.500FO-	15,5		45	115	65	48	16	WJ30ET	
DC160-03-15.600FO-	15,6		45	115	65	48	16	WJ30ET	
DC160-03-15.700FO-	15,7		45	115	65	48	16	WJ30ET	
DC160-03-15.800FO-	15,8		45	115	65	48	16	WJ30ET	
DC160-03-15.900FO-	15,9		45	115	65	48	16	WJ30ET	
DC160-03-16.000FO-	16		45	115	65	48	16	WJ30ET	
DC160-03-16.100FO-	16,1		51	123	73	48	18	WJ30ET	
DC160-03-16.200FO-	16,2		51	123	73	48	18	WJ30ET	
DC160-03-16.300FO-	16,3		51	123	73	48	18	WJ30ET	
DC160-03-16.400FO-	16,4		51	123	73	48	18	WJ30ET	
DC160-03-16.500FO-	16,5		51	123	73	48	18	WJ30ET	
DC160-03-16.600FO-	16,6		51	123	73	48	18	WJ30ET	
DC160-03-16.700FO-	16,7		51	123	73	48	18	WJ30ET	
DC160-03-16.750FO-	16,75		51	123	73	48	18	WJ30ET	

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

Continued

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Shank DIN 6535 HE								
	DC160-03-16.800F0-	16,8		51	123	73	48	18	☺
	DC160-03-17.000F0-	17		51	123	73	48	18	☺
	DC160-03-17.200F0-	17,2		51	123	73	48	18	☺
	DC160-03-17.300F0-	17,3		51	123	73	48	18	☺
	DC160-03-17.500F0-	17,5		51	123	73	48	18	☺
	DC160-03-17.600F0-	17,6		51	123	73	48	18	☺
	DC160-03-17.700F0-	17,7		51	123	73	48	18	☺
	DC160-03-17.800F0-	17,8		51	123	73	48	18	☺
	DC160-03-18.000F0-	18		51	123	73	48	18	☺
	DC160-03-18.200F0-	18,2		55	131	79	50	20	☺
	DC160-03-18.500F0-	18,5		55	131	79	50	20	☺
	DC160-03-18.700F0-	18,7		55	131	79	50	20	☺
	DC160-03-18.800F0-	18,8		55	131	79	50	20	☺
	DC160-03-19.000F0-	19		55	131	79	50	20	☺
	DC160-03-19.500F0-	19,5		55	131	79	50	20	☺
	DC160-03-19.700F0-	19,7		55	131	79	50	20	☺
	DC160-03-19.800F0-	19,8		55	131	79	50	20	☺
	DC160-03-20.000F0-	20		55	131	79	50	20	☺

Ordering example for the WJ30ET grade: DC160-03-03.000A0-WJ30ET

B1

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹
Poor

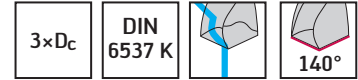
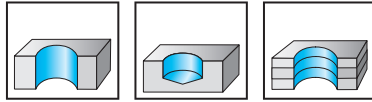
machining conditions

•• Primary application

• Other application

Solid carbide twist drills

DC150 Perform



P	M	K	N	S	H	O
●	●	●	●	●	●	●

WJ30RE

B1

Designation	D _c m7 mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB							
DC150-03-03.000D0-	3	14	62	20	36	6	●
DC150-03-03.100D0-	3,1	14	62	20	36	6	●
DC150-03-03.200D0-	3,2	14	62	20	36	6	●
DC150-03-03.300D0-	3,3	14	62	20	36	6	●
DC150-03-03.400D0-	3,4	14	62	20	36	6	●
DC150-03-03.500D0-	3,5	14	62	20	36	6	●
DC150-03-03.600D0-	3,6	14	62	20	36	6	●
DC150-03-03.700D0-	3,7	14	62	20	36	6	●
DC150-03-03.800D0-	3,8	17	66	24	36	6	●
DC150-03-03.900D0-	3,9	17	66	24	36	6	●
DC150-03-04.000D0-	4	17	66	24	36	6	●
DC150-03-04.200D0-	4,2	17	66	24	36	6	●
DC150-03-04.300D0-	4,3	17	66	24	36	6	●
DC150-03-04.500D0-	4,5	17	66	24	36	6	●
DC150-03-04.650D0-	4,65	17	66	24	36	6	●
DC150-03-04.700D0-	4,7	17	66	24	36	6	●
DC150-03-04.800D0-	4,8	20	66	28	36	6	●
DC150-03-05.000D0-	5	20	66	28	36	6	●
DC150-03-05.100D0-	5,1	20	66	28	36	6	●
DC150-03-05.300D0-	5,3	20	66	28	36	6	●
DC150-03-05.500D0-	5,5	20	66	28	36	6	●
DC150-03-05.550D0-	5,55	20	66	28	36	6	●
DC150-03-05.600D0-	5,6	20	66	28	36	6	●
DC150-03-05.800D0-	5,8	20	66	28	36	6	●
DC150-03-06.000D0-	6	20	66	28	36	6	●
DC150-03-06.100D0-	6,1	24	79	34	36	8	●
DC150-03-06.200D0-	6,2	24	79	34	36	8	●
DC150-03-06.300D0-	6,3	24	79	34	36	8	●
DC150-03-06.500D0-	6,5	24	79	34	36	8	●
DC150-03-06.600D0-	6,6	24	79	34	36	8	●
DC150-03-06.700D0-	6,7	24	79	34	36	8	●
DC150-03-06.800D0-	6,8	24	79	34	36	8	●
DC150-03-07.000D0-	7	24	79	34	36	8	●
DC150-03-07.100D0-	7,1	29	79	41	36	8	●
DC150-03-07.400D0-	7,4	29	79	41	36	8	●
DC150-03-07.500D0-	7,5	29	79	41	36	8	●
DC150-03-07.600D0-	7,6	29	79	41	36	8	●
DC150-03-07.800D0-	7,8	29	79	41	36	8	●
DC150-03-08.000D0-	8	29	79	41	36	8	●
DC150-03-08.100D0-	8,1	35	89	47	40	10	●
DC150-03-08.200D0-	8,2	35	89	47	40	10	●
DC150-03-08.300D0-	8,3	35	89	47	40	10	●
DC150-03-08.400D0-	8,4	35	89	47	40	10	●
DC150-03-08.500D0-	8,5	35	89	47	40	10	●
DC150-03-08.600D0-	8,6	35	89	47	40	10	●
DC150-03-08.700D0-	8,7	35	89	47	40	10	●
DC150-03-08.800D0-	8,8	35	89	47	40	10	●

Ordering example for the WJ30RE grade: DC150-03-03.000D0-WJ30RE

Continued

Continued

	Designation	D _c m7 mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB 	DC150-03-09.000D0-	9	35	89	47	40	10	☺
	DC150-03-09.100D0-	9,1	35	89	47	40	10	☺
	DC150-03-09.500D0-	9,5	35	89	47	40	10	☺
	DC150-03-09.700D0-	9,5	35	89	47	40	10	☺
	DC150-03-09.800D0-	9,8	35	89	47	40	10	☺
	DC150-03-10.000D0-	10	35	89	47	40	10	☺
	DC150-03-10.100D0-	10,1	40	102	55	45	12	☺
	DC150-03-10.200D0-	10,2	40	102	55	45	12	☺
	DC150-03-10.300D0-	10,3	40	102	55	45	12	☺
	DC150-03-10.400D0-	10,4	40	102	55	45	12	☺
	DC150-03-10.500D0-	10,5	40	102	55	45	12	☺
	DC150-03-10.600D0-	10,6	40	102	55	45	12	☺
	DC150-03-10.800D0-	10,8	40	102	55	45	12	☺
	DC150-03-10.900D0-	10,9	40	102	55	45	12	☺
	DC150-03-11.000D0-	11	40	102	55	45	12	☺
	DC150-03-11.100D0-	11,1	40	102	55	45	12	☺
	DC150-03-11.200D0-	11,2	40	102	55	45	12	☺
	DC150-03-11.300D0-	11,3	40	102	55	45	12	☺
	DC150-03-11.500D0-	11,5	40	102	55	45	12	☺
	DC150-03-11.600D0-	11,6	40	102	55	45	12	☺
DC150-03-11.800D0-	11,8	40	102	55	45	12	☺	
DC150-03-12.000D0-	12	40	102	55	45	12	☺	
DC150-03-12.200D0-	12,2	43	107	60	45	14	☺	
DC150-03-12.300D0-	12,3	43	107	60	45	14	☺	
DC150-03-12.500D0-	12,5	43	107	60	45	14	☺	
DC150-03-13.000D0-	13	43	107	60	45	14	☺	
DC150-03-13.200D0-	13,2	43	107	60	45	14	☺	
DC150-03-13.300D0-	13,3	43	107	60	45	14	☺	
DC150-03-13.400D0-	13,4	43	107	60	45	14	☺	
DC150-03-13.500D0-	13,5	43	107	60	45	14	☺	
DC150-03-13.600D0-	13,6	43	107	60	45	14	☺	
DC150-03-13.800D0-	13,8	43	107	60	45	14	☺	
DC150-03-14.000D0-	14	43	107	60	45	14	☺	
DC150-03-14.500D0-	14,5	45	115	65	48	16	☺	
DC150-03-15.000D0-	15	45	115	65	48	16	☺	
DC150-03-15.100D0-	15,1	45	115	65	48	16	☺	
DC150-03-16.000D0-	16	45	115	65	48	16	☺	
DC150-03-16.500D0-	16,5	51	123	73	48	18	☺	
DC150-03-17.000D0-	17	51	123	73	48	18	☺	
DC150-03-17.500D0-	17,5	51	123	73	48	18	☺	
DC150-03-18.000D0-	18	51	123	73	48	18	☺	
DC150-03-18.500D0-	18,5	55	131	79	50	20	☺	
DC150-03-19.000D0-	19	55	131	79	50	20	☺	
DC150-03-20.000D0-	20	55	131	79	50	20	☺	

Ordering example for the WJ30RE grade: DC150-03-03.000D0-WJ30RE

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹
Poor

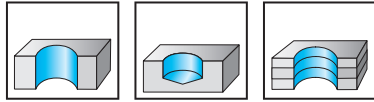
machining conditions

•• Primary application

• Other application

Solid carbide micro twist drills

DB130 Advance



B1

	Designation	D _c 0-0,004 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h8 mm	WJ30UU
Parallel shank	DB130-05-00.100U0-	0,1	0,3	25	0,5	1	●
	DB130-05-00.110U0-	0,11	0,3	25	0,5	1	●
	DB130-05-00.120U0-	0,12	0,3	25	0,5	1	●
	DB130-05-00.130U0-	0,13	0,5	25	0,8	1	●
	DB130-05-00.140U0-	0,14	0,5	25	0,8	1	●
	DB130-05-00.150U0-	0,15	0,5	25	0,8	1	●
	DB130-05-00.160U0-	0,16	0,8	25	1,1	1	●
	DB130-05-00.170U0-	0,17	0,8	25	1,1	1	●
	DB130-05-00.180U0-	0,18	0,8	25	1,1	1	●
	DB130-05-00.190U0-	0,19	0,8	25	1,1	1	●
	DB130-05-00.200U0-	0,2	1,1	25	1,5	1	●
	DB130-05-00.210U0-	0,21	1,1	25	1,5	1	●
	DB130-05-00.220U0-	0,22	1,1	25	1,5	1	●
	DB130-05-00.230U0-	0,23	1,1	25	1,5	1	●
	DB130-05-00.240U0-	0,24	1,1	25	1,5	1	●
	DB130-05-00.250U0-	0,25	1,4	25	1,9	1	●
	DB130-05-00.260U0-	0,26	1,4	25	1,9	1	●
	DB130-05-00.270U0-	0,27	1,4	25	1,9	1	●
	DB130-05-00.280U0-	0,28	1,4	25	1,9	1	●
	DB130-05-00.290U0-	0,29	1,4	25	1,9	1	●
	DB130-05-00.300U0-	0,3	1,4	25	1,9	1	●
	DB130-05-00.310U0-	0,31	1,8	25	2,4	1	●
	DB130-05-00.320U0-	0,32	1,8	25	2,4	1	●
	DB130-05-00.330U0-	0,33	1,8	25	2,4	1	●
	DB130-05-00.340U0-	0,34	1,8	25	2,4	1	●
	DB130-05-00.350U0-	0,35	1,8	25	2,4	1	●
	DB130-05-00.360U0-	0,36	1,8	25	2,4	1	●
	DB130-05-00.370U0-	0,37	1,8	25	2,4	1	●
	DB130-05-00.380U0-	0,38	1,8	25	2,4	1	●
	DB130-05-00.390U0-	0,39	2,2	25	3	1	●
	DB130-05-00.400U0-	0,4	2,2	25	3	1	●
	DB130-05-00.410U0-	0,41	2,2	25	3	1	●
DB130-05-00.420U0-	0,42	2,2	25	3	1	●	
DB130-05-00.430U0-	0,43	2,2	25	3	1	●	
DB130-05-00.440U0-	0,44	2,2	25	3	1	●	
DB130-05-00.450U0-	0,45	2,2	25	3	1	●	
DB130-05-00.460U0-	0,46	2,2	25	3	1	●	
DB130-05-00.470U0-	0,47	2,2	25	3	1	●	
DB130-05-00.480U0-	0,48	2,2	25	3	1	●	
DB130-05-00.490U0-	0,49	2,6	25	3,4	1	●	
DB130-05-00.500U0-	0,5	2,6	25	3,4	1	●	
DB130-05-00.510U0-	0,51	2,6	25	3,4	1	●	
DB130-05-00.520U0-	0,52	2,6	25	3,4	1	●	
DB130-05-00.530U0-	0,53	2,6	25	3,4	1	●	
DB130-05-00.540U0-	0,54	3	25	3,9	1	●	
DB130-05-00.550U0-	0,55	3	25	3,9	1	●	
DB130-05-00.560U0-	0,56	3	25	3,9	1	●	

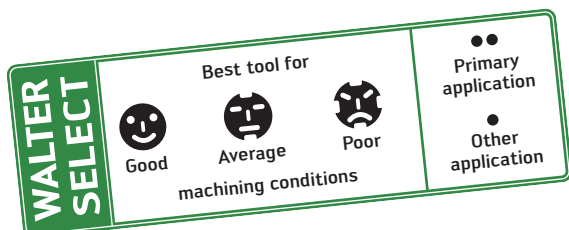
Ordering example for the WJ30UU grade: DB130-05-00.100U0-WJ30UU

Continued

Continued

	Designation	D _c 0-0,004 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h8 mm	WJ30UU
	DB130-05-00.570U0-	0,57	3	25	3,9	1	☺
	DB130-05-00.580U0-	0,58	3	25	3,9	1	☺
	DB130-05-00.590U0-	0,59	3	25	3,9	1	☺
	DB130-05-00.600U0-	0,6	3	25	3,9	1	☺
	DB130-05-00.610U0-	0,61	3,1	25	4,2	1	☺
	DB130-05-00.620U0-	0,62	3,1	25	4,2	1	☺
	DB130-05-00.630U0-	0,63	3,1	25	4,2	1	☺
	DB130-05-00.640U0-	0,64	3,1	25	4,2	1	☺
	DB130-05-00.650U0-	0,65	3,1	25	4,2	1	☺
	DB130-05-00.660U0-	0,66	3,1	25	4,2	1	☺
	DB130-05-00.670U0-	0,67	3,1	25	4,2	1	☺
	DB130-05-00.680U0-	0,68	3,6	25	4,8	1	☺
	DB130-05-00.690U0-	0,69	3,6	25	4,8	1	☺
	DB130-05-00.700U0-	0,7	3,6	25	4,8	1	☺
	DB130-05-00.710U0-	0,71	3,6	25	4,8	1	☺
	DB130-05-00.720U0-	0,72	3,6	25	4,8	1	☺
	DB130-05-00.730U0-	0,73	3,6	25	4,8	1	☺
	DB130-05-00.740U0-	0,74	3,6	25	4,8	1	☺
	DB130-05-00.750U0-	0,75	3,6	25	4,8	1	☺
	DB130-05-00.760U0-	0,76	4,1	25	5,3	1	☺
	DB130-05-00.770U0-	0,77	4,1	25	5,3	1	☺
	DB130-05-00.780U0-	0,78	4,1	25	5,3	1	☺
	DB130-05-00.790U0-	0,79	4,1	25	5,3	1	☺
	DB130-05-00.800U0-	0,8	4	25	5,3	1,5	☺
	DB130-05-00.810U0-	0,81	4	25	5,3	1,5	☺
	DB130-05-00.820U0-	0,82	4	25	5,3	1,5	☺
	DB130-05-00.830U0-	0,83	4	25	5,3	1,5	☺
	DB130-05-00.840U0-	0,84	4	25	5,3	1,5	☺
	DB130-05-00.850U0-	0,85	4	25	5,3	1,5	☺
	DB130-05-00.860U0-	0,86	4,5	25	6	1,5	☺
	DB130-05-00.870U0-	0,87	4,5	25	6	1,5	☺
	DB130-05-00.880U0-	0,88	4,5	25	6	1,5	☺
	DB130-05-00.890U0-	0,89	4,5	25	6	1,5	☺
	DB130-05-00.900U0-	0,9	4,5	25	6	1,5	☺
	DB130-05-00.910U0-	0,91	4,5	25	6	1,5	☺
	DB130-05-00.920U0-	0,92	4,5	25	6	1,5	☺
	DB130-05-00.930U0-	0,93	4,5	25	6	1,5	☺
	DB130-05-00.940U0-	0,94	4,5	25	6	1,5	☺
	DB130-05-00.950U0-	0,95	4,5	25	6	1,5	☺
	DB130-05-00.960U0-	0,96	5	25	6,8	1,5	☺
	DB130-05-00.970U0-	0,97	5	25	6,8	1,5	☺
	DB130-05-00.980U0-	0,98	5	25	6,8	1,5	☺
	DB130-05-00.990U0-	0,99	5	25	6,8	1,5	☺
	DB130-05-01.000U0-	1	5	25	6,8	1,5	☺
	DB130-05-01.050U0-	1,05	5	25	6,8	1,5	☺
DB130-05-01.100U0-	1,1	5	25	7,6	1,5	☺	
DB130-05-01.150U0-	1,15	5	25	7,6	1,5	☺	
DB130-05-01.200U0-	1,2	6	25	8,5	1,5	☺	
DB130-05-01.250U0-	1,25	6	25	8,5	1,5	☺	
DB130-05-01.300U0-	1,3	6	25	8,5	1,5	☺	
DB130-05-01.350U0-	1,35	7	25	9,5	1,5	☺	
DB130-05-01.400U0-	1,4	7	25	9,5	1,5	☺	
DB130-05-01.450U0-	1,45	7	25	9,5	1,5	☺	

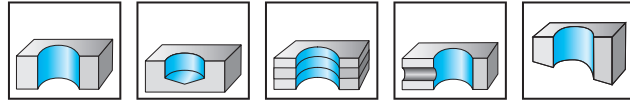
Ordering example for the WJ30UU grade: DB130-05-00.100U0-WJ30UU



B1

Solid carbide twist drills

DC160 Advance



WJ30ET	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

B1

Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
Shank DIN 6535 HA								
DC160-05-03.000A0-	3		23	66	28	36	6	●
DC160-05-03.100A0-	3,1		23	66	28	36	6	●
DC160-05-03.175A0-	3,175	1/8"	23	66	28	36	6	●
DC160-05-03.200A0-	3,2		23	66	28	36	6	●
DC160-05-03.250A0-	3,25		23	66	28	36	6	●
DC160-05-03.300A0-	3,3		23	66	28	36	6	●
DC160-05-03.400A0-	3,4		23	66	28	36	6	●
DC160-05-03.500A0-	3,5		23	66	28	36	6	●
DC160-05-03.572A0-	3,572	9/64"	23	66	28	36	6	●
DC160-05-03.600A0-	3,6		23	66	28	36	6	●
DC160-05-03.650A0-	3,65		23	66	28	36	6	●
DC160-05-03.700A0-	3,7		23	66	28	36	6	●
DC160-05-03.800A0-	3,8		29	74	36	36	6	●
DC160-05-03.900A0-	3,9		29	74	36	36	6	●
DC160-05-03.969A0-	3,969	5/32"	29	74	36	36	6	●
DC160-05-04.000A0-	4		29	74	36	36	6	●
DC160-05-04.100A0-	4,1		29	74	36	36	6	●
DC160-05-04.200A0-	4,2		29	74	36	36	6	●
DC160-05-04.300A0-	4,3		29	74	36	36	6	●
DC160-05-04.366A0-	4,366	11/64"	29	74	36	36	6	●
DC160-05-04.400A0-	4,4		29	74	36	36	6	●
DC160-05-04.500A0-	4,5		29	74	36	36	6	●
DC160-05-04.600A0-	4,6		29	74	36	36	6	●
DC160-05-04.650A0-	4,65		29	74	36	36	6	●
DC160-05-04.700A0-	4,7		29	74	36	36	6	●
DC160-05-04.763A0-	4,763	3/16"	35	82	44	36	6	●
DC160-05-04.800A0-	4,8		35	82	44	36	6	●
DC160-05-04.900A0-	4,9		35	82	44	36	6	●
DC160-05-05.000A0-	5		35	82	44	36	6	●
DC160-05-05.100A0-	5,1		35	82	44	36	6	●
DC160-05-05.159A0-	5,159	13/64"	35	82	44	36	6	●
DC160-05-05.200A0-	5,2		35	82	44	36	6	●
DC160-05-05.300A0-	5,3		35	82	44	36	6	●
DC160-05-05.400A0-	5,4		35	82	44	36	6	●
DC160-05-05.500A0-	5,5		35	82	44	36	6	●
DC160-05-05.550A0-	5,55		35	82	44	36	6	●
DC160-05-05.556A0-	5,556	7/32"	35	82	44	36	6	●
DC160-05-05.600A0-	5,6		35	82	44	36	6	●
DC160-05-05.700A0-	5,7		35	82	44	36	6	●
DC160-05-05.800A0-	5,8		35	82	44	36	6	●
DC160-05-05.900A0-	5,9		35	82	44	36	6	●
DC160-05-05.953A0-	5,953	15/64"	35	82	44	36	6	●
DC160-05-06.000A0-	6		35	82	44	36	6	●
DC160-05-06.100A0-	6,1		43	91	53	36	8	●
DC160-05-06.200A0-	6,2		43	91	53	36	8	●
DC160-05-06.300A0-	6,3		43	91	53	36	8	●
DC160-05-06.350A0-	6,35	1/4"	43	91	53	36	8	●

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued

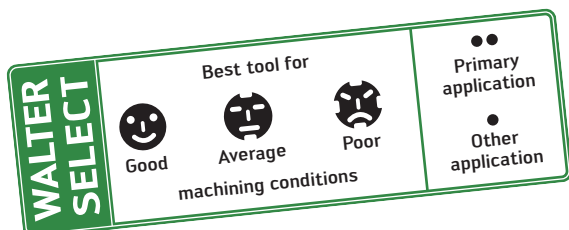
/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
	DC160-05-06.400A0-	6,4		43	91	53	36	8	
	DC160-05-06.500A0-	6,5		43	91	53	36	8	
	DC160-05-06.600A0-	6,6		43	91	53	36	8	
	DC160-05-06.700A0-	6,7		43	91	53	36	8	
	DC160-05-06.747A0-	6,747	17/64"	43	91	53	36	8	
	DC160-05-06.800A0-	6,8		43	91	53	36	8	
	DC160-05-06.900A0-	6,9		43	91	53	36	8	
	DC160-05-07.000A0-	7		43	91	53	36	8	
	DC160-05-07.100A0-	7,1		43	91	53	36	8	
	DC160-05-07.144A0-	7,144	9/32"	43	91	53	36	8	
	DC160-05-07.200A0-	7,2		43	91	53	36	8	
	DC160-05-07.300A0-	7,3		43	91	53	36	8	
	DC160-05-07.400A0-	7,4		43	91	53	36	8	
	DC160-05-07.500A0-	7,5		43	91	53	36	8	
	DC160-05-07.541A0-	7,541	19/64"	43	91	53	36	8	
	DC160-05-07.550A0-	7,55		43	91	53	36	8	
	DC160-05-07.600A0-	7,6		43	91	53	36	8	
	DC160-05-07.700A0-	7,7		43	91	53	36	8	
	DC160-05-07.800A0-	7,8		43	91	53	36	8	
	DC160-05-07.900A0-	7,9		43	91	53	36	8	
	DC160-05-07.938A0-	7,938	5/16"	43	91	53	36	8	
	DC160-05-08.000A0-	8		43	91	53	36	8	
	DC160-05-08.100A0-	8,1		49	103	61	40	10	
	DC160-05-08.200A0-	8,2		49	103	61	40	10	
	DC160-05-08.300A0-	8,3		49	103	61	40	10	
	DC160-05-08.334A0-	8,334	21/64"	49	103	61	40	10	
	DC160-05-08.400A0-	8,4		49	103	61	40	10	
	DC160-05-08.500A0-	8,5		49	103	61	40	10	
	DC160-05-08.600A0-	8,6		49	103	61	40	10	
	DC160-05-08.700A0-	8,7		49	103	61	40	10	
	DC160-05-08.731A0-	8,731	11/32"	49	103	61	40	10	
	DC160-05-08.800A0-	8,8		49	103	61	40	10	
	DC160-05-08.900A0-	8,9		49	103	61	40	10	
	DC160-05-09.000A0-	9		49	103	61	40	10	
	DC160-05-09.100A0-	9,1		49	103	61	40	10	
	DC160-05-09.128A0-	9,128	23/64"	49	103	61	40	10	
	DC160-05-09.200A0-	9,2		49	103	61	40	10	
	DC160-05-09.300A0-	9,3		49	103	61	40	10	
	DC160-05-09.400A0-	9,4		49	103	61	40	10	
	DC160-05-09.500A0-	9,5		49	103	61	40	10	
DC160-05-09.525A0-	9,525	3/8"	49	103	61	40	10		
DC160-05-09.550A0-	9,55		49	103	61	40	10		
DC160-05-09.600A0-	9,6		49	103	61	40	10		
DC160-05-09.700A0-	9,7		49	103	61	40	10		
DC160-05-09.800A0-	9,8		49	103	61	40	10		
DC160-05-09.900A0-	9,9		49	103	61	40	10		
DC160-05-09.922A0-	9,922	25/64"	49	103	61	40	10		
DC160-05-10.000A0-	10		49	103	61	40	10		
DC160-05-10.100A0-	10,1		56	118	71	45	12		
DC160-05-10.200A0-	10,2		56	118	71	45	12		
DC160-05-10.300A0-	10,3		56	118	71	45	12		
DC160-05-10.319A0-	10,319	13/32"	56	118	71	45	12		
DC160-05-10.400A0-	10,4		56	118	71	45	12		
DC160-05-10.500A0-	10,5		56	118	71	45	12		
DC160-05-10.600A0-	10,6		56	118	71	45	12		
DC160-05-10.700A0-	10,7		56	118	71	45	12		
DC160-05-10.716A0-	10,716	27/64"	56	118	71	45	12		

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued



B1

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
Shank DIN 6535 HA 	DC160-05-10.800A0-	10,8		56	118	71	45	12	☺☺☺
	DC160-05-10.900A0-	10,9		56	118	71	45	12	☺☺☺
	DC160-05-11.000A0-	11		56	118	71	45	12	☺☺☺
	DC160-05-11.100A0-	11,1		56	118	71	45	12	☺☺☺
	DC160-05-11.113A0-	11,113	7/16"	56	118	71	45	12	☺☺☺
	DC160-05-11.200A0-	11,2		56	118	71	45	12	☺☺☺
	DC160-05-11.300A0-	11,3		56	118	71	45	12	☺☺☺
	DC160-05-11.400A0-	11,4		56	118	71	45	12	☺☺☺
	DC160-05-11.500A0-	11,5		56	118	71	45	12	☺☺☺
	DC160-05-11.509A0-	11,509	29/64"	56	118	71	45	12	☺☺☺
	DC160-05-11.550A0-	11,55		56	118	71	45	12	☺☺☺
	DC160-05-11.600A0-	11,6		56	118	71	45	12	☺☺☺
	DC160-05-11.700A0-	11,7		56	118	71	45	12	☺☺☺
	DC160-05-11.800A0-	11,8		56	118	71	45	12	☺☺☺
	DC160-05-11.900A0-	11,9		56	118	71	45	12	☺☺☺
	DC160-05-11.906A0-	11,906	15/32"	56	118	71	45	12	☺☺☺
	DC160-05-12.000A0-	12		56	118	71	45	12	☺☺☺
	DC160-05-12.100A0-	12,1		60	124	77	45	14	☺☺☺
	DC160-05-12.200A0-	12,2		60	124	77	45	14	☺☺☺
	DC160-05-12.250A0-	12,25		60	124	77	45	14	☺☺☺
	DC160-05-12.300A0-	12,3		60	124	77	45	14	☺☺☺
	DC160-05-12.303A0-	12,303	31/64"	60	124	77	45	14	☺☺☺
	DC160-05-12.400A0-	12,4		60	124	77	45	14	☺☺☺
	DC160-05-12.500A0-	12,5		60	124	77	45	14	☺☺☺
	DC160-05-12.600A0-	12,6		60	124	77	45	14	☺☺☺
	DC160-05-12.700A0-	12,7	1/2"	60	124	77	45	14	☺☺☺
	DC160-05-12.750A0-	12,75		60	124	77	45	14	☺☺☺
	DC160-05-12.800A0-	12,8		60	124	77	45	14	☺☺☺
	DC160-05-12.900A0-	12,9		60	124	77	45	14	☺☺☺
	DC160-05-13.000A0-	13		60	124	77	45	14	☺☺☺
	DC160-05-13.100A0-	13,1		60	124	77	45	14	☺☺☺
	DC160-05-13.200A0-	13,2		60	124	77	45	14	☺☺☺
	DC160-05-13.300A0-	13,3		60	124	77	45	14	☺☺☺
	DC160-05-13.400A0-	13,4		60	124	77	45	14	☺☺☺
	DC160-05-13.494A0-	13,494	17/32"	60	124	77	45	14	☺☺☺
DC160-05-13.500A0-	13,5		60	124	77	45	14	☺☺☺	
DC160-05-13.600A0-	13,6		60	124	77	45	14	☺☺☺	
DC160-05-13.700A0-	13,7		60	124	77	45	14	☺☺☺	
DC160-05-13.800A0-	13,8		60	124	77	45	14	☺☺☺	
DC160-05-13.900A0-	13,9		60	124	77	45	14	☺☺☺	
DC160-05-14.000A0-	14		60	124	77	45	14	☺☺☺	
DC160-05-14.100A0-	14,1		63	133	83	48	16	☺☺☺	
DC160-05-14.200A0-	14,2		63	133	83	48	16	☺☺☺	
DC160-05-14.288A0-	14,288	9/16"	63	133	83	48	16	☺☺☺	
DC160-05-14.300A0-	14,3		63	133	83	48	16	☺☺☺	
DC160-05-14.400A0-	14,4		63	133	83	48	16	☺☺☺	
DC160-05-14.500A0-	14,5		63	133	83	48	16	☺☺☺	
DC160-05-14.600A0-	14,6		63	133	83	48	16	☺☺☺	
DC160-05-14.700A0-	14,7		63	133	83	48	16	☺☺☺	
DC160-05-14.750A0-	14,75		63	133	83	48	16	☺☺☺	
DC160-05-14.800A0-	14,8		63	133	83	48	16	☺☺☺	
DC160-05-15.000A0-	15		63	133	83	48	16	☺☺☺	
DC160-05-15.100A0-	15,1		63	133	83	48	16	☺☺☺	
DC160-05-15.200A0-	15,2		63	133	83	48	16	☺☺☺	
DC160-05-15.300A0-	15,3		63	133	83	48	16	☺☺☺	
DC160-05-15.500A0-	15,5		63	133	83	48	16	☺☺☺	
DC160-05-15.600A0-	15,6		63	133	83	48	16	☺☺☺	
DC160-05-15.700A0-	15,7		63	133	83	48	16	☺☺☺	
DC160-05-15.800A0-	15,8		63	133	83	48	16	☺☺☺	
DC160-05-15.875A0-	15,875	5/8"	63	133	83	48	16	☺☺☺	
DC160-05-15.900A0-	15,9		63	133	83	48	16	☺☺☺	

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued

/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
Shank DIN 6535 HA 	DC160-05-16.000A0-	16		63	133	83	48	16	
	DC160-05-16.100A0-	16,1		71	143	93	48	18	
	DC160-05-16.200A0-	16,2		71	143	93	48	18	
	DC160-05-16.300A0-	16,3		71	143	93	48	18	
	DC160-05-16.400A0-	16,4		71	143	93	48	18	
	DC160-05-16.500A0-	16,5		71	143	93	48	18	
	DC160-05-16.600A0-	16,6		71	143	93	48	18	
	DC160-05-16.700A0-	16,7		71	143	93	48	18	
	DC160-05-16.750A0-	16,75		71	143	93	48	18	
	DC160-05-16.800A0-	16,8		71	143	93	48	18	
	DC160-05-17.000A0-	17		71	143	93	48	18	
	DC160-05-17.200A0-	17,2		71	143	93	48	18	
	DC160-05-17.300A0-	17,3		71	143	93	48	18	
	DC160-05-17.500A0-	17,5		71	143	93	48	18	
	DC160-05-17.600A0-	17,6		71	143	93	48	18	
	DC160-05-17.700A0-	17,7		71	143	93	48	18	
	DC160-05-17.800A0-	17,8		71	143	93	48	18	
	DC160-05-18.000A0-	18		71	143	93	48	18	
	DC160-05-18.200A0-	18,2		77	153	101	50	20	
	DC160-05-18.500A0-	18,5		77	153	101	50	20	
	DC160-05-18.700A0-	18,7		77	153	101	50	20	
	DC160-05-18.800A0-	18,8		77	153	101	50	20	
	DC160-05-19.000A0-	19		77	153	101	50	20	
	DC160-05-19.050A0-	19,05	3/4"	77	153	101	50	20	
	DC160-05-19.500A0-	19,5		77	153	101	50	20	
DC160-05-19.700A0-	19,7		77	153	101	50	20		
DC160-05-19.800A0-	19,8		77	153	101	50	20		
DC160-05-20.000A0-	20		77	153	101	50	20		
DC160-05-20.500A0-	20,5		86	166	108	56	25		
DC160-05-21.000A0-	21		86	166	108	56	25		
DC160-05-21.500A0-	21,5		86	166	108	56	25		
DC160-05-22.000A0-	22		86	166	108	56	25		
DC160-05-22.500A0-	22,5		91	173	115	56	25		
DC160-05-23.000A0-	23		91	173	115	56	25		
DC160-05-23.500A0-	23,5		91	173	115	56	25		
DC160-05-24.000A0-	24		91	173	115	56	25		
DC160-05-24.500A0-	24,5		97	180	122	56	25		
DC160-05-25.000A0-	25		97	180	122	56	25		
Shank DIN 6535 HE 	DC160-05-03.000F0-	3		23	66	28	36	6	
	DC160-05-03.100F0-	3,1		23	66	28	36	6	
	DC160-05-03.200F0-	3,2		23	66	28	36	6	
	DC160-05-03.250F0-	3,25		23	66	28	36	6	
	DC160-05-03.300F0-	3,3		23	66	28	36	6	
	DC160-05-03.400F0-	3,4		23	66	28	36	6	
	DC160-05-03.500F0-	3,5		23	66	28	36	6	
	DC160-05-03.600F0-	3,6		23	66	28	36	6	
	DC160-05-03.650F0-	3,65		23	66	28	36	6	
	DC160-05-03.700F0-	3,7		23	66	28	36	6	
	DC160-05-03.800F0-	3,8		29	74	36	36	6	
	DC160-05-03.900F0-	3,9		29	74	36	36	6	
	DC160-05-04.000F0-	4		29	74	36	36	6	
	DC160-05-04.100F0-	4,1		29	74	36	36	6	
	DC160-05-04.200F0-	4,2		29	74	36	36	6	
	DC160-05-04.300F0-	4,3		29	74	36	36	6	
	DC160-05-04.400F0-	4,4		29	74	36	36	6	
	DC160-05-04.500F0-	4,5		29	74	36	36	6	
	DC160-05-04.600F0-	4,6		29	74	36	36	6	

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued

WALTER SELECT

Best tool for

 Good
 Average
 Poor

Primary application

Other application

machining conditions

B1

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
Shank DIN 6535 HE 	DC160-05-04.650F0-	4,65		29	74	36	36	6	★
	DC160-05-04.700F0-	4,7		29	74	36	36	6	★
	DC160-05-04.800F0-	4,8		35	82	44	36	6	★
	DC160-05-04.900F0-	4,9		35	82	44	36	6	★
	DC160-05-05.000F0-	5		35	82	44	36	6	★
	DC160-05-05.100F0-	5,1		35	82	44	36	6	★
	DC160-05-05.200F0-	5,2		35	82	44	36	6	★
	DC160-05-05.300F0-	5,3		35	82	44	36	6	★
	DC160-05-05.400F0-	5,4		35	82	44	36	6	★
	DC160-05-05.500F0-	5,5		35	82	44	36	6	★
	DC160-05-05.550F0-	5,55		35	82	44	36	6	★
	DC160-05-05.600F0-	5,6		35	82	44	36	6	★
	DC160-05-05.700F0-	5,7		35	82	44	36	6	★
	DC160-05-05.800F0-	5,8		35	82	44	36	6	★
	DC160-05-05.900F0-	5,9		35	82	44	36	6	★
	DC160-05-06.000F0-	6		35	82	44	36	6	★
	DC160-05-06.100F0-	6,1		43	91	53	36	8	★
	DC160-05-06.200F0-	6,2		43	91	53	36	8	★
	DC160-05-06.300F0-	6,3		43	91	53	36	8	★
	DC160-05-06.400F0-	6,4		43	91	53	36	8	★
	DC160-05-06.500F0-	6,5		43	91	53	36	8	★
	DC160-05-06.600F0-	6,6		43	91	53	36	8	★
	DC160-05-06.700F0-	6,7		43	91	53	36	8	★
	DC160-05-06.800F0-	6,8		43	91	53	36	8	★
	DC160-05-06.900F0-	6,9		43	91	53	36	8	★
	DC160-05-07.000F0-	7		43	91	53	36	8	★
	DC160-05-07.100F0-	7,1		43	91	53	36	8	★
	DC160-05-07.200F0-	7,2		43	91	53	36	8	★
	DC160-05-07.300F0-	7,3		43	91	53	36	8	★
	DC160-05-07.400F0-	7,4		43	91	53	36	8	★
	DC160-05-07.500F0-	7,5		43	91	53	36	8	★
	DC160-05-07.550F0-	7,55		43	91	53	36	8	★
	DC160-05-07.600F0-	7,6		43	91	53	36	8	★
	DC160-05-07.700F0-	7,7		43	91	53	36	8	★
DC160-05-07.800F0-	7,8		43	91	53	36	8	★	
DC160-05-07.900F0-	7,9		43	91	53	36	8	★	
DC160-05-08.000F0-	8		43	91	53	36	8	★	
DC160-05-08.100F0-	8,1		49	103	61	40	10	★	
DC160-05-08.200F0-	8,2		49	103	61	40	10	★	
DC160-05-08.300F0-	8,3		49	103	61	40	10	★	
DC160-05-08.400F0-	8,4		49	103	61	40	10	★	
DC160-05-08.500F0-	8,5		49	103	61	40	10	★	
DC160-05-08.600F0-	8,6		49	103	61	40	10	★	
DC160-05-08.700F0-	8,7		49	103	61	40	10	★	
DC160-05-08.800F0-	8,8		49	103	61	40	10	★	
DC160-05-08.900F0-	8,9		49	103	61	40	10	★	
DC160-05-09.000F0-	9		49	103	61	40	10	★	
DC160-05-09.100F0-	9,1		49	103	61	40	10	★	
DC160-05-09.200F0-	9,2		49	103	61	40	10	★	
DC160-05-09.300F0-	9,3		49	103	61	40	10	★	
DC160-05-09.400F0-	9,4		49	103	61	40	10	★	
DC160-05-09.500F0-	9,5		49	103	61	40	10	★	
DC160-05-09.550F0-	9,55		49	103	61	40	10	★	
DC160-05-09.600F0-	9,6		49	103	61	40	10	★	
DC160-05-09.700F0-	9,7		49	103	61	40	10	★	
DC160-05-09.800F0-	9,8		49	103	61	40	10	★	
DC160-05-09.900F0-	9,9		49	103	61	40	10	★	
DC160-05-10.000F0-	10		49	103	61	40	10	★	
DC160-05-10.100F0-	10,1		56	118	71	45	12	★	
DC160-05-10.200F0-	10,2		56	118	71	45	12	★	
DC160-05-10.300F0-	10,3		56	118	71	45	12	★	

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued

/ ★ New addition to the product range

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
	DC160-05-10.400F0-	10,4		56	118	71	45	12	
	DC160-05-10.500F0-	10,5		56	118	71	45	12	
	DC160-05-10.600F0-	10,6		56	118	71	45	12	
	DC160-05-10.700F0-	10,7		56	118	71	45	12	
	DC160-05-10.800F0-	10,8		56	118	71	45	12	
	DC160-05-10.900F0-	10,9		56	118	71	45	12	
	DC160-05-11.000F0-	11		56	118	71	45	12	
	DC160-05-11.100F0-	11,1		56	118	71	45	12	
	DC160-05-11.200F0-	11,2		56	118	71	45	12	
	DC160-05-11.300F0-	11,3		56	118	71	45	12	
	DC160-05-11.400F0-	11,4		56	118	71	45	12	
	DC160-05-11.500F0-	11,5		56	118	71	45	12	
	DC160-05-11.550F0-	11,55		56	118	71	45	12	
	DC160-05-11.600F0-	11,6		56	118	71	45	12	
	DC160-05-11.700F0-	11,7		56	118	71	45	12	
	DC160-05-11.800F0-	11,8		56	118	71	45	12	
	DC160-05-11.900F0-	11,9		56	118	71	45	12	
	DC160-05-12.000F0-	12		56	118	71	45	12	
	DC160-05-12.100F0-	12,1		60	124	77	45	14	
	DC160-05-12.200F0-	12,2		60	124	77	45	14	
	DC160-05-12.250F0-	12,25		60	124	77	45	14	
	DC160-05-12.300F0-	12,3		60	124	77	45	14	
	DC160-05-12.400F0-	12,4		60	124	77	45	14	
	DC160-05-12.500F0-	12,5		60	124	77	45	14	
	DC160-05-12.600F0-	12,6		60	124	77	45	14	
	DC160-05-12.700F0-	12,7	1/2"	60	124	77	45	14	
	DC160-05-12.750F0-	12,75		60	124	77	45	14	
	DC160-05-12.800F0-	12,8		60	124	77	45	14	
	DC160-05-12.900F0-	12,9		60	124	77	45	14	
	DC160-05-13.000F0-	13		60	124	77	45	14	
	DC160-05-13.100F0-	13,1		60	124	77	45	14	
	DC160-05-13.200F0-	13,2		60	124	77	45	14	
	DC160-05-13.300F0-	13,3		60	124	77	45	14	
	DC160-05-13.400F0-	13,4		60	124	77	45	14	
	DC160-05-13.500F0-	13,5		60	124	77	45	14	
DC160-05-13.600F0-	13,6		60	124	77	45	14		
DC160-05-13.700F0-	13,7		60	124	77	45	14		
DC160-05-13.800F0-	13,8		60	124	77	45	14		
DC160-05-13.900F0-	13,9		60	124	77	45	14		
DC160-05-14.000F0-	14		60	124	77	45	14		
DC160-05-14.100F0-	14,1		63	133	83	48	16		
DC160-05-14.200F0-	14,2		63	133	83	48	16		
DC160-05-14.300F0-	14,3		63	133	83	48	16		
DC160-05-14.400F0-	14,4		63	133	83	48	16		
DC160-05-14.500F0-	14,5		63	133	83	48	16		
DC160-05-14.600F0-	14,6		63	133	83	48	16		
DC160-05-14.700F0-	14,7		63	133	83	48	16		
DC160-05-14.750F0-	14,75		63	133	83	48	16		
DC160-05-14.800F0-	14,8		63	133	83	48	16		
DC160-05-15.000F0-	15		63	133	83	48	16		
DC160-05-15.100F0-	15,1		63	133	83	48	16		
DC160-05-15.200F0-	15,2		63	133	83	48	16		
DC160-05-15.300F0-	15,3		63	133	83	48	16		
DC160-05-15.500F0-	15,5		63	133	83	48	16		
DC160-05-15.600F0-	15,6		63	133	83	48	16		
DC160-05-15.700F0-	15,7		63	133	83	48	16		
DC160-05-15.800F0-	15,8		63	133	83	48	16		

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Continued

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

•• Primary application

• Other application

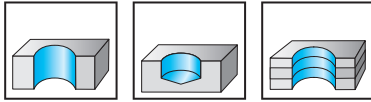
Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h8 mm	WJ30ET
	Shank DIN 6535 HE								
	DC160-05-15.900F0-	15,9		63	133	83	48	16	
	DC160-05-16.000F0-	16		63	133	83	48	16	
	DC160-05-16.100F0-	16,1		71	143	93	48	18	
	DC160-05-16.200F0-	16,2		71	143	93	48	18	
	DC160-05-16.300F0-	16,3		71	143	93	48	18	
	DC160-05-16.400F0-	16,4		71	143	93	48	18	
	DC160-05-16.500F0-	16,5		71	143	93	48	18	
	DC160-05-16.600F0-	16,6		71	143	93	48	18	
	DC160-05-16.700F0-	16,7		71	143	93	48	18	
	DC160-05-16.750F0-	16,75		71	143	93	48	18	
	DC160-05-16.800F0-	16,8		71	143	93	48	18	
	DC160-05-17.000F0-	17		71	143	93	48	18	
	DC160-05-17.200F0-	17,2		71	143	93	48	18	
	DC160-05-17.300F0-	17,3		71	143	93	48	18	
	DC160-05-17.500F0-	17,5		71	143	93	48	18	
	DC160-05-17.600F0-	17,6		71	143	93	48	18	
	DC160-05-17.700F0-	17,7		71	143	93	48	18	
	DC160-05-17.800F0-	17,8		71	143	93	48	18	
	DC160-05-18.000F0-	18		71	143	93	48	18	
	DC160-05-18.200F0-	18,2		77	153	101	50	20	
	DC160-05-18.500F0-	18,5		77	153	101	50	20	
	DC160-05-18.700F0-	18,7		77	153	101	50	20	
	DC160-05-18.800F0-	18,8		77	153	101	50	20	
	DC160-05-19.000F0-	19		77	153	101	50	20	
DC160-05-19.500F0-	19,5		77	153	101	50	20		
DC160-05-19.700F0-	19,7		77	153	101	50	20		
DC160-05-19.800F0-	19,8		77	153	101	50	20		
DC160-05-20.000F0-	20		77	153	101	50	20		
DC160-05-20.500F0-	20,5		86	166	108	56	25		
DC160-05-21.000F0-	21		86	166	108	56	25		
DC160-05-21.500F0-	21,5		86	166	108	56	25		
DC160-05-22.000F0-	22		86	166	108	56	25		
DC160-05-22.500F0-	22,5		91	173	115	56	25		
DC160-05-23.000F0-	23		91	173	115	56	25		
DC160-05-23.500F0-	23,5		91	173	115	56	25		
DC160-05-24.000F0-	24		91	173	115	56	25		
DC160-05-24.500F0-	24,5		97	180	122	56	25		
DC160-05-25.000F0-	25		97	180	122	56	25		

Ordering example for the WJ30ET grade: DC160-05-03.000A0-WJ30ET

Solid carbide twist drills

DC150 Perform



	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
Shank DIN 6535 HA 	DC150-05-03.000A0-	3		23	66	28	36	6	
	DC150-05-03.100A0-	3,1		23	66	28	36	6	
	DC150-05-03.175A0-	3,175	1/8"	23	66	28	36	6	
	DC150-05-03.200A0-	3,2		23	66	28	36	6	
	DC150-05-03.250A0-	3,25		23	66	28	36	6	
	DC150-05-03.300A0-	3,3		23	66	28	36	6	
	DC150-05-03.400A0-	3,4		23	66	28	36	6	
	DC150-05-03.500A0-	3,5		23	66	28	36	6	
	DC150-05-03.600A0-	3,6		23	66	28	36	6	
	DC150-05-03.650A0-	3,65		23	66	28	36	6	
	DC150-05-03.700A0-	3,7		23	66	28	36	6	
	DC150-05-03.800A0-	3,8		29	74	36	36	6	
	DC150-05-03.900A0-	3,9		29	74	36	36	6	
	DC150-05-03.969A0-	3,969	5/32"	29	74	36	36	6	
	DC150-05-04.000A0-	4		29	74	36	36	6	
	DC150-05-04.100A0-	4,1		29	74	36	36	6	
	DC150-05-04.200A0-	4,2		29	74	36	36	6	
	DC150-05-04.300A0-	4,3		29	74	36	36	6	
	DC150-05-04.366A0-	4,366	11/64"	29	74	36	36	6	
	DC150-05-04.400A0-	4,4		29	74	36	36	6	
	DC150-05-04.500A0-	4,5		29	74	36	36	6	
	DC150-05-04.600A0-	4,6		29	74	36	36	6	
	DC150-05-04.650A0-	4,65		29	74	36	36	6	
	DC150-05-04.700A0-	4,7		29	74	36	36	6	
	DC150-05-04.763A0-	4,763	3/16"	35	82	44	36	6	
	DC150-05-04.800A0-	4,8		35	82	44	36	6	
	DC150-05-04.900A0-	4,9		35	82	44	36	6	
	DC150-05-05.000A0-	5		35	82	44	36	6	
	DC150-05-05.100A0-	5,1		35	82	44	36	6	
	DC150-05-05.159A0-	5,159	13/64"	35	82	44	36	6	
	DC150-05-05.200A0-	5,2		35	82	44	36	6	
	DC150-05-05.300A0-	5,3		35	82	44	36	6	
	DC150-05-05.400A0-	5,4		35	82	44	36	6	
	DC150-05-05.500A0-	5,5		35	82	44	36	6	
	DC150-05-05.550A0-	5,55		35	82	44	36	6	
	DC150-05-05.556A0-	5,556	7/32"	35	82	44	36	6	
DC150-05-05.600A0-	5,6		35	82	44	36	6		
DC150-05-05.700A0-	5,7		35	82	44	36	6		
DC150-05-05.800A0-	5,8		35	82	44	36	6		
DC150-05-05.900A0-	5,9		35	82	44	36	6		
DC150-05-05.953A0-	5,953	15/64"	35	82	44	36	6		
DC150-05-06.000A0-	6		35	82	44	36	6		
DC150-05-06.100A0-	6,1		43	91	53	36	8		

Ordering example for the WJ30TA grade: DC150-05-03.000A0-WJ30TA

Continued

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

•• Primary application

• Other application

B1

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
	Shank DIN 6535 HA								
	DC150-05-06.200A0-	6,2		43	91	53	36	8	☺
	DC150-05-06.300A0-	6,3		43	91	53	36	8	☺
	DC150-05-06.350A0-	6,35	1/4"	43	91	53	36	8	☺
	DC150-05-06.400A0-	6,4		43	91	53	36	8	☺
	DC150-05-06.500A0-	6,5		43	91	53	36	8	☺
	DC150-05-06.600A0-	6,6		43	91	53	36	8	☺
	DC150-05-06.700A0-	6,7		43	91	53	36	8	☺
	DC150-05-06.747A0-	6,747	17/64"	43	91	53	36	8	☺
	DC150-05-06.800A0-	6,8		43	91	53	36	8	☺
	DC150-05-06.900A0-	6,9		43	91	53	36	8	☺
	DC150-05-07.000A0-	7		43	91	53	36	8	☺
	DC150-05-07.100A0-	7,1		43	91	53	36	8	☺
	DC150-05-07.144A0-	7,144	9/32"	43	91	53	36	8	☺
	DC150-05-07.200A0-	7,2		43	91	53	36	8	☺
	DC150-05-07.300A0-	7,3		43	91	53	36	8	☺
	DC150-05-07.400A0-	7,4		43	91	53	36	8	☺
	DC150-05-07.500A0-	7,5		43	91	53	36	8	☺
	DC150-05-07.600A0-	7,6		43	91	53	36	8	☺
	DC150-05-07.700A0-	7,7		43	91	53	36	8	☺
	DC150-05-07.800A0-	7,8		43	91	53	36	8	☺
	DC150-05-07.900A0-	7,9		43	91	53	36	8	☺
	DC150-05-07.938A0-	7,938	5/16"	43	91	53	36	8	☺
	DC150-05-08.000A0-	8		43	91	53	36	8	☺
	DC150-05-08.100A0-	8,1		49	103	61	40	10	☺
	DC150-05-08.200A0-	8,2		49	103	61	40	10	☺
	DC150-05-08.300A0-	8,3		49	103	61	40	10	☺
	DC150-05-08.334A0-	8,334	21/64"	49	103	61	40	10	☺
	DC150-05-08.400A0-	8,4		49	103	61	40	10	☺
	DC150-05-08.500A0-	8,5		49	103	61	40	10	☺
	DC150-05-08.600A0-	8,6		49	103	61	40	10	☺
	DC150-05-08.700A0-	8,7		49	103	61	40	10	☺
	DC150-05-08.731A0-	8,731	11/32"	49	103	61	40	10	☺
	DC150-05-08.800A0-	8,8		49	103	61	40	10	☺
DC150-05-08.900A0-	8,9		49	103	61	40	10	☺	
DC150-05-09.000A0-	9		49	103	61	40	10	☺	
DC150-05-09.100A0-	9,1		49	103	61	40	10	☺	
DC150-05-09.128A0-	9,128	23/64"	49	103	61	40	10	☺	
DC150-05-09.200A0-	9,2		49	103	61	40	10	☺	
DC150-05-09.300A0-	9,3		49	103	61	40	10	☺	
DC150-05-09.400A0-	9,4		49	103	61	40	10	☺	
DC150-05-09.500A0-	9,5		49	103	61	40	10	☺	
DC150-05-09.525A0-	9,525	3/8"	49	103	61	40	10	☺	
DC150-05-09.600A0-	9,6		49	103	61	40	10	☺	
DC150-05-09.700A0-	9,7		49	103	61	40	10	☺	
DC150-05-09.800A0-	9,8		49	103	61	40	10	☺	
DC150-05-09.900A0-	9,9		49	103	61	40	10	☺	
DC150-05-09.922A0-	9,922	25/64"	49	103	61	40	10	☺	
DC150-05-10.000A0-	10		49	103	61	40	10	☺	
DC150-05-10.100A0-	10,1		56	118	71	45	12	☺	
DC150-05-10.200A0-	10,2		56	118	71	45	12	☺	
DC150-05-10.300A0-	10,3		56	118	71	45	12	☺	
DC150-05-10.319A0-	10,319	13/32"	56	118	71	45	12	☺	
DC150-05-10.400A0-	10,4		56	118	71	45	12	☺	
DC150-05-10.500A0-	10,5		56	118	71	45	12	☺	
DC150-05-10.600A0-	10,6		56	118	71	45	12	☺	
DC150-05-10.700A0-	10,7		56	118	71	45	12	☺	
DC150-05-10.716A0-	10,716	27/64"	56	118	71	45	12	☺	
DC150-05-10.800A0-	10,8		56	118	71	45	12	☺	
DC150-05-11.000A0-	11		56	118	71	45	12	☺	
DC150-05-11.113A0-	11,113	7/16"	56	118	71	45	12	☺	
DC150-05-11.200A0-	11,2		56	118	71	45	12	☺	

Ordering example for the WJ30TA grade: DC150-05-03.000A0-WJ30TA

Continued

Continued

	Designation	D _c m7 mm	D _c Inch/no.	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
	Shank DIN 6535 HA								
	DC150-05-11.500A0-	11,5		56	118	71	45	12	
	DC150-05-11.800A0-	11,8		56	118	71	45	12	
	DC150-05-11.906A0-	11,906	15/32"	56	118	71	45	12	
	DC150-05-12.000A0-	12		56	118	71	45	12	
	DC150-05-12.200A0-	12,2		60	124	77	45	14	
	DC150-05-12.300A0-	12,3		60	124	77	45	14	
	DC150-05-12.400A0-	12,4		60	124	77	45	14	
	DC150-05-12.500A0-	12,5		60	124	77	45	14	
	DC150-05-12.600A0-	12,6		60	124	77	45	14	
	DC150-05-12.700A0-	12,7	1/2"	60	124	77	45	14	
	DC150-05-13.000A0-	13		60	124	77	45	14	
	DC150-05-13.200A0-	13,2		60	124	77	45	14	
	DC150-05-13.494A0-	13,494	17/32"	60	124	77	45	14	
	DC150-05-13.500A0-	13,5		60	124	77	45	14	
	DC150-05-13.800A0-	13,8		60	124	77	45	14	
	DC150-05-14.000A0-	14		60	124	77	45	14	
	DC150-05-14.200A0-	14,2		63	133	83	48	16	
	DC150-05-14.288A0-	14,288	9/16"	63	133	83	48	16	
	DC150-05-14.500A0-	14,5		63	133	83	48	16	
DC150-05-15.000A0-	15		63	133	83	48	16		
DC150-05-15.500A0-	15,5		63	133	83	48	16		
DC150-05-15.800A0-	15,8		63	133	83	48	16		
DC150-05-16.000A0-	16		63	133	83	48	16		
DC150-05-16.500A0-	16,5		71	143	93	48	18		
DC150-05-17.000A0-	17		71	143	93	48	18		
DC150-05-17.500A0-	17,5		71	143	93	48	18		
DC150-05-18.000A0-	18		71	143	93	48	18		
DC150-05-19.000A0-	19		77	153	101	50	20		
DC150-05-19.500A0-	19,5		77	153	101	50	20		
DC150-05-20.000A0-	20		77	153	101	50	20		

Ordering example for the WJ30TA grade: DC150-05-03.000A0-WJ30TA

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

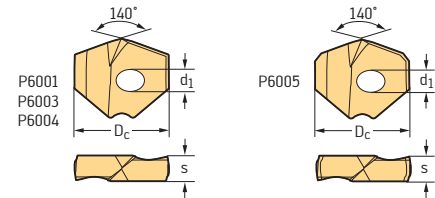
•• Primary application

• Other application

B1

Drill inserts

P6001 / P6003 / P6004 / P6005



Drill inserts

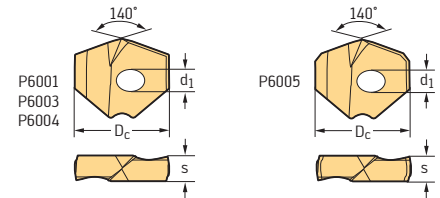
B1

Designation	Number of cutting edges	D _c mm	D _c Inch/ no.	Seat size	d ₁ mm	s mm	P6001		P6003		P6003	P6005	P6004	P6003
							P	P	M	K	N	S		
							HC	HC	HC	HC	HC	HC		
							WPP45C	WMP35	WMP35	WKK45C	WNN25	WMP35		
P6001	P60..-D12,00R	2	12		A	3	3,6							
	P60..-D12,10R	2	12,1		A	3	3,6							
	P60..-D12,20R	2	12,2		A	3	3,6							
	P60..-D12,30R	2	12,3		A	3	3,6							
	P60..-D12,40R	2	12,4		A	3	3,6							
	P60..-D12,50R	2	12,5		A	3	3,6							
P6003	P60..-D12,60R	2	12,6		A	3	3,6							
	P60..-D12,70R	2	12,7	1/2"	A	3	3,6							
	P60..-D12,80R	2	12,8		A	3	3,6							
	P60..-D12,90R	2	12,9		A	3	3,6							
	P60..-D12,95R	2	12,95		A	3	3,6							
	P60..-D13,00R	2	13		A	3	3,6							
P6004	P60..-D13,10R	2	13,1		A	3	3,6							
	P60..-D13,11R	2	13,11		A	3	3,6							
	P60..-D13,20R	2	13,2		A	3	3,6							
	P60..-D13,25R	2	13,25		A	3	3,6							
	P60..-D13,30R	2	13,3		A	3	3,6							
	P60..-D13,40R	2	13,4		A	3	3,6							
P6005	P60..-D13,49R	2	13,49		A	3	3,6							
	P60..-D13,50R	2	13,5		A	3	3,6							
	P60..-D13,60R	2	13,6		A	3	3,6							
	P60..-D13,70R	2	13,7		A	3	3,6							
	P60..-D13,80R	2	13,8		A	3	3,6							
	P60..-D13,89R	2	13,89	35/64"	A	3	3,6							
	P60..-D13,90R	2	13,9		A	3	3,6							
	P60..-D14,00R	2	14		B	3	4							
	P60..-D14,10R	2	14,1		B	3	4							
	P60..-D14,20R	2	14,2		B	3	4							
	P60..-D14,29R	2	14,29		B	3	4							
	P60..-D14,30R	2	14,3		B	3	4							
	P60..-D14,40R	2	14,4		B	3	4							
	P60..-D14,50R	2	14,5		B	3	4							
	P60..-D14,60R	2	14,6		B	3	4							
	P60..-D14,68R	2	14,68		B	3	4							
	P60..-D14,70R	2	14,7		B	3	4							
	P60..-D14,80R	2	14,8		B	3	4							
	P60..-D14,90R	2	14,9		B	3	4							
	P60..-D15,00R	2	15		B	3	4							
	P60..-D15,08R	2	15,08		B	3	4							
	P60..-D15,09R	2	15,09		B	3	4							
	P60..-D15,10R	2	15,1		B	3	4							
	P60..-D15,20R	2	15,2		B	3	4							
	P60..-D15,30R	2	15,3		B	3	4							

Ordering example: P60..-D13.00R is available as
 P6003 in grade WMP35 (ISO P, ISO M and ISO S); P6003-D13.00R WMP35 or as
 P6001 in grade WPP45C (ISO P); P6001-D13.00R WPP45C

HC = Coated carbide

Drill inserts P6001 / P6003 / P6004 / P6005

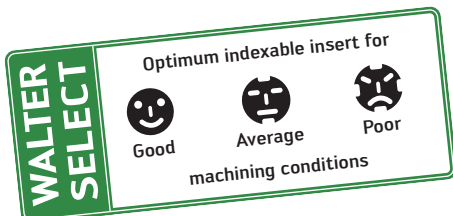


Drill inserts

Designation	Number of cutting edges	D _c mm	D _c Inch/ no.	Seat size	d ₁ mm	s mm	P6001		P6003		P6004		P6005	
							P		P		N		K	
							WPP45C	HC	WMP35	HC	WNN25	HC	WKK45C	HC
P6001	P60.-D15,40R	2	15,4	B	3	4	☺	☺	☺	☺				
	P60.-D15,47R	2	15,47	B	3	4	☺	☺	☺	☺				
	P60.-D15,48R	2	15,48	B	3	4								
	P60.-D15,50R	2	15,5	B	3	4	☺	☺	☺	☺	☺			
	P60.-D15,60R	2	15,6	B	3	4	☺	☺	☺	☺				
	P60.-D15,70R	2	15,7	B	3	4	☺	☺	☺	☺				
P6003	P60.-D15,80R	2	15,8	B	3	4	☺	☺	☺	☺				
	P60.-D15,87R	2	15,87	B	3	4	☺	☺	☺	☺				
	P60.-D15,88R	2	15,88	B	3	4								
	P60.-D15,90R	2	15,9	B	3	4								
	P60.-D16,00R	2	16	C	4	4,5	☺	☺	☺	☺	☺			
	P60.-D16,13R	2	16,13	C	4	4,5	☺	☺	☺	☺				
P6004	P60.-D16,26R	2	16,26	C	4	4,5	☺	☺	☺	☺				
	P60.-D16,27R	2	16,27	C	4	4,5								
	P60.-D16,43R	2	16,43	C	4	4,5	☺	☺	☺	☺				
	P60.-D16,50R	2	16,5	C	4	4,5	☺	☺	☺	☺	☺			
	P60.-D16,66R	2	16,66	C	4	4,5	☺	☺	☺	☺	☺			
	P60.-D16,67R	2	16,67	C	4	4,5								
P6005	P60.-D16,70R	2	16,7	C	4	4,5	☺	☺	☺	☺				
	P60.-D16,80R	2	16,8	C	4	4,5								
	P60.-D17,00R	2	17	C	4	4,5	☺	☺	☺	☺	☺			
	P60.-D17,07R	2	17,07	C	4	4,5	☺	☺	☺	☺				
	P60.-D17,20R	2	17,2	C	4	4,5	☺	☺	☺	☺				
	P60.-D17,45R	2	17,45	C	4	4,5	☺	☺	☺	☺				
	P60.-D17,46R	2	17,46	C	4	4,5								
	P60.-D17,50R	2	17,5	C	4	4,5	☺	☺	☺	☺	☺			
	P60.-D17,70R	2	17,7	C	4	4,5	☺	☺	☺	☺	☺			
	P60.-D17,80R	2	17,8	C	4	4,5								
	P60.-D17,86R	2	17,86	45/64"	C	4	4,5	☺	☺	☺	☺			
	P60.-D18,00R	2	18	D	4	5	☺	☺	☺	☺	☺			
	P60.-D18,24R	2	18,24	D	4	5	☺	☺	☺	☺				
	P60.-D18,26R	2	18,26	D	4	5								
	P60.-D18,50R	2	18,5	D	4	5	☺	☺	☺	☺	☺			
	P60.-D18,65R	2	18,65	D	4	5	☺	☺	☺	☺	☺			
	P60.-D18,70R	2	18,7	D	4	5	☺	☺	☺	☺				
	P60.-D18,80R	2	18,8	D	4	5	☺	☺	☺	☺				
	P60.-D19,00R	2	19	D	4	5	☺	☺	☺	☺	☺			
	P60.-D19,05R	2	19,05	3/4"	D	4	5	☺	☺	☺	☺			
	P60.-D19,20R	2	19,2	D	4	5	☺	☺	☺	☺	☺			

Ordering example: P60.-D13,00R is available as P6003 in grade WMP35 (ISO P, ISO M and ISO S); P6003-D13,00R WMP35 or as P6001 in grade WPP45C (ISO P); P6001-D13,00R WPP45C

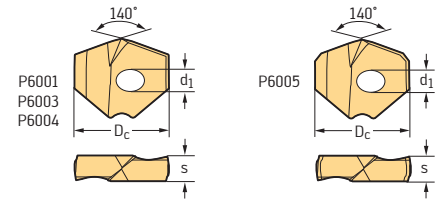
HC = Coated carbide



B1

Drill inserts

P6001 / P6003 / P6004 / P6005



Drill inserts

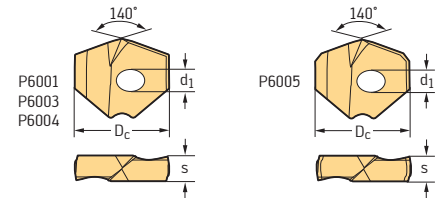
B1

Designation	Number of cutting edges	D _c mm	D _c Inch/ no.	Seat size	d ₁ mm	s mm	P6001		P6003		P6004		P6005	
							P	HC	P	HC	N	HC	K	HC
							WPP45C	WMP35	WMP35	WMP35	WNN25	WNN25	WKK45C	WMP35
P6001 	P60.-D19,25R	2	19,25		D	4	5	☹	☹	☹	☹		☹	☹
	P60.-D19,30R	2	19,3		D	4	5	☹	☹	☹	☹		☹	☹
	P60.-D19,43R	2	19,43		D	4	5	☹	☹	☹	☹		☹	☹
	P60.-D19,45R	2	19,45		D	4	5						☹	
	P60.-D19,50R	2	19,5		D	4	5	☹	☹	☹	☹	☹	☹	☹
P6003 	P60.-D19,60R	2	19,6		D	4	5	☹	☹	☹	☹		☹	☹
	P60.-D19,70R	2	19,7		D	4	5	☹	☹	☹	☹	☹	☹	☹
	P60.-D19,80R	2	19,8		D	4	5						☹	
	P60.-D19,84R	2	19,84		D	4	5	☹	☹	☹	☹	☹	☹	☹
	P60.-D20,00R	2	20		E	5	5,5	☹	☹	☹	☹	☹	☹	☹
P6004 	P60.-D20,20R	2	20,2		E	5	5,5	☹	☹	☹	☹		☹	☹
	P60.-D20,24R	2	20,24	51/64"	E	5	5,5	☹	☹	☹	☹		☹	☹
	P60.-D20,50R	2	20,5		E	5	5,5	☹	☹	☹	☹	☹	☹	☹
	P60.-D20,62R	2	20,62		E	5	5,5	☹	☹	☹	☹		☹	☹
	P60.-D20,64R	2	20,64		E	5	5,5						☹	
P6005 	P60.-D20,70R	2	20,7		E	5	5,5	☹	☹	☹	☹		☹	☹
	P60.-D21,00R	2	21		E	5	5,5	☹	☹	☹	☹	☹	☹	☹
	P60.-D21,41R	2	21,41		E	5	5,5	☹	☹	☹	☹		☹	☹
	P60.-D21,43R	2	21,43		E	5	5,5						☹	
	P60.-D21,50R	2	21,5		E	5	5,5	☹	☹	☹	☹	☹	☹	☹
	P60.-D21,70R	2	21,7		E	5	5,5	☹	☹	☹	☹	☹	☹	☹
	P60.-D21,83R	2	21,83		E	5	5,5	☹	☹	☹	☹		☹	☹
	P60.-D22,00R	2	22		F	5	6	☹	☹	☹	☹	☹	☹	☹
	P60.-D22,22R	2	22,22		F	5	6	☹	☹	☹	☹		☹	☹
	P60.-D22,23R	2	22,23		F	5	6						☹	
	P60.-D22,42R	2	22,42		F	5	6	☹	☹	☹	☹		☹	☹
	P60.-D22,47R	2	22,47		F	5	6	☹	☹	☹	☹		☹	☹
	P60.-D22,50R	2	22,5		F	5	6	☹	☹	☹	☹	☹	☹	☹
	P60.-D22,62R	2	22,62		F	5	6	☹	☹	☹	☹		☹	☹
	P60.-D22,70R	2	22,7		F	5	6	☹	☹	☹	☹		☹	☹
	P60.-D22,77R	2	22,77		F	5	6	☹	☹	☹	☹		☹	☹
	P60.-D23,00R	2	23		F	5	6	☹	☹	☹	☹	☹	☹	☹
	P60.-D23,02R	2	23,02		F	5	6						☹	
	P60.-D23,39R	2	23,39		F	5	6	☹	☹	☹	☹		☹	☹
	P60.-D23,50R	2	23,5		F	5	6	☹	☹	☹	☹	☹	☹	☹
P60.-D23,70R	2	23,7		F	5	6	☹	☹	☹	☹		☹	☹	
P60.-D23,80R	2	23,8		F	5	6	☹	☹	☹	☹		☹	☹	
P60.-D23,81R	2	23,81		F	5	6						☹		
P60.-D24,00R	2	24		G	5	6,5	☹	☹	☹	☹	☹	☹	☹	
P60.-D24,21R	2	24,21	61/64"	G	5	6,5	☹	☹	☹	☹		☹	☹	
P60.-D24,50R	2	24,5		G	5	6,5	☹	☹	☹	☹	☹	☹	☹	
P60.-D24,59R	2	24,59		G	5	6,5	☹	☹	☹	☹		☹	☹	
P60.-D24,61R	2	24,61		G	5	6,5						☹		

Ordering example: P60.-D13.00R is available as
 P6003 in grade WMP35 (ISO P, ISO M and ISO S); P6003-D13.00R WMP35 or as
 P6001 in grade WPP45C (ISO P); P6001-D13.00R WPP45C

HC = Coated carbide

Drill inserts P6001 / P6003 / P6004 / P6005

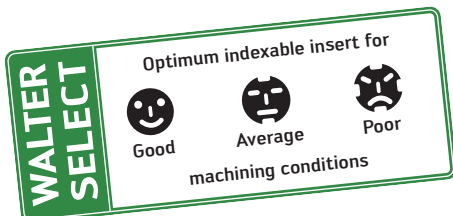


Drill inserts

Designation	Number of cutting edges	D _c mm	D _c Inch/ no.	Seat size	d ₁ mm	s mm	P6001		P6003		P6004		P6005	
							P	HC	P	HC	N	HC	K	HC
							WPP45C	WMP35	WMP35	WMP35	WNN25	WMP35	WKK45C	WMP35
P6001 	P60.-D24,70R	2	24,7		G	5	6,5							
	P60.-D25,00R	2	25		G	5	6,5							
	P60.-D25,25R	2	25,25		G	5	6,5							
	P60.-D25,40R	2	25,4	1"	G	5	6,5							
	P60.-D25,50R	2	25,5		G	5	6,5							
P6003 	P60.-D25,65R	2	25,65		G	5	6,5							
	P60.-D25,70R	2	25,7		G	5	6,5							
	P60.-D25,80R	2	25,8		G	5	6,5							
	P60.-D26,00R	2	26		H	6	7,1							
	P60.-D26,25R	2	26,25		H	6	7,1							
P6004 	P60.-D26,50R	2	26,5		H	6	7,1							
	P60.-D26,59R	2	26,59	1 3/64"	H	6	7,1							
	P60.-D27,00R	2	27		H	6	7,1							
	P60.-D27,38R	2	27,38		H	6	7,1							
	P60.-D27,50R	2	27,5		H	6	7,1							
P6005 	P60.-D27,78R	2	27,78		H	6	7,1							
	P60.-D28,00R	2	28		J	6	7,7							
	P60.-D28,17R	2	28,17		J	6	7,7							
	P60.-D28,50R	2	28,5		J	6	7,7							
	P60.-D28,57R	2	28,57		J	6	7,7							
	P60.-D29,00R	2	29		J	6	7,7							
	P60.-D29,37R	2	29,37		J	6	7,7							
	P60.-D29,50R	2	29,5		J	6	7,7							
	P60.-D29,77R	2	29,77		J	6	7,7							
	P60.-D30,00R	2	30		K	6	8							
	P60.-D30,15R	2	30,15		K	6	8							
	P60.-D30,50R	2	30,5		K	6	8							
	P60.-D31,00R	2	31		K	6	8							
	P60.-D31,50R	2	31,5		K	6	8							
	P60.-D31,75R	2	31,75	1 1/4"	K	6	8							
P60.-D31,99R	2	31,99		K	6	8								
P60.-D32,00R	2	32		M	6	8,3								
P60.-D32,10R	2	32,1		M	6	8,3								
P60.-D33,00R	2	33		M	6	8,3								
P60.-D34,00R	2	34		N	6	8,6								
P60.-D35,00R	2	35		N	6	8,6								
P60.-D36,00R	2	36		P	6	8,9								
P60.-D37,00R	2	37		P	6	8,9								
P60.-D37,99R	2	37,99		P	6	8,9								

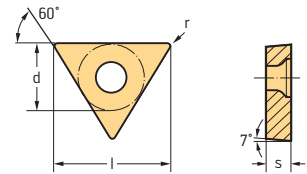
Ordering example: P60.-D13,00R is available as P6003 in grade WMP35 (ISO P, ISO M and ISO S); P6003-D13,00R WMP35 or as P6001 in grade WPP45C (ISO P); P6001-D13,00R WPP45C

HC = Coated carbide



B1

Positive triangular 60° TCMT Tiger-tec® Silver



Indexable inserts

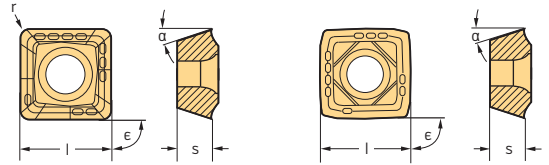
B1

Designation	l mm	r mm	P			M				K		N		S			
			HE	HC		HC				HC	HC	HC					
			WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM10S	WSM20S	WSM30S	WSM21	WKK10S	WKK20S	WNN10	WSM10S	WSM20S
TCMT06T102-FM4	6,62	0,2															
TCMT06T104-FM4	6,62	0,4															
TCMT090202-FM4	9,37	0,2						☉	☉	☉				☉	☉	☉	
TCMT090204-FM4	9,37	0,4						☉	☉	☉				☉	☉	☉	
TCMT090208-FM4	9,37	0,8						☉	☉					☉	☉		
TCMT110202-FM4	10,74	0,2						☉	☉	☉				☉	☉	☉	
TCMT110204-FM4	10,74	0,4						☉	☉	☉				☉	☉	☉	
TCMT110208-FM4	10,74	0,8						☉	☉					☉	☉		
TCMT16T302-FM4	16,50	0,2						☉	☉	☉				☉	☉	☉	
TCMT16T304-FM4	16,50	0,4						☉	☉	☉				☉	☉	☉	
TCMT16T308-FM4	16,50	0,8						☉	☉					☉	☉		
TCMT06T102-FP4	6,62	0,2			☉												
TCMT06T104-FP4	6,62	0,4	☉		☉												
TCMT090202-FP4	9,37	0,2			☉												
TCMT090204-FP4	9,37	0,4	☉		☉												
TCMT090208-FP4	9,37	0,8			☉												
TCMT110202-FP4	10,74	0,2			☉												
TCMT110204-FP4	10,74	0,4	☉		☉												
TCMT110208-FP4	10,74	0,8			☉												
TCMT16T302-FP4	16,50	0,2			☉												
TCMT16T304-FP4	16,50	0,4			☉												
TCMT16T308-FP4	16,50	0,8	☉		☉												
TCMT090204-MP4	9,37	0,4			☉												
TCMT090208-MP4	9,37	0,8			☉												
TCMT110204-MP4	10,74	0,4			☉												
TCMT110208-MP4	10,74	0,8			☉												
TCMT16T304-MP4	16,50	0,4			☉												
TCMT16T308-MP4	16,50	0,8			☉												
TCMT220408-MP4	22,00	0,8			☉												

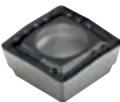
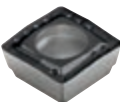



See the ISO 1832 designation key for dimensions

 HE = Coated cermet
 HC = Coated carbide

Square P484.. Tiger-tec® Silver



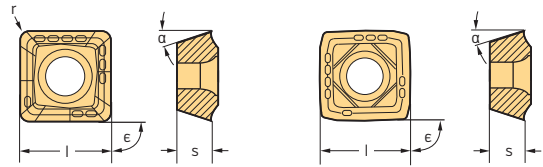
Indexable inserts

Designation	Number of cutting edges	l mm	s mm	r mm	α	ε	P					M			K			N		S	
							HC					HC			HC			HC		HC	
							WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WXP40	WSP45
 P4840P-1R-A57	4	4,55	1,96	0,29	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-2R-A57	4	5,52	2,28	0,34	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-3R-A57	4	6,5	2,8	0,4	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-4R-A57	4	7,8	3,36	0,48	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-5R-A57	4	9,56	4,12	0,59	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-6R-A57	4	11,75	4,87	0,7	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-7R-A57	4	14,03	5,53	0,8	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-8R-A57	4	16,5	5,53	1	11°	90°	☉	☉	☉		☉			☉	☉			☉			
 P4840P-1R-E57	4	4,55	1,96	0,29	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-2R-E57	4	5,52	2,28	0,34	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-3R-E57	4	6,5	2,8	0,4	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-4R-E57	4	7,8	3,36	0,48	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-5R-E57	4	9,56	4,12	0,59	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-6R-E57	4	11,75	4,87	0,7	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-7R-E57	4	14,03	5,53	0,8	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4840P-8R-E57	4	16,5	5,53	1	11°	90°	☉	☉	☉		☉			☉	☉			☉			
 P4840P-1R-E67	4	4,55	1,96	0,29	11°	90°	☉	☉	☉		☉			☉	☉		☉	☉			
P4840P-2R-E67	4	5,52	2,28	0,34	11°	90°	☉	☉	☉		☉			☉	☉		☉	☉			
P4840P-3R-E67	4	6,5	2,8	0,4	11°	90°	☉	☉	☉		☉			☉	☉		☉	☉			
P4840P-4R-E67	4	7,8	3,36	0,48	11°	90°	☉	☉	☉		☉			☉	☉		☉	☉			
P4840P-5R-E67	4	9,56	4,12	0,59	11°	90°	☉	☉	☉		☉			☉	☉		☉	☉			
P4840P-6R-E67	4	11,75	4,87	0,7	11°	90°	☉	☉	☉		☉			☉	☉		☉	☉			
P4840P-7R-E67	4	14,03	5,53	0,8	11°	90°	☉	☉	☉		☉			☉	☉		☉	☉			
P4840P-8R-E67	4	16,5	5,53	1	11°	90°	☉	☉	☉		☉			☉	☉		☉	☉			
 P4841P-1R-A57	4	4,55	1,96	0,29	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-2R-A57	4	5,52	2,28	0,34	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-3R-A57	4	6,5	2,8	0,4	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-4R-A57	4	7,8	3,36	0,48	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-5R-A57	4	9,56	4,12	0,59	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-6R-A57	4	11,75	4,87	0,7	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-7R-A57	4	14,03	5,53	0,8	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-8R-A57	4	16,5	5,53	1	11°	90°	☉	☉	☉		☉			☉	☉			☉			
 P4841P-1R-E57	4	4,55	1,96	0,29	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-2R-E57	4	5,52	2,28	0,34	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-3R-E57	4	6,5	2,8	0,4	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-4R-E57	4	7,8	3,36	0,48	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-5R-E57	4	9,56	4,12	0,59	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-6R-E57	4	11,75	4,87	0,7	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-7R-E57	4	14,03	5,53	0,8	11°	90°	☉	☉	☉		☉			☉	☉			☉			
P4841P-8R-E57	4	16,5	5,53	1	11°	90°	☉	☉	☉		☉			☉	☉			☉			

HC = Coated carbide




B1

Square P484.. Tiger-tec® Silver



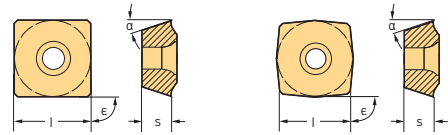
Indexable inserts

B1

Designation	Number of cutting edges	l mm	s mm	r mm	α	ε	P					M			K			N		S	
							HC					HC			HC			HC		HC	
							WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WXP40	WSP45
 P4841C-1R-A57	4	4,9	1,96	0,29	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-2R-A57	4	5,95	2,38	0,34	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-3R-A57	4	7	2,8	0,4	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-4R-A57	4	8,4	3,36	0,48	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-5R-A57	4	10,29	4,12	0,59	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-6R-A57	4	12,24	4,87	0,7	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-7R-A57	4	14,69	5,53	0,8	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-8R-A57	4	17,49	5,53	1	11°	90°	☒	☒		☒				☒	☒	☒			☒		
 P4841C-1R-E57	4	4,9	1,96	0,29	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-2R-E57	4	5,95	2,38	0,34	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-3R-E57	4	7	2,8	0,4	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-4R-E57	4	8,4	3,36	0,48	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-5R-E57	4	10,29	4,12	0,59	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-6R-E57	4	12,24	4,87	0,7	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-7R-E57	4	14,69	5,53	0,8	11°	90°	☒	☒		☒				☒	☒	☒			☒		
P4841C-8R-E57	4	17,49	5,53	1	11°	90°	☒	☒		☒				☒	☒	☒			☒		
 P4840C-1R-E67	4	4,9	1,96	0,29	11°	90°	☒	☒		☒				☒	☒	☒	☒		☒		
P4840C-2R-E67	4	5,95	2,38	0,34	11°	90°	☒	☒		☒				☒	☒	☒	☒		☒		
P4840C-3R-E67	4	7	2,8	0,4	11°	90°	☒	☒		☒				☒	☒	☒	☒		☒		
P4840C-4R-E67	4	8,4	3,36	0,48	11°	90°	☒	☒		☒				☒	☒	☒	☒		☒		
P4840C-5R-E67	4	10,29	4,12	0,59	11°	90°	☒	☒		☒				☒	☒	☒	☒		☒		
P4840C-6R-E67	4	12,24	4,87	0,7	11°	90°	☒	☒		☒				☒	☒	☒	☒		☒		
P4840C-7R-E67	4	14,69	5,53	0,8	11°	90°	☒	☒		☒				☒	☒	☒	☒		☒		
P4840C-8R-E67	4	17,49	5,53	1	11°	90°	☒	☒		☒				☒	☒	☒	☒		☒		

HC = Coated carbide

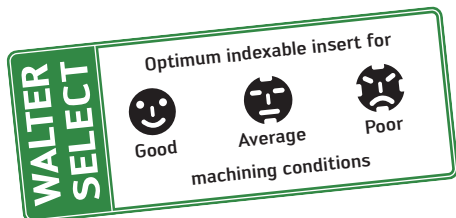
Square P284..



Indexable inserts

Designation	Number of cutting edges	l mm	s mm	α	ε	P					M			K			N		S				
						HC					HC			HC			HC		HC				
						WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WK40	WK40	WSP45	WSP45S	WXP40	
P2840S-1N-A57	4	6,35	2,38	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2840S-2N-A57	4	7,8	3,18	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2840S-3N-A57	4	9,52	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2840S-4N-A57	4	11	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2840S-5N-A57	4	12,7	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2840S-6N-A57	4	15	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2840S-7N-A57	4	17,6	5,56	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2840S-1N-E67	4	6,35	2,38	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2840S-2N-E67	4	7,8	3,18	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2840S-3N-E67	4	9,52	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2840S-4N-E67	4	11	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2840S-5N-E67	4	12,7	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2840S-6N-E67	4	15	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2840S-7N-E67	4	17,6	5,56	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-1N-A57	4	6,35	2,38	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2841S-2N-A57	4	7,8	3,18	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2841S-3N-A57	4	9,52	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2841S-4N-A57	4	11	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2841S-5N-A57	4	12,7	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2841S-6N-A57	4	15	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2841S-7N-A57	4	17,6	5,56	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒				☒	☒	
P2841S-1N-E57	4	6,35	2,38	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-2N-E57	4	7,8	3,18	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-3N-E57	4	9,52	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-4N-E57	4	11	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-5N-E57	4	12,7	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-6N-E57	4	15	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-7N-E57	4	17,6	5,56	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-1N-E67	4	6,35	2,38	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-2N-E67	4	7,8	3,18	14°	90°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-3N-E67	4	9,52	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-4N-E67	4	11	3,97	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-5N-E67	4	12,7	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-6N-E67	4	15	4,76	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
P2841S-7N-E67	4	17,6	5,56	11°	96°	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒

HC = Coated carbide



B1

Product range overview

Exchangeable insert drills/indexable insert drills

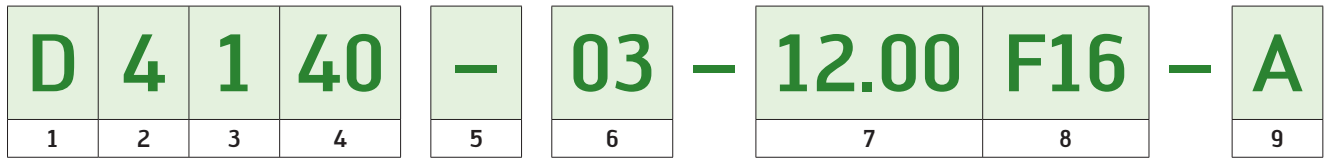
B1

Drilling depth	$2,5 \times D_c$	$1,3 \times D_c$	$3 \times D_c$	$5 \times D_c$	$7 \times D_c$	$10 \times D_c$
Designation	D4240-02	D4140-01	D4140-03	D4140-05	D4140-07	D4140-10
Dia. range [mm]	12–29.99	12–25.99	12–37.99	12–37.99	12–37.99	18–24.99
Page	210	212	214	220	228	236

Drilling depth	$2 \times D_c$	$3 \times D_c$	$4 \times D_c$	$5 \times D_c$
Designation	D4120-02	D4120-03	D4120-04	D4120-05
Dia. range [mm]	14–42	14–42	17–42	17–42
Page	238	242	246	250

Drilling depth	$2 \times D_c$	$3 \times D_c$	$4 \times D_c$
Designation	D3120-02	D3120-03	D3120-04
Dia. range [mm]	16–42	16–42	16–42
Page	254	256	258

Designation key for Walter drilling tools with indexable inserts



1
Tool group
D Drilling

2
Generation

3
Tool type
1 Cylindrical drill
2 Chamfer drills
5 Chamfering tool

4
Tool type
20 Indexable insert drill with square indexable insert
40 Indexable insert drill with P600x exchangeable insert
80 Compact chamfering tool

5
1. Delimiters
— Metric
. Inch

6
Drilling depth/ chamfer angle
01 1,3 × D _c
02 2 × D _c / 2,5 × D _c
03 3 × D _c
04 4 × D _c
05 5 × D _c
07 7 × D _c
10 10 × D _c
45 45° chamfer angle

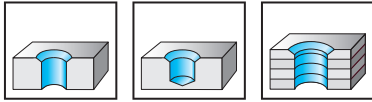
7
Cutting diameter/clamping diameter of the chamfering tool

8
Shank type and size, cylindrical
F16 16 mm
F20 20 mm
F25 25 mm
F32 32 mm
F40 40 mm
A12 12 mm
A16 16 mm
A20 20 mm
A25 25 mm
A13 0.500 inch
A15 0.625 inch
A19 0.750 inch
A26 1.000 inch

9
Insert size/ interface size

B1

Solid drills

 D4240-02 mm


D_c 12– 29,99	$2,5 \times D_c$	90°	140°	Z=2
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	P	M	K	N	S	H	O
D4240-02	●	●	●	●	●		

B1

Tool	Designation	D_c mm	D_1 mm	L_c mm	l_4 mm	l_5 mm	d_1 mm	d_4 mm	kg	No. of index- able inserts	Seat size	Type
Parallel shank with flat 	★ D4240-02-12.00F20-A	12	23,7	35,2	68	50	20	30	0,22	1 2	A	P600 . -D12, .. TC .. 11020 ..
	★ D4240-02-14.00F20-B	14	25,7	40,6	76	50	20	30	0,26	1 2	B	P600 . -D14, .. TC .. 11020 ..
	★ D4240-02-15.00F20-B	15	26,7	46,7	80	50	20	30	0,25	1 2	B	P600 . -D15, .. TC .. 11020 ..
	★ D4240-02-17.00F20-C	17	28,7	48,6	88	50	20	30	0,30	1 2	C	P600 . -D17, .. TC .. 11020 ..
	★ D4240-02-19.00F20-D	19	30,7	52,5	96	50	20	30	0,34	1 2	D	P600 . -D19, .. TC .. 11020 ..
Parallel shank with flat 	★ D4240-02-21.00F20-E	21	32,7	55,3	104	50	20	30	0,37	1 2	E	P600 . -D21, .. TC .. 11020 ..
	★ D4240-02-24.00F25-G	24	43,4	61,4	117	56	25	35	0,06	1 2	G	P600 . -D24, .. TC .. 16T3 ..
	★ D4240-02-26.00F25-H	26	45,4	66,7	125	56	25	35	0,68	1 2	H	P600 . -D26, .. TC .. 16T3 ..
	★ D4240-02-29.00F32-J	29	48,4	72,3	138	60	32	42	1,08	1 2	J	P600 . -D29, .. TC .. 16T3 ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12	14-15	17	19	21	24	26	29	
	Clamping screw for P600 drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm
	Clamping screw for TC chamfering insert	FS2061 (Torx 7IP)	FS2061 (Torx 7IP)	FS2061 (Torx 7IP)	FS2061 (Torx 7IP)	FS2061 (Torx 7IP)	FS2063 (Torx 15IP)	FS2063 (Torx 15IP)	FS2063 (Torx 15IP)
	Tightening torque	0,9 Nm	0,9 Nm	0,9 Nm	0,9 Nm	0,9 Nm	3,0 Nm	3,0 Nm	3,0 Nm

Accessories

D _c [mm]	12	14-17	19	21-24	26-29
	Torque screwdriver, analogue	FS2001	FS2003	FS2003	FS2003
	Tightening torque	0,4-1,2 Nm	1,5-5,0 Nm	1,5-5,0 Nm	1,5-5,0 Nm
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)
					FS1487 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S	
			HC	HC	HC	HC	HC	HC	HC	HC		
			WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35		
P6001-D..	12-29,77	A-J	☑	☑								
P6003-D..	12-29,77	A-J			☑	☑						
P6004-D..	12-29,5	A-J								☑		
P6005-D..	12-29,77	A-J						☑				
P6002-D..	14-19	B-D					☑					

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

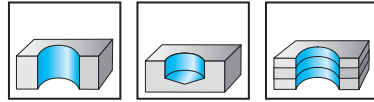
Good

Moderate

●● Primary application

● Other application

Solid drills

 D4140-01


D_c 12- 25,99	$1,3 \times D_c$	140°	$Z=2$
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	P	M	K	N	S	H	O
D4140-01	●	●	●	●	●		

B1

Tool	Designation	D_c mm	L_c mm	l_4 mm	d_1	Z	kg	No. of indexable inserts	Seat size	Type
ScrewFit 	★ D4140-01-12.00T14-A	12	18	47,6	T14	2	0,1	1	A	P600 . -D12, ..
	★ D4140-01-13.00T14-A	13	19	49,9	T14	2	0,1	1	A	P600 . -D13, ..
	★ D4140-01-14.00T14-B	14	21	52,2	T14	2	0,1	1	B	P600 . -D14, ..
	★ D4140-01-15.00T18-B	15	22	54,5	T18	2	0,1	1	B	P600 . -D15, ..
	★ D4140-01-16.00T18-C	16	24	56,8	T18	2	0,1	1	C	P600 . -D16, ..
	★ D4140-01-17.00T18-C	17	25	59,1	T18	2	0,1	1	C	P600 . -D17, ..
	★ D4140-01-18.00T18-D	18	27	61,4	T18	2	0,1	1	D	P600 . -D18, ..
	★ D4140-01-19.00T22-D	19	28	63,7	T22	2	0,1	1	D	P600 . -D19, ..
	★ D4140-01-20.00T22-E	20	30	66,0	T22	2	0,1	1	E	P600 . -D20, ..
	★ D4140-01-21.00T22-E	21	31	68,3	T22	2	0,1	1	E	P600 . -D21, ..
	★ D4140-01-22.00T22-F	22	33	71,6	T22	2	0,2	1	F	P600 . -D22, ..
	★ D4140-01-23.00T28-F	23	34	73,9	T28	2	0,2	1	F	P600 . -D23, ..
	★ D4140-01-24.00T28-G	24	36	76,2	T28	2	0,2	1	G	P600 . -D24, ..
	★ D4140-01-25.00T28-G	25	37	78,6	T28	2	0,3	1	G	P600 . -D25, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12–13	14–15	16–17	18–19	20–21	22–23	24–25	
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm

Accessories

D _c [mm]	12–13	14–17	18–19	20–25	
	Torque screwdriver, analogue	FS2001	FS2003	FS2003	FS2003
	Tightening torque	0,4–1,2 Nm	1,5–5,0 Nm	1,5–5,0 Nm	1,5–5,0 Nm
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S	
			HC	HC	HC	HC	HC	HC	HC	HC		
			WXP45	WPP45C	WMP35	WMP35	WKK25	WKK45C	WNN25	WMP35		
P6001-D..	12–25,8	A–G	☞	☞								
P6003-D..	12–25,8	A–G			☞	☞					☞	
P6004-D..	12–25,5	A–G								☞		
P6005-D..	12–25,8	A–G							☞			
P6002-D..	14–19	B–D					☞					

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

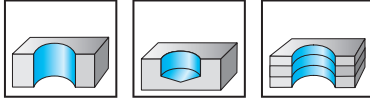
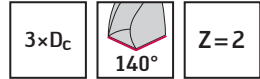
☹
Moderate

●●
Primary application

●
Other application

B1

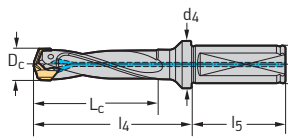
Solid drills

 D4140-03 mm


	P	M	K	N	S	H	O
D4140-03	●	●	●	●	●		

Tool

Parallel shank with flat



Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of index- able inserts	Seat size	Type
D4140-03-12.00F16-A	12	36	68	48	16	20	0,14	1	A	P600 . -D12, ..
D4140-03-13.00F16-A	13	41	72	48	16	20	0,15	1	A	P600 . -D13, ..
D4140-03-14.00F16-B	14	45	76	48	16	20	0,15	1	B	P600 . -D14, ..
D4140-03-15.00F16-B	15	48	80	48	16	20	0,16	1	B	P600 . -D15, ..
D4140-03-16.00F20-C	16	51	84	50	20	25	0,25	1	C	P600 . -D16, ..
D4140-03-17.00F20-C	17	54	88	50	20	25	0,24	1	C	P600 . -D17, ..
D4140-03-18.00F20-D	18	57	92	50	20	25	0,25	1	D	P600 . -D18, ..
D4140-03-19.00F20-D	19	61	96	50	20	25	0,26	1	D	P600 . -D19, ..
D4140-03-20.00F20-E	20	64	100	50	20	25	0,28	1	E	P600 . -D20, ..
D4140-03-21.00F20-E	21	67	104	50	20	25	0,3	1	E	P600 . -D21, ..
D4140-03-22.00F25-F	22	70	109	56	25	32	0,44	1	F	P600 . -D22, ..
D4140-03-23.00F25-F	23	73	113	56	25	32	0,46	1	F	P600 . -D23, ..
D4140-03-24.00F25-G	24	76	117	56	25	32	0,48	1	G	P600 . -D24, ..
D4140-03-25.00F25-G	25	80	121	56	25	32	0,50	1	G	P600 . -D25, ..
D4140-03-26.00F25-H	26	83	125	56	25	32	0,52	1	H	P600 . -D26, ..
D4140-03-27.00F25-H	27	86	129	56	25	32	0,53	1	H	P600 . -D27, ..
D4140-03-28.00F32-J	28	89	134	60	32	40	0,80	1	J	P600 . -D28, ..
D4140-03-29.00F32-J	29	92	138	60	32	40	0,86	1	J	P600 . -D29, ..
D4140-03-30.00F32-K	30	95	142	60	32	40	0,89	1	K	P600 . -D30, ..
D4140-03-31.00F32-K	31	99	146	60	32	40	0,92	1	K	P600 . -D31, ..
★ D4140-03-32.00F40-M	32	102	150	70	40	50	1,39	1	M	P600 . -D32, ..
★ D4140-03-33.00F40-M	33	105	154	70	40	50	1,46	1	M	P600 . -D33,0 ..
★ D4140-03-34.00F40-N	34	108	158	70	40	50	1,51	1	N	P600 . -D34,0 ..
★ D4140-03-35.00F40-N	35	111	162	70	40	50	1,58	1	N	P600 . -D35,0 ..
★ D4140-03-36.00F40-P	36	115	166	70	40	50	1,58	1	P	P600 . -D36,0 ..
★ D4140-03-37.00F40-P	37	118	170	70	40	50	1,66	1	P	P600 . -D37, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-33	34-37
Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS2159 (Torx 25IP)
Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories

D _c [mm]	12-13	14-17	18-19	20-25	26-37
Torque T-handle Tightening torque					FS2041 4,5-14 Nm
Torque screwdriver, analogue Tightening torque	FS2001 0,4-1,2 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	
Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35		
P6001-D..	12-37,99	A-P	☺	☺								
P6003-D..	12-37,99	A-P			☺	☺						
P6004-D..	12-31,5	A-K							☺			
P6005-D..	12-37,99	A-P					☺					
P6002-D..	14-19	B-D					☺					

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

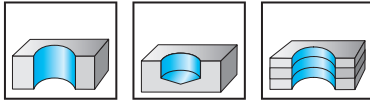
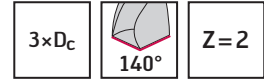
☺
Moderate

●● Primary application

● Other application

B1

Solid drills

 D4140-03 inch


	P	M	K	N	S	H	O
D4140-03	●	●	●	●	●		

B1

Tool	Designation	D _c Inch	L _c Inch	l ₄ Inch	l ₅ Inch	d ₁ Inch	d ₄ Inch	lbs	No. of indexable inserts	Type
Parallel shank with collar 	★ D4140.03-12.00A15-A	0,472	1,496	2,677	1,890	0,625	0,787	0,48	1	P600 . -D12, ..
	★ D4140.03-13.00A15-A	0,512	1,614	2,834	1,890	0,625	0,787	0,42	1	P600 . -D13, ..
	★ D4140.03-14.00A15-B	0,551	1,772	2,992	1,890	0,625	0,787	0,44	1	P600 . -D14, ..
	★ D4140.03-15.00A15-B	0,591	1,890	3,149	1,890	0,625	0,787	0,46	1	P600 . -D15, ..
	★ D4140.03-16.00A19-C	0,630	2,008	3,308	2,031	0,750	0,984	0,51	1	P600 . -D16, ..
	★ D4140.03-17.00A19-C	0,669	2,126	3,465	2,031	0,750	0,984	0,66	1	P600 . -D17, ..
	★ D4140.03-18.00A19-D	0,709	2,244	3,622	2,031	0,750	0,984	0,55	1	P600 . -D18, ..
	★ D4140.03-19.00A19-D	0,748	2,362	3,779	2,031	0,750	0,984	0,60	1	P600 . -D19, ..
	★ D4140.03-20.00A19-E	0,787	2,480	3,937	2,031	0,750	0,984	0,64	1	P600 . -D20, ..
	★ D4140.03-21.00A19-E	0,827	2,598	4,094	2,031	0,750	0,984	0,68	1	P600 . -D21, ..
	★ D4140.03-22.00A26-F	0,866	2,756	4,292	2,281	1,000	1,260	1,04	1	P600 . -D22, ..
	★ D4140.03-24.00A26-G	0,945	2,992	4,606	2,281	1,000	1,260	1,26	1	P600 . -D24, ..
	★ D4140.03-26.00A26-H	1,024	3,268	4,921	2,281	1,000	1,260	1,32	1	P600 . -D26, ..
	★ D4140.03-28.00A31-J	1,102	3,504	5,276	2,281	1,250	1,575	1,79	1	P600 . -D28, ..
	★ D4140.03-30.00A31-K	1,181	3,740	5,591	2,281	1,250	1,575	1,96	1	P600 . -D30, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		0,472–0,512	0,551–0,591	0,630–0,669	0,709–0,748	0,787–0,827	0,866	0,945	1,024	1,102–1,181
D _c [Inch]										
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm

Accessories		0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,945	1,024–1,181
D _c [Inch]						
	Torque T-handle					FS2042
	Tightening torque					4,5–14 Nm
	Torque screwdriver, analogue	FS2002	FS2004	FS2004	FS2004	
	Tightening torque	0,4–1,2 Nm	1,5–5,0 Nm	1,5–5,0 Nm	1,5–5,0 Nm	
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts		D _c mm	Seat size	P	M	K	N	S					
Designation				HC	HC	HC	HC	HC					
				WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35		
	P6001-D..	12–30,5	A–K	☞	☞								
	P6003-D..	12–30,5	A–K		☞	☞					☞		
	P6004-D..	12–30,5	A–K							☞			
	P6005-D..	12–30,5	A–K					☞					
	P6002-D..	14–19	B–D			☞							

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

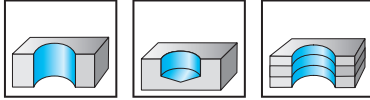
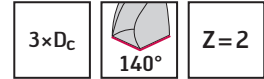
😐
Moderate

●● Primary application

● Other application

B1

Solid drills

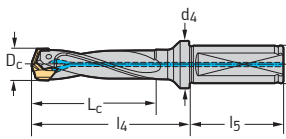
 D4140-03 inch


	P	M	K	N	S	H	O
D4140-03	●	●	●	●	●		

B1

Tool

Parallel shank with flat



Designation	D _c Inch	L _c Inch	l ₄ Inch	l ₅ Inch	d ₁ Inch	d ₄ Inch	lbs	No. of indexable inserts	Type
D4140.03-12.00F15-A	0,472	1,496	2,677	1,890	0,625	0,787	0,31	1	P600 . -D12, ..
D4140.03-13.00F15-A	0,512	1,614	2,834	1,890	0,625	0,787	0,32	1	P600 . -D13, ..
D4140.03-14.00F15-B	0,551	1,772	2,992	1,890	0,625	0,787	0,32	1	P600 . -D14, ..
D4140.03-15.00F15-B	0,591	1,890	3,149	1,890	0,625	0,787	0,36	1	P600 . -D15, ..
D4140.03-16.00F19-C	0,630	2,008	3,307	2,031	0,750	0,984	0,49	1	P600 . -D16, ..
D4140.03-17.00F19-C	0,669	2,126	3,465	2,031	0,750	0,984	0,51	1	P600 . -D17, ..
D4140.03-18.00F19-D	0,709	2,244	3,622	2,031	0,750	0,984	0,54	1	P600 . -D18, ..
D4140.03-19.00F19-D	0,748	2,362	3,779	2,031	0,750	0,984	0,57	1	P600 . -D19, ..
D4140.03-20.00F19-E	0,787	2,520	3,937	2,031	0,750	0,984	0,60	1	P600 . -D20, ..
D4140.03-21.00F19-E	0,827	2,638	4,094	2,031	0,750	0,984	0,63	1	P600 . -D21, ..
D4140.03-22.00F26-F	0,866	2,756	4,291	2,281	1,000	1,260	1,00	1	P600 . -D22, ..
D4140.03-23.00F26-F	0,906	2,874	4,449	2,281	1,000	1,260	1,04	1	P600 . -D23, ..
D4140.03-24.00F26-G	0,945	2,992	4,607	2,281	1,000	1,260	1,08	1	P600 . -D24, ..
D4140.03-25.00F26-G	0,984	3,150	4,764	2,281	1,000	1,260	1,13	1	P600 . -D25, ..
D4140.03-26.00F26-H	1,024	3,268	4,921	2,281	1,000	1,260	1,18	1	P600 . -D26, ..
D4140.03-27.00F26-H	1,063	3,386	5,078	2,281	1,000	1,260	1,27	1	P600 . -D27, ..
D4140.03-28.00F31-J	1,102	3,504	5,276	2,281	1,250	1,575	1,71	1	P600 . -D28, ..
D4140.03-29.00F31-J	1,142	3,622	5,433	2,281	1,250	1,575	1,84	1	P600 . -D29, ..
D4140.03-30.00F31-K	1,181	3,740	5,591	2,281	1,250	1,575	1,90	1	P600 . -D30, ..
D4140.03-31.00F31-K	1,220	3,898	5,748	2,281	1,250	1,575	1,97	1	P600 . -D31, ..
★ D4140.03-32.00F31-M	1,260	4,016	5,905	2,281	1,250	1,575	2,20	1	P600 . -D32, ..
★ D4140.03-33.00F31-M	1,299	4,134	6,062	2,281	1,250	1,575	2,29	1	P600 . -D33, ..
★ D4140.03-34.00F38-N	1,339	4,252	6,221	2,688	1,500	1,969	3,04	1	P600 . -D34, ..
★ D4140.03-35.00F38-N	1,378	4,370	6,378	2,688	1,500	1,969	3,17	1	P600 . -D35, ..
★ D4140.03-36.00F38-P	1,417	4,528	6,536	2,688	1,500	1,969	3,06	1	P600 . -D36,0 ..
★ D4140.03-37.00F38-P	1,457	4,646	6,693	2,688	1,500	1,969	3,43	1	P600 . -D37, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]	0,472–0,512	0,551–0,591	0,630–0,669	0,709–0,748	0,787–0,827	0,866–0,906	0,945–0,984	1,024–1,063	1,102–1,299	1,339–1,457
Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS2159 (Torx 25IP)
Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories

D _c [Inch]	0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,984	1,024–1,457
Torque T-handle Tightening torque					FS2042 4,5–14 Nm
Torque screwdriver, analogue Tightening torque	FS2002 0,4–1,2 Nm	FS2004 1,5–5,0 Nm	FS2004 1,5–5,0 Nm	FS2004 1,5–5,0 Nm	
Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35		
P6001-D..	12–37,99	A–P	☞	☞								
P6003-D..	12–37,99	A–P			☞	☞						
P6004-D..	12–31,5	A–K							☞			
P6005-D..	12–37,99	A–P						☞				
P6002-D..	14–19	B–D					☞					

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

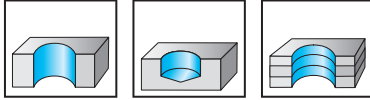
☹
Moderate

●● Primary application

● Other application

B1

Solid drills

 D4140-05 mm


	P	M	K	N	S	H	O
D4140-05	●	●	●	●	●		

B1

Tool	Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of index- able inserts	Seat size	Type
Parallel shank with collar	★ D4140-05-12.00A16-A	12	62	92	48	16	20	0,23	1	A	P600 . -D12, ..
	★ D4140-05-13.00A16-A	13	67	98	48	16	20	0,24	1	A	P600 . -D13, ..
	★ D4140-05-14.00A16-B	14	73	104	48	16	20	0,25	1	B	P600 . -D14, ..
	★ D4140-05-15.00A16-B	15	78	110	48	16	20	0,27	1	B	P600 . -D15, ..
	★ D4140-05-16.00A20-C	16	83	116	50	20	25	0,28	1	C	P600 . -D16, ..
	★ D4140-05-17.00A20-C	17	88	122	50	20	25	0,30	1	C	P600 . -D17, ..
	★ D4140-05-18.00A20-D	18	93	128	50	20	25	0,32	1	D	P600 . -D18, ..
	★ D4140-05-19.00A20-D	19	98	134	50	20	25	0,34	1	D	P600 . -D19, ..
	★ D4140-05-20.00A20-E	20	104	140	50	20	25	0,37	1	E	P600 . -D20, ..
	★ D4140-05-21.00A20-E	21	109	146	50	20	25	0,39	1	E	P600 . -D21, ..
	★ D4140-05-22.00A25-F	22	114	153	56	25	32	0,58	1	F	P600 . -D22, ..
	★ D4140-05-23.00A25-F	23	119	159	56	25	32	0,58	1	F	P600 . -D23, ..
	★ D4140-05-24.00A25-G	24	124	165	56	25	32	0,63	1	G	P600 . -D24, ..
	★ D4140-05-25.00A25-G	25	130	171	56	25	32	0,67	1	G	P600 . -D25, ..
	★ D4140-05-26.00A25-H	26	135	177	56	25	32	0,73	1	H	P600 . -D26, ..
	★ D4140-05-27.00A25-H	27	140	183	56	25	32	0,76	1	H	P600 . -D27, ..
	★ D4140-05-28.00A32-J	28	145	190	60	32	40	1,05	1	J	P600 . -D28, ..
	★ D4140-05-29.00A32-J	29	150	196	60	32	40	1,06	1	J	P600 . -D29, ..
	★ D4140-05-30.00A32-K	30	155	202	60	32	40	1,17	1	K	P600 . -D30, ..
	★ D4140-05-31.00A32-K	31	161	208	60	32	40	1,2	1	K	P600 . -D31, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-31	32-37
Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS2159 (Torx 25IP)
Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories

D _c [mm]	12-13	14-17	18-19	20-25	26-37
Torque T-handle Tightening torque					FS2041 4,5-14 Nm
Torque screwdriver, analogue Tightening torque	FS2001 0,4-1,2 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	
Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35		
P6001-D..	12-31,99	A-K	☞	☞								
P6003-D..	12-31,99	A-K			☞	☞					☞	
P6004-D..	12-31,5	A-K								☞		
P6005-D..	12-31,99	A-K						☞				
P6002-D..	14-19	B-D					☞					

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

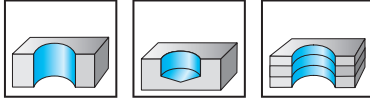
😊
Good

😐
Moderate

☛ Primary application

● Other application

Solid drills

 D4140-05 mm


P	M	K	N	S	H	O
●	●	●	●	●		

B1

Tool	Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of index- able inserts	Seat size	Type
Parallel shank with flat 	D4140-05-12.00F16-A	12	62	92	48	16	20	0,15	1	A	P600 . -D12, ..
	D4140-05-13.00F16-A	13	67	98	48	16	20	0,15	1	A	P600 . -D13, ..
	D4140-05-14.00F16-B	14	73	104	48	16	20	0,17	1	B	P600 . -D14, ..
	D4140-05-15.00F16-B	15	78	110	48	16	20	0,18	1	B	P600 . -D15, ..
	D4140-05-16.00F20-C	16	83	116	50	20	25	0,26	1	C	P600 . -D16, ..
	D4140-05-17.00F20-C	17	88	122	50	20	25	0,28	1	C	P600 . -D17, ..
	D4140-05-18.00F20-D	18	93	128	50	20	25	0,29	1	D	P600 . -D18, ..
	D4140-05-19.00F20-D	19	98	134	50	20	25	0,31	1	D	P600 . -D19, ..
	D4140-05-20.00F20-E	20	104	140	50	20	25	0,3	1	E	P600 . -D20, ..
	D4140-05-21.00F20-E	21	109	146	50	20	25	0,37	1	E	P600 . -D21, ..
	D4140-05-22.00F25-F	22	114	153	56	25	32	0,53	1	F	P600 . -D22, ..
	D4140-05-23.00F25-F	23	119	159	56	25	32	0,56	1	F	P600 . -D23, ..
	D4140-05-24.00F25-G	24	124	165	56	25	32	0,59	1	G	P600 . -D24, ..
	D4140-05-25.00F25-G	25	130	171	56	25	32	0,62	1	G	P600 . -D25, ..
	D4140-05-26.00F25-H	26	135	177	56	25	32	0,65	1	H	P600 . -D26, ..
	D4140-05-27.00F25-H	27	140	183	56	25	32	0,69	1	H	P600 . -D27, ..
	D4140-05-28.00F32-J	28	145	190	60	32	40	0,97	1	J	P600 . -D28, ..
	D4140-05-29.00F32-J	29	150	196	60	32	40	1,00	1	J	P600 . -D29, ..
	D4140-05-30.00F32-K	30	155	202	60	32	40	1,06	1	K	P600 . -D30, ..
	D4140-05-31.00F32-K	31	161	208	60	32	40	1,12	1	K	P600 . -D31, ..
	★ D4140-05-32.00F40-M	32	166	214	70	40	50	1,58	1	M	P600 . -D32, ..
	★ D4140-05-33.00F40-M	33	171	220	70	40	50	1,64	1	M	P600 . -D33,0 ..
	★ D4140-05-34.00F40-N	34	176	226	70	40	50	1,77	1	N	P600 . -D34,0 ..
	★ D4140-05-35.00F40-N	35	181	232	70	40	50	1,84	1	N	P600 . -D35,0 ..
	★ D4140-05-36.00F40-P	36	187	238	70	40	50	1,75	1	P	P600 . -D36,0 ..
	★ D4140-05-37.00F40-P	37	192	244	70	40	50	2	1	P	P600 . -D37, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-31	32-37
Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS2159 (Torx 25IP)
Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories

D _c [mm]	12-13	14-17	18-19	20-25	26-37
Torque T-handle Tightening torque					FS2041 4,5-14 Nm
Torque screwdriver, analogue Tightening torque	FS2001 0,4-1,2 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	
Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35		
P6001-D..	12-37,99	A-P	☞	☞								
P6003-D..	12-37,99	A-P			☞	☞					☞	
P6004-D..	12-31,5	A-K								☞		
P6005-D..	12-37,99	A-P						☞				
P6002-D..	14-19	B-D					☞					

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

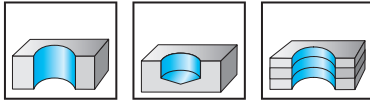
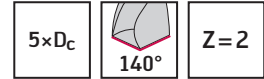
☹
Good

☹
Moderate

●●
Primary application

●
Other application

Solid drills

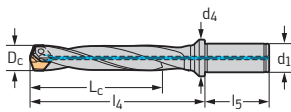
 D4140-05 inch


	P	M	K	N	S	H	O
D4140-05	●	●	●	●	●		

B1

Tool

Parallel shank with collar



Designation	D _c Inch	L _c Inch	l ₄ Inch	l ₅ Inch	d ₁ Inch	d ₄ Inch	lbs	No. of indexable inserts	Type
★ D4140.05-12.00A15-A	0,472	2,441	3,622	1,890	0,625	0,787	0,49	1	P600 . -D12, ..
★ D4140.05-13.00A15-A	0,512	2,638	3,858	1,890	0,625	0,787	0,51	1	P600 . -D13, ..
★ D4140.05-14.00A15-B	0,551	2,874	4,094	1,890	0,625	0,787	0,55	1	P600 . -D14, ..
★ D4140.05-15.00A15-B	0,591	3,071	4,330	1,890	0,625	0,787	0,57	1	P600 . -D15, ..
★ D4140.05-16.00A19-C	0,630	3,268	4,567	2,031	0,750	0,984	0,61	1	P600 . -D16, ..
★ D4140.05-17.00A19-C	0,669	3,465	4,803	2,031	0,750	0,984	0,57	1	P600 . -D17, ..
★ D4140.05-18.00A19-D	0,709	3,661	5,039	2,031	0,750	0,984	0,66	1	P600 . -D18, ..
★ D4140.05-19.00A19-D	0,748	3,858	5,275	2,031	0,750	0,984	0,71	1	P600 . -D19, ..
★ D4140.05-20.00A19-E	0,787	4,094	5,512	2,031	0,750	0,984	0,77	1	P600 . -D20, ..
★ D4140.05-21.00A19-E	0,827	4,291	5,748	2,031	0,750	0,984	0,84	1	P600 . -D21, ..
★ D4140.05-22.00A26-F	0,866	4,488	6,024	2,281	1,000	1,260	1,21	1	P600 . -D22, ..
★ D4140.05-24.00A26-G	0,945	4,882	6,496	2,281	1,000	1,260	1,32	1	P600 . -D24, ..
★ D4140.05-26.00A26-H	1,024	5,315	6,968	2,281	1,000	1,260	1,54	1	P600 . -D26, ..
★ D4140.05-28.00A31-J	1,102	5,709	7,481	2,281	1,250	1,575	2,18	1	P600 . -D28, ..
★ D4140.05-30.00A31-K	1,181	6,102	7,953	2,281	1,250	1,575	2,43	1	P600 . -D30, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		0,472–0,512	0,551–0,591	0,630–0,669	0,709–0,748	0,787–0,827	0,866	0,945	1,024	1,102–1,181
D _c [Inch]										
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm

Accessories		0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,945	1,024–1,181
D _c [Inch]						
	Torque T-handle					FS2042
	Tightening torque					4,5–14 Nm
	Torque screwdriver, analogue	FS2002	FS2004	FS2004	FS2004	
	Tightening torque	0,4–1,2 Nm	1,5–5,0 Nm	1,5–5,0 Nm	1,5–5,0 Nm	
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts		D _c mm	Seat size	P	M	K	N	S				
				HC	HC	HC	HC	HC				
				WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35	
	Designation											
	P6001-D..	12–30,5	A–K	☞	☞							
	P6003-D..	12–30,5	A–K		☞	☞						
	P6004-D..	12–30,5	A–K					☞				
	P6005-D..	12–30,5	A–K				☞					
	P6002-D..	14–19	B–D			☞						

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

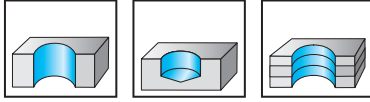
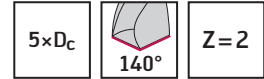
😐
Moderate

●● Primary application

● Other application

B1

Solid drills

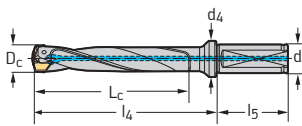
 D4140-05 inch


	P	M	K	N	S	H	O
D4140-05	●	●	●	●	●		

B1

Tool

Parallel shank with flat



Designation	D _c Inch	L _c Inch	l ₄ Inch	l ₅ Inch	d ₁ Inch	d ₄ Inch	lbs	No. of indexable inserts	Type
D4140.05-12.00F15-A	0,472	2,441	3,622	1,890	0,625	0,787	0,34	1	P600 .-D12, ..
D4140.05-13.00F15-A	0,512	2,638	3,858	1,890	0,625	0,787	0,36	1	P600 .-D13, ..
D4140.05-14.00F15-B	0,551	2,874	4,094	1,890	0,625	0,787	0,38	1	P600 .-D14, ..
D4140.05-15.00F15-B	0,591	3,071	4,330	1,890	0,625	0,787	0,41	1	P600 .-D15, ..
D4140.05-16.00F19-C	0,630	3,268	4,567	2,031	0,750	0,984	0,55	1	P600 .-D16, ..
D4140.05-17.00F19-C	0,669	3,465	4,803	2,031	0,750	0,984	0,60	1	P600 .-D17, ..
D4140.05-18.00F19-D	0,709	3,661	5,039	2,031	0,750	0,984	0,62	1	P600 .-D18, ..
D4140.05-19.00F19-D	0,748	3,858	5,275	2,031	0,750	0,984	0,67	1	P600 .-D19, ..
D4140.05-20.00F19-E	0,787	4,094	5,512	2,031	0,750	0,984	0,75	1	P600 .-D20, ..
D4140.05-21.00F19-E	0,827	4,291	5,748	2,031	0,750	0,984	0,80	1	P600 .-D21, ..
D4140.05-22.00F26-F	0,866	4,488	6,024	2,281	1,000	1,260	1,19	1	P600 .-D22, ..
D4140.05-23.00F26-F	0,906	4,685	6,260	2,281	1,000	1,260	1,26	1	P600 .-D23, ..
D4140.05-24.00F26-G	0,945	4,882	6,496	2,281	1,000	1,260	1,32	1	P600 .-D24, ..
D4140.05-25.00F26-G	0,984	5,118	6,732	2,281	1,000	1,260	1,46	1	P600 .-D25, ..
D4140.05-26.00F26-H	1,024	5,315	6,968	2,281	1,000	1,260	1,46	1	P600 .-D26, ..
D4140.05-27.00F26-H	1,063	5,512	7,204	2,281	1,000	1,260	1,54	1	P600 .-D27, ..
D4140.05-28.00F31-J	1,102	5,709	7,481	2,281	1,250	1,575	2,08	1	P600 .-D28, ..
D4140.05-29.00F31-J	1,142	5,906	7,717	2,281	1,250	1,575	2,18	1	P600 .-D29, ..
D4140.05-30.00F31-K	1,181	6,339	7,953	2,281	1,250	1,575	2,28	1	P600 .-D30, ..
D4140.05-31.00F31-K	1,220	6,339	8,189	2,281	1,250	1,575	2,39	1	P600 .-D31, ..
★ D4140.05-32.00F31-M	1,260	6,535	8,425	2,281	1,250	1,575	2,58	1	P600 .-D32, ..
★ D4140.05-33.00F31-M	1,299	6,732	8,661	2,281	1,250	1,575	2,69	1	P600 .-D33, ..
★ D4140.05-34.00F38-N	1,339	6,929	8,898	2,688	1,500	1,969	3,48	1	P600 .-D34, ..
★ D4140.05-35.00F38-N	1,378	7,126	9,134	2,688	1,500	1,969	3,68	1	P600 .-D35, ..
★ D4140.05-36.00F38-P	1,417	7,362	9,370	2,688	1,500	1,969	3,81	1	P600 .-D36, ..
★ D4140.05-37.00F38-P	1,457	7,559	9,606	2,688	1,500	1,969	4,01	1	P600 .-D37, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		0,472–0,512	0,551–0,591	0,630–0,669	0,709–0,748	0,787–0,827	0,866–0,906	0,945–0,984	1,024–1,063	1,102–1,299	1,339–1,457
D _c [Inch]											
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS2159 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories		0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,984	1,024–1,457
D _c [Inch]						
	Torque T-handle					FS2042
	Tightening torque					4,5–14 Nm
	Torque screwdriver, analogue	FS2002	FS2004	FS2004	FS2004	
	Tightening torque	0,4–1,2 Nm	1,5–5,0 Nm	1,5–5,0 Nm	1,5–5,0 Nm	
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts																		
Designation		D _c mm	Seat size	P HC	M HC	K HC	N HC	S HC										
				WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35							
	P6001-D..	12–37,99	A–P	☞	☞													
	P6003-D..	12–37,99	A–P			☞	☞											
	P6004-D..	12–31,5	A–K							☞								
	P6005-D..	12–37,99	A–P						☞									
	P6002-D..	14–19	B–D			☞												

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

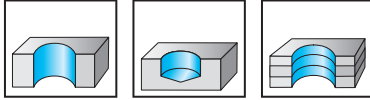
😊
Good

😐
Moderate

•• Primary application

• Other application

Solid drills

 D4140-07 mm


	P	M	K	N	S	H	O
D4140-07	●	●	●	●	●		

B1

Tool	Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of index- able inserts	Seat size	Type
Parallel shank with collar	★ D4140-07-12.00A16-A	12	86	116	48	16	20	0,24	1	A	P600 . -D12, ..
	★ D4140-07-13.00A16-A	13	93	124	48	16	20	0,25	1	A	P600 . -D13, ..
	★ D4140-07-14.00A16-B	14	101	132	48	16	20	0,27	1	B	P600 . -D14, ..
	★ D4140-07-15.00A16-B	15	108	140	48	16	20	0,29	1	B	P600 . -D15, ..
	★ D4140-07-16.00A20-C	16	115	148	50	20	25	0,34	1	C	P600 . -D16, ..
	★ D4140-07-17.00A20-C	17	122	156	50	20	25	0,34	1	C	P600 . -D17, ..
	★ D4140-07-18.00A20-D	18	133	164	50	20	25	0,38	1	D	P600 . -D18, ..
	★ D4140-07-19.00A20-D	19	136	172	50	20	25	0,40	1	D	P600 . -D19, ..
	★ D4140-07-20.00A20-E	20	144	180	50	20	25	0,44	1	E	P600 . -D20, ..
	★ D4140-07-21.00A20-E	21	151	188	50	20	25	0,48	1	E	P600 . -D21, ..
	★ D4140-07-22.00A25-F	22	158	197	56	25	32	0,65	1	F	P600 . -D22, ..
	★ D4140-07-23.00A25-F	23	165	205	56	25	32	0,66	1	F	P600 . -D23, ..
	★ D4140-07-24.00A25-G	24	172	213	56	25	32	0,76	1	G	P600 . -D24, ..
	★ D4140-07-25.00A25-G	25	180	221	56	25	32	0,79	1	G	P600 . -D25, ..
	★ D4140-07-26.00A25-H	26	187	229	56	25	32	0,85	1	H	P600 . -D26, ..
	★ D4140-07-27.00A25-H	27	194	237	56	25	32	0,89	1	H	P600 . -D27, ..
	★ D4140-07-28.00A32-J	28	201	246	60	32	40	1,20	1	J	P600 . -D28, ..
	★ D4140-07-29.00A32-J	29	208	254	60	32	40	0,28	1	J	P600 . -D29, ..
	★ D4140-07-30.00A32-K	30	215	262	60	32	40	1,36	1	K	P600 . -D30, ..
	★ D4140-07-31.00A32-K	31	223	270	60	32	40	1,43	1	K	P600 . -D31, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-31	32-37
Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS2159 (Torx 25IP)
Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories

D _c [mm]	12-13	14-17	18-19	20-25	26-37
Torque T-handle Tightening torque					FS2041 4,5-14 Nm
Torque screwdriver, analogue Tightening torque	FS2001 0,4-1,2 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	
Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35		
P6001-D..	12-31,99	A-K	☞	☞								
P6003-D..	12-31,99	A-K			☞	☞					☞	
P6004-D..	12-31,5	A-K								☞		
P6005-D..	12-31,99	A-K						☞				
P6002-D..	14-19	B-D					☞					

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

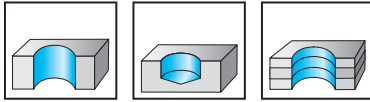
😐
Moderate

☛ Primary application

● Other application

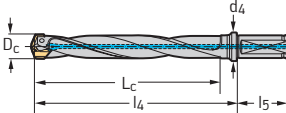
B1

Solid drills

 D4140-07 mm


	P	M	K	N	S	H	O
D4140-07	●	●	●	●	●		

B1

Tool	Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of index- able inserts	Seat size	Type
Parallel shank with flat 	D4140-07-12.00F16-A	12	86	116	48	16	20	0,16	1	A	P600 . -D12, ..
	D4140-07-13.00F16-A	13	93	124	48	16	20	0,17	1	A	P600 . -D13, ..
	D4140-07-14.00F16-B	14	101	132	48	16	20	0,19	1	B	P600 . -D14, ..
	D4140-07-15.00F16-B	15	108	140	48	16	20	0,20	1	B	P600 . -D15, ..
	D4140-07-16.00F20-C	16	115	148	50	20	25	0,30	1	C	P600 . -D16, ..
	D4140-07-17.00F20-C	17	122	156	50	20	25	0,32	1	C	P600 . -D17, ..
	D4140-07-18.00F20-D	18	126	164	50	20	25	0,34	1	D	P600 . -D18, ..
	D4140-07-19.00F20-D	19	136	172	50	20	25	0,37	1	D	P600 . -D19, ..
	D4140-07-20.00F20-E	20	144	180	50	20	25	0,39	1	E	P600 . -D20, ..
	D4140-07-21.00F20-E	21	151	188	50	20	25	0,43	1	E	P600 . -D21, ..
	D4140-07-22.00F25-F	22	158	197	56	25	32	0,6	1	F	P600 . -D22, ..
	D4140-07-23.00F25-F	23	165	205	56	25	32	0,63	1	F	P600 . -D23, ..
	D4140-07-24.00F25-G	24	172	213	56	25	32	0,68	1	G	P600 . -D24, ..
	D4140-07-25.00F25-G	25	180	221	56	25	32	0,71	1	G	P600 . -D25, ..
	D4140-07-26.00F25-H	26	187	229	56	25	32	0,80	1	H	P600 . -D26, ..
	D4140-07-27.00F25-H	27	194	237	56	25	32	0,82	1	H	P600 . -D27, ..
	D4140-07-28.00F32-J	28	201	246	60	32	40	1,11	1	J	P600 . -D28, ..
	D4140-07-29.00F32-J	29	208	254	60	32	40	1,14	1	J	P600 . -D29, ..
	D4140-07-30.00F32-K	30	215	262	60	32	40	1,24	1	K	P600 . -D30, ..
	D4140-07-31.00F32-K	31	223	270	60	32	40	1,30	1	K	P600 . -D31, ..
	★ D4140-07-32.00F40-M	32	230	278	70	40	50	1,80	1	M	P600 . -D32, ..
	★ D4140-07-33.00F40-M	33	237	286	70	40	50	1,91	1	M	P600 . -D33,0 ..
	★ D4140-07-34.00F40-N	34	244	294	70	40	50	2,1	1	N	P600 . -D34,0 ..
	★ D4140-07-35.00F40-N	35	251	302	70	40	50	2,2	1	N	P600 . -D35,0 ..
	★ D4140-07-36.00F40-P	36	259	310	70	40	50	2,33	1	P	P600 . -D36,0 ..
	★ D4140-07-37.00F40-P	37	266	318	70	40	50	2,47	1	P	P600 . -D37, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-31	32-37
Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS2159 (Torx 25IP)
Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories

D _c [mm]	12-13	14-17	18-19	20-25	26-37
Torque T-handle Tightening torque					FS2041 4,5-14 Nm
Torque screwdriver, analogue Tightening torque	FS2001 0,4-1,2 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm	
Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts

Designation	D _c mm	Seat size	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35		
P6001-D..	12-37,99	A-P	☞	☞								
P6003-D..	12-37,99	A-P			☞	☞					☞	
P6004-D..	12-31,5	A-K								☞		
P6005-D..	12-37,99	A-P						☞				
P6002-D..	14-19	B-D					☞					

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

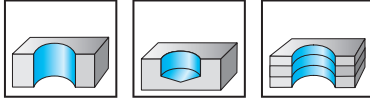
●● Primary application

● Other application

B1

Solid drills

D4140-07 inch

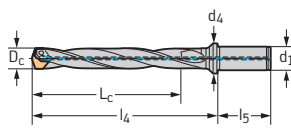


	P	M	K	N	S	H	O
D4140-07	●	●	●	●	●		

B1

Tool

Parallel shank with collar



Designation	D _c Inch	L _c Inch	l ₄ Inch	l ₅ Inch	d ₁ Inch	d ₄ Inch	lbs	No. of indexable inserts	Type
★ D4140.07-12.00A15-A	0,472	3,386	4,567	1,890	0,625	0,787	0,51	1	P600 . -D12, ..
★ D4140.07-13.00A15-A	0,512	3,661	4,882	1,890	0,625	0,787	0,51	1	P600 . -D13, ..
★ D4140.07-14.00A15-B	0,551	3,976	5,196	1,890	0,625	0,787	0,60	1	P600 . -D14, ..
★ D4140.07-15.00A15-B	0,591	4,252	5,511	1,890	0,625	0,787	0,62	1	P600 . -D15, ..
★ D4140.07-16.00A19-C	0,630	4,528	5,827	2,031	0,750	0,984	0,68	1	P600 . -D16, ..
★ D4140.07-17.00A19-C	0,669	4,803	6,142	2,031	0,750	0,984	0,77	1	P600 . -D17, ..
★ D4140.07-18.00A19-D	0,709	5,079	6,457	2,031	0,750	0,984	0,75	1	P600 . -D18, ..
★ D4140.07-19.00A19-D	0,748	5,354	6,771	2,031	0,750	0,984	0,82	1	P600 . -D19, ..
★ D4140.07-20.00A19-E	0,787	5,669	7,086	2,031	0,750	0,984	0,88	1	P600 . -D20, ..
★ D4140.07-21.00A19-E	0,827	5,945	7,401	2,031	0,750	0,984	0,95	1	P600 . -D21, ..
★ D4140.07-22.00A26-F	0,866	6,220	7,756	2,281	1,000	1,260	1,39	1	P600 . -D22, ..
★ D4140.07-24.00A26-G	0,945	6,772	8,386	2,281	1,000	1,260	1,59	1	P600 . -D24, ..
★ D4140.07-26.00A26-H	1,024	7,362	9,016	2,281	1,000	1,260	1,83	1	P600 . -D26, ..
★ D4140.07-28.00A31-J	1,102	7,913	9,685	2,281	1,250	1,575	2,49	1	P600 . -D28, ..
★ D4140.07-30.00A31-K	1,181	8,465	10,315	2,281	1,250	1,575	2,87	1	P600 . -D30, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		0,472–0,512	0,551–0,591	0,630–0,669	0,709–0,748	0,787–0,866	0,945	1,024	1,102–1,181
	D _c [Inch]	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm

Accessories		0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,945	1,024–1,181
	Torque T-handle Tightening torque					FS2042 4,5–14 Nm
	Torque screwdriver, analogue Tightening torque	FS2002 0,4–1,2 Nm	FS2004 1,5–5,0 Nm	FS2004 1,5–5,0 Nm	FS2004 1,5–5,0 Nm	
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts					P	M	K	N	S				
					HC	HC	HC	HC	HC	HC			
					WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35	
	Designation	D _c mm	Seat size										
	P6001-D..	12–30,5	A–K		☉	☉							
	P6003-D..	12–30,5	A–K			☉	☉						
	P6004-D..	12–30,5	A–K						☉				
	P6005-D..	12–30,5	A–K					☉					
	P6002-D..	14–19	B–D				☉						

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

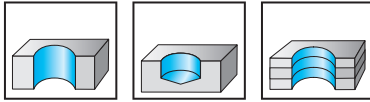
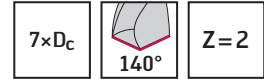
😐
Moderate

☉ Primary application

● Other application

Solid drills

D4140-07 inch

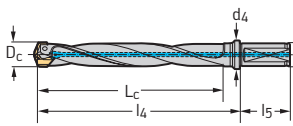


	P	M	K	N	S	H	O
D4140-07	●	●	●	●	●		

B1

Tool

Parallel shank with flat



Designation	D _c Inch	L _c Inch	l ₄ Inch	l ₅ Inch	d ₁ Inch	d ₄ Inch	lbs	No. of indexable inserts	Type
D4140.07-12.00F15-A	0,472	3,386	4,567	1,890	0,625	0,787	0,37	1	P600 .-D12, ..
D4140.07-13.00F15-A	0,512	3,661	4,882	1,890	0,625	0,787	0,39	1	P600 .-D13, ..
D4140.07-14.00F15-B	0,551	3,976	5,197	1,890	0,625	0,787	0,42	1	P600 .-D14, ..
D4140.07-15.00F15-B	0,591	4,252	5,511	1,890	0,625	0,787	0,45	1	P600 .-D15, ..
D4140.07-18.00F19-D	0,630	5,079	6,457	2,031	0,750	0,984	0,73	1	P600 .-D16, ..
D4140.07-19.00F19-D	0,669	5,354	6,772	2,031	0,750	0,984	0,79	1	P600 .-D17, ..
D4140.07-20.00F19-E	0,709	5,669	7,086	2,031	0,750	0,984	0,86	1	P600 .-D18, ..
D4140.07-21.00F19-E	0,748	5,945	7,401	2,031	0,750	0,984	0,93	1	P600 .-D19, ..
D4140.07-22.00F26-F	0,787	6,220	7,755	2,281	1,000	1,260	1,35	1	P600 .-D20, ..
D4140.07-23.00F26-F	0,827	6,496	8,071	2,281	1,000	1,260	1,43	1	P600 .-D21, ..
D4140.07-24.00F26-G	0,866	6,772	8,386	2,281	1,000	1,260	1,52	1	P600 .-D22, ..
D4140.07-25.00F26-G	0,906	7,087	8,699	2,281	1,000	1,260	1,61	1	P600 .-D23, ..
D4140.07-16.00F19-C	0,945	4,528	5,827	2,031	0,750	0,984	0,62	1	P600 .-D24, ..
D4140.07-17.00F19-C	0,984	4,803	6,142	2,031	0,750	0,984	0,70	1	P600 .-D25, ..
D4140.07-26.00F26-H	1,024	7,362	9,016	2,281	1,000	1,260	1,78	1	P600 .-D26, ..
D4140.07-27.00F26-H	1,063	7,638	9,330	2,281	1,000	1,260	1,80	1	P600 .-D27, ..
D4140.07-28.00F31-J	1,102	7,913	9,685	2,281	1,250	1,575	2,38	1	P600 .-D28, ..
D4140.07-29.00F31-J	1,142	8,189	10,000	2,281	1,250	1,575	2,43	1	P600 .-D29, ..
D4140.07-30.00F31-K	1,181	8,465	10,315	2,281	1,250	1,575	2,84	1	P600 .-D30, ..
D4140.07-31.00F31-K	1,220	8,780	10,630	2,281	1,250	1,575	2,81	1	P600 .-D31, ..
★ D4140.07-32.00F31-M	1,260	9,055	10,945	2,281	1,250	1,575	3,06	1	P600 .-D32, ..
★ D4140.07-33.00F31-M	1,299	9,331	11,259	2,281	1,250	1,575	3,26	1	P600 .-D33,0 ..
★ D4140.07-34.00F38-N	1,339	9,606	11,575	2,688	1,500	1,969	4,08	1	P600 .-D34,0 ..
★ D4140.07-35.00F38-N	1,378	9,882	11,890	2,688	1,500	1,969	4,34	1	P600 .-D35,0 ..
★ D4140.07-36.00F38-P	1,417	10,197	12,205	2,688	1,500	1,969	4,54	1	P600 .-D36,0 ..
★ D4140.07-37.00F38-P	1,457	10,433	12,520	2,688	1,500	1,969	4,81	1	P600 .-D37, ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		0,472–0,512	0,551–0,591	0,630–0,669	0,709–0,748	0,787–0,827	0,866–0,906	0,945–0,984	1,024–1,063	1,102–1,299	1,339–1,457
D _c [Inch]											
	Clamping screw for drill insert	FS1396 (Torx 7IP)	FS1397 (Torx 8IP)	FS1398 (Torx 8IP)	FS1399 (Torx 15IP)	FS1400 (Torx 20IP)	FS1401 (Torx 20IP)	FS1402 (Torx 20IP)	FS1403 (Torx 25IP)	FS1404 (Torx 25IP)	FS2159 (Torx 25IP)
	Tightening torque	1,2 Nm	2,0 Nm	2,0 Nm	4,0 Nm	5,0 Nm	5,0 Nm	5,0 Nm	5,5 Nm	5,5 Nm	5,5 Nm

Accessories		0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,984	1,024–1,457
D _c [Inch]						
	Torque T-handle					FS2042
	Tightening torque					4,5–14 Nm
	Torque screwdriver, analogue	FS2002	FS2004	FS2004	FS2004	
	Tightening torque	0,4–1,2 Nm	1,5–5,0 Nm	1,5–5,0 Nm	1,5–5,0 Nm	
	Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2049 (Torx 25IP)
	Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1487 (Torx 25IP)

Drill inserts																		
Designation		D _c mm	Seat size	P	M	K	N	S										
				HC	HC	HC	HC	HC										
				WXP45	WPP45C	WMP35	WMP35	WXK25	WKK45C	WNN25	WMP35							
	P6001-D..	12–37,99	A–P	☞	☞													
	P6003-D..	12–37,99	A–P			☞	☞											
	P6004-D..	12–31,5	A–K							☞								
	P6005-D..	12–37,99	A–P						☞									
	P6002-D..	14–19	B–D			☞												

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

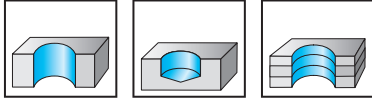
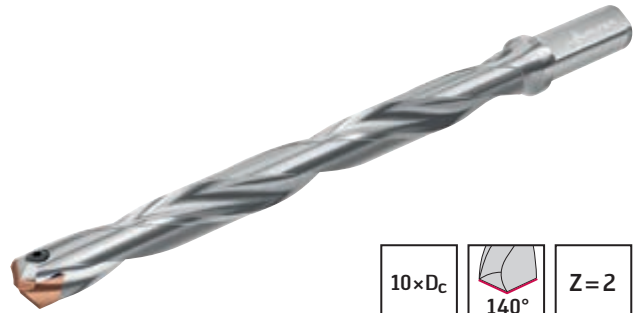
😊
Good

😐
Moderate

•• Primary application

• Other application

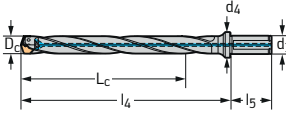
Solid drills

 D4140-10 mm


	P	M	K	N	S	H	O
D4140-10	●	●	●	●	●		

B1

Tool	Designation	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of index- able inserts	Seat size	Type
Parallel shank with flat	D4140-10-18.00F20-D	18	183	218	50	20	25	0,40	1	D	P600 . -D18, ..
	D4140-10-20.00F20-E	20	204	240	50	20	25	0,48	1	E	P600 . -D20, ..
	D4140-10-22.00F25-F	22	224	263	56	25	32	0,71	1	F	P600 . -D22, ..
	D4140-10-24.00F25-G	24	244	285	56	25	32	0,83	1	G	P600 . -D24, ..






Bodies and assembly parts are included in the scope of delivery.


Assembly parts

D _c [mm]	18	20	22	24
 Clamping screw for drill insert Tightening torque	FS1399 (Torx 15IP) 4,0 Nm	FS1400 (Torx 20IP) 5,0 Nm	FS1401 (Torx 20IP) 5,0 Nm	FS1402 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]	18	20–24
 Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm	FS2004 1,5–5,0 Nm
 Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
 Screwdriver	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Drill inserts

Designation	D _c mm	Seat size	P		M	K	N	S					
			HC	HC	HC	HC	HC	HC					
			WXP45	WPP45C	WMP35	WMP35	WKK45C	WNN25	WMP35				
 P6001-D..	18–24,7	D-G	☑	☑									
P6003-D..	18–24,7	D-G			☑	☑		☑					
P6004-D..	18–24,5	D-G						☑					
P6005-D..	18–24,7	D-G				☑							

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

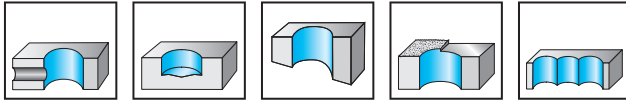
☹
Moderate

●●
Primary application

●
Other application

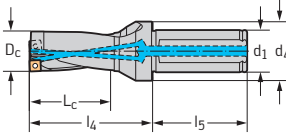
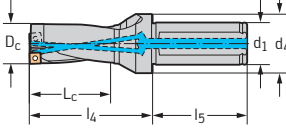
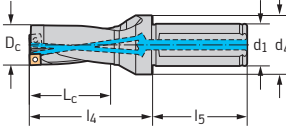
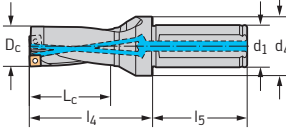
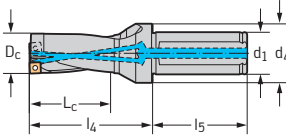
Solid drills

 D4120-02 mm

2×D_C
Z=1


D4120-02	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

B1

Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	★ D4120-02-14.00F20-P41	14	28	48	50	20	25	0,24	1 1	P484 . P-1R- ... P484 . C-1R- ...
	★ D4120-02-15.00F20-P41	15	30	50	50	20	25	0,24	1 1	
	★ D4120-02-16.00F25-P41	16	32	57	56	25	35	0,47	1 1	
Parallel shank with flat 	★ D4120-02-17.00F25-P42	17	34	59	56	25	35	0,43	1 1	P484 . P-2R- ... P484 . C-2R- ...
	★ D4120-02-18.00F25-P42	18	36	61	56	25	35	0,43	1 1	
	★ D4120-02-19.00F25-P42	19	38	63	56	25	35	0,42	1 1	
	★ D4120-02-20.00F25-P42	20	40	65	56	25	35	0,44	1 1	
Parallel shank with flat 	★ D4120-02-21.00F25-P43	21	42	67	56	25	35	0,45	1 1	P484 . P-3R- ... P484 . C-3R- ...
	★ D4120-02-22.00F25-P43	22	44	69	56	25	35	0,47	1 1	
	★ D4120-02-23.00F25-P43	23	46	71	56	25	35	0,48	1 1	
	★ D4120-02-24.00F25-P43	24	48	73	56	25	35	0,48	1 1	
Parallel shank with flat 	★ D4120-02-25.00F25-P44	25	50	75	56	25	35	0,51	1 1	P484 . P-4R- ... P484 . C-4R- ...
	★ D4120-02-26.00F32-P44	26	52	84	60	32	42	0,72	1 1	
	★ D4120-02-27.00F32-P44	27	54	86	60	32	42	0,78	1 1	
	★ D4120-02-28.00F32-P44	28	56	88	60	32	42	0,81	1 1	
	★ D4120-02-29.00F32-P44	29	58	90	60	32	42	0,81	1 1	
Parallel shank with flat 	★ D4120-02-30.00F32-P45	30	60	92	60	32	42	0,84	1 1	P484 . P-5R- ... P484 . C-5R- ...
	★ D4120-02-31.00F32-P45	31	62	94	60	32	42	0,87	1 1	
	★ D4120-02-32.00F32-P45	32	64	96	60	32	42	0,88	1 1	
	★ D4120-02-33.00F32-P45	33	66	98	60	32	42	0,91	1 1	
	★ D4120-02-34.00F32-P45	34	68	100	60	32	42	0,94	1 1	
	★ D4120-02-35.00F32-P45	35	70	102	60	32	42	0,97	1 1	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	14–16	17–20	21–24	25–29	30–35	36–42
Clamping screw for insert Tightening torque	FS2120 (Torx 6IP) 0,4 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS1454 (Torx 8IP) 1,2 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS2080 (Torx 15IP) 2,5 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]	14–16	17–20	21–24	25–29	30–42
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque			FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)
Screwdriver	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	Size	P					M			K			N		S			
		HC					HC			HC			HC		HC			
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WXP40	WSP45	WSP45S	WXP40
	P4840P-R-A57	1-5	☞	☞	☞	☞	☞			☞	☞							
	P4840P-R-E57	1-5	☞	☞	☞	☞	☞			☞	☞							
	P4840P-R-E67	1-5	☞	☞	☞	☞	☞			☞	☞			☞				
	P4841P-R-A57	1-5	☞	☞	☞	☞	☞			☞	☞							
	P4841P-R-E57	1-5	☞	☞	☞	☞	☞			☞	☞							
	P4840C-R-E67	1-5		☞		☞		☞		☞	☞		☞					☞
	P4841C-R-A57	1-5		☞		☞		☞		☞	☞							☞
	P4841C-R-E57	1-5		☞		☞		☞		☞	☞							☞

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

😐
Moderate

•• Primary application

• Other application

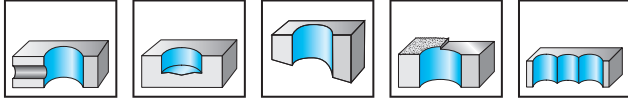
B1

Solid drills

D4120-02 mm



2×D_C **Z=1**



	P	M	K	N	S	H	O
D4120-02	●	●	●	●	●		

B1

Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	★ D4120-02-36.00F32-P46	36	72	104	60	32	42	0,96	1 1	P484 . P-6R- ... P484 . C-6R- ...
	★ D4120-02-37.00F40-P46	37	74	114	70	40	50	1,48	1 1	
	★ D4120-02-38.00F40-P46	38	76	116	70	40	50	1,52	1 1	
	★ D4120-02-39.00F40-P46	39	78	118	70	40	50	1,55	1 1	
	★ D4120-02-40.00F40-P46	40	80	120	70	40	50	1,45	1 1	
	★ D4120-02-41.00F40-P46	41	82	122	70	40	50	1,68	1 1	
	★ D4120-02-42.00F40-P46	42	84	124	70	40	50	1,73	1 1	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	14–16	17–20	21–24	25–29	30–35	36–42
Clamping screw for insert Tightening torque	FS2120 (Torx 6IP) 0,4 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS1454 (Torx 8IP) 1,2 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS2080 (Torx 15IP) 2,5 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]	14–16	17–20	21–24	25–29	30–42
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque			FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)
Screwdriver	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	Size	P					M			K			N		S			
		HC					HC			HC			HC		HC			
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WXP40	WSP45	WSP45S	WXP40
	P4840P-R-A57	6-6	☒	☒	☒	☒	☒			☒	☒							
	P4840P-R-E57	6-6	☒	☒	☒	☒	☒			☒	☒							
	P4840P-R-E67	6-6	☒	☒	☒	☒	☒			☒	☒		☒					
	P4841P-R-A57	6-6	☒	☒	☒	☒	☒			☒	☒							
	P4841P-R-E57	6-6	☒	☒	☒	☒	☒			☒	☒							
	P4840C-R-E67	6-6		☒		☒		☒		☒	☒		☒					☒
	P4841C-R-A57	6-6		☒		☒		☒		☒	☒							☒
	P4841C-R-E57	6-6		☒		☒		☒		☒	☒							☒

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

😐
Moderate

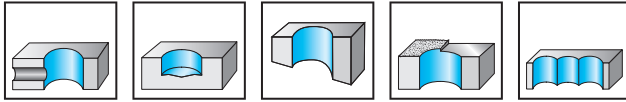
•• Primary application

• Other application

B1

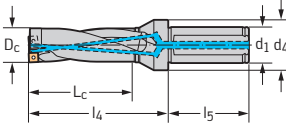
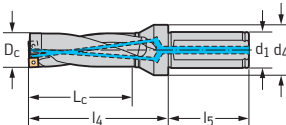
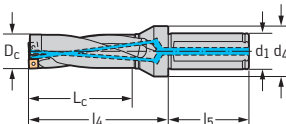
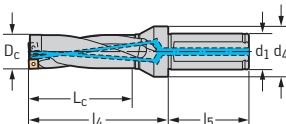
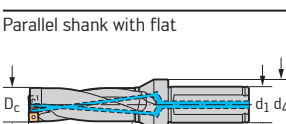
Solid drills

 D4120-03 mm

3×D_C
Z=1


	P	M	K	N	S	H	O
D4120-03	●	●	●	●	●	●	●

B1

Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	★ D4120-03-14.00F20-P41	14	42	62	50	20	25	0,17	1 1	P484 . P-1R- ... P484 . C-1R- ...
	★ D4120-03-15.00F20-P41	15	45	65	50	20	25	0,25	1 1	
	★ D4120-03-16.00F25-P41	16	48	73	56	25	35	0,40	1 1	
Parallel shank with flat 	★ D4120-03-17.00F25-P42	17	51	76	56	25	35	0,35	1 1	P484 . P-2R- ... P484 . C-2R- ...
	★ D4120-03-18.00F25-P42	18	54	79	56	25	35	0,44	1 1	
	★ D4120-03-19.00F25-P42	19	57	82	56	25	35	0,46	1 1	
	★ D4120-03-20.00F25-P42	20	60	85	56	25	35	0,47	1 1	
Parallel shank with flat 	★ D4120-03-21.00F25-P43	21	63	88	56	25	35	0,39	1 1	P484 . P-3R- ... P484 . C-3R- ...
	★ D4120-03-22.00F25-P43	22	66	91	56	25	35	0,50	1 1	
	★ D4120-03-23.00F25-P43	23	69	94	56	25	35	0,52	1 1	
	★ D4120-03-24.00F25-P43	24	72	97	56	25	35	0,53	1 1	
Parallel shank with flat 	★ D4120-03-25.00F25-P44	25	75	100	56	25	35	0,43	1 1	P484 . P-4R- ... P484 . C-4R- ...
	★ D4120-03-26.00F32-P44	26	78	110	60	32	42	0,84	1 1	
	★ D4120-03-27.00F32-P44	27	81	113	60	32	42	0,87	1 1	
	★ D4120-03-28.00F32-P44	28	84	116	60	32	42	0,90	1 1	
	★ D4120-03-29.00F32-P44	29	87	119	60	32	42	0,92	1 1	
Parallel shank with flat 	★ D4120-03-30.00F32-P45	30	90	122	60	32	42	0,82	1 1	P484 . P-5R- ... P484 . C-5R- ...
	★ D4120-03-31.00F32-P45	31	93	125	60	32	42	0,95	1 1	
	★ D4120-03-32.00F32-P45	32	96	128	60	32	42	1	1 1	
	★ D4120-03-33.00F32-P45	33	99	131	60	32	42	1,03	1 1	
	★ D4120-03-34.00F32-P45	34	102	134	60	32	42	1,07	1 1	
	★ D4120-03-35.00F32-P45	35	105	137	60	32	42	1,12	1 1	

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

D _c [mm]	14–16	17–20	21–24	25–29	30–35	36–42
Clamping screw for insert Tightening torque	FS2120 (Torx 6IP) 0,4 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS1454 (Torx 8IP) 1,2 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS2080 (Torx 15IP) 2,5 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]	14–16	17–20	21–24	25–29	30–42
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque			FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)
Screwdriver	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	Size	P					M			K			N		S				
		HC					HC			HC			HC		HC				
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WXP40	WSP45	WSP45S	WXP40	
	P4840P-R-A57	☞	☞	☞	☞	☞				☞	☞								
	P4840P-R-E57	☞	☞	☞	☞	☞				☞	☞								
	P4840P-R-E67	☞	☞	☞	☞	☞				☞	☞			☞					
	P4841P-R-A57	☞	☞	☞	☞	☞				☞	☞								
	P4841P-R-E57	☞	☞	☞	☞	☞				☞	☞								
	P4840C-R-E67		☞			☞		☞		☞	☞		☞					☞	
	P4841C-R-A57		☞			☞		☞		☞	☞							☞	
	P4841C-R-E57		☞			☞		☞		☞	☞							☞	

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

😐
Moderate

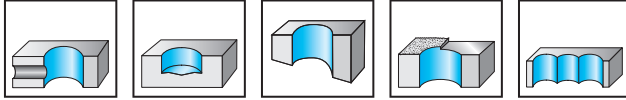
•• Primary application

• Other application

B1

Solid drills

 D4120-03 mm

3×D_C
Z=1


	P	M	K	N	S	H	O
D4120-03	●	●	●	●	●	●	●

B1

Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	★ D4120-03-36.00F32-P46	36	108	140	60	32	42	1,02	1 1	P484 . P-6R- ... P484 . C-6R- ...
	★ D4120-03-37.00F40-P46	37	111	151	70	40	50	1,68	1 1	
	★ D4120-03-38.00F40-P46	38	114	154	70	40	50	1,75	1 1	
	★ D4120-03-39.00F40-P46	39	117	157	70	40	50	1,80	1 1	
	★ D4120-03-40.00F40-P46	40	120	160	70	40	50	1,86	1 1	
	★ D4120-03-41.00F40-P46	41	123	163	70	40	50	1,92	1 1	
	★ D4120-03-42.00F40-P46	42	126	166	70	40	50	1,95	1 1	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	14–16	17–20	21–24	25–29	30–35	36–42
Clamping screw for insert Tightening torque	FS2120 (Torx 6IP) 0,4 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS1454 (Torx 8IP) 1,2 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS2080 (Torx 15IP) 2,5 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]	14–16	17–20	21–24	25–29	30–42
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque			FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)
Screwdriver	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	Size	P					M			K			N		S			
		HC					HC			HC			HC		HC			
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WXP40	WSP45	WSP45S	WXP40
	P4840P-R-A57	6-6	☒	☒	☒	☒	☒			☒	☒							
	P4840P-R-E57	6-6	☒	☒	☒	☒	☒			☒	☒							
	P4840P-R-E67	6-6	☒	☒	☒	☒	☒			☒	☒		☒					
	P4841P-R-A57	6-6	☒	☒	☒	☒	☒			☒	☒							
	P4841P-R-E57	6-6	☒	☒	☒	☒	☒			☒	☒							
	P4840C-R-E67	6-6		☒		☒		☒		☒	☒		☒					☒
	P4841C-R-A57	6-6		☒		☒		☒		☒	☒							☒
	P4841C-R-E57	6-6		☒		☒		☒		☒	☒							☒

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

😐
Moderate

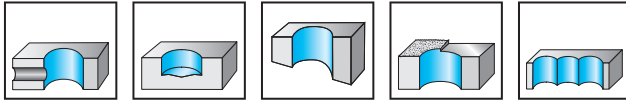
•• Primary application

• Other application

B1

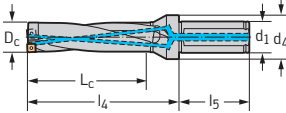
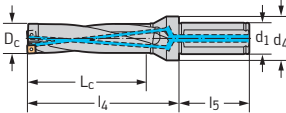
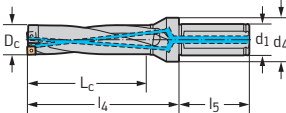
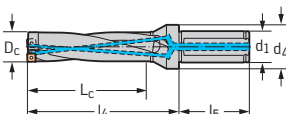
Solid drills

 D4120-04 mm

4×D_C
Z=1


D4120-04	P	M	K	N	S	H	O
	●	●	●	●	●		

B1

Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	★ D4120-04-17.00F25-P42	17	68	93	56	25	35	0,46	1 1	P484 . P-2R- ... P484 . C-2R- ...
	★ D4120-04-18.00F25-P42	18	72	97	56	25	35	0,49	1 1	
	★ D4120-04-19.00F25-P42	19	76	101	56	25	35	0,48	1 1	
	★ D4120-04-20.00F25-P42	20	80	105	56	25	35	0,50	1 1	
Parallel shank with flat 	★ D4120-04-21.00F25-P43	21	84	109	56	25	35	0,51	1 1	P484 . P-3R- ... P484 . C-3R- ...
	★ D4120-04-22.00F25-P43	22	88	113	56	25	35	0,53	1 1	
	★ D4120-04-23.00F25-P43	23	92	117	56	25	35	0,55	1 1	
	★ D4120-04-24.00F25-P43	24	96	121	56	25	35	0,59	1 1	
Parallel shank with flat 	★ D4120-04-25.00F25-P44	25	100	125	56	25	35	0,62	1 1	P484 . P-4R- ... P484 . C-4R- ...
	★ D4120-04-26.00F32-P44	26	104	136	60	32	42	0,89	1 1	
	★ D4120-04-27.00F32-P44	27	108	140	60	32	42	0,93	1 1	
	★ D4120-04-28.00F32-P44	28	112	144	60	32	42	0,97	1 1	
	★ D4120-04-29.00F32-P44	29	116	148	60	32	42	1,01	1 1	
Parallel shank with flat 	★ D4120-04-30.00F32-P45	30	120	152	60	32	42	1,02	1 1	P484 . P-5R- ... P484 . C-5R- ...
	★ D4120-04-31.00F32-P45	31	124	156	60	32	42	1,07	1 1	
	★ D4120-04-32.00F32-P45	32	128	160	60	32	42	1,10	1 1	
	★ D4120-04-33.00F32-P45	33	132	164	60	32	42	1,17	1 1	
	★ D4120-04-34.00F32-P45	34	136	168	60	32	42	1,18	1 1	
	★ D4120-04-35.00F32-P45	35	140	172	60	32	42	1,28	1 1	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	17-20	21-24	25-29	30-35	36-42
Clamping screw for insert Tightening torque	FS2111 (Torx 7IP) 0,9 Nm	FS1454 (Torx 8IP) 1,2 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS2080 (Torx 15IP) 2,5 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]	17-20	21-24	25-29	30-42
Torque screwdriver, analogue Tightening torque	FS2001 0,4-1,2 Nm	FS2001 0,4-1,2 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm
Torque screwdriver, digital Tightening torque		FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm
Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)
Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	Size	P					M			K			N		S	
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WSP45S	WXP40
	P4840P-.R-A57	☹	☹	☹			☹			☹	☹					
	P4840P-.R-E57	☹	☹	☹			☹			☹	☹					
	P4840P-.R-E67	☹	☹	☹			☹			☹	☹		☹			
	P4841P-.R-A57	☹	☹	☹			☹			☹	☹					
	P4841P-.R-E57	☹	☹	☹			☹			☹	☹					
	P4840C-.R-E67		☹			☹		☹		☹	☹		☹			☹
	P4841C-.R-A57		☹			☹		☹		☹	☹					☹
	P4841C-.R-E57		☹			☹		☹		☹	☹					☹

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹
Very good

☹☹
Good

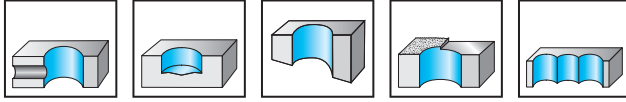
☹☹☹
Moderate

●●
Primary application

●
Other application

Solid drills

 D4120-04 mm

4×D_C
Z=1


	P	M	K	N	S	H	O
D4120-04	●	●	●	●	●		

B1

Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	★ D4120-04-36.00F32-P46	36	144	176	60	32	42	1,26	1 1	P484 . P-6R- ... P484 . C-6R- ...
	★ D4120-04-37.00F40-P46	37	148	188	70	40	50	1,86	1 1	
	★ D4120-04-38.00F40-P46	38	152	192	70	40	50	1,93	1 1	
	★ D4120-04-39.00F40-P46	39	156	196	70	40	50	2,05	1 1	
	★ D4120-04-40.00F40-P46	40	160	200	70	40	50	2,07	1 1	
	★ D4120-04-41.00F40-P46	41	164	204	70	40	50	2,21	1 1	
	★ D4120-04-42.00F40-P46	42	168	208	70	40	50	2,23	1 1	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	17-20	21-24	25-29	30-35	36-42
Clamping screw for insert Tightening torque	FS2111 (Torx 7IP) 0,9 Nm	FS1454 (Torx 8IP) 1,2 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS2080 (Torx 15IP) 2,5 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]	17-20	21-24	25-29	30-42
Torque screwdriver, analogue Tightening torque	FS2001 0,4-1,2 Nm	FS2001 0,4-1,2 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm
Torque screwdriver, digital Tightening torque		FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm
Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)
Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	Size	P					M			K			N		S	
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WSP45S	WXP40
P4840P-.R-A57	6-6	☺	☺	☺			☺			☺	☺					
P4840P-.R-E57	6-6	☺	☺	☺			☺			☺	☺					
P4840P-.R-E67	6-6	☺	☺	☺			☺			☺	☺		☺			
P4841P-.R-A57	6-6	☺	☺	☺			☺			☺	☺					
P4841P-.R-E57	6-6	☺	☺	☺			☺			☺	☺					
P4840C-.R-E67	6-6		☺				☺			☺	☺		☺			☺
P4841C-.R-A57	6-6		☺				☺			☺	☺					☺
P4841C-.R-E57	6-6		☺				☺			☺	☺					☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

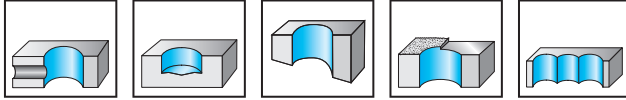
☺
Moderate

●● Primary application

● Other application

Solid drills

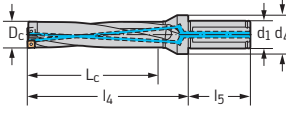
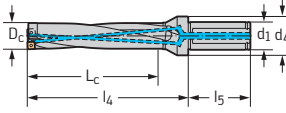
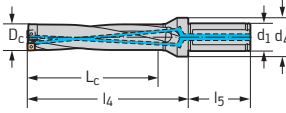
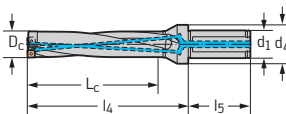
 D4120-05 mm

5×D_C
Z=1


P	M	K	N	S	H	O
●	●	●	●	●	●	●

D4120-05

B1

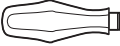



Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	★ D4120-05-17.00F25-P42	17	85	110	56	25	35	0,39	1 1	P484 . P-2R- ... P484 . C-2R- ...
	★ D4120-05-18.00F25-P42	18	90	115	56	25	35	0,47	1 1	
	★ D4120-05-19.00F25-P42	19	95	120	56	25	35	0,50	1 1	
	★ D4120-05-20.00F25-P42	20	100	125	56	25	35	0,52	1 1	
Parallel shank with flat 	★ D4120-05-21.00F25-P43	21	105	130	56	25	35	0,45	1 1	P484 . P-3R- ... P484 . C-3R- ...
	★ D4120-05-22.00F25-P43	22	110	135	56	25	35	0,58	1 1	
	★ D4120-05-23.00F25-P43	23	115	140	56	25	35	0,62	1 1	
	★ D4120-05-24.00F25-P43	24	120	145	56	25	35	0,63	1 1	
Parallel shank with flat 	★ D4120-05-25.00F25-P44	25	125	150	56	25	35	0,54	1 1	P484 . P-4R- ... P484 . C-4R- ...
	★ D4120-05-26.00F32-P44	26	130	162	60	32	42	0,97	1 1	
	★ D4120-05-27.00F32-P44	27	135	167	60	32	42	1,02	1 1	
	★ D4120-05-28.00F32-P44	28	140	172	60	32	42	1,06	1 1	
	★ D4120-05-29.00F32-P44	29	145	177	60	32	42	1,10	1 1	
Parallel shank with flat 	★ D4120-05-30.00F32-P45	30	150	182	60	32	42	1,01	1 1	P484 . P-5R- ... P484 . C-5R- ...
	★ D4120-05-31.00F32-P45	31	155	187	60	32	42	1,18	1 1	
	★ D4120-05-32.00F32-P45	32	160	192	60	32	42	1,23	1 1	
	★ D4120-05-33.00F32-P45	33	165	197	60	32	42	1,30	1 1	
	★ D4120-05-34.00F32-P45	34	170	202	60	32	42	1,37	1 1	
	★ D4120-05-35.00F32-P45	35	175	207	60	32	42	1,45	1 1	

Bodies and assembly parts are included in the scope of delivery.



Assembly parts

D _c [mm]	17-20	21-24	25-29	30-35	36-42
 Clamping screw for insert Tightening torque	FS2111 (Torx 7IP) 0,9 Nm	FS1454 (Torx 8IP) 1,2 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS2080 (Torx 15IP) 2,5 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]	17-20	21-24	25-29	30-42
 Torque screwdriver, analogue Tightening torque	FS2001 0,4-1,2 Nm	FS2001 0,4-1,2 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm
 Torque screwdriver, digital Tightening torque		FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm
 Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)
 Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	Size	P					M			K			N		S			
		HC					HC			HC			HC		HC			
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WXP40	WSP45	WSP45S	WXP40
	P4840P-.R-A57	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
	P4840P-.R-E57	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
	P4840P-.R-E67	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
	P4841P-.R-A57	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
	P4841P-.R-E57	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
	P4840C-.R-E67	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
	P4841C-.R-A57	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
	P4841C-.R-E57	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹
Very good

☹☹
Good

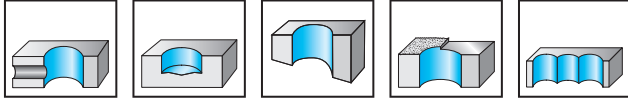
☹☹☹
Moderate

●●
Primary application

●
Other application

Solid drills

 D4120-05 mm

5×D_C
Z=1


	P	M	K	N	S	H	O
D4120-05	●●		●●	●			

B1

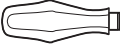



Tool	Designation	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	★ D4120-05-36.00F32-P46	36	180	212	60	32	42	1,32	1 1	P484 . P-6R- ... P484 . C-6R- ...
	★ D4120-05-37.00F40-P46	37	185	225	70	40	50	1,45	1 1	
	★ D4120-05-38.00F40-P46	38	190	230	70	40	50	2,02	1 1	
	★ D4120-05-39.00F40-P46	39	195	235	70	40	50	2,09	1 1	
	★ D4120-05-40.00F40-P46	40	200	240	70	40	50	2,17	1 1	
	★ D4120-05-41.00F40-P46	41	205	245	70	40	50	2,26	1 1	
	★ D4120-05-42.00F40-P46	42	210	250	70	40	50	2,37	1 1	

Bodies and assembly parts are included in the scope of delivery.



Assembly parts

D _c [mm]	17-20	21-24	25-29	30-35	36-42
 Clamping screw for insert Tightening torque	FS2111 (Torx 7IP) 0,9 Nm	FS1454 (Torx 8IP) 1,2 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS2080 (Torx 15IP) 2,5 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]	17-20	21-24	25-29	30-42
 Torque screwdriver, analogue Tightening torque	FS2001 0,4-1,2 Nm	FS2001 0,4-1,2 Nm	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm
 Torque screwdriver, digital Tightening torque		FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm
 Interchangeable blade	FS2011 (Torx 7IP)	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)
 Screwdriver	FS2088 (Torx 7IP)	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	Size	P					M			K			N		S			
		HC					HC			HC			HC		HC			
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WSP45	WXP40	WSP45	WSP45S	WXP40
	P4840P-.R-A57	☹	☹	☹			☹			☹	☹	☹						
	P4840P-.R-E57	☹	☹	☹			☹			☹	☹	☹						
	P4840P-.R-E67	☹	☹	☹			☹			☹	☹	☹		☹				
	P4841P-.R-A57	☹	☹	☹			☹			☹	☹	☹		☹				
	P4841P-.R-E57	☹	☹	☹			☹			☹	☹	☹		☹				
	P4840C-.R-E67		☹			☹		☹		☹	☹	☹		☹				☹
	P4841C-.R-A57		☹			☹		☹		☹	☹	☹		☹				☹
	P4841C-.R-E57		☹			☹		☹		☹	☹	☹		☹				☹

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹
Very good

☹☹
Good

☹☹☹
Moderate

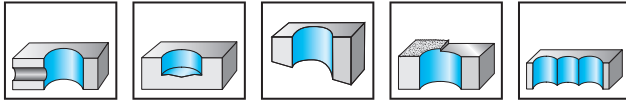
●●
Primary application

●
Other application

Solid drills

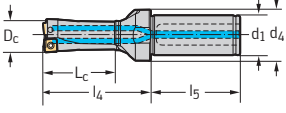
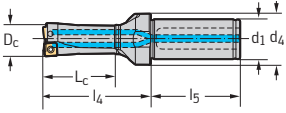
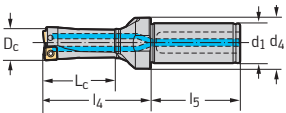
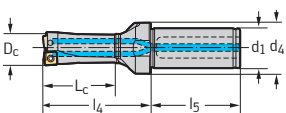
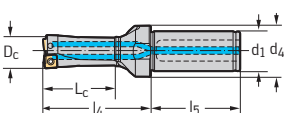
 D3120-02 mm


D_c 16-42	$2 \times D_c$	$Z=1$
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	P	M	K	N	S	H	O
D3120-02	●	●	●	●	●		

B1

Tool	Designation	D_c mm	L_c mm	l_4 mm	l_5 mm	d_1 mm	d_4 mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	D3120-02-16.00F25-P21	16	32	57	56	25	32	0,30	2	P284 . S-1N- ..
	D3120-02-17.00F25-P21	17	34	59	56	25	32	0,31	2	
	D3120-02-18.00F25-P21	18	36	61	56	25	32	0,31	2	
	D3120-02-19.00F25-P21	19	38	63	56	25	32	0,32	2	
	D3120-02-20.00F25-P21	20	40	65	56	25	32	0,34	2	
Parallel shank with flat 	D3120-02-21.00F25-P22	21	42	67	56	25	32	0,36	2	P284 . S-2N- ..
	D3120-02-22.00F25-P22	22	44	69	56	25	32	0,35	2	
	D3120-02-23.00F25-P22	23	46	71	56	25	32	0,36	2	
	D3120-02-24.00F25-P22	24	48	73	56	25	32	0,37	2	
	D3120-02-25.00F25-P22	25	50	75	56	25	32	0,39	2	
Parallel shank with flat 	D3120-02-26.00F32-P23	26	52	84	60	32	40	0,62	2	P284 . S-3N- ..
	D3120-02-27.00F32-P23	27	54	86	60	32	40	0,68	2	
	D3120-02-28.00F32-P23	28	56	88	60	32	40	0,66	2	
	D3120-02-29.00F32-P23	29	58	90	60	32	40	0,69	2	
	D3120-02-30.00F32-P23	30	60	92	60	32	40	0,71	2	
Parallel shank with flat 	D3120-02-31.00F32-P24	31	62	94	60	32	40	0,69	2	P284 . S-4N- ..
	D3120-02-32.00F32-P24	32	64	96	60	32	40	0,72	2	
	D3120-02-33.00F32-P24	33	66	98	60	32	40	0,75	2	
	D3120-02-34.00F32-P24	34	68	100	60	32	40	0,78	2	
	D3120-02-35.00F32-P24	35	70	102	60	32	40	0,81	2	
	D3120-02-36.00F32-P24	36	72	104	60	32	40	0,85	2	
Parallel shank with flat 	D3120-02-37.00F40-P25	37	74	114	70	40	50	1,28	2	P284 . S-5N- ..
	D3120-02-38.00F40-P25	38	76	116	70	40	50	1,32	2	
	D3120-02-39.00F40-P25	39	78	118	70	40	50	1,36	2	
	D3120-02-40.00F40-P25	40	80	120	70	40	50	1,39	2	
	D3120-02-41.00F40-P25	41	82	122	70	40	50	1,44	2	
	D3120-02-42.00F40-P25	42	84	124	70	40	50	1,48	2	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	16–20	21–25	26–30	31–36	37–42
Clamping screw for insert Tightening torque	FS1454 (Torx 8IP) 1,2 Nm	FS1456 (Torx 9IP) 2,0 Nm	FS2181 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2139 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]	16–20	21–25	26–36	37–42
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
Screwdriver	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	Size	P					M			K			N		S		
		HC					HC			HC			HC		HC		
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WK40	WK40	WSP45	WSP45S
P2840S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2840S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●● Primary application

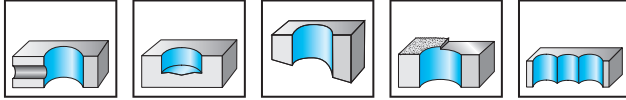
● Other application

B1

Solid drills

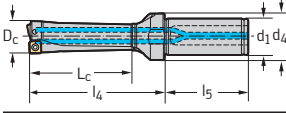
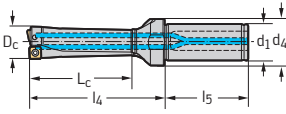
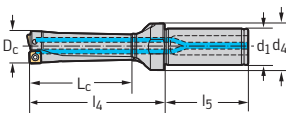
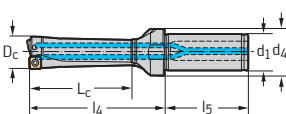
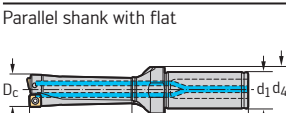
 D3120-03 mm


D_c 16-42	$3 \times D_c$	$Z=1$
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
D3120-03	P	M	K	N	S	H	O
	●	●	●	●	●		

B1

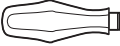



Tool	Designation	D_c mm	L_c mm	l_4 mm	l_5 mm	d_1 mm	d_4 mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	D3120-03-16.00F25-P21	16	48	73	56	25	32	0,31	2	P284 . S-1N- ..
	D3120-03-17.00F25-P21	17	51	76	56	25	32	0,32	2	
	D3120-03-18.00F25-P21	18	54	79	56	25	32	0,33	2	
	D3120-03-19.00F25-P21	19	57	82	56	25	32	0,34	2	
	D3120-03-20.00F25-P21	20	60	85	56	25	32	0,40	2	
Parallel shank with flat 	D3120-03-21.00F25-P22	21	63	88	56	25	32	0,36	2	P284 . S-2N- ..
	D3120-03-22.00F25-P22	22	66	91	56	25	32	0,42	2	
	D3120-03-23.00F25-P22	23	69	94	56	25	32	0,37	2	
	D3120-03-24.00F25-P22	24	72	97	56	25	32	0,42	2	
	D3120-03-25.00F25-P22	25	75	100	56	25	32	0,44	2	
Parallel shank with flat 	D3120-03-26.00F32-P23	26	78	110	60	32	40	0,67	2	P284 . S-3N- ..
	D3120-03-27.00F32-P23	27	81	113	60	32	40	0,74	2	
	D3120-03-28.00F32-P23	28	84	116	60	32	40	0,73	2	
	D3120-03-29.00F32-P23	29	87	119	60	32	40	0,76	2	
	D3120-03-30.00F32-P23	30	90	122	60	32	40	0,84	2	
Parallel shank with flat 	D3120-03-31.00F32-P24	31	93	125	60	32	40	0,78	2	P284 . S-4N- ..
	D3120-03-32.00F32-P24	32	96	128	60	32	40	0,86	2	
	D3120-03-33.00F32-P24	33	99	131	60	32	40	0,86	2	
	D3120-03-34.00F32-P24	34	102	134	60	32	40	0,9	2	
	D3120-03-35.00F32-P24	35	105	137	60	32	40	0,95	2	
Parallel shank with flat 	D3120-03-36.00F32-P24	36	108	140	60	32	40	1,00	2	P284 . S-5N- ..
	D3120-03-37.00F40-P25	37	111	151	70	40	50	1,43	2	
	D3120-03-38.00F40-P25	38	114	154	70	40	50	1,49	2	
	D3120-03-39.00F40-P25	39	117	157	70	40	50	1,64	2	
	D3120-03-40.00F40-P25	40	120	160	70	40	50	1,60	2	
	D3120-03-41.00F40-P25	41	123	163	70	40	50	1,67	2	
	D3120-03-42.00F40-P25	42	126	166	70	40	50	1,83	2	

Bodies and assembly parts are included in the scope of delivery.


Assembly parts

D _c [mm]	16–20	21–25	26–30	31–36	37–42
 Clamping screw for insert Tightening torque	FS1454 (Torx 8IP) 1,2 Nm	FS1456 (Torx 9IP) 2,0 Nm	FS2181 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2139 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]	16–20	21–25	26–36	37–42
 Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
 Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
 Interchangeable blade	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
 Screwdriver	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	Size	P					M			K			N		S		
		HC					HC			HC			HC		HC		
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WSP45S	WXP40	WAK15	WKP25S	WKP35S	WXP40	WK40	WK40	WSP45	WSP45S
 P2840S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2840S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●● Primary application

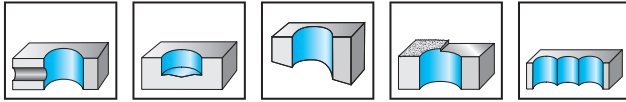
● Other application

B1

Solid drills

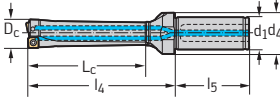
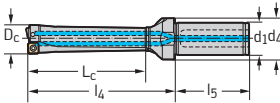
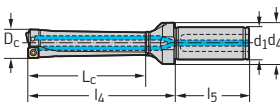
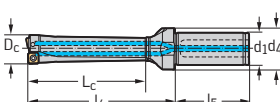
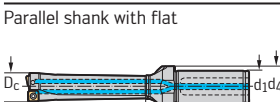
 D3120-04 mm


D_c 16-42	$4 \times D_c$	$Z=1$
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
	P	M	K	N	S	H	O
D3120-04	●	●	●	●	●		

B1

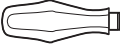



Tool	Designation	D_c mm	L_c mm	l_4 mm	l_5 mm	d_1 mm	d_4 mm	kg	No. of indexable inserts	Type
Parallel shank with flat 	D3120-04-16.00F25-P21	16	64	89	56	25	32	0,35	2	P284 . S-1N- ..
	D3120-04-17.00F25-P21	17	68	93	56	25	32	0,33	2	
	D3120-04-18.00F25-P21	18	72	97	56	25	32	0,35	2	
	D3120-04-19.00F25-P21	19	76	101	56	25	32	0,36	2	
	D3120-04-20.00F25-P21	20	80	105	56	25	32	0,38	2	
Parallel shank with flat 	D3120-04-21.00F25-P22	21	84	109	56	25	32	0,38	2	P284 . S-2N- ..
	D3120-04-22.00F25-P22	22	88	113	56	25	32	0,43	2	
	D3120-04-23.00F25-P22	23	92	117	56	25	32	0,43	2	
	D3120-04-24.00F25-P22	24	96	121	56	25	32	0,46	2	
	D3120-04-25.00F25-P22	25	100	125	56	25	32	0,49	2	
Parallel shank with flat 	D3120-04-26.00F32-P23	26	104	136	60	32	40	0,72	2	P284 . S-3N- ..
	D3120-04-27.00F32-P23	27	108	140	60	32	40	0,76	2	
	D3120-04-28.00F32-P23	28	112	144	60	32	40	0,80	2	
	D3120-04-29.00F32-P23	29	116	148	60	32	40	0,84	2	
	D3120-04-30.00F32-P23	30	120	152	60	32	40	0,88	2	
Parallel shank with flat 	D3120-04-31.00F32-P24	31	124	156	60	32	40	0,86	2	P284 . S-4N- ..
	D3120-04-32.00F32-P24	32	128	160	60	32	40	0,91	2	
	D3120-04-33.00F32-P24	33	132	164	60	32	40	0,96	2	
	D3120-04-34.00F32-P24	34	136	168	60	32	40	1,09	2	
	D3120-04-35.00F32-P24	35	140	172	60	32	40	1,08	2	
Parallel shank with flat 	D3120-04-36.00F32-P24	36	144	176	60	32	40	1,15	2	P284 . S-5N- ..
	D3120-04-37.00F40-P25	37	148	188	70	40	50	1,59	2	
	D3120-04-38.00F40-P25	38	152	192	70	40	50	1,66	2	
	D3120-04-39.00F40-P25	39	156	196	70	40	50	1,74	2	
	D3120-04-40.00F40-P25	40	160	200	70	40	50	1,89	2	
	D3120-04-41.00F40-P25	41	164	204	70	40	50	1,90	2	
	D3120-04-42.00F40-P25	42	168	208	70	40	50	1,99	2	

Bodies and assembly parts are included in the scope of delivery.


Assembly parts

D _c [mm]	16–20	21–25	26–30	31–36	37–42
 Clamping screw for insert Tightening torque	FS1454 (Torx 8IP) 1,2 Nm	FS1456 (Torx 9IP) 2,0 Nm	FS2181 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2139 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]	16–20	21–25	26–36	37–42
 Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
 Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
 Interchangeable blade	FS2012 (Torx 8IP)	FS2013 (Torx 9IP)	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
 Screwdriver	FS1483 (Torx 8IP)	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	Size	P					M		K			N		S			
		HC					HC		HC			HC		HC			
		WKP25S	WKP35S	WSP45	WSP45S	WXP40	WSP45	WXP40	WAK15	WKP25S	WKP35S	WXP40	WK40	WK40	WSP45	WSP45S	WXP40
 P2840S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2840S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-A57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E57	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P2841S-.N-E67	1–5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good




☺
Moderate

●● Primary application

● Other application

B1

Product range overview HSS drills

Machining		
Drilling depth	$\sim 8 \times D_c$	Twist drill set
Designation	DA110 Perform	DA110 Perform
Standard	DIN 338	DIN 338
Dia. range [mm]	1-16	1-10,5 1-13
Page	261	264
		

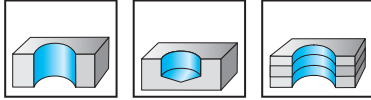
B1

HSS twist drills

DA110 Perform



- Available as set
- Type N



	Designation	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm	WZ90AJ
Parallel shank 	DA110-08-01.000U0-	1	10	34	12	1	
	DA110-08-01.100U0-	1,1	12	36	14	1,1	
	DA110-08-01.200U0-	1,2	14	38	16	1,2	
	DA110-08-01.300U0-	1,3	14	38	16	1,3	
	DA110-08-01.400U0-	1,4	15	40	18	1,4	
	DA110-08-01.500U0-	1,5	15	40	18	1,5	
	DA110-08-01.600U0-	1,6	17	43	20	1,6	
	DA110-08-01.700U0-	1,7	17	43	20	1,7	
	DA110-08-01.800U0-	1,8	19	46	22	1,8	
	DA110-08-01.900U0-	1,9	19	46	22	1,9	
	DA110-08-02.000U0-	2	20	49	24	2	
	DA110-08-02.100U0-	2,1	20	49	24	2,1	
	DA110-08-02.200U0-	2,2	23	53	27	2,2	
	DA110-08-02.300U0-	2,3	23	53	27	2,3	
	DA110-08-02.400U0-	2,4	26	57	30	2,4	
	DA110-08-02.500U0-	2,5	26	57	30	2,5	
	DA110-08-02.600U0-	2,6	26	57	30	2,6	
	DA110-08-02.700U0-	2,7	28	61	33	2,7	
	DA110-08-02.800U0-	2,8	28	61	33	2,8	
	DA110-08-02.900U0-	2,9	28	61	33	2,9	
	DA110-08-03.000U0-	3	28	61	33	3	
	DA110-08-03.100U0-	3,1	30	65	36	3,1	
	DA110-08-03.200U0-	3,2	30	65	36	3,2	
	DA110-08-03.300U0-	3,3	30	65	36	3,3	
	DA110-08-03.400U0-	3,4	33	70	39	3,4	
	DA110-08-03.500U0-	3,5	33	70	39	3,5	
	DA110-08-03.600U0-	3,6	33	70	39	3,6	
	DA110-08-03.700U0-	3,7	33	70	39	3,7	
	DA110-08-03.800U0-	3,8	36	75	43	3,8	
	DA110-08-03.900U0-	3,9	36	75	43	3,9	
	DA110-08-04.000U0-	4	36	75	43	4	
	DA110-08-04.100U0-	4,1	36	75	43	4,1	
	DA110-08-04.200U0-	4,2	36	75	43	4,2	
	DA110-08-04.300U0-	4,3	39	80	47	4,3	
	DA110-08-04.400U0-	4,4	39	80	47	4,4	
	DA110-08-04.500U0-	4,5	39	80	47	4,5	
	DA110-08-04.600U0-	4,6	39	80	47	4,6	
	DA110-08-04.700U0-	4,7	39	80	47	4,7	
	DA110-08-04.800U0-	4,8	44	86	52	4,8	
	DA110-08-04.900U0-	4,9	44	86	52	4,9	
	DA110-08-05.000U0-	5	44	86	52	5	
	DA110-08-05.100U0-	5,1	44	86	52	5,1	
	DA110-08-05.200U0-	5,2	44	86	52	5,2	
	DA110-08-05.300U0-	5,3	44	86	52	5,3	
	DA110-08-05.400U0-	5,4	48	93	57	5,4	
	DA110-08-05.500U0-	5,5	48	93	57	5,5	
	DA110-08-05.600U0-	5,6	48	93	57	5,6	

Ordering example for the WZ90AJ grade: DA110-08-01.000U0-WZ90AJ

Continued

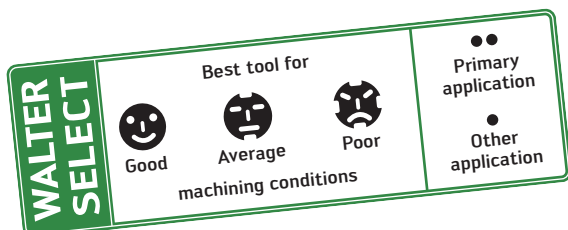
B1

Continued

	Designation	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm	WZ90AJ
Parallel shank 	DA110-08-05.700U0-	5,7	48	93	57	5,7	
	DA110-08-05.800U0-	5,8	48	93	57	5,8	
	DA110-08-05.900U0-	5,9	48	93	57	5,9	
	DA110-08-06.000U0-	6	48	93	57	6	
	DA110-08-06.100U0-	6,1	52	101	63	6,1	
	DA110-08-06.200U0-	6,2	52	101	63	6,2	
	DA110-08-06.300U0-	6,3	52	101	63	6,3	
	DA110-08-06.400U0-	6,4	52	101	63	6,4	
	DA110-08-06.500U0-	6,5	52	101	63	6,5	
	DA110-08-06.600U0-	6,6	52	101	63	6,6	
	DA110-08-06.700U0-	6,7	52	101	63	6,7	
	DA110-08-06.800U0-	6,8	57	109	69	6,8	
	DA110-08-06.900U0-	6,9	57	109	69	6,9	
	DA110-08-07.000U0-	7	57	109	69	7	
	DA110-08-07.100U0-	7,1	57	109	69	7,1	
	DA110-08-07.200U0-	7,2	57	109	69	7,2	
	DA110-08-07.300U0-	7,3	57	109	69	7,3	
	DA110-08-07.400U0-	7,4	57	109	69	7,4	
	DA110-08-07.500U0-	7,5	57	109	69	7,5	
	DA110-08-07.600U0-	7,6	62	117	75	7,6	
	DA110-08-07.700U0-	7,7	62	117	75	7,7	
	DA110-08-07.800U0-	7,8	62	117	75	7,8	
	DA110-08-07.900U0-	7,9	62	117	75	7,9	
	DA110-08-08.000U0-	8	62	117	75	8	
	DA110-08-08.100U0-	8,1	62	117	75	8,1	
	DA110-08-08.200U0-	8,2	62	117	75	8,2	
	DA110-08-08.300U0-	8,3	62	117	75	8,3	
	DA110-08-08.400U0-	8,4	62	117	75	8,4	
	DA110-08-08.500U0-	8,5	62	117	75	8,5	
	DA110-08-08.600U0-	8,6	66	125	81	8,6	
	DA110-08-08.700U0-	8,7	66	125	81	8,7	
	DA110-08-08.800U0-	8,8	66	125	81	8,8	
	DA110-08-08.900U0-	8,9	66	125	81	8,9	
	DA110-08-09.000U0-	9	66	125	81	9	
	DA110-08-09.100U0-	9,1	66	125	81	9,1	
	DA110-08-09.200U0-	9,2	66	125	81	9,2	
	DA110-08-09.300U0-	9,3	66	125	81	9,3	
	DA110-08-09.400U0-	9,4	66	125	81	9,4	
	DA110-08-09.500U0-	9,5	66	125	81	9,5	
	DA110-08-09.600U0-	9,6	71	133	87	9,6	
DA110-08-09.700U0-	9,7	71	133	87	9,7		
DA110-08-09.800U0-	9,8	71	133	87	9,8		
DA110-08-09.900U0-	9,9	71	133	87	9,9		
DA110-08-10.000U0-	10	71	133	87	10		
DA110-08-10.100U0-	10,1	71	133	87	10,1		
DA110-08-10.200U0-	10,2	71	133	87	10,2		
DA110-08-10.300U0-	10,3	71	133	87	10,3		
DA110-08-10.400U0-	10,4	71	133	87	10,4		
DA110-08-10.500U0-	10,5	71	133	87	10,5		
DA110-08-10.700U0-	10,7	76	142	94	10,7		
DA110-08-10.800U0-	10,8	76	142	94	10,8		
DA110-08-11.000U0-	11	76	142	94	11		
DA110-08-11.100U0-	11,1	76	142	94	11,1		
DA110-08-11.300U0-	11,3	76	142	94	11,3		
DA110-08-11.500U0-	11,5	76	142	94	11,5		
DA110-08-11.800U0-	11,8	76	142	94	11,8		
DA110-08-12.000U0-	12	87	151	101	12		

Ordering example for the WZ90AJ grade: DA110-08-01.000U0-WZ90AJ

Continued



Continued

	Designation	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm	WZ90AJ
<p>Parallel shank</p>	DA110-08-12.100U0-	12,1	87	151	101	12,1	
	DA110-08-12.200U0-	12,2	87	151	101	12,2	
	DA110-08-12.500U0-	12,5	87	151	101	12,5	
	DA110-08-13.000U0-	13	87	151	101	13	
	DA110-08-13.500U0-	13,5	94	160	108	13,5	
	DA110-08-13.700U0-	13,7	94	160	108	13,7	
	DA110-08-14.000U0-	14	94	160	108	14	
	DA110-08-14.500U0-	14,5	99	169	114	14,5	
	DA110-08-15.000U0-	15	99	169	114	15	
	DA110-08-15.500U0-	15,5	104	178	120	15,5	
	DA110-08-16.000U0-	16	104	178	120	16	

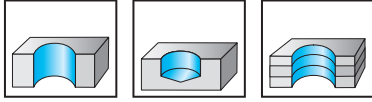
Ordering example for the WZ90AJ grade: DA110-08-01.000U0-WZ90AJ

B1

HSS – DA110 Perform twist drill – set
DA110-SET-1-10.5-WZ90AJ
DA110-SET-1-13-WZ90AJ



– Type N



	P	M	K	N	S	H	O
WZ90AJ	●●	●	●●	●			

B1

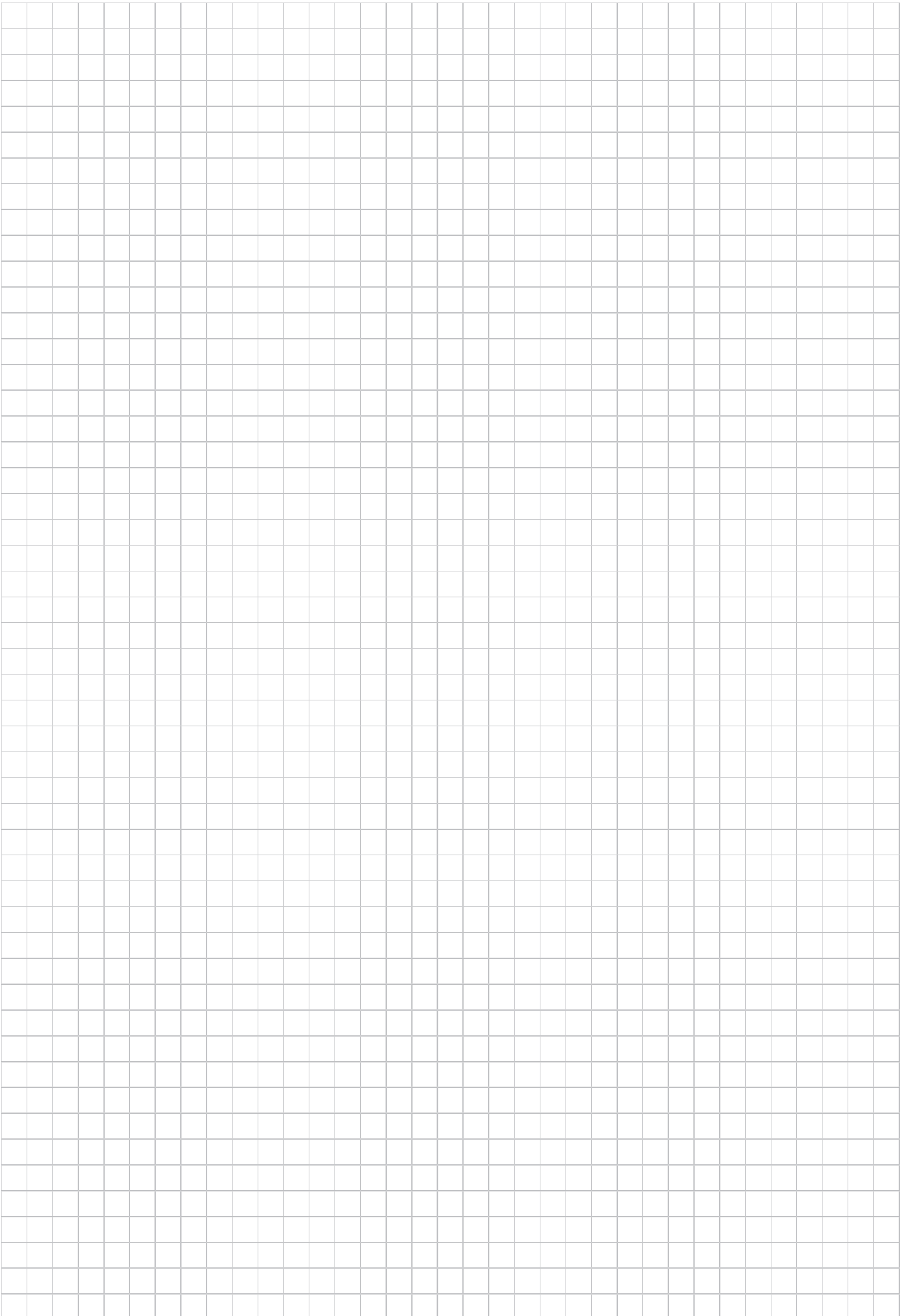
Designation	Sets Ø [mm]	Including core-hole drill [mm]		Pitch	Quantity
DA110-SET-1-10.5-WZ90AJ	1,0–10,5	3,3	0,5	24	
		4,2			
		6,8			
		10,2			



Designation	Sets Ø [mm]	Pitch	Quantity
DA110-SET-1-13-WZ90AJ	1,0–13,0	0,5	25



For the dimensions for the DA110 Perform twist drill, please see the ordering page.






B1

Cutting data

Solid carbide drills with internal coolant

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

Material group	Overview of the main material groups and code letters			Drilling depth		3 × Dc				
				Designation		DC260 Advance				
				Standard		Walter				
				Cooling		Internal coolant				
		Grade		WJ30ET						
		Dia. range [mm]		3,3–14						
										
				vc		VRR		 		
				Brinell hardness HB		Tensile strength R _m N/mm ²		Machining group *		
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	135	12	EO	
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	135	12	EO	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	135	12	EO	
		C > 0.55%	Annealed	190	640	P4	135	10	EO	
		C > 0.55%	Heat-treated	300	1010	P5	112	10	EO	
		Free-machining steel (short-chipping)	Annealed	220	750	P6	157	12	EO	
	Low-alloy steel	Annealed		175	590	P7	135	12	EO	M
		Heat-treated		285	960	P8	101	10	EO	M
		Heat-treated		380	1280	P9	58	8	EO	M
		Heat-treated		430	1480	P10	63	6	EO	M
	High-alloyed steel and high-alloyed tool steel	Annealed		200	680	P11	88	10	EO	
		Hardened and tempered		300	1010	P12	112	10	EO	
		Hardened and tempered		380	1280	P13	52	8	EO	
	Stainless steel	Ferritic/martensitic, annealed		200	680	P14	123	12	EO	
		Martensitic, heat-treated		330	1110	P15	63	9	EO	
M	Stainless steel	Austenitic, quench hardened		200	680	M1	55	6	EO	
		Austenitic, precipitation hardened (PH)		300	1010	M2	49	6	EO	
		Austenitic/ferritic, duplex		230	780	M3	39	4	EO	
K	Malleable cast iron	Ferritic		200	400	K1	112	16	EO	M
		Pearlitic		260	700	K2	103	16	EO	M
	Grey cast iron	Low tensile strength		180	200	K3	135	16	EO	M
		High tensile strength/austenitic		245	350	K4	112	16	EO	M
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	157	16	EO	M
		Pearlitic		265	700	K6	102	16	EO	M
	GGV (CGI)		230	400	K7	112	16	EO	M	
N	Wrought aluminium alloys	Not hardenable		30	-	N1	420	16	EO	
		Hardenable, hardened		100	340	N2	420	16	EO	
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3	265	16	EO	M
		≤ 12% Si, hardenable, hardened		90	310	N4	235	16	EO	M
		> 12% Si, not hardenable		130	450	N5	195	16	EO	M
	Magnesium alloys		70	250	N6					
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7	185	8	EO	
		Brass, bronze, red brass		90	310	N8	168	10	EO	
		Cu alloys, short-chipping		110	380	N9	185	12	EO	
		High-tensile, Ampco		300	1010	N10	78	6	EO	
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	43	4	EO	
			Hardened	280	940	S2	30	4	EO	
		Ni- or Co-based	Annealed	250	840	S3	33	5	EO	
			Hardened	350	1180	S4	13	4	EO	
			Cast	320	1080	S5	27	4	EO	
	Titanium alloys	Pure titanium		200	680	S6	52	6	EO	
	α and β alloys, hardened		375	1260	S7	38	4	EO		
	β alloys		410	1400	S8	33	4	EO		
	Tungsten alloys		300	1010	S9	46	5	EO		
	Molybdenum alloys		300	1010	S10	46	5	EO		
H	Hardened steel	Hardened and tempered		50 HRC	-	H1	43	3	OE	M
		Hardened and tempered		55 HRC	-	H2				
		Hardened and tempered		60 HRC	-	H3				
	Hardened cast iron	Hardened and tempered		55 HRC	-	H4				
O	Thermoplastics	Without abrasive fillers				O1	115	16	EO	
	Thermosets	Without abrasive fillers				O2				
	Plastic, glass-fibre-reinforced	GFRP				O3				
	Plastic, carbon-fibre-reinforced	CFRP				O4				
	Plastic, aramid-fibre-reinforced	AFRP				O5				
	Graphite (technical)			80 Shore			O6			

3 × Dc DC160 Advance					5 × Dc DC160 Advance					8 × Dc DC160 Advance					12 × Dc DC160 Advance				
DIN 6537 short					DIN 6537 long					Walter					Walter				
Internal coolant					Internal coolant					Internal coolant					Internal coolant				
WJ30ET					WJ30ET					WJ30ET					WJ30EU				
3-20					3-25					3-20					3-20				
vc	VRR				vc	VRR				vc	VRR				vc	VRR			
135	12	EO			130	12	EO			124	12	EO			120	12	EO		
135	12	EO			130	12	EO			124	10	EO			120	10	EO		
135	12	EO			130	12	EO			124	10	EO			120	10	EO		
135	10	EO			130	10	EO			124	10	EO			120	10	EO		
112	10	EO			108	10	EO			103	10	EO			99	10	EO		
157	12	EO			151	12	EO			144	12	EO			139	12	EO		
135	12	EO	M		130	12	EO	M		124	12	EO	M		120	12	EO	M	
101	10	EO	M		97	10	EO	M		93	10	EO	M		90	10	EO	M	
58	8	EO	M		56	8	EO	M		54	8	EO	M		52	8	EO	M	
63	6	EO	M		60	6	EO	M		57	6	EO	M		55	6	EO	M	
88	10	EO			85	10	EO			81	9	EO			79	9	EO		
112	10	EO			108	10	EO			103	10	EO			99	10	EO		
52	8	EO			50	8	EO			48	7	EO			46	7	EO		
123	12	EO			118	12	EO			113	12	EO			110	12	EO		
63	9	EO			61	9	EO			58	9	EO			56	9	EO		
55	6	EO			53	6	EO			51	6	EO			49	6	EO		
49	6	EO			47	6	EO			45	6	EO			43	6	EO		
39	4	EO			38	4	EO			37	4	EO			35	4	EO		
112	16	EO	M		108	16	EO	M		103	16	EO	M		99	16	EO	M	
103	16	EO	M		98	16	EO	M		94	16	EO	M		91	16	EO	M	
135	16	EO	M		130	16	EO	M		124	16	EO	M		120	16	EO	M	
112	16	EO	M		108	16	EO	M		103	16	EO	M		99	16	EO	M	
157	16	EO	M		151	16	EO	M		144	16	EO	M		139	16	EO	M	
102	16	EO	M		98	16	EO	M		94	16	EO	M		91	16	EO	M	
112	16	EO	M		108	16	EO	M		103	16	EO	M		99	16	EO	M	
420	16	EO			400	16	EO			380	16	EO			360	16	EO		
420	16	EO			400	16	EO			380	16	EO			360	16	EO		
265	16	EO	M		250	16	EO	M		238	16	EO	M		215	16	EO	M	
235	16	EO	M		220	16	EO	M		209	16	EO	M		200	16	EO	M	
195	16	EO	M		180	16	EO	M		171	16	EO	M		160	16	EO	M	
185	8	EO			180	8	EO			171	8	EO			160	8	EO		
168	10	EO			160	10	EO			152	10	EO			145	10	EO		
185	12	EO			180	12	EO			171	12	EO			160	12	EO		
78	6	EO			71	6	EO			68	6	EO			66	6	EO		
43	4	EO			42	4	EO			40	4	EO			38	4	EO		
30	4	EO			29	4	EO			28	4	EO			27	4	EO		
33	5	EO			33	5	EO			32	5	EO			31	5	EO		
13	4	EO			13	4	EO			13	4	EO			12	4	EO		
27	4	EO			27	4	EO			26	4	EO			25	4	EO		
52	6	EO			52	6	EO			50	6	EO			49	6	EO		
38	4	EO			37	4	EO			36	4	EO			35	4	EO		
33	4	EO			33	4	EO			32	4	EO			31	4	EO		
46	5	EO			46	5	EO			44	5	EO			42	5	EO		
46	5	EO			46	5	EO			44	5	EO			42	5	EO		
43	3	OE	M		42	3	OE	M		40	3	OE			39	3	OE		
115	16	EO			110	16	EO			105	16	EO			100	16	EO		

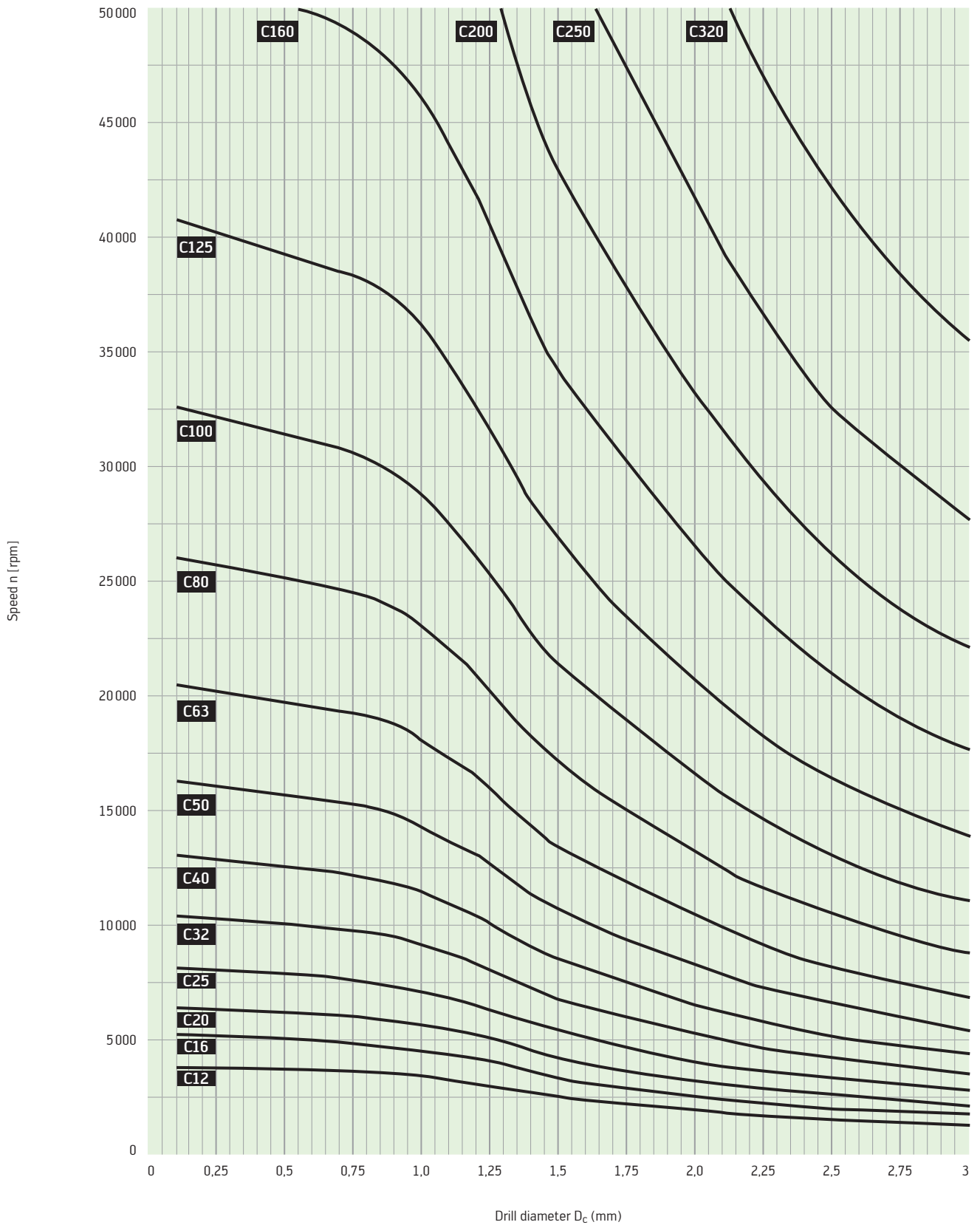
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3 × Dc DC160 Advance				5 × Dc DB130 Advance				5 × Dc DC160 Advance				5 × Dc DC150 Perform			
DIN 6537 short				DIN 1899				DIN 6537 long				DIN 6537 long			
External coolant				External coolant				External coolant				External coolant			
WJ30ET				WJ30UU				WJ30ET				WJ30TA			
3-20				0,1-1,45				3-25				3-20			
VCRR	VRR			vc	VRR			vc	VRR			vc	VRR		
110	12	EO		C63	5	EO		102	12	EO		81	12	EO	
121	12	EO		C63	6	EO		112	12	EO		72	10	EO	
110	12	EO		C63	6	EO		102	12	EO		72	10	EO	
110	10	EO		C50	5	EO		102	10	EO		65	9	EO	
78	10	EO		C40	5	EO		73	10	EO		51	8	EO	
110	12	EO		C63	6	EO		102	12	EO		81	12	EO	
121	12	EO		C63	6	EO		112	12	EO		72	12	EO	
69	10	EO		C40	5	EO		65	10	EO		45	8	EO	
55	7	EO		C25	4	EO		51	7	EO		33	6	EO	
44	5	EO		C20	3	EO		41	5	EO		26	4	EO	
78	9	EO		C32	4	EO		74	9	EO		57	9	EO	
78	10	EO		C40	5	EO		74	10	EO		51	8	EO	
44	7	EO		C25	4	EO		42	7	EO		38	6	EO	
99	12	EO		C50	6	EO		94	12	EO		65	12	EO	
55	10	EO		C40	5	EO		52	10	EO		51	8	EO	
				C12	3	EO									
				C20	3	EO						36	5	EO	
				C12	2	EO									
88	16	EO		C50	6	EO		83	16	EO		65	16	EO	
88	12	EO		C40	4	EO		83	12	EO		51	12	EO	
110	16	EO		C63	7	EO		102	16	EO		81	16	EO	
88	16	EO		C50	6	EO		83	16	EO		65	16	EO	
110	16	EO		C63	7	EO		102	16	EO		72	16	EO	
88	12	EO		C40	4	EO		83	12	EO		51	12	EO	
99	2	EO		C50	5	EO		92	2	EO		57	12	EO	
				C160	9	EO	M					225	10	EO	M
				C160	9	EO	M					225	10	EO	M
225	16	EO		C125	9	EO	M	205	16	EO	M	200	16	EO	M
225	16	EO		C100	9	EO	M	205	16	EO	M	180	16	EO	M
190	12	EO		C63	8	EO	M	175	12	EO	M	144	12	EO	M
				C125	9		ML								
185	6	EO		C100	6	EO		175	6	EO		144	6	EO	
165	10	EO		C80	8	EO		155	10	EO		126	10	EO	
205	16	EO		C80	8	EO		190	16	EO		162	16	EO	
68	5	EO		C32	3	EO		63	5	EO		60	5	EO	
				C12	2	EO									
				C12	2	EO									
35	5	EO		C20	3	EO		33	5	EO		30	5	EO	
27	3	EO		C12	2	EO		25	3	EO		20	3	EO	
22	3	EO		C12	1	EO		20	3	EO		18	3	EO	
30	3	OE						28	3	OE		20	3	OE	
110	16	EO		C25	12	EO		105	16	EO		81	16	EO	
			L	C40	8		L								
			L	C40	8		L								
			L	C40	8		L								
			L	C40	8		L								
			L	C40	8		L								

VCRR: Speed diagram
Solid carbide micro drills

B1



VRR: Feed rate charts for solid carbide and HSS drilling and reaming tools

VRR	Feed f [mm] for diameter [mm]															
	0,05	0,06	0,08	0,1	0,12	0,15	0,2	0,25	0,4	0,5	0,6	0,8	1	1,2	1,5	2
1	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,002	0,002	0,003	0,003	0,004	0,005	0,007
2	0,001	0,001	0,001	0,001	0,001	0,001	0,001	0,002	0,003	0,003	0,004	0,005	0,007	0,008	0,010	0,013
3	0,001	0,001	0,001	0,001	0,001	0,002	0,002	0,003	0,004	0,005	0,006	0,008	0,010	0,012	0,015	0,020
4	0,001	0,001	0,001	0,001	0,002	0,002	0,003	0,003	0,005	0,007	0,008	0,011	0,013	0,016	0,020	0,027
5	0,001	0,001	0,001	0,002	0,002	0,003	0,003	0,004	0,007	0,008	0,010	0,013	0,017	0,020	0,025	0,033
6	0,001	0,001	0,002	0,002	0,002	0,003	0,004	0,005	0,008	0,010	0,012	0,016	0,020	0,024	0,030	0,040
7	0,001	0,001	0,002	0,002	0,003	0,004	0,005	0,006	0,009	0,012	0,014	0,019	0,023	0,028	0,035	0,047
8	0,001	0,002	0,002	0,003	0,003	0,004	0,005	0,007	0,011	0,013	0,016	0,021	0,027	0,032	0,040	0,053
9	0,002	0,002	0,002	0,003	0,004	0,005	0,006	0,008	0,012	0,015	0,018	0,024	0,030	0,036	0,045	0,060
10	0,002	0,002	0,003	0,003	0,004	0,005	0,007	0,008	0,013	0,017	0,020	0,027	0,033	0,040	0,050	0,067
12	0,002	0,002	0,003	0,004	0,005	0,006	0,008	0,010	0,016	0,020	0,024	0,032	0,040	0,048	0,060	0,080
16	0,003	0,003	0,004	0,005	0,006	0,008	0,011	0,013	0,021	0,027	0,032	0,043	0,053	0,064	0,080	0,11
20	0,003	0,004	0,005	0,007	0,008	0,010	0,013	0,017	0,027	0,033	0,040	0,053	0,067	0,080	0,10	0,13
25	0,004	0,005	0,007	0,008	0,010	0,013	0,017	0,021	0,033	0,042	0,050	0,067	0,083	0,100	0,125	0,167
30	0,005	0,006	0,008	0,010	0,012	0,015	0,020	0,025	0,040	0,050	0,060	0,080	0,100	0,120	0,150	0,200

VRR	Feed f [mm] for diameter [mm]															
	2,5	4	5	6	8	10	12	15	20	25	40	50	60	80	100	
1	0,008	0,013	0,017	0,018	0,021	0,024	0,026	0,029	0,033	0,037	0,047	0,053	0,058	0,067	0,075	
2	0,017	0,027	0,033	0,037	0,042	0,047	0,052	0,058	0,067	0,075	0,094	0,11	0,12	0,13	0,15	
3	0,025	0,040	0,050	0,055	0,063	0,071	0,077	0,087	0,10	0,11	0,14	0,16	0,17	0,20	0,22	
4	0,033	0,053	0,067	0,073	0,084	0,094	0,10	0,12	0,13	0,15	0,19	0,21	0,23	0,27	0,30	
5	0,042	0,067	0,083	0,091	0,11	0,12	0,13	0,14	0,17	0,19	0,24	0,26	0,29	0,33	0,37	
6	0,050	0,080	0,10	0,11	0,13	0,14	0,15	0,17	0,20	0,22	0,28	0,32	0,35	0,40	0,45	
7	0,058	0,093	0,12	0,13	0,15	0,16	0,18	0,20	0,23	0,26	0,33	0,37	0,40	0,47	0,52	
8	0,067	0,11	0,13	0,15	0,17	0,19	0,21	0,23	0,27	0,30	0,38	0,42	0,46	0,53	0,60	
9	0,075	0,12	0,15	0,16	0,19	0,21	0,23	0,26	0,30	0,34	0,42	0,47	0,52	0,60	0,67	
10	0,083	0,13	0,17	0,18	0,21	0,24	0,26	0,29	0,33	0,37	0,47	0,53	0,58	0,67	0,75	
12	0,10	0,16	0,20	0,22	0,25	0,28	0,31	0,35	0,40	0,45	0,57	0,63	0,69	0,80	0,89	
16	0,13	0,21	0,27	0,29	0,34	0,38	0,41	0,46	0,53	0,60	0,75	0,84	0,92	1,07	1,19	
20	0,17	0,27	0,33	0,37	0,42	0,47	0,52	0,58	0,67	0,75	0,94	1,05	1,15	1,33	1,49	
25	0,21	0,33	0,42	0,46	0,53	0,59	0,65	0,72	0,83	0,93	1,18	1,32	1,44	1,67	1,86	
30	0,25	0,40	0,50	0,55	0,63	0,71	0,77	0,87	1,00	1,12	1,41	1,58	1,73	2,00	2,24	

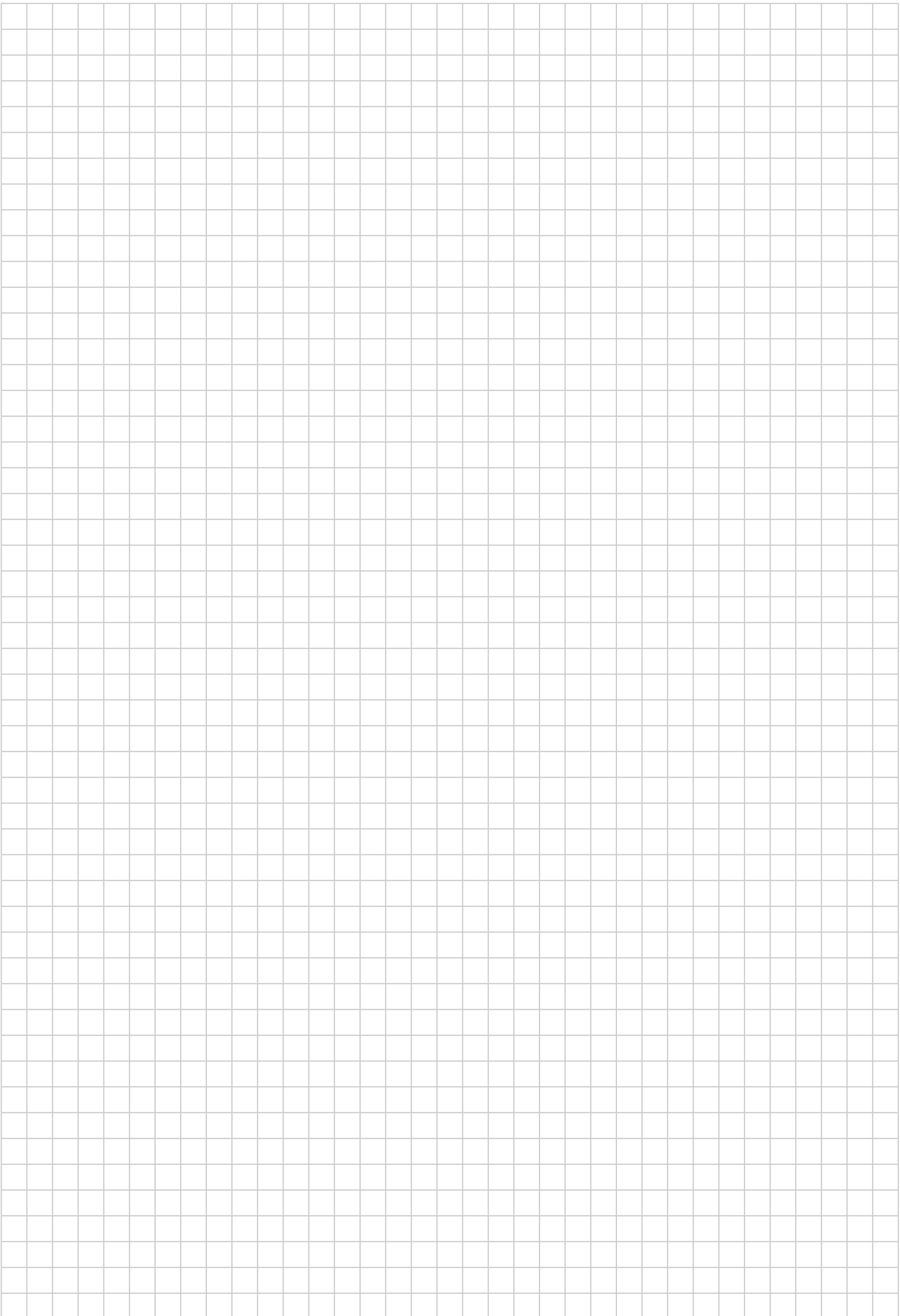
Grade description

Coated carbide

Walter grade description	Standard designation	Materials							Application range								Coating process	Coating composition	Tool example	
		P Steel	M Stainless steel	K Cast iron	N NF metals	S Materials with difficult cutting properties	H Hard materials	O Other	01	05	10	15	20	25	30	35				40
WJ30EJ	HC – P 30	●●																PVD	Tinal/AICrN multi-layer coating	
	HC – K 30			●●																
WJ30RE	HC – 30	●●	●●	●●	●●	●●	●	●●										PVD	Tinal multi-layer coating	
WJ30TA	HC – 30	●●	●●	●●	●●	●●	●	●●										PVD	Tinal multi-layer coating with post-treatment	
WJ30EL	HC – 30	●●		●●	●●	●	●	●										PVD	AlCrN single-layer coating	
WJ30ER	HC – 30	●●		●●	●●	●	●	●										PVD	AlCrN single-layer point coating	
WJ30ET	HC – 30	●●	●	●●	●●	●●	●	●										PVD	TiSiAlCrN/AlTiN multi-layer coating	
WJ30EU	HC – 30	●●	●	●●	●●	●●	●	●										PVD	TiSiAlCrN/AlTiN multi-layer coating point coating	
WJ30UU	HW – 30	●●	●●	●●	●●	●●		●●										Uncoated		

 HC = Coated carbide
 HW = Uncoated carbide

 ●● Primary application
 ● Additional application



B1

Cutting data for D4140

= Wet machining (E = emulsion, O = oil)
 = Dry machining possible (M = MQL, L = dry)
 Cutting data must be selected from Walter GPS

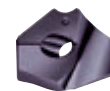
v_c = Cutting speed
 VRR = Feed rate chart from page 286 onwards

* The classification of the machining groups can be found in the material group comparison table

Drilling depth: $2,5 \times D_c$
 Designation: **D4240**
 Dia. range (mm): **12–29,99**



P6001
WPP45C



P6003
WMP35

Material group	vc	VRR		
P6001 WPP45C				
P6003 WMP35				

Overview of the main material groups and code letters

Material group			Binnell hardness HB	Tensile strength R_m N/mm ²	Machining group *	P6001 WPP45C				P6003 WMP35						
						vc	VRR			vc	VRR					
P	Non-alloyed steel	C ≤ 0.25%	125	430	P1	120	7	E O			120	7	E O			
		C > 0.25 ... ≤ 0.55%	190	640	P2	120	7	E O			120	7	E O			
		C > 0.25 ... ≤ 0.55%	210	710	P3	120	7	E O			120	7	E O			
		C > 0.55%	190	640	P4	110	6	E O			110	6	E O			
		C > 0.55%	300	1010	P5	90	7	E O			90	7	E O			
	Free-machining steel (short-chipping)	Annealed	220	750	P6	120	7	E O			120	7	E O			
	Low-alloy steel	Annealed	175	590	P7	120	7	E O			120	7	E O			
		Heat-treated	285	960	P8	71	7	E O			71	7	E O			
		Heat-treated	380	1280	P9	32	3	O E			32	3	O E			
		Heat-treated	430	1480	P10											
High-alloyed steel and high-alloyed tool steel	Annealed	200	680	P11	90	6	E O			90	6	E O				
	Hardened and tempered	300	1010	P12	90	7	E O			90	7	E O				
	Hardened and tempered	380	1280	P13	63	5	E O			63	5	E O				
Stainless steel	Ferritic/martensitic, annealed	200	680	P14	100	7	E O			100	7	E O				
	Martensitic, heat-treated	330	1110	P15	80	7	E O			80	7	E O				
M	Stainless steel	Austenitic, quench hardened	200	680	M1						71	4	E O			
		Austenitic, precipitation hardened (PH)	300	1010	M2											
		Austenitic/ferritic, duplex	230	780	M3							32	5	E O		
K	Malleable cast iron	Ferritic	200	400	K1	120	8	E O			120	8	E O			
		Pearlitic	260	700	K2	120	8	E O			120	8	E O			
	Grey cast iron	Low tensile strength	180	200	K3	140	9	E O			140	9	E O			
		High tensile strength/austenitic	245	350	K4	140	9	E O			140	9	E O			
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	140	8	E O			140	8	E O			
		Pearlitic	265	700	K6	120	8	E O			120	8	E O			
	GGV (CGI)		230	400	K7	110	7	E O			110	7	E O			
N	Wrought aluminium alloys	Not hardenable	30	–	N1											
		Hardenable, hardened	100	340	N2											
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3											
		≤ 12% Si, hardenable, hardened	90	310	N4											
	Magnesium alloys	> 12% Si, not hardenable	130	450	N5											
			70	250	N6											
			100	340	N7											
Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	340	N7												
	Brass, bronze, red brass	90	310	N8												
	Cu alloys, short-chipping	110	380	N9												
	High-tensile, Ampco	300	1010	N10												
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1					56	3	E O			
			Hardened	280	940	S2										
		Ni- or Co-based	Annealed	250	840	S3						32	5	E O		
			Hardened	350	1180	S4						12	2	E O		
			Cast	320	1080	S5						20	5	E O		
	Titanium alloys	Pure titanium	200	680	S6						71	4	E O			
α and β alloys, hardened		375	1260	S7						63	4	E O				
β alloys		410	1400	S8						63	3	E O				
Tungsten alloys		300	1010	S9						20	5	E O				
Molybdenum alloys		300	1010	S10						20	5	E O				
H	Hardened steel	Hardened and tempered	50 HRC	–	H1											
		Hardened and tempered	55 HRC	–	H2											
		Hardened and tempered	60 HRC	–	H3											
	Hardened cast iron	Hardened and tempered	55 HRC	–	H4											
O	Thermoplastics	Without abrasive fillers			O1											
	Thermosets	Without abrasive fillers			O2											
	Plastic, glass-fibre-reinforced	GFRP			O3											
	Plastic, carbon-fibre-reinforced	CFRP			O4											
	Plastic, aramid-fibre-reinforced	AFRP			O5											
	Graphite (technical)		80 Shore			O6										

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

2,5 × D _c																1,3 × D _c															
D4240																D4140															
12–29,99																12–25,99															
P6004 WXK25				P6005 WKK45C				P6001 WPP45C				P6003 WMP35				P6004 WXK25				P6005 WKK45C											
vc	VRR			vc	VRR			vc	VRR			vc	VRR			vc	VRR			vc	VRR										
								120	7	EO		120	7	EO																	
								120	7	EO		120	7	EO																	
								120	7	EO		120	7	EO																	
								110	6	EO		110	6	EO																	
								90	7	EO		90	7	EO																	
								120	7	EO		120	7	EO																	
								120	7	EO		120	7	EO																	
								71	7	EO		71	7	EO																	
								32	3	OE		32	3	OE																	
								90	6	EO		90	6	EO																	
								90	7	EO		90	7	EO																	
								63	5	EO		63	5	EO																	
								100	7	EO		100	7	EO																	
								80	7	EO		80	7	EO																	
												71	4	EO																	
												32	5	EO																	
				120	8	EO		120	8	EO		120	8	EO						120	8	EO									
				110	8	EO		120	8	EO		120	8	EO						110	8	EO									
				160	9	EO		140	9	EO		140	9	EO						160	9	EO									
				160	9	EO		140	9	EO		140	9	EO						160	9	EO									
				140	8	EO		140	8	EO		140	8	EO						140	8	EO									
				110	8	EO		120	8	EO		120	8	EO						110	8	EO									
				110	7	EO		110	7	EO		110	7	EO						110	7	EO									
	320	16	EO												320	16	EO														
	320	16	EO												320	16	EO														
	400	9	EO	M											400	9	EO	M													
	320	9	EO	M											320	9	EO	M													
	220	9	EO	M											220	9	EO	M													
	120	4	EO												120	4	EO														
	250	10	EO												250	10	EO														
	250	10	EO												250	10	EO														
	90	5	EO												90	5	EO														
												56	3	EO																	
												32	5	EO																	
												12	2	EO																	
												20	5	EO																	
												71	4	EO																	
												63	4	EO																	
												63	3	EO																	
												20	5	EO																	
												20	5	EO																	

HC = Coated carbide

B1

Cutting data for D4140

= Wet machining (E = emulsion, O = oil)
 = Dry machining possible (M = MQL, L = dry)
 Cutting data must be selected from Walter GPS

 v_c = Cutting speed
 VRR = Feed rate chart from page 286 onwards

* The classification of the machining groups can be found in the material group comparison table

Drilling depth		3 × D _c	
Designation		D4140	
Dia. range [mm]		12–37,99	
Material group	Brinell hardness HB Tensile strength R _m N/mm ²	Machining group *	 P6001 WPP45C
			 P6003 WMP35
			vc VRR

Overview of the main material groups and code letters

Material group	Material description	Heat treatment	HB	R _m N/mm ²	Machining group	P6001 WPP45C		P6003 WMP35					
						vc	VRR	vc	VRR				
P	Non-alloyed steel	C ≤ 0.25%	125	430	P1	110	7	EO					
		C > 0.25 ... ≤ 0.55%	190	640	P2	110	7	EO					
		C > 0.25 ... ≤ 0.55%	210	710	P3	100	7	EO					
		C > 0.55%	190	640	P4	100	6	EO					
		C > 0.55%	300	1010	P5	80	7	EO					
	Free-machining steel (short-chipping)	Annealed	220	750	P6	110	7	EO					
	Low-alloy steel	Annealed	175	590	P7	110	7	EO					
		Heat-treated	285	960	P8	71	7	EO					
		Heat-treated	380	1280	P9	32	3	OE					
		Heat-treated	430	1480	P10								
High-alloyed steel and high-alloyed tool steel	Annealed	200	680	P11	80	6	EO						
	Hardened and tempered	300	1010	P12	80	7	EO						
	Hardened and tempered	380	1280	P13	63	5	EO						
Stainless steel	Ferritic/martensitic, annealed	200	680	P14	90	7	EO						
	Martensitic, heat-treated	330	1110	P15	71	7	EO						
M	Stainless steel	Austenitic, quench hardened	200	680	M1				63	4	EO		
		Austenitic, precipitation hardened (PH)	300	1010	M2								
		Austenitic/ferritic, duplex	230	780	M3								
K	Malleable cast iron	Ferritic	200	400	K1	110	8	EO					
		Pearlitic	260	700	K2	110	8	EO					
	Grey cast iron	Low tensile strength	180	200	K3	140	9	EO					
		High tensile strength/austenitic	245	350	K4	120	9	EO					
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	120	8	EO					
		Pearlitic	265	700	K6	110	8	EO					
	GGV (CGI)		230	400	K7	110	7	EO					
N	Wrought aluminium alloys	Not hardenable	30	–	N1								
		Hardenable, hardened	100	340	N2								
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3								
		≤ 12% Si, hardenable, hardened	90	310	N4								
	Magnesium alloys	> 12% Si, not hardenable	130	450	N5								
			70	250	N6								
			100	340	N7								
Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	340	N7									
	Brass, bronze, red brass	90	310	N8									
	Cu alloys, short-chipping	110	380	N9									
	High-tensile, Ampco	300	1010	N10									
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1				50	3	EO	
			Hardened	280	940	S2							
		Ni- or Co-based	Annealed	250	840	S3					28	5	EO
			Hardened	350	1180	S4					11	2	EO
			Cast	320	1080	S5					18	5	EO
	Titanium alloys	Pure titanium	200	680	S6					63	4	EO	
		α and β alloys, hardened	375	1260	S7					56	4	EO	
		β alloys	410	1400	S8					56	3	EO	
Tungsten alloys		300	1010	S9					18	5	EO		
Molybdenum alloys		300	1010	S10					18	5	EO		
H	Hardened steel	Hardened and tempered	50 HRC	–	H1								
		Hardened and tempered	55 HRC	–	H2								
		Hardened and tempered	60 HRC	–	H3								
	Hardened cast iron	Hardened and tempered	55 HRC	–	H4								
O	Thermoplastics	Without abrasive fillers			O1								
	Thermosets	Without abrasive fillers			O2								
	Plastic, glass-fibre-reinforced	GFRP			O3								
	Plastic, carbon-fibre-reinforced	CFRP			O4								
	Plastic, aramid-fibre-reinforced	AFRP			O5								
	Graphite (technical)		80 Shore			O6							

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

3 × D _c														5 × D _c													
D4140														D4140													
12–37,99														12–37,99													
 P6004 WXXK25 P6005 WKK45C														 P6001 WPP45C P6003 WMP35 P6004 WXXK25 P6005 WKK45C													
vc	VRR			vc	VRR			vc	VRR			vc	VRR			vc	VRR			vc	VRR						
								100	7	EO						100	7	EO									
								100	7	EO						100	7	EO									
								100	7	EO						100	7	EO									
								90	6	EO						90	6	EO									
								71	7	EO						71	7	EO									
								100	7	EO						100	7	EO									
								100	7	EO						100	7	EO									
								63	7	EO						63	7	EO									
								32	3	OE						32	3	OE									
								80	6	EO						80	6	EO									
								71	7	EO						71	7	EO									
								63	5	EO						63	5	EO									
								90	7	EO						90	7	EO									
								71	7	EO						71	7	EO									
															63	4	EO										
															28	5	EO										
								110	8	EO						110	8	EO									
								100	8	EO						110	8	EO									
								160	9	EO						140	9	EO									
								140	9	EO						120	9	EO									
								120	8	EO						120	8	EO									
								100	8	EO						110	8	EO									
								100	7	EO						110	7	EO									
								250	16	EO						250	16	EO									
								250	16	EO						250	16	EO									
								400	9	EO	M					360	9	EO	M								
								320	9	EO	M					320	9	EO	M								
								200	9	EO	M					200	9	EO	M								
								110	4	EO						110	4	EO									
								220	10	EO						220	10	EO									
								220	10	EO						220	10	EO									
								80	5	EO						71	5	EO									
															50	3	EO										
															25	5	EO										
															10	2	EO										
															18	5	EO										
															63	4	EO										
															50	4	EO										
															50	3	EO										
															18	5	EO										
															18	5	EO										

HC = Coated carbide

B1

Cutting data for D4140

= Wet machining (E = emulsion, O = oil)
 = Dry machining possible (M = MQL, L = dry)
 Cutting data must be selected from Walter GPS

 v_c = Cutting speed
 VRR = Feed rate chart from page 286 onwards

* The classification of the machining groups can be found in the material group comparison table

Drilling depth		7 × D _c	
Designation		D4140	
Dia. range [mm]		12–37,99	
Material group	Overview of the main material groups and code letters	Binnell hardness HB Tensile strength R _m N/mm ² Machining group *	 P6001 WPP45C
			 P6003 WMP35

Material group	Overview of the main material groups and code letters	Binnell hardness HB	Tensile strength R _m N/mm ²	Machining group *	P6001 WPP45C				P6003 WMP35							
					vc	VRR			vc	VRR						
P	Non-alloyed steel	C ≤ 0.25%	125	430	P1	100	7	EO			100	7	EO			
		C > 0.25 ... ≤ 0.55%	190	640	P2	100	7	EO			100	7	EO			
		C > 0.25 ... ≤ 0.55%	210	710	P3	100	7	EO			100	7	EO			
		C > 0.55%	190	640	P4	90	6	EO			90	6	EO			
		C > 0.55%	300	1010	P5	71	7	EO			71	7	EO			
	Free-machining steel (short-chipping)	Annealed	220	750	P6	100	7	EO			100	7	EO			
	Low-alloy steel	Annealed	175	590	P7	100	7	EO			100	7	EO			
		Heat-treated	285	960	P8	63	7	EO			63	7	EO			
		Heat-treated	380	1280	P9	32	3	OE			32	3	OE			
		Heat-treated	430	1480	P10											
High-alloyed steel and high-alloyed tool steel	Annealed	200	680	P11	80	6	EO			80	6	EO				
	Hardened and tempered	300	1010	P12	71	7	EO			71	7	EO				
	Hardened and tempered	380	1280	P13	63	5	EO			63	5	EO				
Stainless steel	Ferritic/martensitic, annealed	200	680	P14	90	7	EO			90	7	EO				
	Martensitic, heat-treated	330	1110	P15	71	7	EO			71	7	EO				
M	Stainless steel	Austenitic, quench hardened	200	680	M1						63	4	EO			
		Austenitic, precipitation hardened (PH)	300	1010	M2											
		Austenitic/ferritic, duplex	230	780	M3											
K	Malleable cast iron	Ferritic	200	400	K1	110	8	EO			110	8	EO			
		Pearlitic	260	700	K2	110	8	EO			110	8	EO			
	Grey cast iron	Low tensile strength	180	200	K3	120	9	EO			120	9	EO			
		High tensile strength/austenitic	245	350	K4	120	9	EO			120	9	EO			
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	120	8	EO			120	8	EO			
		Pearlitic	265	700	K6	110	8	EO			110	8	EO			
	GGV (CGI)		230	400	K7	110	7	EO			110	7	EO			
N	Wrought aluminium alloys	Not hardenable	30	–	N1											
		Hardenable, hardened	100	340	N2											
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3											
		≤ 12% Si, hardenable, hardened	90	310	N4											
		> 12% Si, not hardenable	130	450	N5											
	Magnesium alloys		70	250	N6											
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	340	N7											
Brass, bronze, red brass		90	310	N8												
Cu alloys, short-chipping		110	380	N9												
High-tensile, Ampco		300	1010	N10												
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1					50	3	EO			
			Hardened	280	940	S2										
		Ni- or Co-based	Annealed	250	840	S3						25	5	EO		
			Hardened	350	1180	S4						10	2	EO		
			Cast	320	1080	S5						18	5	EO		
	Titanium alloys	Pure titanium	200	680	S6						63	4	EO			
		α and β alloys, hardened	375	1260	S7						50	4	EO			
Tungsten alloys		410	1400	S8						50	3	EO				
Molybdenum alloys		300	1010	S9						18	5	EO				
		300	1010	S10						18	5	EO				
H	Hardened steel	Hardened and tempered	50 HRC	–	H1											
		Hardened and tempered	55 HRC	–	H2											
		Hardened and tempered	60 HRC	–	H3											
	Hardened cast iron	Hardened and tempered	55 HRC	–	H4											
O	Thermoplastics	Without abrasive fillers			O1											
	Thermosets	Without abrasive fillers			O2											
	Plastic, glass-fibre-reinforced	GFRP			O3											
	Plastic, carbon-fibre-reinforced	CFRP			O4											
	Plastic, aramid-fibre-reinforced	AFRP			O5											
	Graphite (technical)		80 Shore			O6										

Cutting data for D4120

= Wet machining (E = emulsion, O = oil)
 = Dry machining possible (M = MQL, L = dry)
 Cutting data must be selected from Walter GPS

* The classification of the machining groups can be found in the material group comparison table

B1

Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R _m N/mm ²	Machining group *		Indexable insert geometry						
							Starting values for feed f [mm/rev]						
							A 57						
							Grade 1	Grade 2	Grade 3	Grade 4	Grade 5 Grade 6	Grade 7 Grade 8	
D _c [mm]													
13,5–16,4													
16,5–20,4													
20,5–24,4													
24,5–29,4													
29,5–42,4													
42,5–59,4													
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	0,05	0,06	0,06	0,09	0,12	0,13
		C > 0.25 ... ≤ 0.55%	Annealed	190	640	P2	●●	0,07	0,09	0,10	0,13	0,18	0,19
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	710	P3	●●	0,07	0,09	0,10	0,13	0,18	0,19
		C > 0.55%	Annealed	190	640	P4	●●	0,07	0,09	0,10	0,13	0,18	0,19
		C > 0.55%	Heat-treated	300	1010	P5	●●	0,07	0,09	0,10	0,13	0,18	0,19
	Low-alloy steel	Free-machining steel (short-chipping)	Annealed	220	750	P6	●● ●	0,07	0,09	0,10	0,13	0,18	0,19
		Annealed	175	590	P7	●●	0,08	0,10	0,12	0,15	0,20	0,21	
		Heat-treated	285	960	P8	●●	0,07	0,09	0,10	0,13	0,15	0,16	
		Heat-treated	380	1280	P9	●●	0,07	0,09	0,10	0,13	0,15	0,16	
		Heat-treated	430	1480	P10	●●	0,05	0,06	0,06	0,09	0,12	0,13	
High-alloyed steel and high-alloyed tool steel	Annealed	200	680	P11	●●	0,08	0,10	0,12	0,15	0,18	0,19		
	Hardened and tempered	300	1010	P12	●●	0,07	0,09	0,10	0,13	0,15	0,16		
	Hardened and tempered	380	1280	P13	●●	0,06	0,08	0,09	0,12	0,14	0,15		
Stainless steel	Ferritic/martensitic, annealed	200	680	P14	●●	0,07	0,09	0,10	0,13	0,15	0,16		
	Martensitic, heat-treated	330	1110	P15	●●	0,06	0,08	0,09	0,12	0,14	0,15		
M	Stainless steel	Austenitic, quench hardened	200	680	M1	●●	0,06	0,07	0,08	0,10	0,13	0,14	
		Austenitic, precipitation hardened (PH)	300	1010	M2	●●	0,06	0,07	0,08	0,10	0,13	0,14	
		Austenitic/ferritic, duplex	230	780	M3	●●	0,06	0,07	0,08	0,10	0,13	0,14	
K	Malleable cast iron	Ferritic	200	400	K1	●● ●	0,09	0,12	0,14	0,17	0,22	0,23	
		Pearlitic	260	700	K2	●● ●	0,07	0,09	0,11	0,14	0,19	0,20	
	Grey cast iron	Low tensile strength	180	200	K3	●● ●	0,10	0,13	0,15	0,18	0,23	0,24	
		High tensile strength/austenitic	245	350	K4	●● ●	0,08	0,10	0,12	0,15	0,20	0,21	
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	●● ●	0,10	0,13	0,15	0,18	0,23	0,24	
		Pearlitic	265	700	K6	●●	0,08	0,10	0,12	0,18	0,23	0,24	
GGV (CGI)		230	400	K7	●● ●	0,09	0,12	0,14	0,17	0,22	0,23		
N	Wrought aluminium alloys	Not hardenable	30	–	N1								
		Hardenable, hardened	100	340	N2	●●							
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3	●●							
		≤ 12% Si, hardenable, hardened	90	310	N4	●●							
		> 12% Si, not hardenable	130	450	N5	●● ●							
	Magnesium alloys		70	250	N6	●●							
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7							
		Brass, bronze, red brass		90	310	N8	●●						
		Cu alloys, short-chipping		110	380	N9	●● ●						
		High-tensile, Ampco		300	1010	N10	●● ●	0,06	0,07	0,08	0,10	0,13	0,14
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	●●						
			Hardened	280	940	S2	●●						
		Ni- or Co-based	Annealed	250	840	S3	●●						
			Hardened	350	1180	S4	●●						
			Cast	320	1080	S5	●●						
	Titanium alloys	Pure titanium	200	680	S6								
		α and β alloys, hardened	375	1260	S7	●●							
		β alloys	410	1400	S8	●●							
Tungsten alloys		300	1010	S9	●●	0,05	0,06	0,06	0,09	0,11	0,12		
Molybdenum alloys		300	1010	S10	●●	0,05	0,06	0,06	0,09	0,11	0,12		
H	Hardened steel	Hardened and tempered	50 HRC	–	H1	●●	0,05	0,06	0,06	0,09	0,10	0,10	
		Hardened and tempered	55 HRC	–	H2	●●	0,05	0,06	0,06	0,09	0,10	0,10	
		Hardened and tempered	60 HRC	–	H3								
	Hardened cast iron	Hardened and tempered	55 HRC	–	H4	●●	0,05	0,06	0,06	0,09	0,10	0,10	
O	Thermoplastics	Without abrasive fillers			O1	●● ●							
	Thermosets	Without abrasive fillers			O2	●● ●							
	Plastic, glass-fibre-reinforced	GFRP			O3								
	Plastic, carbon-fibre-reinforced	CFRP			O4								
	Plastic, aramid-fibre-reinforced	AFRP			O5								
	Graphite (technical)		80 Shore		O6	●● ●	0,09	0,12	0,14	0,17	0,22	0,23	

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application. Limited to 2 × D_c drilling depth. MQL (minimum quantity lubrication) or compressed air is recommended.

When using drills > 3 × D_c, the following reductions are recommended:
 > 3 × D_c: Cutting speed v_c - 20%, feed f - 30% when spot drilling, feed f - 50% when spot drilling on inclined surfaces.
 > 4 × D_c: Cutting speed v_c - 30%, feed f - 40% when spot drilling.

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

B1

Indexable insert geometry													Cutting material grade Outer insert [P484.P..]								
Starting values for feed f [mm/rev]													Starting values for cutting speed v _c [m/min]								
E 57						E 67						HC									
Grade 1	Grade 2	Grade 3	Grade 4	Grade 5 Grade 6	Grade 7 Grade 8	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5 Grade 6	Grade 7 Grade 8	WKP25S f [mm/rev]			WKP35S f [mm/rev]			WSP45 f [mm/rev]			
D _c [mm]						D _c [mm]						0,06	0,10	0,16	0,06	0,10	0,16	0,06	0,10	0,16	
13,5- 16,4	16,5- 20,4	20,5- 24,4	24,5- 29,4	29,5- 42,4	42,5- 59,4	13,5- 16,4	16,5- 20,4	20,5- 24,4	24,5- 29,4	29,5- 42,4	42,5- 59,4										
0,05	0,06	0,06	0,09	0,12	0,13	0,05	0,06	0,06	0,09	0,12	0,13	350	320		300	270		250	220		
0,06	0,07	0,08	0,11	0,17	0,18	0,06	0,07	0,08	0,11	0,17	0,18	260	240	220	220	200	180	170	160	150	
0,06	0,07	0,08	0,11	0,17	0,18							240	220	200	200	180	150	150	140	130	
0,06	0,07	0,08	0,11	0,17	0,18							220	200	180	180	150	140	140	130	120	
0,06	0,07	0,08	0,11	0,17	0,18							190	170	150	150	130	120	130	120	110	
0,06	0,07	0,08	0,11	0,17	0,18							220	200	180	180	150	140	140	130	120	
0,06	0,08	0,10	0,13	0,19	0,20	0,06	0,08	0,10	0,14	0,20	0,21	260	240	220	220	200	180	170	160	160	
0,06	0,07	0,08	0,11	0,14	0,15							230	210	190	190	170	140	140	130	120	
0,06	0,07	0,08	0,11	0,14	0,15							210	190	170	180	160	130	140	120	110	
0,05	0,06	0,06	0,09	0,11	0,12							190	170	160	170	140	130	140	120	110	
0,06	0,08	0,10	0,13	0,17	0,18	0,06	0,08	0,10	0,12	0,16	0,17	220	200	180	200	170	150	140	130	120	
0,06	0,07	0,08	0,11	0,14	0,15							200	170	150	180	140	130	130	120	110	
0,05	0,06	0,07	0,10	0,13	0,14							190	160	140	170	130	120	120	110	100	
0,06	0,07	0,08	0,11	0,14	0,15	0,06	0,07	0,08	0,11	0,14	0,15				190	170	150	140	130	120	
0,05	0,06	0,07	0,10	0,13	0,14	0,05	0,06	0,07	0,10	0,13	0,15				150	130	120	120	110	100	
0,06	0,07	0,08	0,10	0,13	0,14	0,06	0,07	0,09	0,12	0,14	0,15				220	200	180	180	170	150	
0,06	0,07	0,08	0,10	0,13	0,14	0,06	0,07	0,09	0,12	0,14	0,15				150	130	110	130	110	100	
0,06	0,07	0,08	0,10	0,13	0,14	0,06	0,07	0,09	0,12	0,14	0,15				120	100	80	100	80	70	
0,07	0,09	0,11	0,14	0,21	0,22	0,07	0,09	0,11	0,14	0,21	0,22	210	190	170	190	180	160	170	140	120	
0,05	0,07	0,08	0,11	0,18	0,19	0,05	0,07	0,09				190	140	120	130	120	110	130	120	110	
0,08	0,10	0,12	0,15	0,22	0,23	0,08	0,10	0,12	0,15	0,22	0,23	220	200	180	200	190	170	180	160	130	
0,06	0,08	0,09	0,12	0,19	0,20							180	150	130	150	130	110	150	130	110	
0,08	0,10	0,12	0,15	0,22	0,23	0,08	0,10	0,12	0,15	0,22	0,23	150	140	130	140	120	110	150	130	120	
0,06	0,08	0,09	0,12	0,22	0,23	0,06	0,08					140	130	120	120	110	100	120	110	110	
0,07	0,09	0,11	0,14	0,21	0,22	0,07	0,09	0,11	0,14	0,21	0,22	180	150	130	150	130	110	150	130	110	
0,07	0,09	0,10	0,12	0,17	0,18	0,07	0,09	0,11	0,12	0,17	0,18							450	450	450	
0,08	0,10	0,12	0,15	0,17	0,18	0,08	0,10	0,12	0,15	0,17	0,18							300	300	300	
0,08	0,10	0,12	0,15	0,17	0,18	0,08	0,10	0,12	0,15	0,17	0,18							250	250	250	
0,08	0,10	0,12	0,15	0,17	0,18	0,08	0,10	0,12	0,15	0,17	0,18							200	200	200	
0,08	0,10	0,12	0,15	0,17	0,18	0,08	0,10	0,12	0,15	0,17	0,18							300	300	300	
0,10	0,12	0,14	0,17	0,22	0,23	0,10	0,12	0,14	0,17	0,22	0,23							300	250	200	
0,10	0,12	0,14	0,17	0,22	0,23	0,10	0,12	0,14	0,17	0,22	0,23							350	300	250	
0,06	0,07	0,08	0,10	0,13	0,14	0,06	0,07	0,09	0,12	0,14	0,15				150	130	110	130	110	100	
0,05	0,06	0,07	0,10	0,13	0,14	0,05	0,06	0,07	0,10	0,13	0,14	100	100		100	100		90	90		
0,05	0,06	0,06	0,09	0,11	0,12	0,05	0,06	0,06	0,09	0,11	0,12	80	80		80	80		70	70		
0,05	0,06	0,07	0,10	0,12	0,13	0,05	0,06	0,07	0,10	0,12	0,13	60	60		60	60		50	50		
0,05	0,06	0,06	0,09	0,11	0,12	0,05	0,06	0,06	0,09	0,11	0,12	50	50		50	50		40	40		
0,05	0,06	0,06	0,09	0,11	0,12	0,05	0,06	0,06	0,09	0,11	0,12	50	50		50	50		40	40		
0,05	0,06	0,07	0,10	0,12	0,13	0,05	0,06	0,07	0,10	0,12	0,13				50	50		50	45		
0,05	0,06	0,06	0,09	0,11	0,12	0,05	0,06	0,06	0,09	0,11	0,12				50	50		40	40		
0,05	0,06	0,06	0,09	0,11	0,12	0,05	0,06	0,06	0,09	0,11	0,12	70	60								
0,05	0,06	0,06	0,09	0,11	0,12	0,05	0,06	0,06	0,09	0,11	0,12	70	60								
0,05	0,06	0,06	0,09	0,10	0,10							70	60	50							
0,05	0,06	0,06	0,09	0,10	0,10							60	50	50							
0,05	0,06	0,06	0,09	0,10	0,10							60	50	50							
0,16	0,18	0,20	0,25	0,30	0,30	0,16	0,18	0,20	0,25	0,30	0,30				400	400	400	400	400	400	
0,12	0,14	0,18	0,20	0,25	0,25	0,12	0,14	0,18	0,20	0,25	0,25	300	300	300	300	300	300	300	300	300	
0,07	0,09	0,11	0,14	0,21	0,22							300	250	200	250	200	150	250	200	150	

HC = Coated carbide

Cutting data for D3120

= Wet machining (E = emulsion, O = oil)
 = Dry machining possible (M = MQL, L = dry)
 Cutting data must be selected from Walter GPS

* The classification of the machining groups can be found in the material group comparison table

B1

Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R _m N/mm ²	Machining group *		Indexable insert geometry							
							Starting values for feed f [mm/rev]							
							A 57							
							Grade 1	Grade 2	Grade 3	Grade 4	Grade 5			
							D _c (mm)							
							16-20	21-25	26-30	31-36	37-42			
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	0,05	0,06	0,06	0,09	0,12		
		C > 0.25 ... ≤ 0.55%	Annealed	190	640	P2	●●	0,07	0,09	0,10	0,13	0,18		
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	710	P3	●●	0,07	0,09	0,10	0,13	0,18		
		C > 0.55%	Annealed	190	640	P4	●●	0,07	0,09	0,10	0,13	0,18		
		C > 0.55%	Heat-treated	300	1010	P5	●●	0,07	0,09	0,10	0,13	0,18		
		Free-machining steel (short-chipping)	Annealed	220	750	P6	●● ●	0,07	0,09	0,10	0,13	0,18		
		Low-alloy steel	Annealed	175	590	P7	●●	0,08	0,10	0,12	0,15	0,20		
			Heat-treated	285	960	P8	●●	0,07	0,09	0,10	0,13	0,15		
			Heat-treated	380	1280	P9	●●	0,07	0,09	0,10	0,13	0,15		
		High-alloyed steel and high-alloyed tool steel	Heat-treated	430	1480	P10	●●	0,05	0,06	0,06	0,09	0,12		
	Annealed		200	680	P11	●●	0,08	0,10	0,12	0,15	0,18			
		Hardened and tempered	300	1010	P12	●●	0,07	0,09	0,10	0,13	0,15			
		Hardened and tempered	380	1280	P13	●●	0,06	0,08	0,09	0,12	0,14			
	Stainless steel	Ferritic/martensitic, annealed	200	680	P14	●●	0,07	0,09	0,10	0,13	0,15			
		Martensitic, heat-treated	330	1110	P15	●●	0,06	0,08	0,09	0,12	0,14			
M	Stainless steel	Austenitic, quench hardened	200	680	M1	●●	0,06	0,07	0,08	0,10	0,13			
		Austenitic, precipitation hardened (PH)	300	1010	M2	●●	0,06	0,07	0,08	0,10	0,13			
		Austenitic/ferritic, duplex	230	780	M3	●●	0,06	0,07	0,08	0,10	0,13			
K	Malleable cast iron	Ferritic	200	400	K1	●● ●	0,09	0,12	0,14	0,17	0,22			
		Pearlitic	260	700	K2	●● ●	0,07	0,09	0,11	0,14	0,19			
	Grey cast iron	Low tensile strength	180	200	K3	●● ●	0,10	0,13	0,15	0,18	0,23			
		High tensile strength/austenitic	245	350	K4	●● ●	0,08	0,10	0,12	0,15	0,20			
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	●● ●	0,10	0,13	0,15	0,18	0,23			
		Pearlitic	265	700	K6	●●	0,08	0,10	0,12	0,18	0,23			
	GGV (CGI)	230	400	K7	●● ●	0,09	0,12	0,14	0,17	0,22				
N	Wrought aluminium alloys	Not hardenable	30	-	N1									
		Hardenable, hardened	100	340	N2	●●								
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3	●●								
		≤ 12% Si, hardenable, hardened	90	310	N4	●●								
		> 12% Si, not hardenable	130	450	N5	●● ●								
	Magnesium alloys		70	250	N6	●●								
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7								
Brass, bronze, red brass			90	310	N8	●●								
Cu alloys, short-chipping			110	380	N9	●● ●								
High-tensile, Ampco			300	1010	N10	●● ●	0,06	0,07	0,08	0,10	0,13			
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	●●							
			Hardened	280	940	S2	●●							
		Ni- or Co-based	Annealed	250	840	S3	●●							
			Hardened	350	1180	S4	●●							
		Cast	320	1080	S5	●●								
	Titanium alloys	Pure titanium		200	680	S6								
α and β alloys, hardened			375	1260	S7	●●								
β alloys			410	1400	S8	●●								
Tungsten alloys		300	1010	S9	●●	0,05	0,06	0,06	0,09	0,11				
Molybdenum alloys		300	1010	S10	●●	0,05	0,06	0,06	0,09	0,11				
H	Hardened steel	Hardened and tempered	50 HRC	-	H1	●●	0,05	0,06	0,06	0,09	0,10			
		Hardened and tempered	55 HRC	-	H2	●●	0,05	0,06	0,06	0,09	0,10			
		Hardened and tempered	60 HRC	-	H3									
	Hardened cast iron	Hardened and tempered	55 HRC	-	H4	●●	0,05	0,06	0,06	0,09	0,10			
O	Thermoplastics	Without abrasive fillers			O1	●● ●								
	Thermosets	Without abrasive fillers			O2	●● ●								
	Plastic, glass-fibre-reinforced	GFRP			O3									
	Plastic, carbon-fibre-reinforced	CFRP			O4									
	Plastic, aramid-fibre-reinforced	AFRP			O5									
	Graphite (technical)		80 Shore			O6	●● ●	0,09	0,12	0,14	0,17	0,22		

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application, limited to 2 × D_c drilling depth, MQL (minimum quantity lubrication) or compressed air is recommended.

When using drills > 3 × D, the following reductions are recommended:
 > 3 × D: Cutting speed v_c -20%, feed f -30% when spot drilling, feed f -50% when spot drilling on inclined surfaces.
 > 4 × D: Cutting speed v_c -30%, feed f -40% when spot drilling.

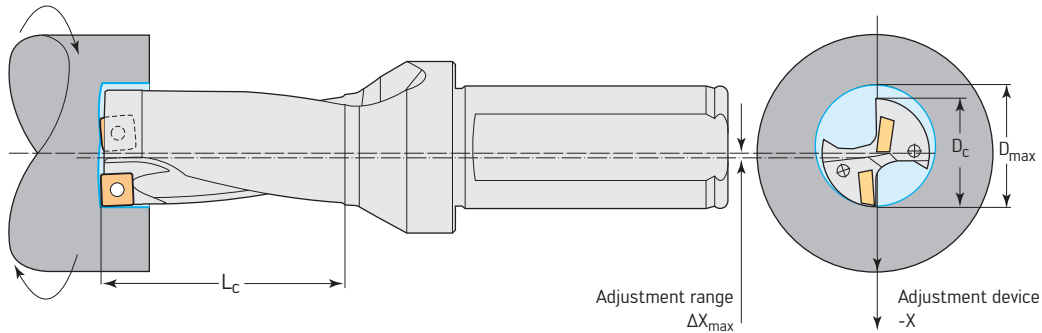
The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

B1

Indexable insert geometry											Cutting material grade														
Starting values for feed f [mm/rev]											Starting values for cutting speed v _c [m/min]														
E 57					E 67					HC									HW						
Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	WKP25S f (mm/rev)			WKP35S f (mm/rev)			WSP45S f (mm/rev)			WXP40 f (mm/rev)			WK40 f (mm/rev)			
D _c (mm)					D _c (mm)					0,06	0,10	0,16	0,06	0,10	0,16	0,06	0,10	0,16	0,06	0,10	0,16	0,06	0,10	0,16	
16-20	21-25	26-30	31-36	37-42	16-20	21-25	26-30	31-36	37-42	0,06	0,10	0,16	0,06	0,10	0,16	0,06	0,10	0,16	0,06	0,10	0,16	0,06	0,10	0,16	
0,05	0,06	0,06	0,09	0,12	0,05	0,06	0,06	0,09	0,12	350	320		300	270		250	220		200	180	160				
0,06	0,07	0,08	0,11	0,17	0,06	0,07	0,08	0,11	0,17	260	240	220	220	200	180	170	160	150	150	140	130				
0,06	0,07	0,08	0,11	0,17						240	220	200	200	180	150	150	140	130	150	140	120				
0,06	0,07	0,08	0,11	0,17						220	200	180	180	150	140	140	130	120	150	140	130				
0,06	0,07	0,08	0,11	0,17						190	170	150	150	130	120	130	120	110	120	110	100				
0,06	0,07	0,08	0,11	0,17						220	200	180	180	150	140	140	130	120	120	110	130				
0,06	0,08	0,10	0,13	0,19	0,06	0,08	0,10	0,14	0,20	260	240	220	220	200	180	170	160	150	140	130					
0,06	0,07	0,08	0,11	0,14						230	210	190	190	170	140	140	130	120	140	120	110				
0,06	0,07	0,08	0,11	0,14						210	190	170	180	160	130	140	120	110	140	120	90				
0,05	0,06	0,06	0,09	0,11						190	170	160	170	140	130	140	120	110	120	110	80				
0,06	0,08	0,10	0,13	0,17	0,06	0,08	0,10	0,12	0,16	220	200	180	200	170	150	140	130	120	130	120	110				
0,06	0,07	0,08	0,11	0,14						200	170	150	180	140	130	130	120	110	120	110	100				
0,05	0,06	0,07	0,10	0,13						190	160	140	170	130	120	120	110	100	110	100	80				
0,06	0,07	0,08	0,11	0,14	0,06	0,07	0,08	0,11	0,14				190	170	150	140	130	120	130	120	110				
0,05	0,06	0,07	0,10	0,13	0,05	0,06	0,07	0,10	0,13				150	130	120	120	110	100	110	100	90				
0,06	0,07	0,08	0,10	0,13	0,06	0,07	0,09	0,12	0,14				220	200	180	180	170	150	160	150	120				
0,06	0,07	0,08	0,10	0,13	0,06	0,07	0,09	0,12	0,14				150	130	110	130	110	100	110	100	75				
0,06	0,07	0,08	0,10	0,13	0,06	0,07	0,09	0,12	0,14				120	100	80	100	80	70	80	70	60				
0,07	0,09	0,11	0,14	0,21	0,07	0,09	0,11	0,14	0,21	210	190	170	190	180	160	170	140	120	160	140	140				
0,05	0,07	0,08	0,11	0,18	0,05	0,07	0,09			190	140	120	130	120	110	130	120	110	130	120	120				
0,08	0,10	0,12	0,15	0,22	0,08	0,10	0,12	0,15	0,22	220	200	180	200	190	170	180	160	130	160	140	120				
0,06	0,08	0,09	0,12	0,19						180	150	130	150	130	110	150	130	110	130	120	100				
0,08	0,10	0,12	0,15	0,22	0,08	0,10	0,12	0,15	0,22	150	140	130	140	120	110	150	130	120	130	120	110				
0,06	0,08	0,09	0,12	0,22	0,06	0,08				140	130	120	120	110	100	120	110	110	110	100	100				
0,07	0,09	0,11	0,14	0,21	0,07	0,09	0,11	0,14	0,21	180	150	130	150	130	110	150	130	110	130	120	100				
																						500	500		
0,07	0,09	0,10	0,12	0,17	0,07	0,09	0,11	0,12	0,17							450	450	450				450	400		
0,08	0,10	0,12	0,15	0,17	0,08	0,10	0,12	0,15	0,17							300	300	300				400	400		
0,08	0,10	0,12	0,15	0,17	0,08	0,10	0,12	0,15	0,17							250	250	250				300	300		
0,08	0,10	0,12	0,15	0,17	0,08	0,10	0,12	0,15	0,17							200	200	200				200	200		
0,08	0,10	0,12	0,15	0,17	0,08	0,10	0,12	0,15	0,17							300	300	300							
																						300	260		
0,10	0,12	0,14	0,17	0,22	0,10	0,12	0,14	0,17	0,22							300	250	200							
0,10	0,12	0,14	0,17	0,22	0,10	0,12	0,14	0,17	0,22							350	300	250							
0,06	0,07	0,08	0,10	0,13	0,06	0,07	0,09	0,12	0,14				150	130	110	130	110	100							
0,05	0,06	0,07	0,10	0,13	0,05	0,06	0,07	0,10	0,13	100	100		100	100		90	90		80	80	70	70	70		
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11	80	80		80	80		70	70		60	60	50	50	50		
0,05	0,06	0,07	0,10	0,12	0,05	0,06	0,07	0,10	0,12	60	60		60	60		50	50		50	50	40	40	40		
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11	50	50		50	50		40	40		40	40	35	30	30		
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11	50	50		50	50		40	40		40	40	35	30	30		
0,05	0,06	0,07	0,10	0,12	0,05	0,06	0,07	0,10	0,12				50	50		50	45								
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11				50	50		40	40								
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11				70	60											
0,05	0,06	0,06	0,09	0,11	0,05	0,06	0,06	0,09	0,11				70	60											
0,05	0,06	0,06	0,09	0,10									70	60	50										
0,05	0,06	0,06	0,09	0,10									60	50	50										
0,05	0,06	0,06	0,09	0,10									60	50	50										
0,16	0,18	0,20	0,25	0,30	0,16	0,18	0,20	0,25	0,30				400	400	400	400	400	400	400	400	400				
0,12	0,14	0,18	0,20	0,25	0,12	0,14	0,18	0,20	0,25	300	300	300	300	300	300	300	300	300	300	300	300				
0,07	0,09	0,11	0,14	0,21									300	250	200	250	200	150	250	200	150				

HC = Coated carbide

Drilling with X offset for D4120 using a stationary drill with rotating workpiece



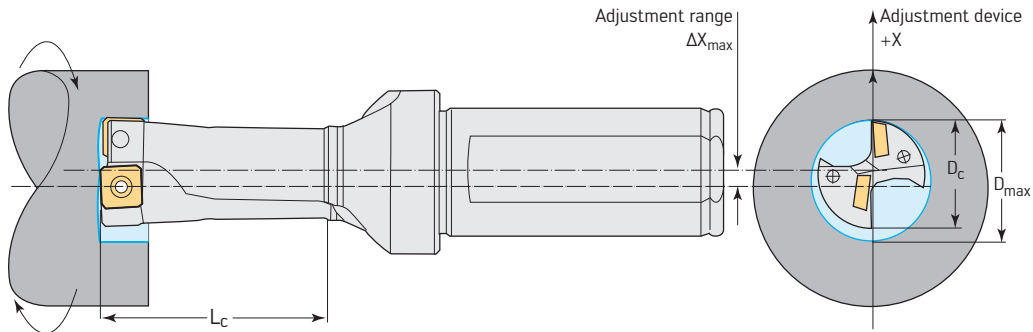
B1

Indexable insert size	D_c mm	$(L_c / D_c) \geq 4$		$(L_c / D_c) < 4$	
		ΔX mm	D_{max} mm	ΔX_{max} mm	D_{max} mm
1	13,5	0,5	14,5	0,7	14,9
	14	0,35	14,7	0,6	15,2
	14,5	0,3	15,1	0,5	15,5
	15	0,2	15,4	0,45	15,9
	15,5	0,15	15,8	0,35	16,2
	16	0,05	16,1	0,3	16,6
	16,4	0	-	0,2	16,8
	16,5	0,6	17,7	0,9	18,3
2	17	0,5	18	0,75	18,5
	17,5	0,35	18,2	0,6	18,7
	18	0,3	18,6	0,55	19,1
	18,5	0,2	18,9	0,45	19,4
	19	0,15	19,3	0,4	19,8
	19,5	0,07	19,64	0,3	20,1
	20	0	20	0,25	20,5
	20,4*	0	-	0,15	20,7
3	20,5	0,35	21,2	0,7	21,9
	21	0,3	21,6	0,6	22,2
	21,5	0,17	21,84	0,45	22,4
	22	0,15	22,3	0,45	22,9
	22,5	0,02	22,54	0,3	23,1
	23	0	-	0,3	23,6
	23,5*	0	-	0,18	23,86
	24*	0	-	0,15	24,3
4	24,4*	0	-	0	-
	24,5	0,5	25,5	0,85	26,2
	25	0,35	25,7	0,75	26,5
	25,5	0,25	26	0,6	26,7
	26	0,15	26,3	0,55	27,1
	26,5	0,05	26,6	0,4	27,3
	27	0	-	0,4	27,8
	27,5	0	-	0,25	28
5	28*	0	-	0,25	28,5
	28,5*	0	-	0,12	28,74
	29*	0	-	0,1	29,2
	29,4*	0	-	0	-

Indexable insert size	D_c mm	$(L_c / D_c) \geq 4$		$(L_c / D_c) < 4$	
		ΔX mm	D_{max} mm	ΔX_{max} mm	D_{max} mm
5	29,5	0,7	30,9	1,1	31,7
	30	0,6	31,2	1	32
	31	0,45	31,9	0,8	32,6
	32	0,3	32,6	0,7	33,4
	33	0,15	33,3	0,5	34
	34	0	-	0,4	34,8
	35*	0	-	0,3	35,6
	35,4*	0	-	0,2	35,8
	35,5	0,8	37,1	1,4	38,3
	36	0,7	37,4	1,25	38,5
	37	0,55	38,1	1,1	39,2
	38	0,4	38,8	0,95	39,9
6	39	0,25	39,5	0,8	40,6
	40	0,1	40,2	0,65	41,3
	41	0	-	0,55	42,1
	42	0	-	0,4	42,8
	42,4	0	-	0,3	43

* Outer insert with wiper edge (P4840P.) can only be used 2x.

Drilling with X offset for D3120 using a stationary drill with rotating workpiece



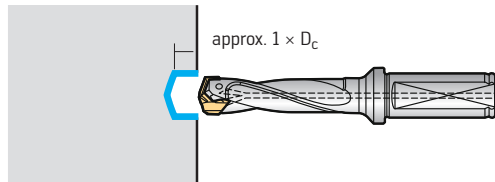
Indexable insert size	D_c mm	$(L_c / D_c) \geq 4$		$(L_c / D_c) < 4$	
		ΔX mm	D_{max} mm	ΔX_{max} mm	D_{max} mm
1	16	1,0	18,0	1,8	19,6
	17	0,8	18,6	1,5	20,0
	18	0,7	19,4	1,3	20,6
	19	0,5	20,0	1,0	21,0
	20	0,3	20,6	0,8	21,6
2	21	1,1	23,2	2,0	25,0
	22	0,9	23,8	1,7	25,4
	23	0,8	24,6	1,5	26,0
	24	0,6	25,2	1,2	26,4
	25	0,4	25,8	1,0	27,0
3	26	1,0	28,0	1,7	29,4
	27	0,8	28,6	1,4	29,8
	28	0,6	29,2	1,2	30,4
	29	0,4	29,8	0,9	30,8
	30	0,3	30,6	0,7	31,4
4	31	1,1	33,2	1,9	34,8
	32	0,9	33,8	1,6	35,2
	33	0,7	34,4	1,4	35,8
	34	0,5	35,0	1,1	36,2
	35	0,3	35,6	0,8	36,6
5	36	0,2	36,4	0,6	37,2
	37	0,9	38,8	1,8	40,6
	38	0,7	39,4	1,5	41,0
	39	0,5	40,0	1,2	41,4
	40	0,5	41,0	1,2	42,4
	41	0,4	41,8	0,9	42,8
	42	0,2	42,4	0,6	43,2

D4140 drilling strategy

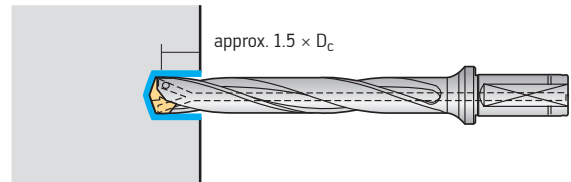
Drilling depth $> 5 \times D_c - 10 \times D_c$

Pilot hole
D4140-01../D4140-03..

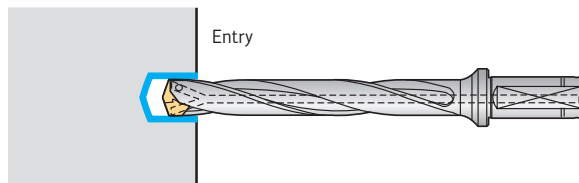
B1



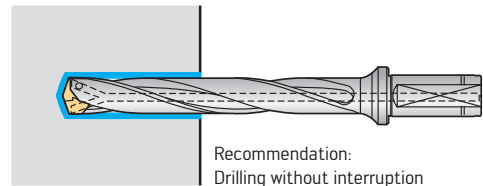
$n = -20\%$
 $f = -50\%$



max. approx. 500 rpm



$n = 100\%$
 $f = 100\%$



VRR: Feed rate charts for D4140

VRR	Feed f [mm] for diameter [mm]				
	12	15	20	25	40
2	0,052	0,058	0,067	0,075	0,094
3	0,077	0,087	0,10	0,11	0,14
4	0,10	0,12	0,13	0,15	0,19
5	0,13	0,14	0,17	0,19	0,24
6	0,15	0,17	0,20	0,22	0,28
7	0,18	0,20	0,23	0,26	0,33
8	0,21	0,23	0,27	0,30	0,38
9	0,23	0,26	0,30	0,34	0,42
10	0,26	0,29	0,33	0,37	0,47
12	0,31	0,35	0,40	0,45	0,57
16	0,41	0,46	0,53	0,60	0,75

Cutting data HSS drills

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.





Material group	Overview of the main material groups and code letters * The classification of the machining groups can be found in the material group comparison table			Drilling depth			~8 × Dc			
				Designation			DA110 Perform			
				Standard			DIN 338			
			Cooling			External coolant				
			Grade			WZ90AJ				
			Dia. range (mm)			1–16				
			Brinell hardness HB	Tensile strength R _m N/mm ²	Machining group *	vc	VRR			
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	29	9	EO	
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	29	10	EO	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	23	10	EO	
		C > 0.55%	Annealed	190	640	P4	22	8	EO	
		C > 0.55%	Heat-treated	300	1010	P5	15	8	EO	
	Low-alloy steel	Free-machining steel (short-chipping)	Annealed	220	750	P6	29	10	EO	
		Annealed		175	590	P7	29	10	EO	
		Heat-treated		285	960	P8	13	8	EO	
		Heat-treated		380	1280	P9	9	3	EO	
	High-alloyed steel and high-alloyed tool steel	Heat-treated		430	1480	P10				
		Annealed		200	680	P11	9	4	EO	
		Hardened and tempered		300	1010	P12	15	8	EO	
	Stainless steel	Hardened and tempered		380	1280	P13	7	3	EO	
		Ferritic/martensitic, annealed		200	680	P14	24	10	EO	
		Martensitic, heat-treated		330	1110	P15	15	8	EO	
M	Stainless steel	Austenitic, quench hardened		200	680	M1	5	4	OE	
		Austenitic, precipitation hardened (PH)		300	1010	M2	8	5	EO	
		Austenitic/ferritic, duplex		230	780	M3				
K	Malleable cast iron	Ferritic		200	400	K1	22	12	EO	
		Pearlitic		260	700	K2	17	10	EO	
	Grey cast iron	Low tensile strength		180	200	K3	28	12	EO	
		High tensile strength/austenitic		245	350	K4	22	12	EO	
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	25	12	EO	
		Pearlitic		265	700	K6	17	10	EO	
	GGV (CGI)			230	400	K7	20	10	EO	
N	Wrought aluminium alloys	Not hardenable		30	-	N1				
		Hardenable, hardened		100	340	N2				
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3				
		≤ 12% Si, hardenable, hardened		90	310	N4				
		> 12% Si, not hardenable		130	450	N5				
	Magnesium alloys			70	250	N6				
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7	41	5	EO	
Brass, bronze, red brass			90	310	N8					
Cu alloys, short-chipping			110	380	N9	51	12	EO		
High-tensile, Ampco			300	1010	N10					
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	4	3	OE	
			Hardened	280	940	S2				
		Ni- or Co-based	Annealed	250	840	S3				
			Hardened	350	1180	S4				
			Cast	320	1080	S5				
	Titanium alloys	Pure titanium		200	680	S6				
		α and β alloys, hardened		375	1260	S7				
		β alloys		410	1400	S8				
	Tungsten alloys			300	1010	S9				
	Molybdenum alloys			300	1010	S10				
H	Hardened steel	Hardened and tempered		50 HRC	-	H1				
		Hardened and tempered		55 HRC	-	H2				
		Hardened and tempered		60 HRC	-	H3				
	Hardened cast iron	Hardened and tempered		55 HRC	-	H4				
O	Thermoplastics	Without abrasive fillers				O1	25	12	EO	
	Thermosets	Without abrasive fillers				O2	28	8		L
	Plastic, glass-fibre-reinforced	GFRP				O3				
	Plastic, carbon-fibre-reinforced	CFRP				O4				
	Plastic, aramid-fibre-reinforced	AFRP				O5				
	Graphite (technical)			80 Shore			O6			

B1

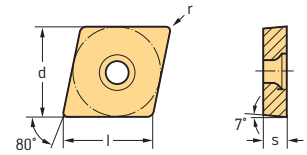


Product range overview of indexable inserts for counterboring and precision boring






Machining	Insert shape		Description	Page
Counterboring Precision boring		S	For counterboring	290
		C	For counterboring For precision boring	289 291
		W	For counterboring	290
		T	For precision boring	293

**Positive rhombic 80°
CCMT / CCGT**
Tiger-tec® Silver



Indexable inserts

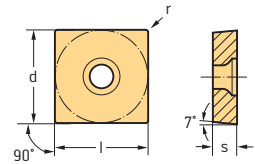
Designation	r mm	l mm	P					M				K		N		S		
			HC					HC				HC	HC	HC				
			WPP10S	WPP20S	WPP30S	WMP20S	WPP20	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S
 CCMT060202-E47	0,2	6,45	☒	☒					☒	☒							☒	☒
CCMT060204-E47	0,4	6,45	☒	☒		☒			☒	☒							☒	☒
CCMT09T302-E47	0,2	9,67	☒	☒					☒	☒							☒	☒
CCMT09T304-E47	0,4	9,67	☒	☒					☒	☒							☒	☒
CCMT09T308-E47	0,8	9,67	☒	☒					☒	☒							☒	☒
CCMT120404-E47	0,4	12,9	☒	☒					☒	☒							☒	☒
CCMT120408-E47	0,8	12,9	☒	☒					☒	☒							☒	☒
CCMT120412-E47	1,2	12,9	☒	☒					☒	☒							☒	☒
CCMT160508-E47	0,8	16,12	☒						☒								☒	
 CCMT060204-MM4	0,4	6,45				☒	☒		☒	☒							☒	☒
CCMT060208-MM4	0,8	6,45				☒	☒		☒	☒							☒	☒
CCMT09T304-MM4	0,4	9,67				☒	☒		☒	☒							☒	☒
CCMT09T308-MM4	0,8	9,67				☒	☒		☒	☒							☒	☒
CCMT120404-MM4	0,4	12,90				☒	☒		☒	☒							☒	☒
CCMT120408-MM4	0,8	12,90				☒	☒		☒	☒							☒	☒
 CCGT060204-MM4	0,4	6,45							☒	☒							☒	☒
CCGT060208-MM4	0,8	6,45							☒	☒							☒	☒
CCGT09T304-MM4	0,4	9,67							☒	☒							☒	☒
CCGT09T308-MM4	0,8	9,67							☒	☒							☒	☒
CCGT120408-MM4	0,8	12,90							☒	☒							☒	☒

See the ISO 1832 designation key for dimensions

HC = Coated carbide

B2

Positive square
SCMT / SCGT
Tiger-tec® Silver



Indexable inserts

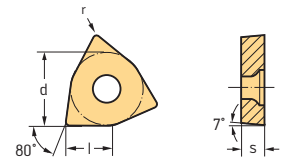
Designation	r mm	l mm	P					M			K		N	S					
			HC					HC			HC		HC	HC					
			WPP01	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S
SCMT060204-E47 SCMT09T304-E47 SCMT09T308-E47 SCMT120408-E47	0,4	6,35			☒				☒	☒	☒					☒	☒	☒	
	0,4	9,53			☒				☒	☒	☒					☒	☒	☒	
	0,8	9,53			☒				☒	☒	☒					☒	☒	☒	
	0,8	12,7			☒				☒	☒	☒					☒	☒	☒	
SCMT09T304-MM4 SCMT09T308-MM4 SCMT120408-MM4	0,4	9,53					☒	☒	☒	☒	☒					☒	☒	☒	
	0,8	9,53					☒	☒	☒	☒	☒					☒	☒	☒	
	0,8	12,7					☒	☒	☒	☒	☒					☒	☒	☒	
SCGT09T304-MM4 SCGT09T308-MM4 SCGT120408-MM4	0,4	9,53						☒	☒	☒	☒				☒	☒	☒		
	0,8	9,53						☒	☒	☒	☒				☒	☒	☒		
	0,8	12,7						☒	☒	☒	☒				☒	☒	☒		

See the ISO 1832 designation key for dimensions

HC = Coated carbide

B2

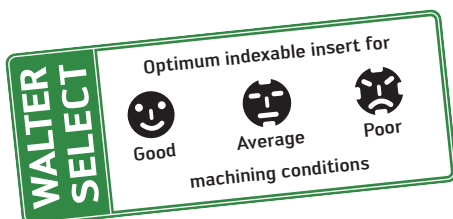
Positive Trigon 80°
WCMT
Tiger-tec® Silver



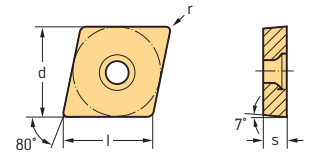
Indexable inserts

Designation	l mm	r mm	P			M			K		N	S			
			HC			HC			HC		HC	HC			
			WPP10S	WPP20S	WPP30S	WMP20S	WSM10S	WSM20S	WSM30S	WKK10S	WKK20S	WNN10	WSM10S	WSM20S	WSM30S
WCMT030204-E47 WCMT040204-E47 WCMT06T304-E47 WCMT06T308-E47 WCMT080408-E47	3,5	0,4	☒				☒						☒	☒	☒
	4,3	0,4	☒				☒						☒	☒	☒
	6,5	0,4	☒				☒						☒	☒	☒
	6,5	0,8	☒				☒						☒	☒	☒
	8,7	0,8	☒				☒						☒	☒	☒

HC = Coated carbide



Positive rhombic 80°
CCGT / CCMT
Tiger-tec® Silver

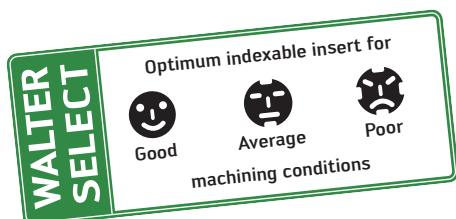


Indexable inserts

Designation	l mm	r mm	P					M					K		N	S			
			HE		HC			HC					HC		HC	HC			
			WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WSM10	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S
CCGT060201-FN2	6,45	0,1													☺				
CCGT060202-FN2	6,45	0,2													☺				
CCGT060204-FN2	6,45	0,4													☺				
CCGT09T301-FN2	9,67	0,1													☺				
CCGT09T302-FN2	9,67	0,2													☺				
CCGT09T304-FN2	9,67	0,4													☺				
CCGT09T308-FN2	9,67	0,8													☺				
CCGT120404-FN2	12,90	0,4													☺				
CCGT120408-FN2	12,90	0,8													☺				
CCGT060201-FM2	6,45	0,1																	☹
CCGT060202-FM2	6,45	0,2								☹								☹	☹
CCGT060204-FM2	6,45	0,4								☹								☹	☹
CCGT09T301-FM2	9,67	0,1																	☹
CCGT09T302-FM2	9,67	0,2								☹								☹	☹
CCGT09T304-FM2	9,67	0,4								☹	☹							☹	☹
CCGT09T308-FM2	9,67	0,8								☹	☹							☹	☹
CCGT120404-FM2	12,90	0,4									☹								☹
CCGT120408-FM2	12,90	0,8									☹								☹
CCGT060201-MN2	6,45	0,1													☹				
CCGT060202-MN2	6,45	0,2								☹					☹	☹			
CCGT060204-MN2	6,45	0,4								☹					☹	☹			
CCGT09T301-MN2	9,67	0,1													☹				
CCGT09T302-MN2	9,67	0,2								☹					☹	☹			
CCGT09T304-MN2	9,67	0,4								☹					☹	☹			
CCGT09T308-MN2	9,67	0,8								☹					☹	☹			
CCGT120402-MN2	12,90	0,2													☹				
CCGT120404-MN2	12,90	0,4													☹				
CCGT120408-MN2	12,90	0,8													☹				
CCMT060202-FP4	6,45	0,2	☹	☹	☹														
CCMT060204-FP4	6,45	0,4	☹	☹	☹														
CCMT060208-FP4	6,45	0,8	☹	☹	☹														
CCMT09T302-FP4	9,67	0,2	☹	☹	☹														
CCMT09T304-FP4	9,67	0,4	☹	☹	☹														
CCMT09T308-FP4	9,67	0,8	☹	☹	☹														
CCMT120404-FP4	12,90	0,4	☹	☹	☹														
CCMT120408-FP4	12,90	0,8	☹	☹	☹														

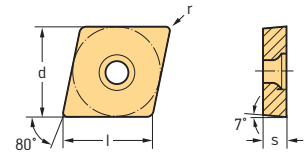
See the ISO 1832 designation key for dimensions

HE = Coated cermet
 HC = Coated carbide




B2

Positive rhombic 80°
CCGT / CCMT
Tiger-tec® Silver



Indexable inserts

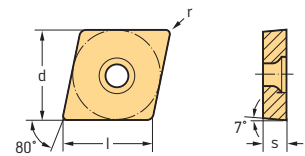
Designation	l mm	r mm	P					M				K		N		S			
			HE		HC			HC				HC		HC		HC			
			WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WSM10	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S
 CCMT060204-FM6	6,45	0,4																	
CCMT060208-FM6	6,45	0,8																	
CCMT09T304-FM6	9,67	0,4																	
CCMT09T308-FM6	9,67	0,8																	
CCMT120408-FM6	12,90	0,8																	

See the ISO 1832 designation key for dimensions


 HE = Coated cermet
 HC = Coated carbide

B2

Positive rhombic 80°
CCMT
Cermet



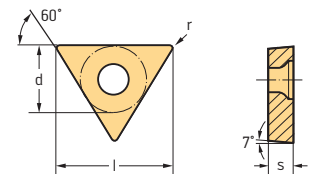
Indexable inserts

Designation	l mm	r mm	P					M				K		N		S				
			HE		HC			HC				HC		HC HW		HC				
			WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM20S	WSM30S	WSM10	WSM20	WSM30	WKK10S	WKK20S	WXN10	WK1	WSM20S	WSM30S	WSM10
 CCMT060202-FP4	6,45	0,2																		
CCMT060204-FP4	6,45	0,4																		
CCMT060208-FP4	6,45	0,8																		
CCMT09T302-FP4	9,67	0,2																		
CCMT09T304-FP4	9,67	0,4																		
CCMT09T308-FP4	9,67	0,8																		
CCMT120404-FP4	12,90	0,4																		
CCMT120408-FP4	12,90	0,8																		

See the ISO 1832 designation key for dimensions

 HE = Coated cermet
 HC = Coated carbide
 HW = Uncoated carbide

Positive triangular 60° TCGT / TCMT Tiger-tec® Silver

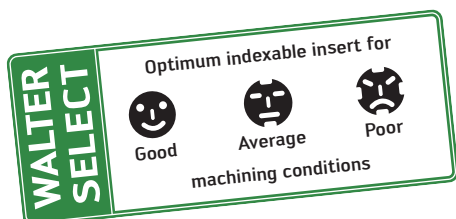


Indexable inserts

Designation	l mm	r mm	P					M					K		N	S			
			HC					HC					HC		HC	HC			
			WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WSM21	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S
TCGT06T101-FN2	6,62	0,1													☺				
TCGT06T102-FN2	6,62	0,2													☺				
TCGT06T104-FN2	6,62	0,4													☺				
TCGT090202-FN2	9,37	0,2													☺				
TCGT090204-FN2	9,37	0,4													☺				
TCGT110202-FN2	10,74	0,2													☺				
TCGT110204-FN2	10,74	0,4													☺				
TCGT16T304-FN2	16,50	0,4													☺				
TCGT16T308-FN2	16,50	0,8													☺				
TCGT06T101-FM2	6,62	0,1									☹								
TCGT06T102-FM2	6,62	0,2									☹								
TCGT06T104-FM2	6,62	0,4									☹					☺			
TCGT090202-FM2	9,37	0,2									☹								☹
TCGT090204-FM2	9,37	0,4									☹								☹
TCGT110201-FM2	10,74	0,1									☹								☹
TCGT110202-FM2	10,74	0,2									☹					☺			☹
TCGT110204-FM2	10,74	0,4									☹					☺			☹
TCGT16T302-FM2	16,50	0,2									☹								☹
TCGT16T304-FM2	16,50	0,4									☹					☺			☹
TCGT16T308-FM2	16,50	0,8									☹					☺			☹
TCMT06T102-FM4	6,62	0,2										☹							
TCMT06T104-FM4	6,62	0,4										☹							
TCMT090202-FM4	9,37	0,2									☹	☹					☹	☹	☹
TCMT090204-FM4	9,37	0,4									☹	☹					☹	☹	☹
TCMT090208-FM4	9,37	0,8									☹	☹					☹	☹	☹
TCMT110202-FM4	10,74	0,2									☹	☹					☹	☹	☹
TCMT110204-FM4	10,74	0,4									☹	☹					☹	☹	☹
TCMT110208-FM4	10,74	0,8									☹	☹					☹	☹	☹
TCMT16T302-FM4	16,50	0,2									☹	☹					☹	☹	☹
TCMT16T304-FM4	16,50	0,4									☹	☹					☹	☹	☹
TCMT16T308-FM4	16,50	0,8									☹	☹					☹	☹	☹

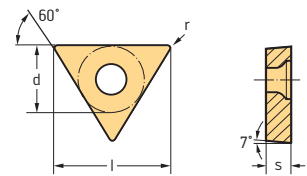
See the ISO 1832 designation key for dimensions

HC = Coated carbide



B 2

Positive triangular 60°
TCGT / TCMT
Tiger-tec® Silver



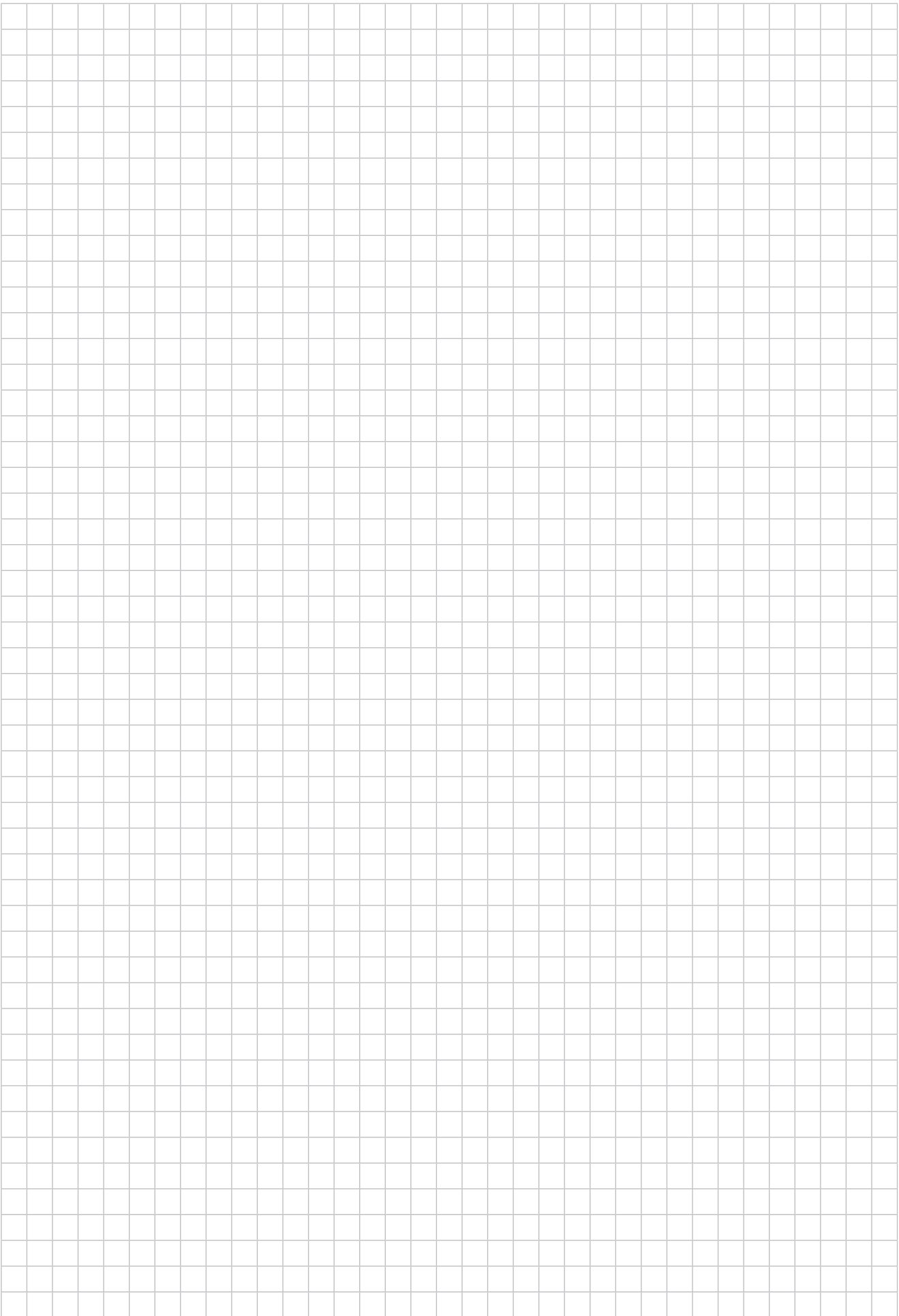
Indexable inserts

Designation	l mm	r mm	P					M					K		N		S			
			HC					HC					HC	HC	HC					
			WEP10	WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM30S	WSM21	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S
TCMT06T102-FP4	6,62	0,2																		
TCMT06T104-FP4	6,62	0,4	☺																	
TCMT090202-FP4	9,37	0,2																		
TCMT090204-FP4	9,37	0,4	☺																	
TCMT090208-FP4	9,37	0,8	☺																	
TCMT110202-FP4	10,74	0,2																		
TCMT110204-FP4	10,74	0,4	☺																	
TCMT110208-FP4	10,74	0,8	☺																	
TCMT16T302-FP4	16,50	0,2																		
TCMT16T304-FP4	16,50	0,4	☺																	
TCMT16T308-FP4	16,50	0,8	☺																	
TCMT110204-FM6	10,74	0,4																		
TCMT110208-FM6	10,74	0,8																		
TCMT16T304-FM6	16,50	0,4																		
TCMT16T308-FM6	16,50	0,8																		
TCGT110201-MN2	10,74	0,1																		
TCGT110202-MN2	10,74	0,2																		
TCGT110204-MN2	10,74	0,4																		
TCGT16T302-MN2	16,50	0,2																		
TCGT16T304-MN2	16,50	0,4																		
TCGT16T308-MN2	16,50	0,8																		

See the ISO 1832 designation key for dimensions

HC = Coated carbide

B2

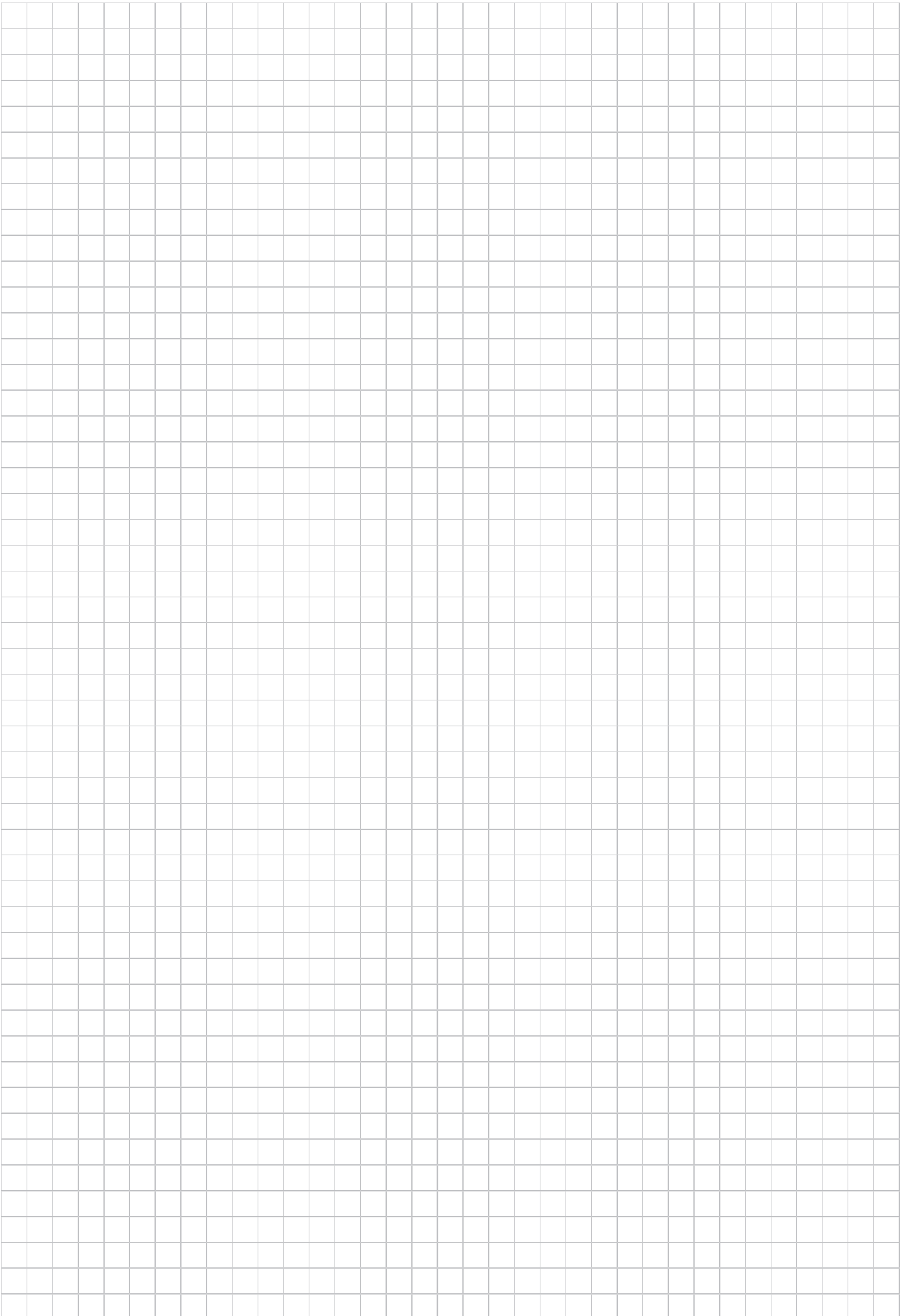


B2

Product range overview of drilling and reaming tools with indexable inserts for counterboring and precision boring

Machining			
Diameter range D _c [mm]	20–153	20–153	150–640
Designation	B3220 Walter Boring ^{MEDIUM}	B3220 Walter Boring ^{MEDIUM}	B3220 / B3224 Walter Boring ^{MAXI}
Shank (page)	ScrewFit 298 NCT 298	Walter Capto™ 298	Walter Capto™ 300 NCT 302

Machining					
Diameter range D _c [mm]	2–45	2–45	15–203	33–153	150–640
Designation	B3230 Walter Precision ^{MIN}	B4030 Walter Precision ^{MIN}	B3230 Walter Precision ^{MEDIUM}	B4030/B4031 Walter Precision ^{MEDIUM}	B3230 / B3234 Walter Precision ^{MAXI}
Shank (page)	Walter Capto™ 304 ScrewFit 304 NCT 324	Walter Capto™ 304 ScrewFit 304 NCT 324	Walter Capto™ 314 ScrewFit 312 NCT 330	Walter Capto™ 316/318 ScrewFit 316 NCT 332	Walter Capto™ 320 NCT 334
Balance type	Standard	Balanceable	Standard	Standard	Standard
Analogue/digital	Analogue	Analogue	Analogue	Analogue	Analogue
Indexable inserts	TC..06T1.. TC..1102..	TC..06T1.. TC..1102..	CP..0502.. CC..0602.. TC..06T1.. TC..1102..	CP..0502.. CC0..602.. TC..06T1..	CC..0602.. TC..1102..

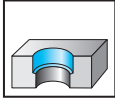


B 2

Two flute boring tool B3220

Walter Boring^{MEDIUM}

D_c 41-153	$\kappa=90^\circ$	Z=2
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	P	M	K	N	S	H	O
B3220	●	●	●	●	●		

Tool	Basic body designation	d ₁ mm	D _c mm	l ₄ mm	l _{4,1} ARS mm
ScrewFit 	B3220G.T36.41-55.Z2	T36	41-55	65	65,3
	B3220G.C4.041-056.Z2	C4		80	80,3
	B3220G.N4.041-056.Z2	N4		80	80,3
	B3220G.T45.55-70.Z2	T45	55-70	80	80,3
B3220G.C5.055-073.Z2	C5	100		100,3	
Walter Capto™ 	B3220G.N5.055-073.Z2	N5	70-90	100	100,3
	B3220G.N6.070-093.Z2	C6		110	110,3
	B3220G.C6.070-93.Z2	N6	90-110	100	100,3
	B3220G.C8.090-113.Z2	C8		110	110,3
NCT 	B3220G.N8.090-113.Z2	N8	110-133	100	100,3
	B3220G.C8.110-153.Z2	C8		110	110,3
	B3220G.N8.110-153.Z2	N8	130-153	100	100,3
	B3220G.C8.110-153.Z2	C8		110	110,3
B3220G.N8.110-153.Z2	N8		100	100,3	

For assembly aids, see page D 154 of the Walter General Catalogue 2017

© ARS cartridge for axial and radial offset roughing. For this, a cartridge © of the complete tool with CC insert seat must be replaced.

l_{4,1} For the projection length when using the ARS counterboring method, see "Technical information"

Bodies and assembly parts are included in the scope of delivery.

B2



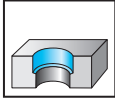
Cartridge ① designation	ARS cartridge ② designation	Type 	Complete tool designation with C insert
EB207-208.CC09	EB207-208-1.CC09 (ARS)	CC09	B3220.T36.41-55.Z2.CC09*
			B3220.C4.041-055.Z2.CC09
			B3220.N4.041-055.Z2.CC09
EB209-210.CC09	EB209-210-1.CC09 (ARS)		B3220.T45.55-70.Z2.CC09*
			B3220.C5.055-070.Z2.CC09
			B3220.N5.055-070.Z2.CC09
EB211-212.CC12	EB211-212-1.CC12 (ARS)	CC12 CC16	B3220.C6.070-090.Z2.CC12 B3220.N6.070-090.Z2.CC12
EB211-212.CC16	EB211-212-1.CC16 (ARS)		B3220.C6.070-090.Z2.CC16 B3220.N6.070-090.Z2.CC16
EB213-214.CC12 EB213-214.CC16	EB213-214-1.CC12 (ARS) EB213-214-1.CC16 (ARS)		B3220.C8.090-110.Z2.CC12 B3220.C8.090-110.Z2.CC16
			B 3220.N8.090-110.Z2.CC12 B 3220.N8.090-110.Z2.CC16
EB215.CC12 EB215.CC16	EB215-1.CC12 (ARS) EB215-1.CC16 (ARS)		B3220.C8.110-133.Z2.CC12 B3220.C8.110-133.Z2.CC16
			B 3220.N8.110-133.Z2.CC12 B 3220.N8.110-133.Z2.CC16
EB216.CC12 EB216.CC16	EB216-1.CC12 (ARS) EB216-1.CC16 (ARS)		B3220.C8.130-153.Z2.CC12 B3220.C8.130-153.Z2.CC16
			B 3220.N8.130-153.Z2.CC12 B 3220.N8.130-153.Z2.CC16

* Important: The projection of the cartridges must be sufficient for chip removal when used with extension in blind-hole bores.

Two flute boring tool B3223 / B3224

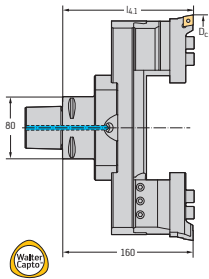
Walter Boring^{MEDIUM}

D_c 150- 640	$\kappa=90^\circ$	Z = 2
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	P	M	K	N	S	H	O
B3223 / B3224	●●	●●	●●	●	●●		

Tool	Basic body designation	d_1 mm	D_c mm	l_4 mm	$l_{4,1}$ ARS mm	Bridge designation
Walter Capto™						
		C8	150–220	160	160,3	EB134AL
		N8		150	150,3	
		C8	220–290	160	160,3	EB135AL
	B3223G.C8.150-640 B3224G.C8.150-640	N8		150	150,3	
		C8	290–360	160	160,3	EB136AL
		N8		150	150,3	
		C8	360–430	160	160,3	EB137AL
		N8		150	150,3	



For assembly aids, see page D 154 of the Walter General Catalogue 2017

⊙ ARS cartridge for axial and radial offset roughing. For this, a cartridge ⊙ of the complete tool with CC insert seat must be replaced.

$l_{4,1}$ For the projection length when using the ARS counterboring method, see "Technical information"

Bodies and assembly parts are included in the scope of delivery.



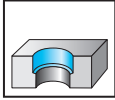
Cartridge holder designation	Cartridge ① designation	ARS cartridge ② designation	 Type	Complete tool designation with C insert
EB122	EB217.CC12 EB217.CC16	EB217-1.CC12 (ARS) EB217-1.CC16 (ARS)	CC12 CC16	B3220.C8.150-220.Z2.CC12 B3220.C8.150-220.Z2.CC16
				B3224.C8.150-220.Z2.CC12 B3224.C8.150-220.Z2.CC16
				B 3220.N8.150-220.Z2.CC12 B 3220.N8.150-220.Z2.CC16
				B 3224.N8.150-220.Z2.CC12 B 3224.N8.150-220.Z2.CC16
				B3220.C8.220-290.Z2.CC12 B3220.C8.220-290.Z2.CC16
				B3224.C8.220-290.Z2.CC12 B3224.C8.220-290.Z2.CC16
				B3220.N8.220-290.Z2.CC12 B3220.N8.220-290.Z2.CC16
				B3224.N8.220-290.Z2.CC12 B3224.N8.220-290.Z2.CC16
				B3220.C8.290-360.Z2.CC12 B3220.C8.290-360.Z2.CC16
				B3224.C8.290-360.Z2.CC12 B3224.C8.290-360.Z2.CC16
				B3220.N8.290-360.Z2.CC12 B3220.N8.290-360.Z2.CC16
				B3224.N8.290-360.Z2.CC12 B3224.N8.290-360.Z2.CC16
				B3220.C8.360-430.Z2.CC12 B3220.C8.360-430.Z2.CC16
				B3224.C8.360-430.Z2.CC12 B3224.C8.360-430.Z2.CC16

B 2

Two flute boring tool B3223 / B3224

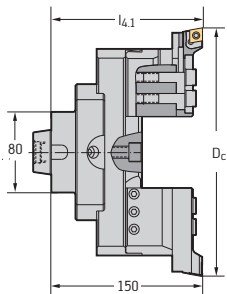
Walter Boring^{MEDIUM}

D_c 150- 640	$\kappa=90^\circ$	$Z=2$
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	P	M	K	N	S	H	O
B3223 / B3224	●	●	●	●	●		

Tool	Basic body designation	d_1 mm	D_c mm	l_4 mm	$l_{4,1}$ ARS mm	Bridge designation
NCT		N8	360-430	150	150,3	EB137AL
		C8	430-500	160	160,3	EB138AL
		N8		150	150,3	
	B3223G.N8.150-640 B3224G.N8.150-640	C8	500-570	160	160,3	EB139AL
		N8		150	150,3	
		C8	570-640	160	160,3	EB140AL
		N8		150	150,3	



B3223G.N8.150-640
B3224G.N8.150-640

For assembly aids, see page D 154 of the Walter General Catalogue 2017

⊙ ARS cartridge for axial and radial offset roughing. For this, a cartridge ⊙ of the complete tool with CC insert seat must be replaced.

$l_{4,1}$ For the projection length when using the ARS counterboring method, see "Technical information"

Bodies and assembly parts are included in the scope of delivery.



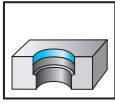
Cartridge holder designation	Cartridge ① designation	ARS cartridge ② designation	 Type	Complete tool designation with C insert
EB122	EB217.CC12 EB217.CC16	EB217-1.CC12 (ARS) EB217-1.CC16 (ARS)	CC12 CC16	B3220.N8.360-430.Z2.CC12 B3220.N8.360-430.Z2.CC16
				B3224.N8.360-430.Z2.CC12 B3224.N8.360-430.Z2.CC16
				B3220.C8.430-500.Z2.CC12 B3220.C8.430-500.Z2.CC16
				B3224.C8.430-500.Z2.CC12 B3224.C8.430-500.Z2.CC16
				B3220.N8.430-500.Z2.CC12 B3220.N8.430-500.Z2.CC16
				B3224.N8.430-500.Z2.CC12 B3224.N8.430-500.Z2.CC16
				B3220.C8.500-570.Z2.CC12 B3220.C8.500-570.Z2.CC16
				B3224.C8.500-570.Z2.CC12 B3224.C8.500-570.Z2.CC16
				B3220.N8.500-570.Z2.CC12 B3220.N8.500-570.Z2.CC16
				B3224.N8.500-570.Z2.CC12 B3224.N8.500-570.Z2.CC16
				B3220.C8.570-640.Z2.CC12 B3220.C8.570-640.Z2.CC16
				B3224.C8.570-640.Z2.CC12 B3224.C8.570-640.Z2.CC16
				B3220.N8.570-640.Z2.CC12 B3220.N8.570-640.Z2.CC16
				B 3224.N8.570-640.Z2.CC12 B 3224.N8.570-640.Z2.CC16

B 2

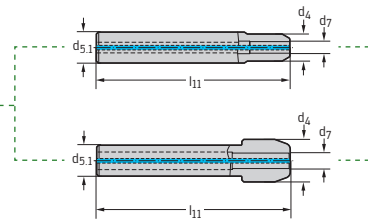
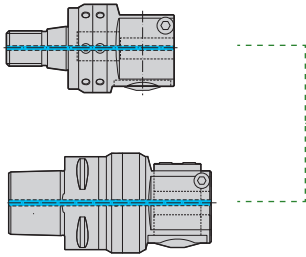
Precision boring tool B3230 / B4030

Walter Precision^{MINI}

D_c 2,0-9,5	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B3230	●	●	●	●	●		
B4030	●	●	●	●	●	●	●

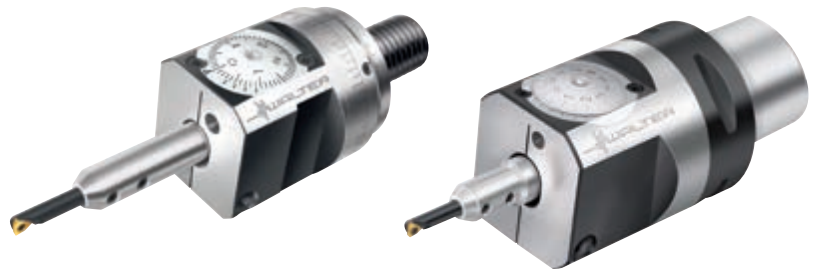
Basic body
Extension


B2

Tool	Basic body designation	d_1 mm	D_c mm	Designation	d_7 mm	d_4 mm	$d_{5.1}$ mm	l_{11} mm
ScrewFit 	B4030G.T45.02-20.Z1 Balanceable	T45	2,0-3,5	EB501	4	12	12	85
			3,0-6,0	EB502	5	12	12	85
			5,8-7,5	EB503	6	22	12	85
			7,3-9,5					
Walter Capto™ 	B3230G.C6.02-45.Z1 Standard B4030G.C6.02-45.Z1 Balanceable	C6	2,0-3,5	EB101	4	12	16	100
			3,0-6,0	EB102	5	13	16	100
			5,8-7,5	EB103	6	14	16	100
			7,3-9,5					

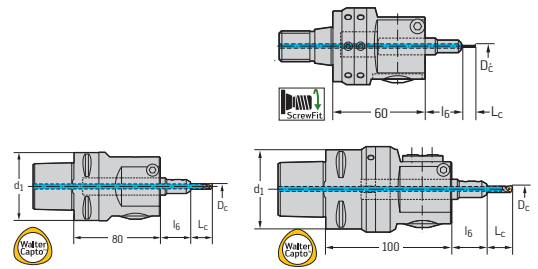
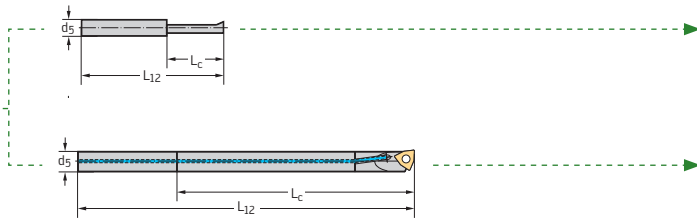
For assembly aids, see page D 1.
Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Designation	$d_1 = T45$		$d_1 = C6$	
		Designation	Tightening torque	Designation	Tightening torque
	Clamping screw for basic body	FS1084 (SW 4)	6,0 Nm	FS1085 (SW 5)	10 Nm
	Clamping screw for extension	FS2039 (SW 4)	5,0 Nm	FS2040 (SW 5)	10 Nm
	Clamping screw for extension	FS1110 (SW 2)	1,0 Nm	FS1110 (SW 2)	1,0 Nm
	Clamping screw for indexable insert with $D_c = 5.8-9.5$ mm	FS2245 (Torx 6IP)	0,5 Nm	FS2245 (Torx 6IP)	0,6 Nm
	Clamping screw for balancing rings	FS2037 (SW 2)		FS2246 (SW 2) for B4030	0,5 Nm



Insert holder

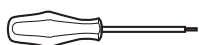
Complete tool



Designation	d ₅ mm	L ₁₂ mm	Type	L _c min mm	L _c max mm	l ₆ mm	kg	Complete tool designation	Complete tool, balanceable designation
EB301 WK10*	4	30	—	9	—	30–53	0,8		B4030.T45.02-03.Z1.WK10
EB302 WK10*	4	35	—	14	—	30–53	0,8		B4030.T45.03-06.Z1.WK10
EB303.WC02.CS	5	85	WC . . 0201 . .	20	60	30–53	0,8		B4030.T45.06-07.Z1.WC02
EB304.WC02.CS	6	95	WC . . 0201 . .	20	65	30–53	0,8		B4030.T45.07-09.Z1.WC02
EB301 WK10*	4	30	—	9	—	28–60	1,8	B3230.C6.02-03.Z1.WK10	B4030.C6.02-03.Z1.WK10
EB302 WK10*	4	35	—	14	—	28–60	1,8	B3230.C6.03-06.Z1.WK10	B4030.C6.03-06.Z1.WK10
EB303.WC02.CS	5	85	WC . . 0201 . .	20	60	28–60	1,8	B3230.C6.06-07.Z1.WC02	B4030.C6.06-07.Z1.WC02
EB304.WC02.CS	6	95	WC . . 0201 . .	20	65	28–60	1,8	B3230.C6.07-09.Z1.WC02	B4030.C6.07-09.Z1.WC02

* Solid carbide boring bar
 EB . . . CS = Solid carbide shank
 Advantages: Increased rigidity, reduced deflection, neutralised vibrations

Accessories



Screwdriver for clamping screw
FS2086 (Torx 6IP)



DIN 911 hex key
SW 2 / SW 4 / SW 5



One-piece boring bar
For D_c 5.8–9.5, see page B 548

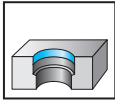
For torque screwdriver with interchangeable blades, see page B 702.

B2

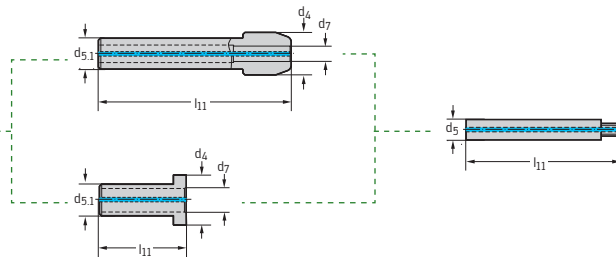
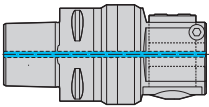
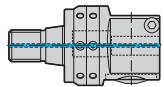
Precision boring tool B3230 / B4030

Walter Precision^{MINI}

D_c 8,8–20	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B3230	●	●	●	●	●		
B4030	●	●	●	●	●	●	●

Basic body
Extension


B2

Tool
**Basic body
designation**
 d_1
mm

 D_c
mm

Designation
 d_7
mm

 d_4
mm

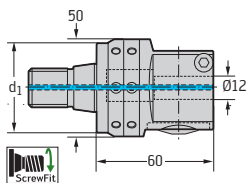
 $d_{5,1}$
mm

 l_{11}
mm

Designation
 d_5
mm

 l_{11}
mm

ScrewFit


 B4030G.T45.02-20.Z1
Balanceable

T45

8,8–12,5

EB504

8

14

12

30

EB106

8

47

EB107.CS

8

87

11,8–14,5

EB505

10

14

12

30

EB108

10

52

EB109.CS

10

97

13,8–16,5

—

EB508

12

77

EB509.CS

12

97

15,8–20,0

—

EB508

12

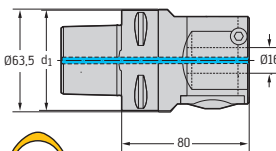
77

EB509.CS

12

97

Walter Capto™


 B3230G.C6.02-45.Z1
Standard

C6

8,8–12,5

EB104

8

22

16

100

EB106

8

47

EB107.CS

8

87

11,8–14,5

EB105

10

24

16

100

EB108

10

52

EB109.CS

10

97

13,8–16,5

EB506

12

17

16

36

EB508

12

77

EB509.CS

12

97

15,8–20,0

EB507

14

17

16

36

EB510

14

87

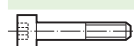
EB511.CS

14

117

EB... CS = Solid carbide shank

Advantages: Increased rigidity, reduced deflection, neutralised vibrations

Assembly parts
 $d_1 = T45$
 $d_1 = C6$

 Clamping screw
for basic body

Designation
Tightening torque
Designation
Tightening torque

FS1084 (SW 4)

6,0 Nm

FS1085 (SW 5)

10 Nm


 Clamping screw
for extension

FS2039 (SW 4)

5,0 Nm

FS2240

10 Nm


 Clamping screw
for extension

FS1110 (SW 2)

1,0 Nm

FS1111 (SW 3)

2,5 Nm


 Clamping screw
for indexable insert

 \varnothing 8,8–12,5 mm
= FS2147 (Torx 6IP)
 \varnothing 11,8–20 mm
= FS2148 (Torx 6IP)

0,6 Nm

 \varnothing 8,8–12,5 mm
= FS2147 (Torx 6IP)
 \varnothing 11,8–20 mm
= FS2148 (Torx 6IP)

0,6 Nm

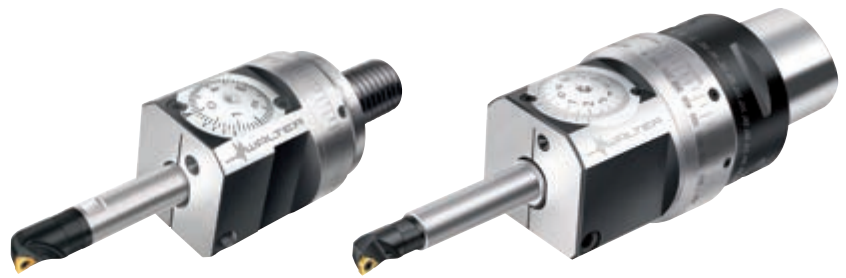

 Clamping screw
for balancing rings

FS2037 (SW 2)

0,5 Nm

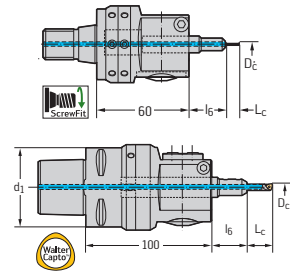
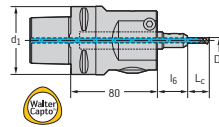
 FS2246 (SW 2)
for B4030

0,5 Nm



Insert holder

Complete tool



Designation	l ₁₂ mm	Type	L _c min mm	L _c max mm	l ₆ mm	kg	Complete tool designation	Complete tool, balanceable designation
EB305.TC06	18	TC...0601...	18	33	2	0,8		B4030.T45.09-12.Z1.TC06.S*
			35	73	2	0,8		B4030.T45.09-12.Z1.TC06.L*
EB306.TC06	23	TC...0601...	23	43	2	0,8		B4030.T45.12-14.Z1.TC06.S
			45	68	2	0,8		B4030.T45.12-14.Z1.TC06.L
EB307.TC06	23	TC...0601...	45	68	—	0,8		B4030.T45.14-16.Z1.TC06.S
			65	88	—	0,9		B4030.T45.14-16.Z1.TC06.L
EB512.TC06	23	TC...0601...	45	68	—	0,8		B4030.T45.16-20.Z1.TC06.S
			65	88	—	0,9		B4030.T45.16-20.Z1.TC06.L
EB305.TC06	18	TC...0601...	20	35	34-60	1,9	B3230.C6.09-12.Z1.TC06.S*	B4030.C6.09-12.Z1.TC06.S*
			20	73	34-60	1,9	B3230.C6.09-12.Z1.TC06.L*	B4030.C6.09-12.Z1.TC06.L*
EB306.TC06	23	TC...0601...	25	45	34-60	1,9	B3230.C6.12-14.Z1.TC06.S	B4030.C6.12-14.Z1.TC06.S
			25	70	34-60	1,9	B3230.C6.12-14.Z1.TC06.L	B4030.C6.12-14.Z1.TC06.L
EB307.TC06	23	TC...0601...	34	60	2	1,9	B3230.C6.14-16.Z1.TC06.S	B4030.C6.14-16.Z1.TC06.S
			54	80	2	1,9	B3230.C6.14-16.Z1.TC06.L	B4030.C6.14-16.Z1.TC06.L
EB512.TC06	23	TC...0601...	44	70	2	1,9	B3230.C6.16-20.Z1.TC06.S	B4030.C6.16-20.Z1.TC06.S
			74	100	2	1,9	B3230.C6.16-20.Z1.TC06.L	B4030.C6.16-20.Z1.TC06.L

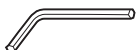
* When using the TC...06T1...-FN2 indexable insert, manually shorten the indexable insert clamping screw by 1 mm.

Accessories



Screwdriver for clamping screw

FS2086 (Torx 6IP)



DIN 911 hex key

SW 2 / SW 4 / SW 5



One-piece boring bar

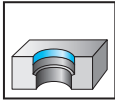
For D_c 8.8-20, see page B 548

For torque screwdriver with interchangeable blades, see page B 702.

B2

Precision boring tool B3230 / B4030

Walter Precision^{MINI}

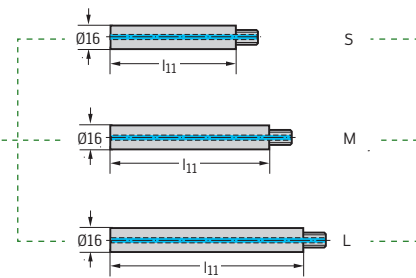
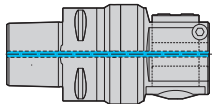


D_c 17,8– 45,5	$\kappa=93^\circ$	$Z=1$
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	P	M	K	N	S	H	O
B3230 / B4030	●	●	●	●	●	●	●

Basic body

Extension



B2

Tool	Basic body designation	d_1 mm	D_c mm	Designation	l_{11} mm	
Walter Capto™	B3230G.C6.02-45.Z1 Standard	63,5	17,8–22,5	EB110	88	(S)
				EB111.CS	108	(M)
				EB112.CS	168	(L)
			21,8–25,5	EB110	88	(S)
				EB111.CS	108	(M)
				EB112.CS	168	(L)
			24,8–28,5	EB110	88	(S)
				EB111.CS	108	(M)
				EB112.CS	168	(L)
	B4030G.C6.02-45.Z1 Balanceable	68	27,8–32,5	EB110	88	(S)
				EB111.CS	108	(M)
				EB112.CS	168	(L)
			31,8–36,5	EB110	88	(S)
				EB111.CS	108	(M)
				EB112.CS	168	(L)
			35,8–40,5	EB110	88	(S)
				EB111.CS	108	(M)
				EB112.CS	168	(L)
39,8–45,5	EB110	88	(S)			
	EB111.CS	108	(M)			
	EB112.CS	168	(L)			

EB...CS = Solid carbide shank

Advantages: Increased rigidity, reduced deflection, neutralised vibrations

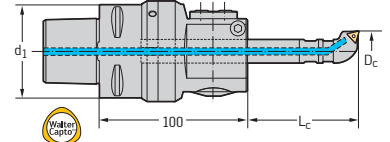
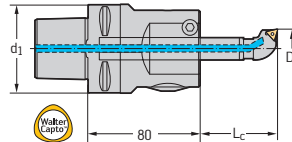
Assembly parts

		Designation	Tightening torque
	Clamping screw for basic body	FS1085 (SW 5)	10 Nm
	Clamping screw for extension	FS2040	10 Nm
	Clamping screw for indexable insert	FS1454 (Torx 8IP)	1,2 Nm
	Clamping screw for balancing rings	FS2246 for B4030	



Insert holder

Complete tool



Designation	l ₁₂ mm	Type	L _c min mm	L _c max mm	kg	Complete tool designation	Complete tool, balanceable designation
EB308.TC11	27	TC . . 1102 . .	55	80	1,8	B3230.C6.18-22.Z1.TC11.S	B4030.C6.18-22.Z1.TC11.S
			75	100	2,0	B3230.C6.18-22.Z1.TC11.M	B4030.C6.18-22.Z1.TC11.M
			135	160	2,2	B3230.C6.18-22.Z1.TC11.L	B4030.C6.18-22.Z1.TC11.L
EB309.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.C6.22-25.Z1.TC11.S	B4030.C6.22-25.Z1.TC11.S
			75	100	2,5	B3230.C6.22-25.Z1.TC11.M	B4030.C6.22-25.Z1.TC11.M
			135	160	2,7	B3230.C6.22-25.Z1.TC11.L	B4030.C6.22-25.Z1.TC11.L
EB310.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.C6.25-28.Z1.TC11.S	B4030.C6.25-28.Z1.TC11.S
			75	100	2,5	B3230.C6.25-28.Z1.TC11.M	B4030.C6.25-28.Z1.TC11.M
			135	160	2,7	B3230.C6.25-28.Z1.TC11.L	B4030.C6.25-28.Z1.TC11.L
EB311.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.C6.28-32.Z1.TC11.S	B4030.C6.28-32.Z1.TC11.S
			75	100	2,5	B3230.C6.28-32.Z1.TC11.M	B4030.C6.28-32.Z1.TC11.M
			135	160	2,7	B3230.C6.28-32.Z1.TC11.L	B4030.C6.28-32.Z1.TC11.L
EB312.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.C6.32-36.Z1.TC11.S	B4030.C6.32-36.Z1.TC11.S
			75	100	2,5	B3230.C6.32-36.Z1.TC11.M	B4030.C6.32-36.Z1.TC11.M
			135	160	2,7	B3230.C6.32-36.Z1.TC11.L	B4030.C6.32-36.Z1.TC11.L
EB313.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.C6.36-40.Z1.TC11.S	B4030.C6.36-40.Z1.TC11.S
			75	100	2,5	B3230.C6.36-40.Z1.TC11.M	B4030.C6.36-40.Z1.TC11.M
			135	160	2,7	B3230.C6.36-40.Z1.TC11.L	B4030.C6.36-40.Z1.TC11.L
EB314.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.C6.40-45.Z1.TC11.S	B4030.C6.40-45.Z1.TC11.S
			75	100	2,5	B3230.C6.40-45.Z1.TC11.M	B4030.C6.40-45.Z1.TC11.M
			135	160	2,7	B3230.C6.40-45.Z1.TC11.L	B4030.C6.40-45.Z1.TC11.L

For assembly aids, see page D 1.
Bodies and assembly parts are included in the scope of delivery.

Accessories



Screwdriver

FS1483 (Torx 8IP)



DIN 911 hex key

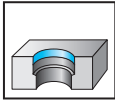
SW 5

For torque screwdriver with interchangeable blades, see page B 702.


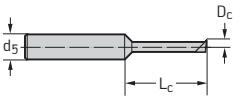
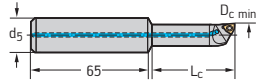
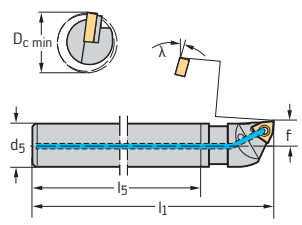
B2

EB . . . boring bar

κ=93°

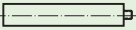


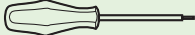


Tool

	Designation	D _c min mm	d ₅ mm	f mm	l ₁ mm	l ₅ mm	L _c mm	λ	 Type
One-piece 	EB301 WK10	2,0	4	1,0	30	21			VHM WK10
	EB302 WK10	3,0	4	1,5	35	21			
One-piece 	EB513	5,8	16				17		WC . . 0201 . .
	EB514.CS	5,8	16				30		
	EB515	7,3	16				21		
	EB516.CS	7,3	16				36		
	EB551	8,8	16				28		
	EB552.CS	8,8	16				47		
	EB553	11,8	16				35		
	EB554.CS	11,8	16				60		
	EB555	13,8	16				42		
	EB556.CS	13,8	16				72		
With insert holder 	EB303.WC02.CS	5,8	5	2,9	85	70			WC . . 0201 . .
	EB304.WC02.CS	7,3	6	3,65	95	75			
	EB353.TC06	8,8	8	4,5	65	47		-10°	
	EB354.TC06.CS	8,8	8	4,5	105	87		-10°	TC . . 06T1 . .
	EB355.TC06	11,8	10	6,0	75	52		-7°	
	EB356.TC06.CS	11,8	10	6,0	120	97		-7°	
	EB357.TC06	13,8	10	6,9	75	52		-5°	
	EB358.TC06.CS	13,8	10	6,9	120	97		-5°	
	EB359.TC11	17,8	16	8,9	115	88		-3°	
	EB360.TC11.CS	17,8	16	8,9	135	108		-3°	
	EB361.TC11.CS	17,8	16	8,9	195	168		-3°	
	EB362.TC11	21,8	16	10,9	115	88		-2,5°	
	EB363.TC11.CS	21,8	16	10,9	135	108		-2,5°	
	EB364.TC11.CS	21,8	16	10,9	195	168		-2,5°	TC . . 1102 . .
	EB365.TC11	24,8	16	12,4	115	88		0°	
	EB366.TC11.CS	24,8	16	12,4	135	108		0°	
	EB367.TC11.CS	24,8	16	12,4	195	168		0°	
	EB368.TC11	27,8	16	13,9	115	88		0°	
	EB369.TC11.CS	27,8	16	13,9	135	108		0°	
	EB370.TC11.CS	27,8	16	13,9	195	168		0°	
	EB371.TC11	31,8	16	15,9	115	88		0°	
	EB372.TC11.CS	31,8	16	15,9	135	108		0°	
	EB373.TC11.CS	31,8	16	15,9	195	168		0°	
	EB374.TC11	35,8	16	17,9	115	88		0°	
	EB375.TC11.CS	35,8	16	17,9	135	108		0°	
	EB376.TC11.CS	35,8	16	17,9	195	168		0°	
	EB377.TC11	39,8	16	19,9	115	88		0°	
	EB378.TC11.CS	39,8	16	19,9	135	108		0°	
	EB379.TC11.CS	39,8	16	19,9	195	168		0°	

Bodies and assembly parts are included in the scope of delivery.



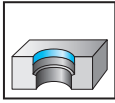
Assembly parts					Accessories
 Extension	 Insert holder	 Clamping screw for indexable insert	Tightening torque	 Screwdriver	
		FS2245 (Torx 6IP)	0,6 Nm	FS2086 (Torx 6IP)	
		FS2147 (Torx 6IP)			
		FS2148 (Torx 6IP)	0,9 Nm	FS2086 (Torx 6IP)	
—	EB303.WC02.CS	FS2245 (Torx 6IP)	0,6 Nm	FS2086 (Torx 6IP)	
—	EB304.WC02.CS				
EB106	EB305.TC06*	FS2147 (Torx 6IP)	0,6 Nm	FS2086 (Torx 6IP)	
EB107.CS	EB305.TC06*				
EB108	EB306.TC06				
EB109.CS	EB306.TC06	FS2148 (Torx 6IP)	0,9 Nm		
EB108	EB307.TC06				
EB109.CS	EB307.TC06				
EB110	EB308.TC11	FS1454 (Torx 8IP)	1,2 Nm	FS1483 (Torx 8IP)	
EB111.CS	EB308.TC11				
EB112.CS	EB308.TC11				
EB110	EB309.TC11				
EB111.CS	EB309.TC11				
EB112.CS	EB309.TC11				
EB110	EB310.TC11				
EB111.CS	EB310.TC11				
EB112.CS	EB310.TC11				
EB110	EB311.TC11				
EB111.CS	EB311.TC11				
EB112.CS	EB311.TC11				
EB110	EB312.TC11				
EB111.CS	EB312.TC11				
EB112.CS	EB312.TC11				
EB110	EB313.TC11				
EB111.CS	EB313.TC11				
EB112.CS	EB313.TC11				
EB110	EB314.TC11				
EB111.CS	EB314.TC11				
EB112.CS	EB314.TC11				

EB ... CS = Solid carbide shank

Advantages: Increased rigidity, reduced deflection, neutralised vibrations

* When using the WC ... 0302 ...-PM2 indexable insert, manually shorten the indexable insert clamping screw by 1 mm.

Precision boring tool B3230

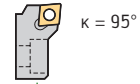
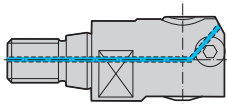
Walter Precision^{MEDIUM}


D_c 15-33	$\kappa=95^\circ$	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B3230	●	●	●	●	●	●	●

Basic body

Cartridge with C insert



B2

Tool	Basic body designation	d_1 mm	D_c mm	Cartridge no.	Designation	Type
ScrewFit 	B3230G.T14.15-21.Z1	T14	15-18,5	1		
			18-21,5	2		
	B3230G.T18.20-26.Z1	T18	20-26	1	EB321.CP05	CP .. 0502 ..
	B3230G.T22.26-33.Z1	T22	26-33	1	EB323.CP05	CP .. 0502 ..

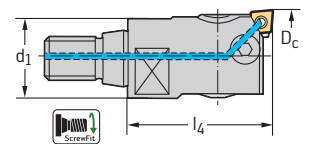
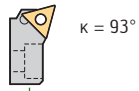
For assembly aids, see page D 1.
Bodies and assembly parts are included in the scope of delivery.

Assembly parts	T14	T18	T22
	15-21,5	for D_c min-max [mm]	
	15-21,5	20-26	26-33
	FS2244 (SW 1,5)	FS2251 (Torx 9IP)	FS1082 (SW 2,5)
Tightening torque			2,0 Nm
	FS2066 (Torx 7IP)	FS1457 (Torx 9IP)	FS2080 (Torx 15IP)
Tightening torque	0,9 Nm	0,9 Nm	2,0 Nm
	FS2245 (Torx 6IP)	CP .. 0502 .. = FS2084 (Torx 7IP) 0,8 Nm TC .. 06T1 .. = FS2148 (Torx 6IP) 0,6 Nm	
Tightening torque	0,6 Nm		



Cartridge with W insert

Complete tool



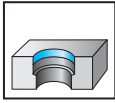
Designation	Indexable insert Type	d ₁ mm	l ₄ mm	kg	Complete tool designation with C insert	Complete tool designation with T insert/W insert
EB549.WC02	WC . . 0201 . .	14	30	0,10		B3230.T14.15-18.Z1.WC02
EB550.WC02	WC . . 0201 . .	14	30	0,10		B3230.T14.18-21.Z1.WC02
EB341.TC06	TC . . 06T1 . .	18	35	0,10	B3230.T18.20-26.Z1.CP05	B3230.T18.20-26.Z1.TC06
EB343.TC06	TC . . 06T1 . .	22	40	0,15	B3230.T22.26-33.Z1.CP05	B3230.T22.26-33.Z1.TC06

B2

Accessories		T14	T18	T22
		15–21,5	for D _c min–max [mm]	
		20–26	26–33	
	Screwdriver for clamping screw	FS2086 (Torx 6IP)	CP . . 0502 . . = FS2088 (Torx 7IP) TC . . 06T1 . . = FS2086 (Torx 6IP)	
	DIN 911 hex key for clamping screw	SW 1,5		SW 2,5
	Key for cartridge clamping	FS2088 (Torx 7IP)	FS1486 (Torx 20IP)	FS1485 (Torx 15IP)

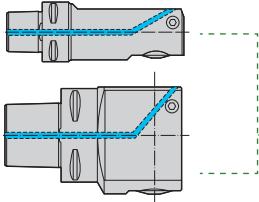
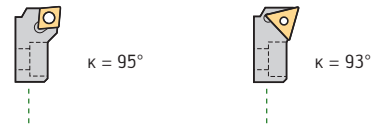
For torque screwdriver with interchangeable blades, see page B 702.

Precision boring tool B3230

Walter Precision^{MEDIUM}


D _c 20–203	κ=95°	κ=93°	Z=1
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	P	M	K	N	S	H	O
B3230	●	●	●	●	●	●	●

Basic body

Cartridge with C and W insert

B2

Tool	Basic body designation	d ₁ mm	D _c mm	Cartridge no.	Designation			
						Type	Designation	Type
Walter Capto™ 	B3230G.C3.20-38.Z1	C3	20–26,5	1	EB321.CP05	CP .. 0502 ..	EB341.TC06	TC .. 06T1 ..
			(28) ¹ 26–32,5*	2	EB523.CP05		EB536.TC06	
			32–38,5*	3	EB524.CP05		EB537.TC06	
	B3230G.C3.26-47.Z1	C3	26–33,5	1	EB323.CP05	CP .. 0502 ..	EB343.TC06	TC .. 06T1 ..
			(34) ¹ 33–40,5*	2	EB525.CP05		EB538.TC06	
			40–47,5*	3	EB526.CP05		EB539.TC06	
	B3230G.C3.33-57.Z1	C3	33–41,5	1	EB325.CP05	CP .. 0502 ..	EB345.TC06	TC .. 06T1 ..
			41–49,5*	2	EB527.CP05		EB540.TC06	
			49–57,5*	3	EB528.CP05		EB541.TC06	
	B3230G.C4.41-83.Z1	C4	41–55,5	1	EB327.CC06	CC .. 0602 ..	EB347.TC06	TC .. 06T1 ..
			55–69,5*	2	EB532.CC06		EB545.TC06	
			69–83,5*	3	EB533.CC06		EB546.TC06	
B3230G.C5.55-100.Z1	C5	55–70,5	1	EB329.CC06	CC .. 0602 ..	EB349.TC11	TC .. 1102 ..	
		70–85,5*	2	EB534.CC06		EB547.TC11		
		85–100,5*	3	EB535.CC06		EB548.TC11		
B3230G.C6.070-120.Z1	C6	70–90,5	1	EB329.CC06	CC .. 0602 ..	EB349.TC11	TC .. 1102 ..	
		85–105,5*	2	EB534.CC06		EB547.TC11		
		100–120,5*	3	EB535.CC06		EB548.TC11		
B3230G.C6.090-166.Z1	C6	90–116*	1	EB529.CC06	CC .. 0602 ..	EB542.TC11	TC .. 1102 ..	
		115–141*	2	EB530.CC06		EB543.TC11		
		140–166*	3	EB531.CC06		EB544.TC11		
B3230G.C8.090-166.Z1	C8	90–116*	1	EB529.CC06	CC .. 0602 ..	EB542.TC11	TC .. 1102 ..	
		115–141*	2	EB530.CC06		EB543.TC11		
		140–166*	3	EB531.CC06		EB544.TC11		
B3230G.C6.110-203.Z1	C6	110–153*	1	EB529.CC06	CC .. 0602 ..	EB542.TC11	TC .. 1102 ..	
		135–178*	2	EB530.CC06		EB543.TC11		
		160–203*	3	EB531.CC06		EB544.TC11		
B3230G.C8.110-203.Z1	C8	110–153*	1	EB529.CC06	CC .. 0602 ..	EB542.TC11	TC .. 1102 ..	
		135–178*	2	EB530.CC06		EB543.TC11		
		160–203*	3	EB531.CC06		EB544.TC11		

¹ D_{min} for reverse machining.

For assembly aids, see page D 1.

Bodies and assembly parts are included in the scope of delivery.

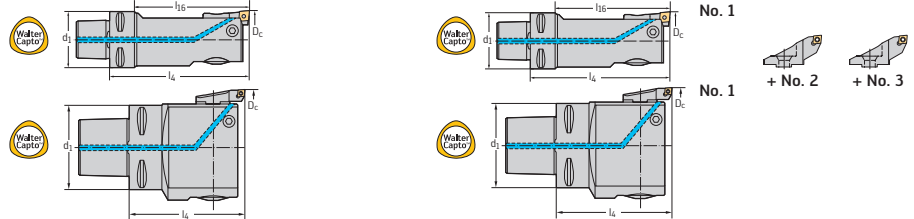
* Reverse machining possible

Assembly parts		for D _c min–max [mm]							
		C3		C4		C5		C6 / C8	
		20–38,5	26–47,5	33–57,5	41–83,5	55–100,5	70–120,5	90–203	
	Clamping screw	FS2251 (Torx 9IP)	FS1082 (SW 2,5)	FS1083 (SW 3)	FS1084 (SW 4)	FS1085 (SW 5)	FS1086 (SW 6)	FS1087 (SW 6)	
	Tightening torque		2,5 Nm	2,5 Nm	4,0 Nm	10,0 Nm	25,0 Nm	25,0 Nm	
	Clamping screw for cartridge	FS1457 (Torx 9IP)	FS2080 (Torx 15IP)	FS1495 (Torx 20IP)	FS1091 (SW 3)	FS1092 (SW 5)	FS1092 (SW 5)	FS2150 (Torx 30IP)	
	Tightening torque	1,5 Nm	2,5 Nm	5,0 Nm	2,5 Nm	12,0 Nm	12,0 Nm	10,0 Nm	
	Clamping screw for indexable insert	CP .. 0502 .. = FS2084 (Torx 7IP) 0,8 Nm				FS1454 (Torx 8IP) 1,2 Nm			
	Tightening torque	TC .. 06T1 .. = FS2148 (Torx 6IP) 0,6 Nm							



Complete tool

Precision set

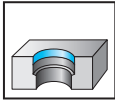


	d ₁ mm	l ₄ mm	l ₁₆ mm	kg	Complete tool designation with C insert	Complete tool designation with W insert	Precision set designation with C insert	Precision set designation with T insert
	32	80	60	0,23	B3230.C3.020-026.Z1.CP05	B3230.C3.020-026.Z1.TC06	B3230.C3.020-038.Z1.CP05	B3230.C3.020-038.Z1.TC06
0,23				B3230.C3.026-032.Z1.CP05	B3230.C3.026-032.Z1.TC06			
0,24				B3230.C3.032-038.Z1.CP05	B3230.C3.032-038.Z1.TC06			
	32	80		0,29	B3230.C3.026-033.Z1.CP05	B3230.C3.026-033.Z1.TC06	B3230.C3.026-047.Z1.CP05	B3230.C3.026-047.Z1.TC06
0,30				B3230.C3.033-040.Z1.CP05	B3230.C3.033-040.Z1.TC06			
0,30				B3230.C3.040-047.Z1.CP05	B3230.C3.040-047.Z1.TC06			
0,42				B3230.C3.033-041.Z1.CP05	B3230.C3.033-041.Z1.TC06			
	32	80		0,42	B3230.C3.041-049.Z1.CP05	B3230.C3.041-049.Z1.TC06	B3230.C3.033-057.Z1.CP05	B3230.C3.033-057.Z1.TC06
0,42				B3230.C3.049-057.Z1.CP05	B3230.C3.049-057.Z1.TC06			
0,7				B3230.C4.041-055.Z1.CC06	B3230.C4.041-055.Z1.TC06			
	40	80		0,7	B3230.C4.055-069.Z1.CC06	B3230.C4.055-069.Z1.TC06	B3230.C4.041-083.Z1.CC06	B3230.C4.041-083.Z1.TC06
0,7				B3230.C4.069-083.Z1.CC06	B3230.C4.069-083.Z1.TC06			
1,4				B3230.C5.055-070.Z1.CC06	B3230.C5.055-070.Z1.TC11			
	50	100		1,4	B3230.C5.070-085.Z1.CC06	B3230.C5.070-085.Z1.TC11	B3230.C5.055-100.Z1.CC06	B3230.C5.055-100.Z1.TC11
1,4				B3230.C5.085-100.Z1.CC06	B3230.C5.085-100.Z1.TC11			
2,1				B3230.C6.070-090.Z1.CC06	B3230.C6.070-090.Z1.TC11			
	63	100		2,2	B3230.C6.085-105.Z1.CC06	B3230.C6.085-105.Z1.TC11	B3230.C6.070-120.Z1.CC06	B3230.C6.070-120.Z1.TC11
2,1				B3230.C6.100-120.Z1.CC06	B3230.C6.100-120.Z1.TC11			
3,2				B3230.C6.090-116.Z1.CC06	B3230.C6.090-116.Z1.TC11			
	63	110		3,2	B3230.C6.115-141.Z1.CC06	B3230.C6.115-141.Z1.TC11	B3230.C6.090-166.Z1.CC06	B3230.C6.090-166.Z1.TC11
3,2				B3230.C6.140-166.Z1.CC06	B3230.C6.140-166.Z1.TC11			
4,0				B3230.C8.090-116.Z1.CC06	B3230.C8.090-116.Z1.TC11			
	80	110		4,0	B3230.C8.115-141.Z1.CC06	B3230.C8.115-141.Z1.TC11	B3230.C8.090-166.Z1.CC06	B3230.C8.090-166.Z1.TC11
4,0				B3230.C8.140-166.Z1.CC06	B3230.C8.140-166.Z1.TC11			
4,1				B3230.C6.110-153.Z1.CC06	B3230.C6.110-153.Z1.TC11			
	63	110		4,1	B3230.C6.135-178.Z1.CC06	B3230.C6.135-178.Z1.TC11	B3230.C6.110-203.Z1.CC06	B3230.C6.110-203.Z1.TC11
4,1				B3230.C6.160-203.Z1.CC06	B3230.C6.160-203.Z1.TC11			
4,8				B3230.C8.110-153.Z1.CC06	B3230.C8.110-153.Z1.TC11			
	63	110		4,8	B3230.C8.135-178.Z1.CC06	B3230.C8.135-178.Z1.TC11	B3230.C8.110-203.Z1.CC06	B3230.C8.110-203.Z1.TC11
4,8				B3230.C8.160-203.Z1.CC06	B3230.C8.160-203.Z1.TC11			

B 2

Accessories	C3 C4 C5 C6 C6 / C8						
	for D _c min-max [mm]						
	20-38,5	26-47,5	33-57,5	41-83,5	55-100,5	70-120,5	90-203
	Screwdriver for clamping screw CP . . 0502 . . = FS2088 (Torx 7IP) TC . . 06T1 . . = FS2086 (Torx 6IP)			CC . . 06 = FS1483 (Torx 8IP) TC . . 1102 . . = FS1483 (Torx 8IP)			
	FS1484 (Torx 9IP)						
		SW 2,5	SW 3	SW 4	SW 5	SW 6	SW 6
	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS2109 (Torx 30IP)			
				SW 3	SW 5	SW 5	

Self-balancing precision boring tool B4030

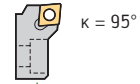
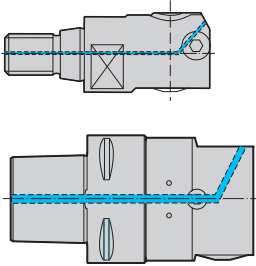
Walter Precision^{MEDIUM}


D_c 33-153	$\kappa=95^\circ$	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B4030	●	●	●	●	●	●	●

Basic body

Cartridge with C insert


 $\kappa = 95^\circ$

B2

Tool	Basic body designation	d_1 mm	D_c mm	Designation	Type
ScrewFit 	B4030G.T28.33-41.Z1	T 28	33-41	EB323.CP 05	CP . . 0502 . .
	B4030G.T36.41-55.Z1	T 36	41-55	EB325.CP05	CP . . 0502 . .
	B4030G.T45.55-70.Z1	T 45	55-70	EB327.CC06	CC . . 0602 . .
Walter Capto™ 	B4030G.C3.33-41.Z1	C3	33-41	EB323.CP05	CP . . 0502 . .
	B4030G.C4.41-55.Z1	C4	41-55	EB325.CP05	CP . . 0502 . .
	B4030G.C5.55-70.Z1	C5	55-70	EB327.CC06	CC . . 0602 . .
	B4030G.C6.070-090.Z1	C6	70-90		
	B4030G.C6.090-110.Z1	C6	90-110		
	B4030G.C8.090-110.Z1	C8	90-110		
	B4030G.C6.110-153.Z1	C6	110-153		
	B4030G.C8.110-153.Z1	C8	110-153		

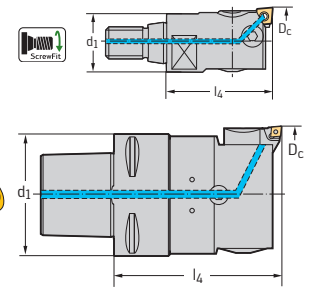
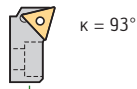
For assembly aids, see page D 1.
Bodies and assembly parts are included in the scope of delivery.

Assembly parts	D_c min-max [mm]					
	33-41	41-55	55-70	70-90	90-110	110-153
 Clamping screw Tightening torque	FS2031 (SW 2,5)	FS2032 (SW 3)	FS2033 (SW 4)	FS2034 (SW 5)	FS2035 (SW 6)	FS2036 (SW 6)
 Clamping screw for cartridge Tightening torque	FS2080 (Torx 15IP)	FS1495 (Torx 20IP)	FS1091 (SW 3)			
 Clamping screw for indexable insert Tightening torque	CP . . 0502 . . = FS2084 (Torx 7IP) 0,8 Nm TC . . 06T1 . . = FS2148 (Torx 6IP) 0,6 Nm		CC . . 0602 . . = FS1454 (Torx 8IP) 0,8 Nm TC . . 06T1 . . = FS2148 (Torx 6IP) 0,6 Nm			



Cartridge with W insert

Complete tool



B 2

Designation	Type	d ₁ mm	l ₁ mm	kg	Complete tool, balanceable designation with C insert	Complete tool, balanceable designation with T insert
EB343.TC06	TC . . 06T1 . .	28	55	0,3	B4030.T28.33-41.Z1.CP05	B4030.T28.33-41.Z1.TC06
EB345.TC06	TC . . 06T1 . .	36	65	0,6	B4030.T36.41-55.Z1.CP05	B4030.T36.41-55.Z1.TC06
EB347.TC06	TC . . 06T1 . .	45	80	1,0	B4030.T45.55-70.Z1.CC06	B4030.T45.55-70.Z1.TC06
EB343.TC06	TC . . 06T1 . .	32	80	0,4	B4030.C3.033-041.Z1.CP05	B4030.C3.033-041.Z1.TC06
EB345.TC06	TC . . 06T1 . .	40	80	0,75	B4030.C4.041-055.Z1.CP05	B4030.C4.041-055.Z1.TC06
EB347.TC06	TC . . 06T1 . .	50	100	1,4	B4030.C5.055-070.Z1.CP05	B4030.C5.055-070.Z1.TC06
		63	100	1,5	B4030.C6.070-090.Z1.CC06	B4030.C6.070-090.Z1.TC06
		63	110	1,6	B4030.C6.090-110.Z1.CC06	B4030.C6.090-110.Z1.TC06
		80	110	1,6	B4030.C8.090-110.Z1.CC06	B4030.C8.090-110.Z1.TC06
		63	110	2,0	B4030.C6.110-153.Z1.CC06	B4030.C6.110-153.Z1.TC06
		80	110	2,0	B4030.C8.110-153.Z1.CC06	B4030.C8.110-153.Z1.TC06

Accessories

for D_c min-max [mm]

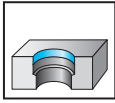
		33-41	41-55	55-70	70-90	90-153
	Screwdriver for clamping screw	CP . . 0502 . . = FS1484 (Torx 7IP) TC . . 06T1 . . = FS2086 (Torx 6IP)		CC . . 0602 . . = FS1483 (Torx 8IP) TC . . 06T1 . . = FS2086 (Torx 6IP)		
	DIN 911 hex key for clamping screw	SW 2,5	SW 3	SW 4	SW 5	SW 6
	Key for cartridge clamping	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)			
	DIN 911 hex key for cartridge clamping				SW 3	

For torque screwdriver with interchangeable blades, see page B 702.

Self-balancing precision boring tool

B4031.C

Walter Precision^{MEDIUM}

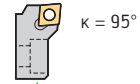
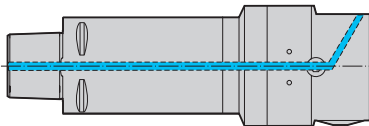


D_c 90-153	$\kappa=95^\circ$	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B4031.C	●	●	●	●	●	●	●

Basic body

Cartridge with C insert



B2

Tool	Basic body designation	d_1 mm	D_c mm	Designation	Type
Walter Capto™ 	B4031G.C6.090-110.Z1.AL*	C6	90-110	EB327.CC06	CC . . 0602 . .
	B4031G.C6.110-153.Z1.AL*	C6	110-153		

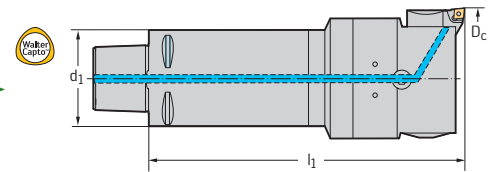
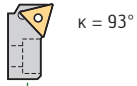
* Reduced-weight aluminium version
 For assembly aids, see page D 1.
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	D_c min-max [mm]	
	90-110	110-153
Clamping screw	FS2035 (SW 6)	FS2036 (SW 6)
Tightening torque	15 Nm	15 Nm
Clamping screw for indexable insert	CC . . 0602 . . = FS1454 (Torx 8IP) 0,8 Nm TC . . 06T1 . . = FS2148 (Torx 6IP) 0,6 Nm	



Cartridge with T insert

Complete tool



B2

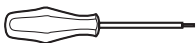
Designation	Type	d ₁ mm	l ₁ mm	kg	Complete tool designation with C insert	Complete tool designation with T insert
EB347.TC06	TC...06T1...	60	230	3,4	B4031.C6.090-110Z1.CC06	B4031.C6.090-110.Z1.TC06
		60	230	3,8	B4031.C6.110-153Z1.CC06	B4031.C6.110-153.Z1.TC06

Accessories

for D_c min-max [mm]

70-90

90-153



Screwdriver
for clamping screw

CC...0602... = FS1483 (Torx 8IP)
TC...06T1... = FS2086 (Torx 6IP)



DIN 911 hex key
for clamping screw

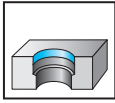
SW 5

SW 6

For torque screwdriver with interchangeable blades, see page B 702.

Precision boring tool with bridge design B3230

Walter Precision^{MAXI}

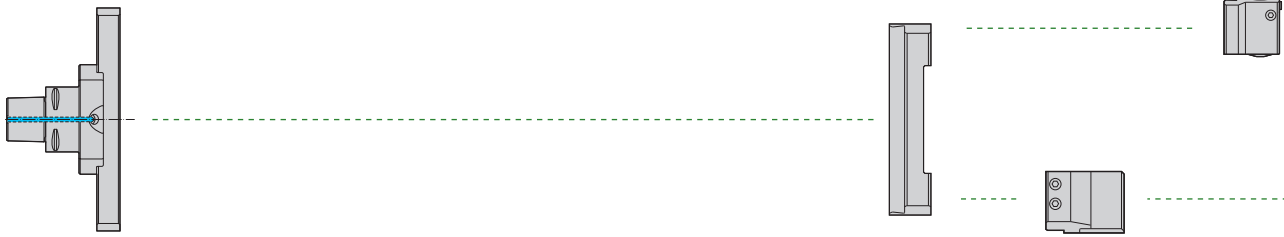


– Aluminium bridge

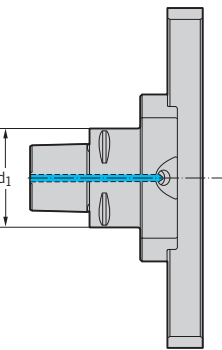
D_c 150– 640	$\kappa=95^\circ$	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B3230	●	●	●	●	●	●	●

Basic body



B2

Tool	Basic body designation	d_1 mm	D_c mm	Bridge	Balance weight	Cartridge holder
Walter Capto™ 	B3223G.C8.150-640	C8	150–220	EB134AL	EB121	EB123
			220–290	EB135AL		
			290–360	EB136AL		
			360–430	EB137AL		
			430–500	EB138AL		
			500–570	EB139AL		
			570–640	EB140AL		

For assembly aids, see page D 1.
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

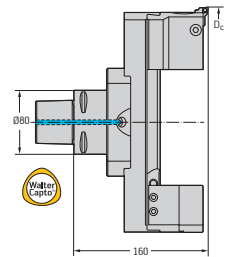
		Designation	Tightening torque
	Clamping screw for bridge	FS1114 (SW 10)	120 Nm
	Clamping screw for balance compensation slide	FS1086 (SW 6)	25 Nm
	Clamping screw for cartridge holder and balance compensation	FS1113 (SW 6)	25 Nm
	Clamping screw for cartridge	FS1092 (SW 5)	12 Nm
	Clamping screw for indexable insert	FS1454 (Torx 8IP)	1,2 Nm



Cartridge with C insert

Cartridge with T insert

Complete tool



Cartridge designation	Type	Cartridge designation	Type	kg	Complete tool designation with C insert	Complete tool designation with T insert
EB329.CC06	CC...0602...	EB349.TC11	TC...1102...	6,3	B3230.C8.150-220.Z1.CC06	B3230.C8.150-220.Z1.TC11
				6,8	B3230.C8.220-290.Z1.CC06	B3230.C8.220-290.Z1.TC11
				7,2	B3230.C8.290-360.Z1.CC06	B3230.C8.290-360.Z1.TC11
				7,5	B3230.C8.360-430.Z1.CC06	B3230.C8.360-430.Z1.TC11
				7,9	B3230.C8.430-500.Z1.CC06	B3230.C8.430-500.Z1.TC11
				8,2	B3230.C8.500-570.Z1.CC06	B3230.C8.500-570.Z1.TC11
				8,4	B3230.C8.570-640.Z1.CC06	B3230.C8.570-640.Z1.TC11

Accessories



Screwdriver for clamping screw



DIN 911 hex key

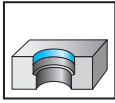
SW 5 / SW 6 / SW 10

For torque screwdriver with interchangeable blades, see page B 702.

B2

Precision boring tool with bridge design B3234

Walter Precision^{MAXI}



- Cutting edge orientation rotated by 90° in relation to B3230G.C...
- Aluminium bridge

D_c 150- 640	$\kappa=95^\circ$	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B3234	●	●	●	●	●	●	●

Basic body



B2

Tool	Basic body designation	d_1 mm	D_c mm	Bridge	Balance weight	Cartridge holder
Walter Capto™	 B3224G.C8.150-640	C8	150-220	EB134AL	EB121	EB123
			220-290	EB135AL		
			290-360	EB136AL		
			360-430	EB137AL		
			430-500	EB138AL		
			500-570	EB139AL		
			570-640	EB140AL		

For assembly aids, see page D 1.
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

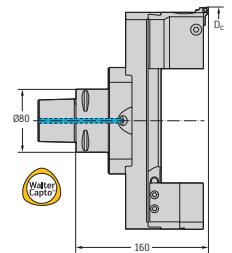
		Designation	Tightening torque
	Clamping screw for bridge	FS1114 (SW 10)	120 Nm
	Clamping screw for balance compensation slide	FS1086 (SW 6)	25 Nm
	Clamping screw for cartridge holder and balance compensation	FS1113 (SW 6)	25 Nm
	Clamping screw for cartridge	FS1092 (SW 5)	12 Nm
	Clamping screw for indexable insert	FS1454 (Torx 8IP)	1,2 Nm



Cartridge with C insert

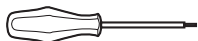
Cartridge with T insert

Complete tool



Cartridge designation	Type	Cartridge designation	Type	kg	Complete tool designation with C insert	Complete tool designation with T insert
EB329.CC06	CCGT 06 ..	EB349.TC11	TC .. 1102 ..	6,3	B3234.C8.150-220.Z1.CC06	B3234.C8.150-220.Z1.TC11
				6,8	B3234.C8.220-290.Z1.CC06	B3234.C8.220-290.Z1.TC11
				7,2	B3234.C8.290-360.Z1.CC06	B3234.C8.290-360.Z1.TC11
				7,5	B3234.C8.360-430.Z1.CC06	B3234.C8.360-430.Z1.TC11
				7,9	B3234.C8.430-500.Z1.CC06	B3234.C8.430-500.Z1.TC11
				8,2	B3234.C8.500-570.Z1.CC06	B3234.C8.500-570.Z1.TC11
				8,4	B3234.C8.570-640.Z1.CC06	B3234.C8.570-640.Z1.TC11

Accessories



Screwdriver for clamping screw

FS1483 (Torx 8IP)



DIN 911 hex key

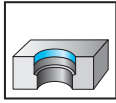
SW 5 / SW 6 / SW 10

For torque screwdriver with interchangeable blades, see page B 702.

B2

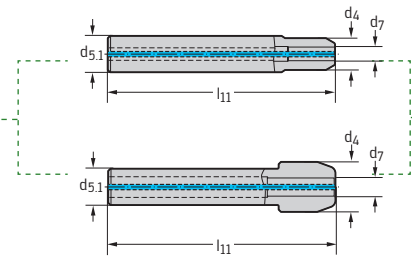
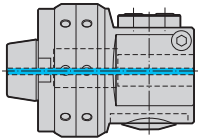
Precision boring tool B3230 / B4030

Walter Precision^{MINI}



D_c 2,0-9,5	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B3230 / B4030	●	●	●	●	●	●	●

Basic body
Reducer


B2

Tool	Designation	d_1 mm	D mm	Designation	d_7 mm	d_4 mm	$d_{5,1}$ mm	l_{11} mm
NCT 	B3230G.N6.002-045.Z1 Standard	NCT63	2,0-3,5	EB101	4	12	16	100
			3,0-6,0					
	B4030G. N6.02-45.Z1 Balanceable	NCT63	5,8-7,5	EB102	5	13	16	100
			7,3-9,5					

For assembly aids, see page D 1.

Bodies and assembly parts are included in the scope of delivery.

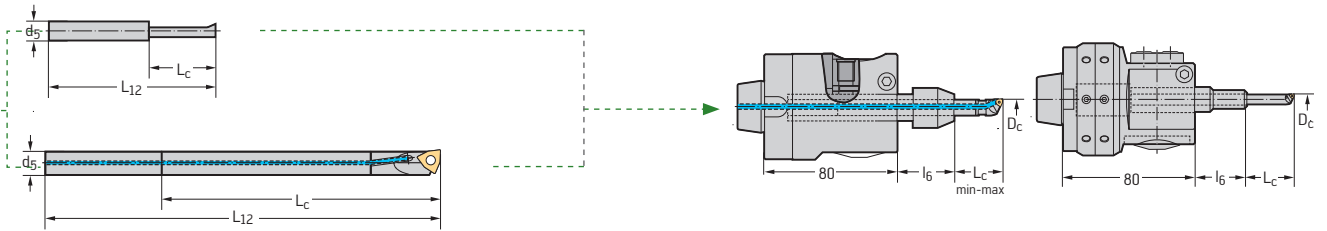
Assembly parts

	Designation	Tightening torque
	Clamping screw FS1085 (SW 5)	10 Nm
	Clamping screw for reducer FS2040	10 Nm
	Clamping screw for insert holder FS1110 (SW 2)	1,9 Nm
	Clamping screw for indexable insert with $D_c = 5,8-9,5$ mm FS2245 (Torx 6IP)	0,6 Nm
	Clamping screw for balancing rings FS2246 for B4030	0,5 Nm



Insert holder

Complete tool



B2

Designation	d ₅ mm	L ₁₂ mm	Type	L _c min mm	L _c max mm	l ₆ mm	kg	Standard Designation	Balanceable Designation
EB301 WK10*	4	30	—	9	—	28–60	1,8	B3230.N6.02-03.Z1.WK10	B4030.N6.02-03.Z1.WK10
EB302 WK10*	4	35	—	14	—	28–60	1,8	B3230.N6.03-06.Z1.WK10	B4030.N6.03-06.Z1.WK10
EB303.WC02.CS	5	85	WC ... 0201 ...	20	60	28–60	1,8	B3230.N6.06-07.Z1.WC02	B4030.N6.06-07.Z1.WC02
EB304.WC02.CS	6	95	WC ... 0201 ...	20	65	28–60	1,8	B3230.N6.07-09.Z1.WC02	B4030.N6.07-09.Z1.WC02

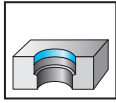
* Solid carbide boring bar
 EB ... CS = Solid carbide shank
 Advantages: Increased rigidity, reduced deflection, neutralised vibrations

Accessories

	Screwdriver for clamping screw	FS1063 (Torx 6)
	DIN 911 hex key	SW 2 / SW 4 / SW 5
	One-piece boring bar	D _c 5.8–9.5, see page B 548

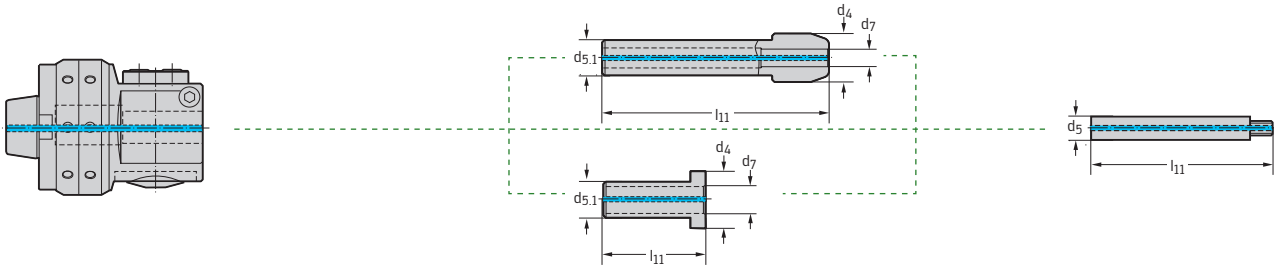
Precision boring tool B3230 / B4030

Walter Precision^{MINI}



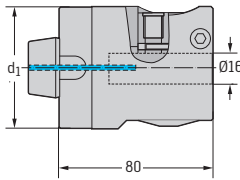
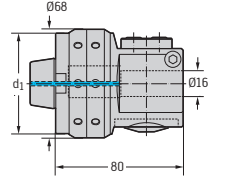
D_c 8,8–20	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B3230 / B4030	●	●	●	●	●	●	●

Basic body
Reducer
Extension


B2






Tool

Designation	d_1 mm	D_c mm	Designation	d_7 mm	d_4 mm	$d_{5.1}$ mm	l_{11} mm	Designation	d_5 mm	l_{11} mm		
NCT  B3230G.N6.002-045.Z1 Standard		8,8–12,5	EB104	8	22	16	100	EB106	8	47		
			EB107.CS	8	87							
		NCT63 B4030G.N6.02-45.Z1 Balanceable 		11,8–14,5	EB105	10	24	16	100	EB108	10	52
					EB109.CS	10	97					
		13,8–16,5	EB506	12	17	16	36	EB508	12	77		
			EB509.CS	12	97							
		15,8–20,0	EB507	14	17	16	36	EB510	14	87		
								EB511.CS	14	117		

EB... CS = Solid carbide shank

Advantages: Increased rigidity, reduced deflection, neutralised vibrations

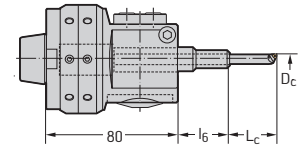
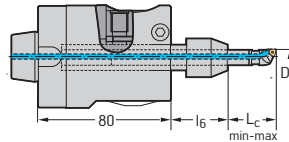
Assembly parts

	Designation	Tightening torque
	Clamping screw FS1085 (SW 5)	10 Nm
	Clamping screw for reducer FS2040	10 Nm
	Clamping screw for extension FS1111 (SW 3)	2,5 Nm
	Clamping screw for indexable insert \emptyset 8,8-12,5 mm = FS2147 (Torx 6IP) \emptyset 11,8-20 mm = FS2148 (Torx 6IP)	
	Clamping screw for balancing rings FS2246 (SW 2) for B4030	0,5 Nm



Insert holder

Complete tool



Designation	l_{12} mm	Type	L_c min mm	L_c max mm	l_6 mm	kg	Standard Designation	Balanceable Designation
EB305.TC06	18	TC...06T1...	20	35	34-60	1,9	B3230.N6.09-12.Z1.TC06.S*	B4030.N6.09-12.Z1.TC06.S*
			20	73	34-60	1,9	B3230.N6.09-12.Z1.TC06.L*	B4030.N6.09-12.Z1.TC06.L
EB306.TC06	23	TC...06T1...	25	45	34-60	1,9	B3230.N6.12-14.Z1.TC06.S	B4030.N6.12-14.Z1.TC06.S*
			25	70	34-60	1,9	B3230.N6.12-14.Z1.TC06.L	B4030.N6.12-14.Z1.TC06.L
EB307.TC06	23	TC...06T1...	34	60	2	1,9	B3230.N6.14-16.Z1.TC06.S	B4030.N6.14-16.Z1.TC06.S
			54	80	2	1,9	B3230.N6.14-16.Z1.TC06.L	B4030.N6.14-16.Z1.TC06.L
EB512.TC06	23	TC...06T1...	44	70	2	1,9	B3230.N6.16-20.Z1.TC06.S	B4030.N6.16-20.Z1.TC06.S
			74	100	2	1,9	B3230.N6.16-20.Z1.TC06.L	B4030.N6.16-20.Z1.TC06.L

* When using the TC...06T1...-FN2 indexable insert, manually shorten the indexable insert clamping screw by 1 mm.

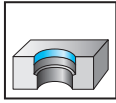
Accessories

	Screwdriver for clamping screw	FS2086 (Torx 6IP)
	DIN 911 hex key	SW 2 / SW 4 / SW 5
	One-piece boring bar	D_c 8.8-15.8, see page B 548

B2

Precision boring tool B3230 / B4030

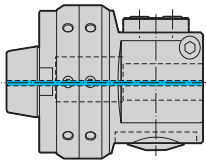
Walter Precision^{MINI}



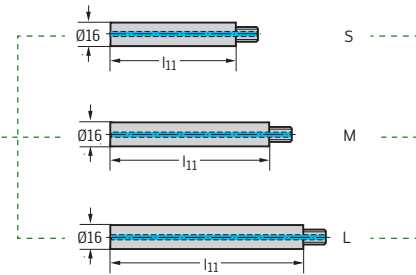
D_c 17,8– 45,5	$\kappa=93^\circ$	$Z=1$
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	P	M	K	N	S	H	O
B3230 / B4030	●	●	●	●	●	●	●

Basic body



Extension



B2

Tool	Designation	d_1 mm	D_c mm	Designation	l_{11} mm	
NCT 	B3230G.N6.02-45.Z1 Standard	NCT63	17,8–22,5	EB110	88	(S)
				EB111.CS	108	(M)
				EB112.CS	168	(L)
			21,8–25,5	EB110	88	(S)
				EB111.CS	108	(M)
				EB112.CS	168	(L)
	24,8–28,5	EB110	88	(S)		
		EB111.CS	108	(M)		
		EB112.CS	168	(L)		
	B4030G.N6.02-45.Z1 Balanceable	NCT63	27,8–32,5	EB110	88	(S)
				EB111.CS	108	(M)
				EB112.CS	168	(L)
31,8–36,5			EB110	88	(S)	
			EB111.CS	108	(M)	
			EB112.CS	168	(L)	
35,8–40,5	EB110	88	(S)			
	EB111.CS	108	(M)			
	EB112.CS	168	(L)			
39,8–45,5	EB110	88	(S)			
	EB111.CS	108	(M)			
	EB112.CS	168	(L)			

EB...CS = Solid carbide shank

Advantages: Increased rigidity, reduced deflection, neutralised vibrations

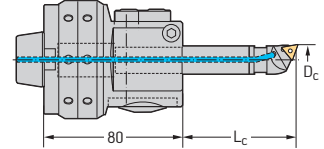
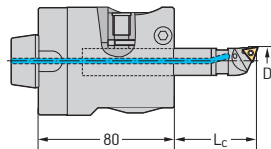
Assembly parts

	Designation	Tightening torque
	Clamping screw FS1085 (SW 5)	10 Nm
	Clamping screw for extension FS2040	10 Nm
	Clamping screw for indexable insert FS1454 (Torx 8IP)	1,2 Nm
	Clamping screw for balancing rings FS2246 (SW 2) for B4030	0,5 Nm





Insert holder

Complete tool



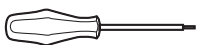
B2

Designation	l_{12} mm	 Type	L_c min mm	L_c max mm	 kg	Standard Designation	Balanceable Designation
EB308.TC11	27	TC . . 1102 . .	55	80	1,8	B3230.N6.18-22.Z1.TC11.S	B4030.N6.18-22.Z1.TC11.S
			75	100	2,0	B3230.N6.18-22.Z1.TC11.M	B4030.N6.18-22.Z1.TC11.M
			135	160	2,2	B3230.N6.18-22.Z1.TC11.L	B4030.N6.18-22.Z1.TC11.L
EB309.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.N6.22-25.Z1.TC11.S	B4030.N6.22-25.Z1.TC11.S
			75	100	2,5	B3230.N6.22-25.Z1.TC11.M	B4030.N6.22-25.Z1.TC11.M
			135	160	2,7	B3230.N6.22-25.Z1.TC11.L	B4030.N6.22-25.Z1.TC11.L
EB310.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.N6.25-28.Z1.TC11.S	B4030.N6.25-28.Z1.TC11.S
			75	100	2,5	B3230.N6.25-28.Z1.TC11.M	B4030.N6.25-28.Z1.TC11.M
			135	160	2,7	B3230.N6.25-28.Z1.TC11.L	B4030.N6.25-28.Z1.TC11.L
EB311.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.N6.28-32.Z1.TC11.S	B4030.N6.28-32.Z1.TC11.S
			75	100	2,5	B3230.N6.28-32.Z1.TC11.M	B4030.N6.28-32.Z1.TC11.M
			135	160	2,7	B3230.N6.28-32.Z1.TC11.L	B4030.N6.28-32.Z1.TC11.L
EB312.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.N6.32-36.Z1.TC11.S	B4030.N6.32-36.Z1.TC11.S
			75	100	2,5	B3230.N6.32-36.Z1.TC11.M	B4030.N6.32-36.Z1.TC11.M
			135	160	2,7	B3230.N6.32-36.Z1.TC11.L	B4030.N6.32-36.Z1.TC11.L
EB313.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.N6.36-40.Z1.TC11.S	B4030.N6.36-40.Z1.TC11.S
			75	100	2,5	B3230.N6.36-40.Z1.TC11.M	B4030.N6.36-40.Z1.TC11.M
			135	160	2,7	B3230.N6.36-40.Z1.TC11.L	B4030.N6.36-40.Z1.TC11.L
EB314.TC11	27	TC . . 1102 . .	55	80	2,3	B3230.N6.40-45.Z1.TC11.S	B4030.N6.40-45.Z1.TC11.S
			75	100	2,5	B3230.N6.40-45.Z1.TC11.M	B4030.N6.40-45.Z1.TC11.M
			135	160	2,7	B3230.N6.40-45.Z1.TC11.L	B4030.N6.40-45.Z1.TC11.L

For assembly aids, see page D 1.

Bodies and assembly parts are included in the scope of delivery.

Accessories



Screwdriver

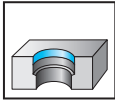
FS1483 (Torx 8IP)



DIN 911 hex key

SW 5

Precision boring tool B3230

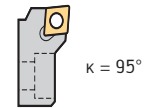
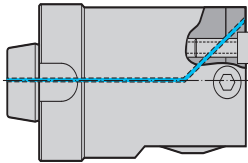
Walter Precision^{MEDIUM}


D_c 20–153	$\kappa=95^\circ$	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B3230	●	●	●	●	●	●	●

Basic body

Cartridge with C insert



B2

Tool	Designation	d_1 mm	D_c mm	Designation	Type	
	NCT	B3230G.N2.020-026.Z1	NCT25	20–26	EB321.CP05	CP . . 0502 . .
		B3230G.N2.026-033.Z1	NCT25	26–33	EB323.CP05	CP . . 0502 . .
		B3230G.N3.033-041.Z1	NCT32	33–41	EB325.CP05	CP . . 0502 . .
		B3230G.N4.041-055.Z1	NCT40	41–55	EB327.CC06	CC . . 0602 . .
		B3230G.N5.055-070.Z1	NCT50	55–70	EB329.CC06	CC . . 0602 . .
		B3230G.N6.070-090.Z1	NCT63	70–90		
		B3230G.N8.090-110.Z1	NCT80	90–110		
		B3230G.N8.110-153.Z1	NCT80	110–153		

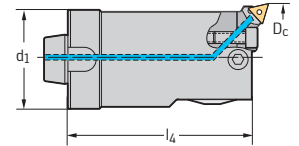
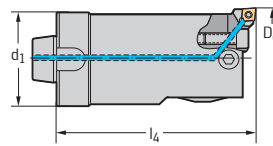
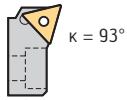
 For assembly aids, see page D 1.
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	D_c min–max [mm]							
	20–26	26–33	33–41	41–55	55–70	70–90	90–153	
	Clamping screw	FS2251 (Torx 9IP)	FS1082 (SW 2,5)	FS1083 (SW 3)	FS1084 (SW 4)	FS1085 (SW 5)	FS1086 (SW 6)	FS1087 (SW 6)
	Tightening torque	1,2 Nm	2,0 Nm	3,0 Nm	4,0 Nm	10,0 Nm	25,0 Nm	25,0 Nm
	Clamping screw for cartridge	FS1457 (Torx 9IP)	FS2080 (Torx 15IP)	FS1495 (Torx 20IP)	FS1091 (SW 3)	FS1092 (SW 5)		
	Tightening torque	0,9 Nm	2,0 Nm	2,5 Nm	2,5 Nm	12,0 Nm		
	Drive pin (only with NCT 25)	FK311		FK312	FK313			
	Screw for drive pin (only with NCT 25)	FS502		FS503	FS504			
	Clamping screw for indexable insert	CP . . 0502 . . = FS2084 (Torx 7IP) 0,8 Nm TC . . 06T1 . . = FS2148 (Torx 6IP) 0,6 Nm			CC . . 0602 . . = FS1454 (Torx 8IP) 1,2 Nm TC . . 06T1 . . = FS2148 (Torx 6IP) 0,6 Nm			
	Tightening torque							



Cartridge with T insert

Complete tool

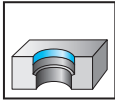


Designation	Type	d ₁ mm	l ₄ mm	kg	Standard designation with C insert	Standard designation with T insert
EB341.TC06	TC...06T1..	25*	80	0,2	B3230.N2.020-026.Z1.CP05	B3230.N2.020-026.Z1.TC06
EB343.TC06	TC...06T1..	25	80	0,3	B3230.N2.026-033.Z1.CP05	B3230.N2.026-033.Z1.TC06
EB345.TC06	TC...06T1..	32	80	0,5	B3230.N3.033-041.Z1.CP05	B3230.N3.033-041.Z1.TC06
EB347.TC06	TC...06T1..	40	80	0,8	B3230.N4.041-055.Z1.CC06	B3230.N4.041-055.Z1.TC06
EB349.TC11	TC...1102..	50	100	1,6	B3230.N5.055-070.Z1.CC06	B3230.N5.055-070.Z1.TC11
		63	100	2,5	B3230.N6.070-090.Z1.CC06	B3230.N6.070-090.Z1.TC11
		80	100	4,0	B3230.N8.090-110.Z1.CC06	B3230.N8.090-110.Z1.TC11
		80	100	5,0	B3230.N8.110-153.Z1.CC06	B3230.N8.110-153.Z1.TC11

* Maximum drilling depth = 65 mm

Accessories		for D _c min-max [mm]					
		20-26	26-33	33-41	41-55	55-70	70-153
	Screwdriver for clamping screw	CP...0502... = FS2088 (Torx 7IP) TC...06T1... = FS2086 (Torx 6IP)			CC...0602... = FS1483 Torx 8IP TC...06T1... = FS2086 (Torx 6IP)		
	Torx key for clamping screw	FS1484 (Torx 9IP)					
	DIN 911 hex key for clamping screw		SW 2,5	SW 3	SW 4	SW 5	SW 6
	Key for cartridge clamping	FS1484 (Torx 9IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)			FS2108 (Torx 30IP)
	DIN 911 hex key for cartridge clamping				SW 3	SW 5	SW 5

Self-balancing precision boring tool B4030

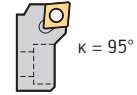
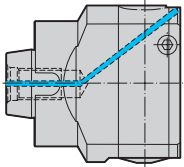
Walter Precision^{MEDIUM}


D_c 70-153	$\kappa=95^\circ$	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B4030	●	●	●	●	●		●

Basic body

Cartridge with C insert



B2

Tool	Designation	d_1 mm	D_c mm	Designation	Type
	B4030G.N6.070-090.Z1	NCT63	70-90	EB327.CC06	CC...0602...
	B4030G.N8.090-110.Z1*	NCT80	90-110		
	B4030G.N8.110-153.Z1*	NCT80	110-153		

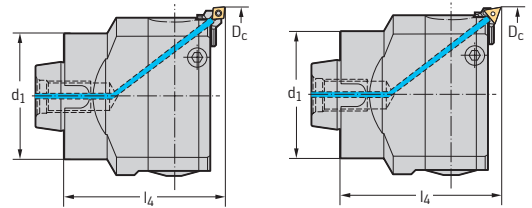
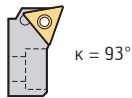
* Aluminium design
For assembly aids, see page D 1.
Bodies and assembly parts are included in the scope of delivery.

Assembly parts		D_c min-max [mm]					
		33-41	41-55	55-70	70-90	90-110	110-153
	Clamping screw	FS2031 (SW 2,5)	FS2032 (SW 3)	FS2033 (SW 4)	FS2034 (SW 5)	FS2035 (SW 6)	FS2036 (SW 6)
	Tightening torque	2,5 Nm	3,0 Nm	6,0 Nm	10 Nm	12 Nm	12 Nm
	Clamping screw for cartridge	FS2080 (Torx 15IP)	FS1495 (Torx 20IP)	FS1091 (SW 3)			
	Tightening torque	2,5 Nm	2,5 Nm	2,5 Nm			
	Clamping screw for indexable insert	CC...0602... = FS1454 (Torx 8IP) 1,2 Nm					
	Tightening torque	TC...06T1... = FS2148 (Torx 6IP) 0,6 Nm					



Cartridge with T insert

Complete tool

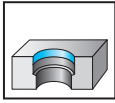


B2

Designation	Type	d ₁ mm	l ₄ mm	kg	Designation with C insert	Designation with T insert
EB347.TC06	TC...06T1...	63	100	2,5	B4030.N6.070-090.Z1.CC06	B4030.N6.070-090.Z1.TC06
		80	100	1,6	B4030.N8.090-110.Z1.CC06	B4030.N8.090-110.Z1.TC06
		80	100	2,0	B4030.N8.110-153.Z1.CC06	B4030.N8.110-153.Z1.TC06

Accessories		for D _c min-max [mm]				
		33-41	41-55	55-70	70-90	90-153
	Screwdriver for clamping screw	CC...0602... = FS1483 (Torx 8IP) TC...06T1... = FS2086 (Torx 6IP)				
	DIN 911 hex key for clamping screw	SW 2,5	SW 3	SW 4	SW 5	SW 6
	Key for cartridge clamping	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)			
	DIN 911 hex key for cartridge clamping				SW 3	

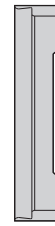
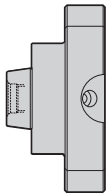
Precision boring tool with bridge design B3230

Walter Precision^{MAXI}


– 0.01 mm adjustment accuracy

D_c 150– 640	$\kappa=95^\circ$	$\kappa=93^\circ$	Z=1
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	P	M	K	N	S	H	O
B3230	●	●	●	●	●	●	●

Basic body


B2

Tool

Designation	d_1 mm	D_c mm	Bridge	Balance weight	Cartridge holder
 B3223G.N8.150-640	NCT80	150–220	EB 124	EB121	EB123
		220–290	EB 125		
		290–360	EB 126		
		360–430	EB 127		
		430–500	EB 128		
		500–570	EB 129		
		570–640	EB 130		

For assembly aids, see page D 1.

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	Designation	Tightening torque
	FS1114 (SW 10)	120 Nm
	FS1086 (SW 6)	25 Nm
	FS1113 (SW 6)	15 Nm
	FS1092 (SW 5)	12 Nm
	FS1454 (Torx 8IP)	1,2 Nm



Cartridge with C insert

Cartridge with W insert

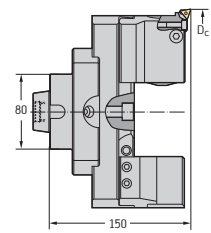
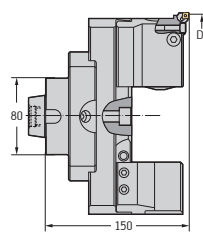
Complete tool



$\kappa = 95^\circ$



$\kappa = 93^\circ$



Designation	Type	Designation	Type	Standard designation with C insert	Standard designation with T insert	
EB329.CC06	CCGT 06 ..	EB 349.TC11	TC .. 1102 ..	7,9	B3230.N8.150-220.Z1.CC06	B3230.N8.150-220.Z1.TC11
				9,2	B3230.N8.220-290.Z1.CC06	B3230.N8.220-290.Z1.TC11
				10,5	B3230.N8.290-360.Z1.CC06	B3230.N8.290-360.Z1.TC11
				11,7	B3230.N8.360-430.Z1.CC06	B3230.N8.360-430.Z1.TC11
				13,0	B3230.N8.430-500.Z1.CC06	B3230.N8.430-500.Z1.TC11
				14,3	B3230.N8.500-570.Z1.CC06	B3230.N8.500-570.Z1.TC11
				15,5	B3230.N8.570-640.Z1.CC06	B3230.N8.570-640.Z1.TC11

Accessories



Screwdriver for clamping screw

FS1483 (Torx 8IP)



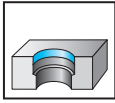
DIN 911 hex key

SW 5 / SW 6 / SW 10

B2

Precision boring tool with bridge design B3234

Walter Precision^{MAXI}

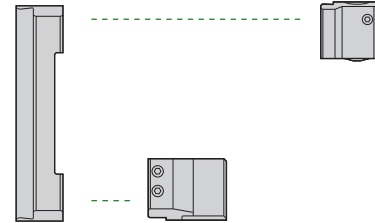
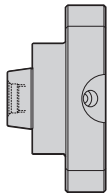


- 0.01 mm adjustment accuracy
- Cutting edge orientation rotated by 90° in relation to B3230

D_c 150- 640	$\kappa=95^\circ$	$\kappa=93^\circ$	Z=1
----------------------	-------------------	-------------------	-----

	P	M	K	N	S	H	O
B3224	●	●	●	●	●	●	●

Basic body



B2

Tool	Designation	d_1 mm	D_c mm	Bridge	Balance weight	Cartridge holder
NCT 	B3224G.N8.150-640	NCT80	150-220	EB124	EB121	EB123
			220-290	EB125		
			290-360	EB126		
			360-430	EB127		
			430-500	EB128		
			500-570	EB129		
			570-640	EB130		

For assembly aids, see page D 1.
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

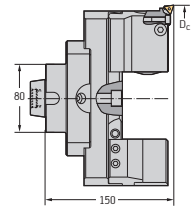
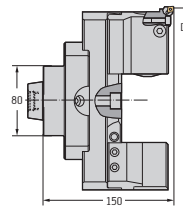
	Designation	Tightening torque
	Clamping screw for bridge FS1114 (SW 10)	120 Nm
	Clamping screw for balance compensation slide FS1086 (SW 6)	25 Nm
	Clamping screw for cartridge holder and balance compensation FS1113 (SW 6)	15 Nm
	Clamping screw for cartridge FS1092 (SW 5)	12 Nm
	Clamping screw for indexable insert FS1454 (Torx 8IP)	1,2 Nm



Cartridge with C insert

Cartridge with T insert

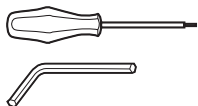
Complete tool



Designation	Type	Designation	Type	kg	Standard designation with C insert	Standard designation with T insert
EB329.CC06	CCGT 06 ..	EB349.TC11	TC .. 1102 ..	7,9	B3234.N8.150-220.Z1.CC06	B3234.N8.150-220.Z1.TC11
				9,2	B3234.N8.220-290.Z1.CC06	B3234.N8.220-290.Z1.TC11
				10,5	B3234.N8.290-360.Z1.CC06	B3234.N8.290-360.Z1.TC11
				11,7	B3234.N8.360-430.Z1.CC06	B3234.N8.360-430.Z1.TC11
				13,0	B3234.N8.430-500.Z1.CC06	B3234.N8.430-500.Z1.TC11
				14,3	B3234.N8.500-570.Z1.CC06	B3234.N8.500-570.Z1.TC11
				15,5	B3234.N8.570-640.Z1.CC06	B3234.N8.570-640.Z1.TC11

B2

Accessories



Screwdriver for clamping screw

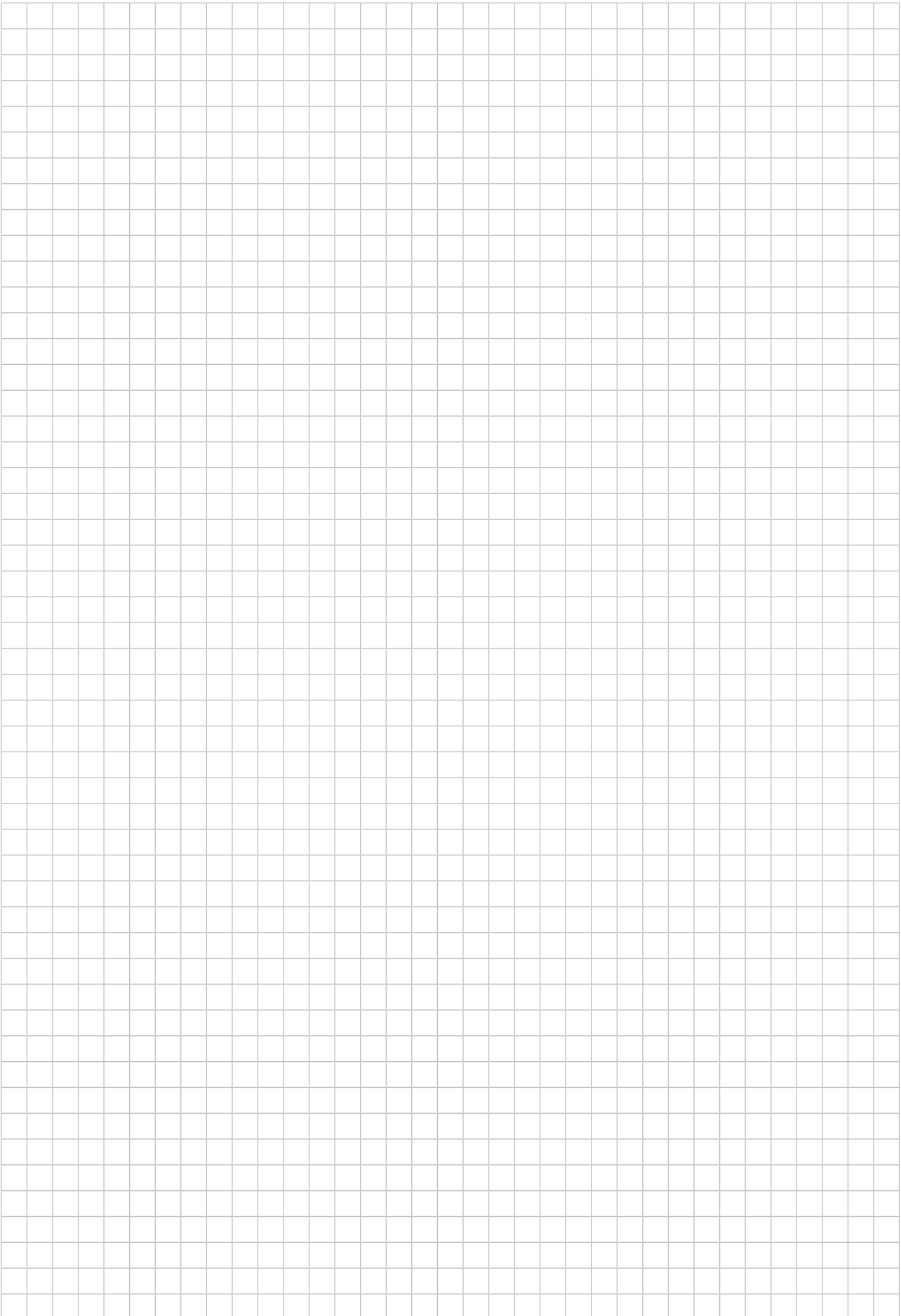
FS1483 (Torx 8IP)

DIN 911 hex key

SW 5 / SW 6 / SW 10

Cartridges product range overview

Machining	Counterboring and step drilling						
Lead angle κ [°]	45°			75°			
Designation	PSSN R/L			PSKN R/L			
Standard	ISO 5611						
D _c min [mm]	50			40/50/60/70/100			
Page	343			342			
Machining	Counterboring and step drilling						
Lead angle κ [°]	90°/95°						
Designation	PCFN R/L	PTFN R/L	STFC R/L	PCLN R/L			
Standard	ISO 5611						
D _c min [mm]	50	50	25/40	50			
Page	340	344	345	341			
Machining	Precision boring						
Lead angle κ [°]	90°				95°		
Designation	FR/FL 710	FR/FL 709	FR 760	FR 761	FR/FL 711	FR/FL 717	FR 763
Standard	Walter						
Adjustment accuracy [mm]	0,01		0,002		0,01		0,002
D _c min [mm]	28	36	28				
Page	346	346	346	346	347	347	347



B 2

ISO cartridges

PSSN



Tool	Designation	l_{14} mm	h_1 mm	b mm	$D_{c\ min}$ mm	d_8 mm	l_{13} mm	f mm	h mm	l_1 mm	l_5 mm	t mm	Type
	★ PSSNR12CA-12	8,3	12	15,5	50	7	20	20	20	38	30	6	SN .. 1204 ..

Measured with master insert: SN .. 120408
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type	SN .. 1204 ..
	Lever	KN109
	Clamping screw for insert Tightening torque	FS332 (SW 2,5) 2,5 Nm
	Adjusting screw, axial	FS335
	Adjusting screw, radial	FS333
	Fastening screw	FS977 (Torx 30)

Accessories	Type	SN .. 1204 ..
	ISO 2936 key	ISO2936-2,5 (SW 2,5)
	Handle key	FS1175 (Torx 30)

B2

Precision boring cartridges



– 0.01 and 0.002 mm adjustment accuracy

Tool	Designation	D_c min mm	d_8 mm	l_{13} mm	f mm	h_1 mm	l_1 mm	t mm	Set mm	Indexable insert type
$\kappa = 90^\circ$ 	FR709 / FL709	36	4,5	9,25	20	8,5	49,8	1	0,01	TC . . 1102 . .
	FR760	36	5,5	13,5	20	8,5	49,5	1	0,002	TC . . 1102 . .
$\kappa = 90^\circ$ 	FR710 / FL710	28	4,5	9,25	16	8,5	49,5	1	0,01	CC . . 0602 . .
	FR761	28	5,5	13,5	16	8,5	49,5	1	0,002	CC . . 0602 . .

Measured with master insert TC . . 110204 and CC . . 060204

For radial/axial adjustment range, see page B 641 in the Walter General Catalogue 2017

Bodies and assembly parts are included in the scope of delivery.

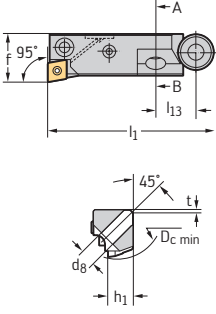
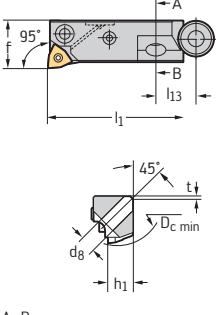
Assembly parts	Indexable insert type	TC . . 1102 . .	CC . . 0602 . .
	Clamping screw	FS1129 (Torx 8)	FS1129 (Torx 8)
	Clamping screw for cartridge	FS1354	FS1354
	Compression piece	FK369	FK369
	Adjusting screw, axial	FS1355	FS1355
	Adjusting screw, radial	FS1356	FS1356

Accessories	Indexable insert type	TC . . 1102 . .
	Screwdriver	FS257 (Torx 8)

Precision boring cartridges








- 0.01 and 0.002 mm adjustment accuracy


Tool	Designation	D _c min mm	d ₈ mm	l ₁₃ mm	f mm	h ₁ mm	l ₁ mm	t mm	Set mm	Indexable insert type
κ = 95° 	FR717 / FL717	28	4,5	9,25	16	8,5	49,5	1	0,01	CC . . 0602 . .
	FR763	28	5,5	13,5	16	8,5	49,5	1	0,002	CC . . 0602 . .
κ = 95° 	FR711 / FL711	28	4,5	9,25	16	8,5	49,8	1	0,01	WC . . 0402 . .

Measured with master insert CC . . 060204

For radial/axial adjustment range, see page B 641 in the Walter General Catalogue 2017

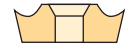
Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Indexable insert type	CC . . 0602 . .
	Clamping screw	FS1129 (Torx 8)
	Clamping screw for cartridge	FS1354
	Compression piece	FK369
	Adjusting screw, axial	FS1355
	Adjusting screw, radial	FS1356

Accessories	Indexable insert type	TC . . 1102 . .
	Screwdriver	FS257 (Torx 8)

B 2

Cutting data for precision boring (cartridges) – positive basic shape Cermet



B2

Material group	Overview of the main material groups and code letters				Brinell hardness HB	Tensile strength R _m N/mm ²	Machining group ¹		Cutting material grades		
									Starting values for cutting speed v _c [m/min]		
									HE		
									WEP10		
		f [mm/rev]									
		3 × D _C	4 × D _C	6 × D _C							
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	●	288	261	162
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	●●	●	270	216	135
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	●●	●	243	198	126
		C > 0.55%	Annealed	190	640	P4	●●	●	234	189	117
		C > 0.55%	Heat-treated	300	1010	P5	●●	●	207	171	108
	Low-alloy steel	Free-machining steel (short-chipping)	Annealed	220	750	P6	●●	●	243	198	126
		Annealed		175	590	P7	●●	●	270	216	135
		Heat-treated		285	960	P8	●●	●	225	180	117
		Heat-treated		380	1280	P9	●●	●	198	162	99
		Heat-treated		430	1480	P10	●●	●	171	135	72
High-alloyed steel and high-alloyed tool steel	Annealed		200	680	P11	●●	●	225	171	117	
	Hardened and tempered		300	1010	P12	●●	●	189	162	99	
	Hardened and tempered		380	1280	P13	●●	●	180	144	81	
Stainless steel	Ferritic/martensitic, annealed		200	680	P14	●●	●	225	180	117	
	Martensitic, heat-treated		330	1110	P15	●●	●	171	153	90	
M	Stainless steel	Austenitic, quench hardened		200	680	M1	●●	●	207	162	108
		Austenitic, precipitation hardened (PH)		300	1010	M2	●●	●	153	117	99
		Austenitic/ferritic, duplex		230	780	M3	●●	●	171	135	81
K	Malleable cast iron	Ferritic		200	400	K1	●●	●	225	189	108
		Pearlitic		260	700	K2	●●	●	180	153	99
	Grey cast iron	Low tensile strength		180	200	K3	●●	●	243	207	126
		High tensile strength/austenitic		245	350	K4	●●	●	180	153	99
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	●●	●	225	180	117
		Pearlitic		265	700	K6	●●	●	207	162	108
GGV (CGI)		230	400	K7	●●	●					
N	Wrought aluminium alloys	Not hardenable		30	–	N1	●●	●			
		Hardenable, hardened		100	340	N2	●●	●			
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3	●●	●			
		≤ 12% Si, hardenable, hardened		90	310	N4	●●	●			
		> 12% Si, not hardenable		130	450	N5					
	Magnesium-based alloys ³		70	250	N6						
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7	●●	●			
Brass, bronze, red brass			90	310	N8	●●	●				
Cu alloys, short-chipping			110	380	N9	●●	●				
High-tensile, Ampco			300	1010	N10						
S	Heat-resistant alloys	Fe-based	Annealed		200	680	S1	●●	●		
			Hardened		280	940	S2	●●	●		
		Ni- or Co-based	Annealed		250	840	S3	●●	●		
			Hardened		350	1180	S4	●●	●		
			Cast		320	1080	S5	●●	●		
	Titanium alloys	Pure titanium		200	680	S6	●●	●			
		α and β alloys, hardened		375	1260	S7	●●	●			
		β alloys		410	1400	S8	●●	●			
	Tungsten alloys		300	1010	S9						
	Molybdenum alloys		300	1010	S10						
H	Hardened steel	Hardened and tempered		50 HRC		H1	●	●●			
		Hardened and tempered		55 HRC		H2	●	●●			
		Hardened and tempered		60 HRC		H3	●	●●			
	Hardened cast iron	Hardened and tempered		55 HRC		H4	●	●●			
O	Thermoplastics	Without abrasive fillers				O1					
	Thermosets	Without abrasive fillers				O2					
	Plastic, glass-fibre-reinforced	GFRP				O3					
	Plastic, carbon-fibre-reinforced	CFRP				O4					
	Plastic, aramid-fibre-reinforced	AFRP				O5					
	Graphite (technical)				80 Shore		O6				

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application, reduce cutting data by 30–50% (increase by approx. 70–80% for ISO M)

Note: If dry machining is possible, the tool life is reduced by 20–30% on average. For specific applications, adjustment is recommended.

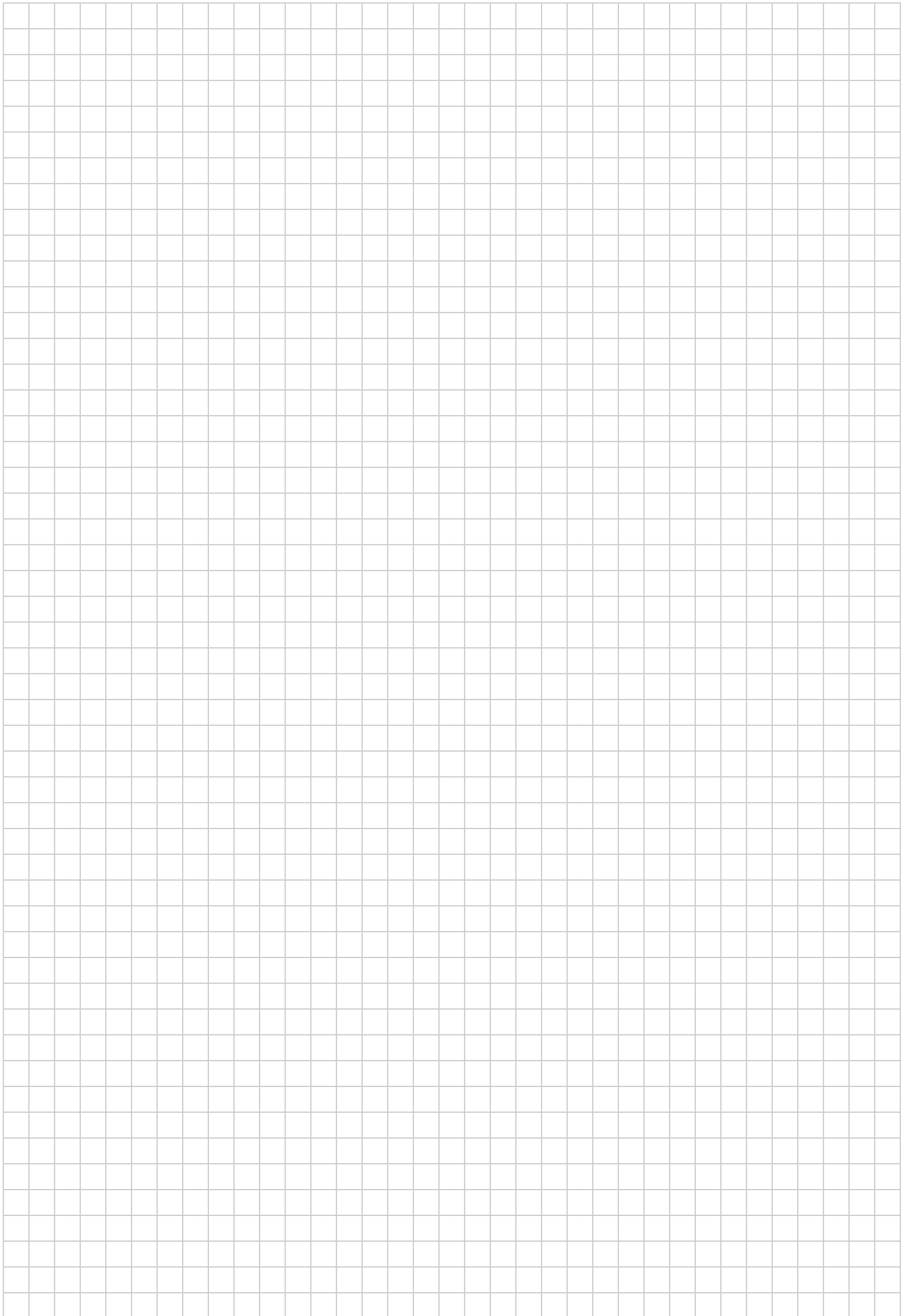
¹ The classification of the machining groups can be found from page B 1174 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium alloys.

The specified cutting data are average standard values.

For specific applications, adjustment is recommended.

HE = Coated cermet



B2

Tapping – B3

HSS-E(-PM) taps	Product range overview	352
	Designation key	354
	M – Metric thread	355
	MF – Metric fine-pitch thread	365
	UNC	367
	UNF	373
	NPT	376
<hr/>		
Solid carbide taps	Product range overview	377
	M – Metric thread	378
	G	379

Thread forming – B3

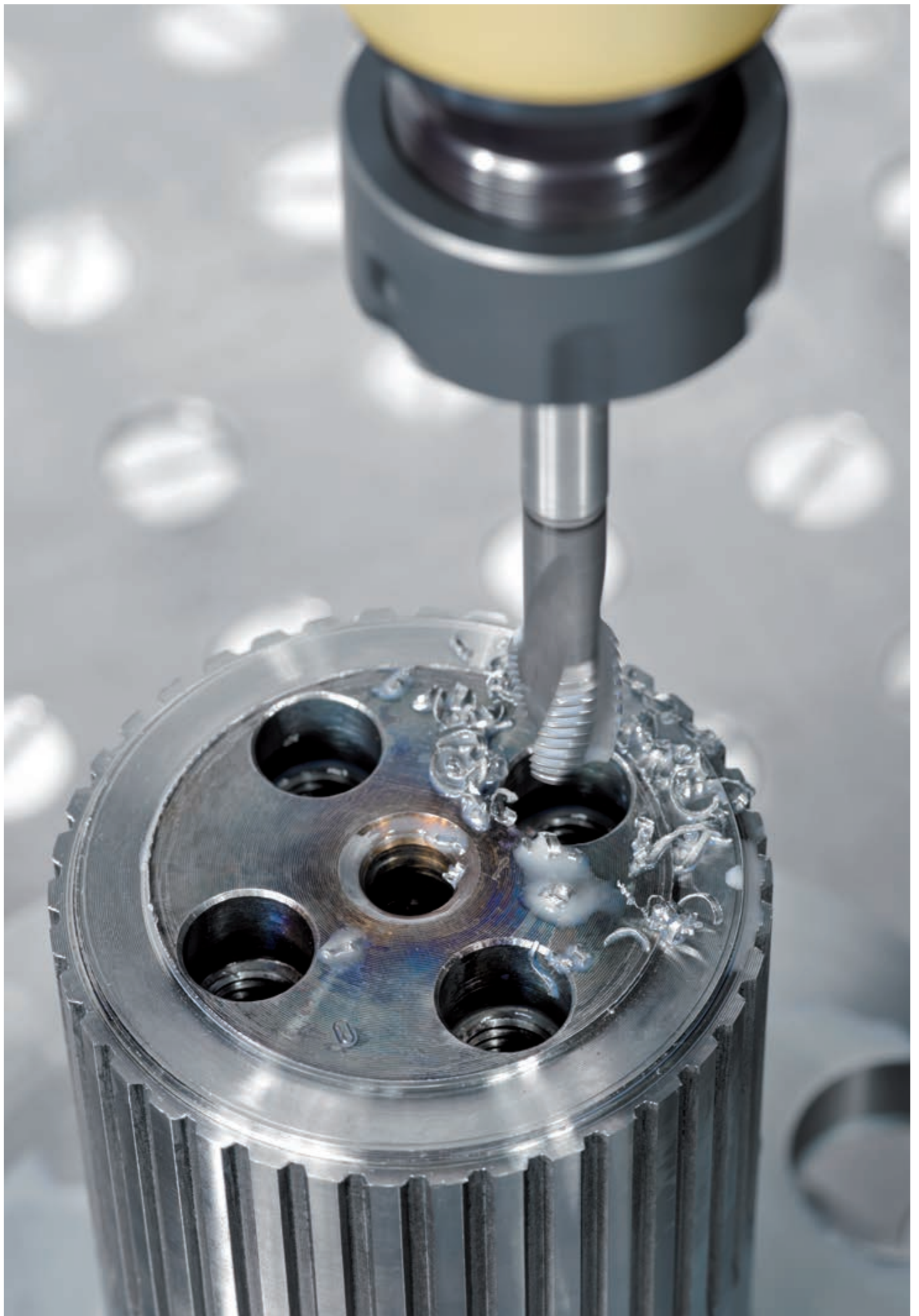
HSS-E-PM thread formers	Product range overview	380
	Designation key	382
	M – Metric thread	383
	MF – Metric fine-pitch thread	404
	UNC	410
	UNF	411
	G	412

Thread milling – B4

Thread milling cutters	Product range overview	414
	Designation key	416
	Solid carbide thread milling cutters	417
	Designation key	421
	Indexable insert thread milling cutter	422









Technical information – B3/B4



Cutting data	438
Radius correction values	443
Tool application	445



HSS-E(-PM) taps product range overview






M – Metric thread

Machining						
Thread depth	3,5 × D_N	1,5 × D_N		2,5 × D_N		3 × D_N
Designation	TC216 Perform	TC122 Supreme	Paradur® Ni	TC121 Supreme	TC122 Supreme	TC115 Perform
Dimension range	M 1.6–M 20	M 3–M 20	M 2–M 20	M 2–M 20	M 5–M 20	M 1.6–M 20
Tolerance	6H	6HX	6HX	6HX	6HX	6H
Coolant supply	External	External	External	External/axial	Axial	External
Chamfer form	B	C	C	C	C	C / E
Coating/grade	WY80FC / WY80AA	WW60BC	TiCN/uncoated	WW60RG / WY80BD	WW60BC	WY80FC / WY80AA
Version length	M	M	M	M	M	M
Page	355	362	364	360	363	356
						










Machining	
Thread depth	3 × D_N
Designation	TC120 Supreme
Dimension range	M 3–M 30
Tolerance	6HX
Coolant supply	External/axial
Chamfer form	C
Coating/grade	WW60AG
Version length	M
Page	358
	


HSS-E(-PM) taps product range overview

MF – Metric fine-pitch thread




Machining			
Thread depth	2 × D_N	3,5 × D_N	3 × D_N
Designation	Prototex® TiNi	TC216 Perform	TC115 Perform
Dimension range	MF 8x0.75– MF 16x1	MF 8x1– MF 18x1.5	MF 8x1– MF 18x1.5
Tolerance	6HX	6H	6H
Coolant supply	External	External	External
Chamfer form	B	B	C
Coating/grade	TiCN/uncoated	WY80FC / WY80AA	WY80FC / WY80AA
Version length	M	M	M
Page	366	365	365
			

HSS-E(-PM) taps product range overview UNC / UNF

Machining						
Thread depth	$2 \times D_N$	$3,5 \times D_N$	$1,5 \times D_N$	$3 \times D_N$	$3,5 \times D_N$	$2 \times D_N$
Designation	Prototex® TiNi	TC216 Perform	Paradur® Ni	TC115 Perform	Paradur® HT	Prototex® TiNi
Dimension range	UNC 2-56– UNC 3/4-10	UNC 6-32– UNC 3/4-10	UNC 2-56– UNC 3/4-10	UNC 6-32– UNC 3/4-10	UNC 1/4-20– UNC 1"-8	UNF 4-48– UNF 5/8-18
Tolerance	3B / 2B	2B	2B	2B	2B	3B / 2B
Coolant supply	External	External	External	External	Axial	External
Chamfer form	B	B	C	C	C	B
Coating/grade	TiCN/uncoated	WY80AA	TiCN/uncoated	WY80AA	TiN	TiCN/uncoated
Version length	M	M	M	M	M	M
Page	368	367	372	370	371	373
						

Machining	
Thread depth	$1,5 \times D_N$
Designation	Paradur® Ni
Dimension range	UNF 8-36– UNF 5/8-18
Tolerance	3B
Coolant supply	External
Chamfer form	C
Coating/grade	TiCN/uncoated
Version length	M
Page	375
	

HSS-E(-PM) taps product range overview NPT

Machining	 
Thread depth	-
Designation	Paradur® Ni
Dimension range	NPT 1/16-27– NPT 1"-11.5
Tolerance	NORMAL
Coolant supply	External
Chamfer form	C
Coating/grade	TiCN/uncoated
Version length	
Page	376
	

Designation key Taps

Example:

T	C	1	20	-	M10	-	C	1	-	W	W	60	AG
1	2	3	4	5	6		7	8		Grade			

1	2	3	4
Tool group	Generation	Tool type	Tool type
T Threading		1 Blind hole taps 2 Through hole taps 3 Blind and through hole taps	15 Universal 45° helix angle 300–1000 N/mm ² 16 Universal Straight-fluted, spiral point 300–800 N/mm ² 20 ISO P 45° helix angle 350–800 N/mm ² 21 ISO P 40° helix angle 800–1250 N/mm ² 22 ISO P 15° helix angle 1000–1400 N/mm ² 88 ISO H Straight-fluted 50–58 HRC 89 ISO H Straight-fluted 55–65 HRC

5	6	7	8
1. Delimiters	Thread dimensions	Tolerance/shank type	Modification
- Metric		C 6HX, 2B Reinforced shank L 6HX, 2B Reduced shank	0 External coolant 1 Axial internal coolant D Chamfer form D E Chamfer form E

Grade designation key for solid carbide and HSS-E(-PM) cutting tool materials

Example:

W	W	60	AG
Walter	1	2	3

1	2	3
Substrate	Application range	Coating
Solid carbide E J HSS-E-PM W HSS-E Y		AA TiN AG TiNK/vap BA TiCN BD TiCN BC TiCN RG TiAlN

B3

HSS-E machine taps

TC216 Perform mm



– For long-chipping materials

$\leq 3,5 \times DN$

$B=3,5-5$

32HRC
 1000-350
 N/mm²

M
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA	●	●	●	●			
WY80FC	●	●	●	●			

DIN 371											WY80AA	WY80FC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WY80AA	WY80FC
TC216-M1.6-C0-	M 1.6	0,35	40	7	7	2,5	2,1	5	2		✱	✱
TC216-M2-C0-	M 2	0,4	45	6	9	2,8	2,1	5	2		✱	✱
TC216-M2.5-C0-	M 2.5	0,45	50	8	12,5	2,8	2,1	5	2		✱	✱
TC216-M3-C0-	M 3	0,5	56	9	18	3,5	2,7	6	2		✱	✱
TC216-M4-C0-	M 4	0,7	63	12	21	4,5	3,4	6	3		✱	✱
TC216-M5-C0-	M 5	0,8	70	13	25	6	4,9	8	3		✱	✱
TC216-M6-C0-	M 6	1	80	15	30	6	4,9	8	3		✱	✱
TC216-M8-C0-	M 8	1,25	90	18	35	8	6,2	9	3		✱	✱
TC216-M10-C0-	M 10	1,5	100	20	39	10	8	11	3		✱	✱

Ordering example for the WY80FC grade: TC216-M3-C0-WY80FC

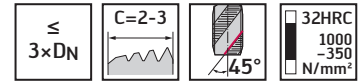
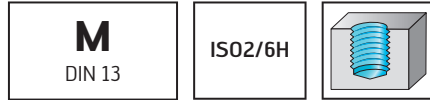
DIN 376											WY80AA	WY80FC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WY80AA	WY80FC
TC216-M12-L0-	M 12	1,75	110	23	83	9	7	10	3		✱	✱
TC216-M14-L0-	M 14	2	110	25	81	11	9	12	4		✱	✱
TC216-M16-L0-	M 16	2	110	25	68	12	9	12	4		✱	✱
TC216-M20-L0-	M 20	2,5	140	30	95	16	12	15	4		✱	✱

Ordering example for the WY80FC grade: TC216-M12-L0-WY80FC

HSS-E machine taps
TC115 Perform

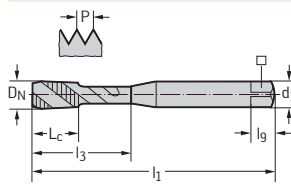


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●	●	●	●			
WY80FC	●	●	●	●			

DIN 371

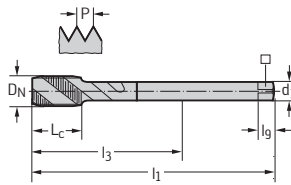


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
TC115-M1.6-C0-	M 1.6	0,35	40	6	6	2,5	2,1	5	2	●	●
TC115-M2-C0-	M 2	0,4	45	4	9	2,8	2,1	5	3	●	●
TC115-M2.5-C0-	M 2.5	0,45	50	4	12,5	2,8	2,1	5	3	●	●
TC115-M3-C0-	M 3	0,5	56	6	18	3,5	2,7	6	3	●	●
TC115-M4-C0-	M 4	0,7	63	7	21	4,5	3,4	6	3	●	●
TC115-M5-C0-	M 5	0,8	70	8	25	6	4,9	8	3	●	●
TC115-M6-C0-	M 6	1	80	10	30	6	4,9	8	3	●	●
TC115-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	3	●	●
TC115-M10-C0-	M 10	1,5	100	15	39	10	8	11	3	●	●

Ordering example for the WY80FC grade: TC115-M3-C0-WY80FC

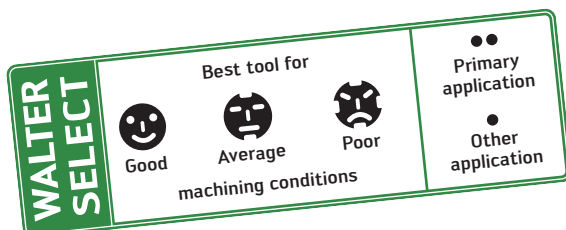
B3

DIN 376



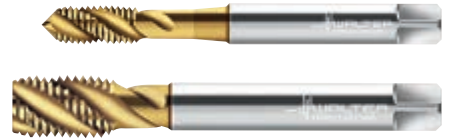
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
TC115-M12-L0-	M 12	1,75	110	16	83	9	7	10	3	●	●
TC115-M14-L0-	M 14	2	110	20	81	11	9	12	3	●	●
TC115-M16-L0-	M 16	2	110	20	68	12	9	12	3	●	●
TC115-M20-L0-	M 20	2,5	140	25	95	16	12	15	4	●	●

Ordering example for the WY80FC grade: TC115-M12-L0-WY80FC

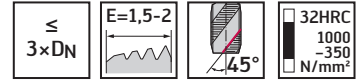
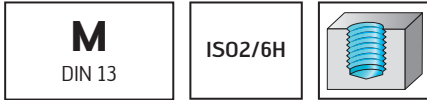


HSS-E machine taps

TC115 Perform

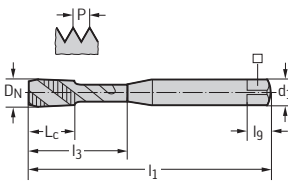


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●	●	●	●			

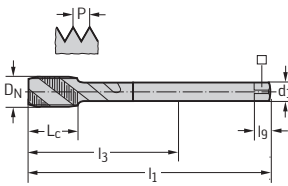
DIN 371



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WY80AA
TC115-M3-CE-	M 3	0,5	56	6	18	3,5	2,7	6	3	★
TC115-M4-CE-	M 4	0,7	63	7	21	4,5	3,4	6	3	★
TC115-M5-CE-	M 5	0,8	70	8	25	6	4,9	8	3	★
TC115-M6-CE-	M 6	1	80	10	30	6	4,9	8	3	★
TC115-M8-CE-	M 8	1,25	90	12	35	8	6,2	9	3	★
TC115-M10-CE-	M 10	1,5	100	15	39	10	8	11	3	★

Ordering example for the WY80AA grade: TC115-M3-CE-WY80AA

DIN 376



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WY80AA
TC115-M12-LE-	M 12	1,75	110	16	83	9	7	10	3	★
TC115-M14-LE-	M 14	2	110	20	81	11	9	12	3	★
TC115-M16-LE-	M 16	2	110	20	68	12	9	12	3	★
TC115-M20-LE-	M 20	2,5	140	25	95	16	12	15	4	★

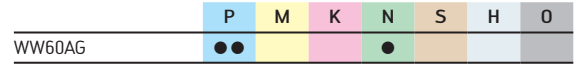
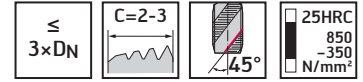
Ordering example for the WY80AA grade: TC115-M12-LE-WY80AA

HSS-E-PM machine taps

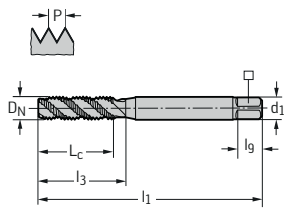
TC120 Supreme mm



- For long-chipping materials



DIN 371

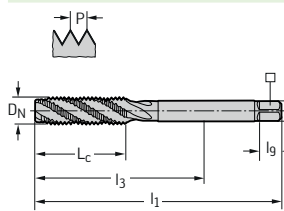


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AG
TC120-M3-C0-	M 3	0,5	56	10	18	3,5	2,7	6	3	
TC120-M4-C0-	M 4	0,7	63	13,5	21	4,5	3,4	6	3	
TC120-M5-C0-	M 5	0,8	70	16,5	25	6	4,9	8	3	
TC120-M6-C0-	M 6	1	80	20	30	6	4,9	8	3	
TC120-M8-C0-	M 8	1,25	90	26,5	35	8	6,2	9	3	
TC120-M10-C0-	M 10	1,5	100	33	39	10	8	11	3	

Ordering example for the WW60AG grade: TC120-M3-C0-WW60AG

B3

DIN 376



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AG
TC120-M12-L0-	M 12	1,75	110	39,5	83	9	7	10	4	
TC120-M16-L0-	M 16	2	120	52	78	12	9	12	4	
TC120-M20-L0-	M 20	2,5	140	65	95	16	12	15	4	
TC120-M24-L0-	M 24	3	160	78	113	18	14,5	17	4	
TC120-M30-L0-	M 30	3,5	205	97	140	22	18	21	4	

Ordering example for the WW60AG grade: TC120-M12-L0-WW60AG

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

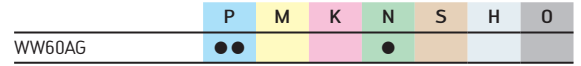
•• Primary application

• Other application

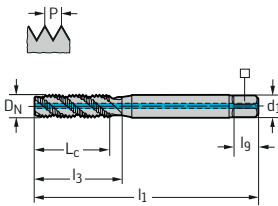
HSS-E-PM machine taps TC120 Supreme



– For long-chipping materials

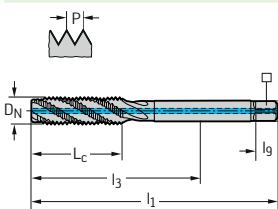


DIN 371											WW60AG
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N		
TC120-M8-C1-	M 8	1,25	90	26,5	35	8	6,2	9	3		
TC120-M10-C1-	M 10	1,5	100	33	39	10	8	11	3		



Ordering example for the WW60AG grade: TC120-M8-C1-WW60AG

DIN 376											WW60AG
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N		
TC120-M12-L1-	M 12	1,75	110	39,5	83	9	7	10	4		
TC120-M16-L1-	M 16	2	120	52	78	12	9	12	4		



Ordering example for the WW60AG grade: TC120-M12-L1-WW60AG

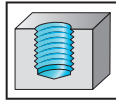
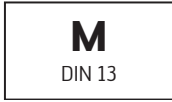
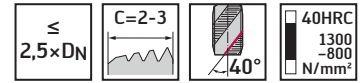
B3

HSS-E(-PM) machine taps

TC121 Supreme

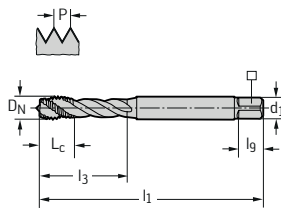


- WW60RG = HSS-E-PM + TiAlN
- WY80BD = HSS-E + TiCN



	P	M	K	N	S	H	O
WW60RG	●	●	●	●			
WY80BD	●	●	●	●			

DIN 371

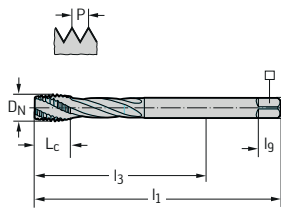


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60RG	WY80BD
TC121-M2-C0-	M 2	0,4	45	4	7,6	2,8	2,1	5	3	●	●
TC121-M3-C0-	M 3	0,5	56	6	11	3,5	2,7	6	3	●	●
TC121-M4-C0-	M 4	0,7	63	7	14,8	4,5	3,4	6	3	●	●
TC121-M5-C0-	M 5	0,8	70	8	20,7	6	4,9	8	3	●	●
TC121-M6-C0-	M 6	1	80	10	25	6	4,9	8	3	●	●
TC121-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	3	●	●
TC121-M10-C0-	M 10	1,5	100	15	39	10	8	11	3	●	●

Ordering example for the WW60RG grade: TC121-M2-C0-WW60RG

B3

DIN 376



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60RG	WY80BD
TC121-M12-L0-	M 12	1,75	110	16	83	9	7	10	4	●	●
TC121-M14-L0-	M 14	2	110	20	81	11	9	12	4	●	●
TC121-M16-L0-	M 16	2	110	20	68	12	9	12	4	●	●
TC121-M20-L0-	M 20	2,5	140	25	95	16	12	15	4	●	●

Ordering example for the WW60RG grade: TC121-M12-L0-WW60RG

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

HSS-E(-PM) machine taps TC121 Supreme

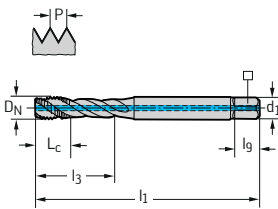


– For long-chipping materials



	P	M	K	N	S	H	O
WW60RG	●	●	●	●			

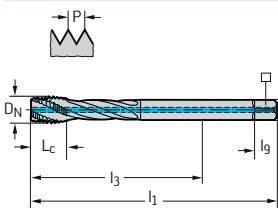
DIN 371



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60RG
TC121-M5-C1-	M 5	0,8	70	8	20,7	6	4,9	8	3	
TC121-M6-C1-	M 6	1	80	10	25	6	4,9	8	3	
TC121-M8-C1-	M 8	1,25	90	12	35	8	6,2	9	3	
TC121-M10-C1-	M 10	1,5	100	15	39	10	8	11	3	

Ordering example for the WW60RG grade: TC121-M5-C1-WW60RG

DIN 376



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60RG
TC121-M12-L1-	M 12	1,75	110	16	83	9	7	10	4	
TC121-M14-L1-	M 14	2	110	20	81	11	9	12	4	
TC121-M16-L1-	M 16	2	110	20	68	12	9	12	4	
TC121-M20-L1-	M 20	2,5	140	25	95	16	12	15	4	

Ordering example for the WW60RG grade: TC121-M12-L1-WW60RG

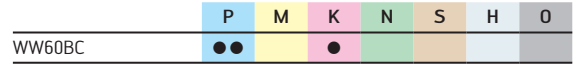
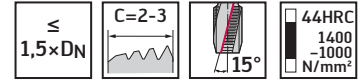
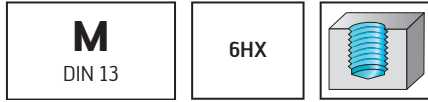
B3

HSS-E-PM machine taps

TC122 Supreme mm



- For long-chipping materials



DIN 371											WW60BC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC122-M3-C0-	M 3	0,5	56	10	10	3,5	2,7	6	3	☼	
TC122-M4-C0-	M 4	0,7	63	13	13	4,5	3,4	6	3	☼	
TC122-M5-C0-	M 5	0,8	70	16	16	6	4,9	8	3	☼	
TC122-M6-C0-	M 6	1	80	15	30	6	4,9	8	3	☼	
TC122-M8-C0-	M 8	1,25	90	18	35	8	6,2	9	3	☼	
TC122-M10-C0-	M 10	1,5	100	20	39	10	8	11	3	☼	

Ordering example for the WW60BC grade: TC122-M3-C0-WW60BC

B3

DIN 376											WW60BC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC122-M12-L0-	M 12	1,75	110	23	83	9	7	10	4	☼	
TC122-M14-L0-	M 14	2	110	25	81	11	9	12	4	☼	
TC122-M16-L0-	M 16	2	110	25	68	12	9	12	4	☼	
TC122-M20-L0-	M 20	2,5	140	30	95	16	12	15	4	☼	

Ordering example for the WW60BC grade: TC122-M12-L0-WW60BC

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

•• Primary application

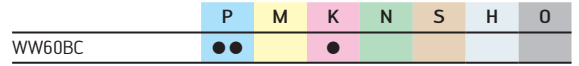
• Other application

HSS-E-PM machine taps

TC122 Supreme mm



– For long-chipping materials



DIN 371											WW60BC
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N		
TC122-M5-C1-	M 5	0,8	70	16	16	6	4,9	8	3	●	
TC122-M6-C1-	M 6	1	80	15	30	6	4,9	8	3	●	
TC122-M8-C1-	M 8	1,25	90	18	35	8	6,2	9	3	●	
TC122-M10-C1-	M 10	1,5	100	20	39	10	8	11	3	●	

Ordering example for the WW60BC grade: TC122-M5-C1-WW60BC

DIN 376											WW60BC
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N		
TC122-M12-L1-	M 12	1,75	110	23	83	9	7	10	4	●	
TC122-M14-L1-	M 14	2	110	25	81	11	9	12	4	●	
TC122-M16-L1-	M 16	2	110	25	68	12	9	12	4	●	
TC122-M20-L1-	M 20	2,5	140	30	95	16	12	15	4	●	

Ordering example for the WW60BC grade: TC122-M12-L1-WW60BC

B3

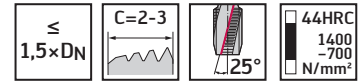
HSS-E-PM machine taps

mm

Paradur® Ni



- For long-chipping materials



	P	M	K	N	S	H	O
TiCN	●	●	●	●	●	●	●
Uncoated	●	●	●	●	●	●	●

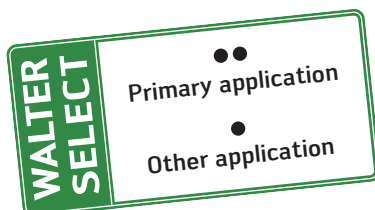
~DIN 371

Designation TiCN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
20410206-M2	204102-M2	M 2	0,4	45	8	8	2,8	2,1	5	3
20410206-M2.5	204102-M2.5	M 2.5	0,45	50	9	30	2,8	2,1	5	3
20410206-M3	204102-M3	M 3	0,5	56	10	35	3,5	2,7	6	3
20410206-M4	204102-M4	M 4	0,7	63	13	42	4,5	3,4	6	3
20410206-M5	204102-M5	M 5	0,8	70	16	16	6	4,9	8	3
20410206-M6	204102-M6	M 6	1	80	15	23	6	4,9	8	3
20410206-M8	204102-M8	M 8	1,25	90	18	29,5	8	6,2	9	3
20410206-M10	204102-M10	M 10	1,5	100	20	33,5	10	8	11	4

B3

DIN 376

Designation TiCN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	204602-M12	M 12	1,75	110	23	83	9	7	10	4
	204602-M14	M 14	2	110	25	81	11	9	12	4
	204602-M16	M 16	2	110	25	68	12	9	12	4
	204602-M18	M 18	2,5	125	30	81	14	11	14	5
	204602-M20	M 20	2,5	140	30	95	16	12	15	5



HSS-E machine taps

TC216 Perform mm



– For long-chipping materials

$\leq 3,5 \times DN$

$B=3,5-5$

32HRC
 1000-350
 N/mm²

MF
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA	●	●	●	●			
WY80FC	●	●	●	●			

DIN 374												WY80AA	WY80FC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N			WY80AA	WY80FC
TC216-M8X1-L0-	MF 8x1	1	90	18	67	6	4,9	8	3				
TC216-M10X1-L0-	MF 10x1	1	90	20	67	7	5,5	8	3				
TC216-M10X1.25-L0-	MF 10x1.25	1,25	100	20	77	7	5,5	8	3				
TC216-M12X1.25-L0-	MF 12x1.25	1,25	100	21	73	9	7	10	4				
TC216-M12X1.5-L0-	MF 12x1.5	1,5	100	21	73	9	7	10	4				
TC216-M14X1.5-L0-	MF 14x1.5	1,5	100	21	71	11	9	12	4				
TC216-M16X1.5-L0-	MF 16x1.5	1,5	100	21	58	12	9	12	4				
TC216-M18X1.5-L0-	MF 18x1.5	1,5	110	24	66	14	11	14	4				

Ordering example for the WY80FC grade: TC216-M8X1-L0-WY80FC

HSS-E machine taps

TC115 Perform mm



– For long-chipping materials

$\leq 3 \times DN$

$C=2-3$

45°

32HRC
 1000-350
 N/mm²

MF
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA	●	●	●	●			
WY80FC	●	●	●	●			

DIN 374												WY80AA	WY80FC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N			WY80AA	WY80FC
TC115-M8X1-L0-	MF 8x1	1	90	12	67	6	4,9	8	3				
TC115-M10X1-L0-	MF 10x1	1	90	12	67	7	5,5	8	3				
TC115-M10X1.25-L0-	MF 10x1.25	1,25	100	15	77	7	5,5	8	3				
TC115-M12X1.25-L0-	MF 12x1.25	1,25	100	13	73	9	7	10	4				
TC115-M12X1.5-L0-	MF 12x1.5	1,5	100	13	73	9	7	10	4				
TC115-M14X1.5-L0-	MF 14x1.5	1,5	100	15	71	11	9	12	4				
TC115-M16X1.5-L0-	MF 16x1.5	1,5	100	15	58	12	9	12	4				
TC115-M18X1.5-L0-	MF 18x1.5	1,5	110	17	66	14	11	14	4				

Ordering example for the WY80FC grade: TC115-M8X1-L0-WY80FC

B3

HSS-E-PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

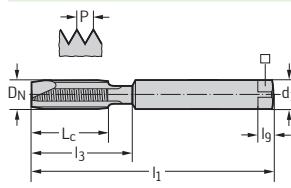
44HRC
1400
-700
N/mm²

MF
DIN 13

6HX

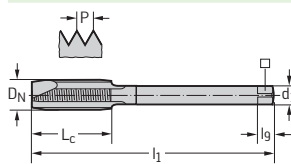
	P	M	K	N	S	H	O
TiCN	●●	●●	●●	●●	●●	●●	●●
Uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 371

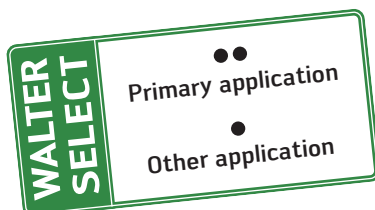


Designation TiCN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
21216106-M8X0.75	212161-M8X0.75	MF 8x0.75	0,75	80	10	29	8	6,2	9	3
21216106-M8X1	212161-M8X1	MF 8x1	1	90	12	29	8	6,2	9	3

DIN 374



Designation TiCN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
21266106-M10X1.25	212661-M10X1.25	MF 10x1.25	1,25	100	20	77	7	5,5	8	3
21266106-M12X1	212661-M12X1	MF 12x1	1	100	16	73	9	7	10	4
21266106-M12X1.25	212661-M12X1.25	MF 12x1.25	1,25	100	21	73	9	7	10	4
21266106-M12X1.5	212661-M12X1.5	MF 12x1.5	1,5	100	21	73	9	7	10	4
21266106-M14X1	212661-M14X1	MF 14x1	1	100	16	71	11	9	12	4
21266106-M14X1.5	212661-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	4
21266106-M16X1	212661-M16X1	MF 16x1	1	100	18	58	12	9	12	4



HSS-E machine taps

TC216 Perform



– For long-chipping materials

$\leq 3,5 \times D_N$

$B=3,5-5$

32HRC
 1000-350
 N/mm²

UNC
ASME B1.1

2B

	P	M	K	N	S	H	O
WY80AA	●	●	●	●			

DIN 371	Designation	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N	WY80AA
	TC216-UNC6-C0-	UNC 6-32	3,505	56	11	20	4	3	6	3	
	TC216-UNC8-C0-	UNC 8-32	4,166	63	12	21	4,5	3,4	6	3	
	TC216-UNC10-C0-	UNC 10-24	4,826	70	13	25	6	4,9	8	3	
	TC216-UNC1/4-C0-	UNC 1/4-20	6,35	80	15	30	7	5,5	8	3	
	TC216-UNC5/16-C0-	UNC 5/16-18	7,938	90	18	35	8	6,2	9	3	
	TC216-UNC3/8-C0-	UNC 3/8-16	9,525	100	20	39	10	8	11	3	

Ordering example for the WY80AA grade: TC216-UNC6-C0-WY80AA

DIN 376	Designation	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N	WY80AA
	TC216-UNC1/2-L0-	UNC 1/2-13	12,7	110	23	83	9	7	10	4	
	TC216-UNC5/8-L0-	UNC 5/8-11	15,875	110	25	68	12	9	12	4	
	TC216-UNC3/4-L0-	UNC 3/4-10	19,05	125	30	81	14	11	14	4	

Ordering example for the WY80AA grade: TC216-UNC1/2-L0-WY80AA

B3

HSS-E-PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

$\leq 2 \times D_N$

$B=3,5-5$

44HRC
1400
-700
N/mm²

UNC
ASME B1.1

3B

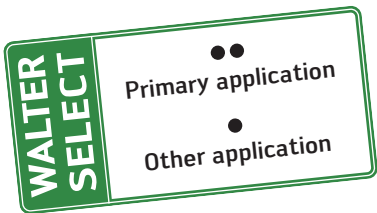
	P	M	K	N	S	H	O
TiCN	●●	●●	●●	●●	●●		
Uncoated	●●	●●	●●	●●	●●		

~DIN 2184-1	Designation	Designation	D_N -P	D_N	l_1	L_c	l_3	d_1	□	l_g	N
	TiCN	uncoated		mm	h9 mm						
	2220706-UNC2	22207-UNC2	UNC 2-56	2,184	45	9	9	2,8	2,1	5	2
	2220706-UNC4	22207-UNC4	UNC 4-40	2,845	56	10	10	3,5	2,7	6	2
	2220706-UNC6	22207-UNC6	UNC 6-32	3,505	56	12	12	4	3	6	3
	2220706-UNC8	22207-UNC8	UNC 8-32	4,166	63	13	13	4,5	3,4	6	3
	2220706-UNC10	22207-UNC10	UNC 10-24	4,826	70	16	16	6	4,9	8	3
	2220706-UNC1/4	22207-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
	2220706-UNC5/16	22207-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
	2220706-UNC3/8	22207-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

B3

DIN 2184-1	Designation	Designation	D_N -P	D_N	l_1	L_c	l_3	d_1	□	l_g	N
	TiCN	uncoated		mm	h9 mm						
	2225706-UNC7/16	22257-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
	2225706-UNC1/2	22257-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
	2225706-UNC5/8	22257-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4



HSS-E-PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

UNC
ASME B1.1

2B

	P	M	K	N	S	H	O
TiCN	●	●	●	●	●	●	●
Uncoated	●	●	●	●	●	●	●

~DIN 2184-1		Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
	2221706-UNC2	22217-UNC2	UNC 2-56	2,184	45	9	9	2,8	2,1	5	2	
	2221706-UNC4	22217-UNC4	UNC 4-40	2,845	56	10	10	3,5	2,7	6	2	
	2221706-UNC5	22217-UNC5	UNC 5-40	3,175	56	10	10	3,5	2,7	6	2	
	2221706-UNC6	22217-UNC6	UNC 6-32	3,505	56	12	12	4	3	6	3	
	2221706-UNC8	22217-UNC8	UNC 8-32	4,166	63	13	13	4,5	3,4	6	3	
	2221706-UNC10	22217-UNC10	UNC 10-24	4,826	70	16	16	6	4,9	8	3	
	2221706-UNC1/4	22217-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3	
	2221706-UNC5/16	22217-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3	
	2221706-UNC3/8	22217-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	3	

≤ UNC 10: Without reduced neck after the thread

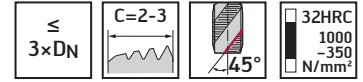
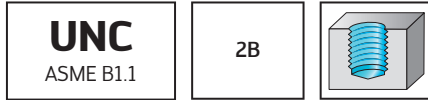
DIN 2184-1		Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
	2226706-UNC7/16	22267-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4	
	2226706-UNC1/2	22267-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4	
	2226706-UNC9/16	22267-UNC9/16	UNC 9/16-12	14,288	110	25	81	11	9	12	4	
	2226706-UNC5/8	22267-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4	
	2226706-UNC3/4	22267-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	4	

B3

HSS-E machine taps
TC115 Perform

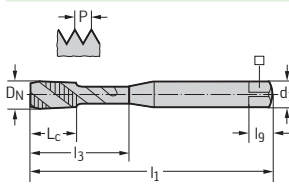


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●	●	●	●			

DIN 371

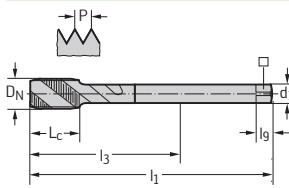


Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC115-UNC6-C0-	UNC 6-32	3,505	56	6,5	20	4	3	6	3	●
TC115-UNC8-C0-	UNC 8-32	4,166	63	7	21	4,5	3,4	6	3	●
TC115-UNC10-C0-	UNC 10-24	4,826	70	8	25	6	4,9	8	3	●
TC115-UNC1/4-C0-	UNC 1/4-20	6,35	80	10	30	7	5,5	8	3	●
TC115-UNC5/16-C0-	UNC 5/16-18	7,938	90	12	35	8	6,2	9	3	●
TC115-UNC3/8-C0-	UNC 3/8-16	9,525	100	15	39	10	8	11	3	●

Ordering example for the WY80AA grade: TC115-UNC6-C0-WY80AA

B3

DIN 376



Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC115-UNC1/2-L0-	UNC 1/2-13	12,7	110	18	83	9	7	10	3	●
TC115-UNC5/8-L0-	UNC 5/8-11	15,875	110	20	68	12	9	12	3	●
TC115-UNC3/4-L0-	UNC 3/4-10	19,05	125	25	81	14	11	14	4	●

Ordering example for the WY80AA grade: TC115-UNC1/2-L0-WY80AA

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

HSS-E machine taps

mm

Paradur® HT



– For long-chipping and short-chipping materials

UNC
ASME B1.1

2B

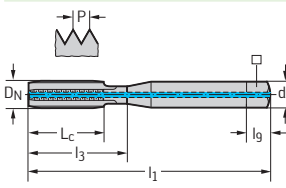
$\leq 3,5 \times DN$

$C=2-3$

44HRC
1400
-500
N/mm²

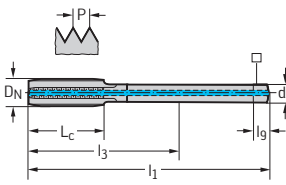
	P	M	K	N	S	H	O
TiN	●●		●●	●			●

DIN 2184-1



Designation TiN	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
2231115-UNC1/4	UNC 1/4-20	6,35	80	15	30	7	5,5	8	3
2231115-UNC5/16	UNC 5/16-18	7,938	90	18	35	8	6,2	9	3
2231115-UNC3/8	UNC 3/8-16	9,525	100	20	39	10	8	11	3

DIN 2184-1



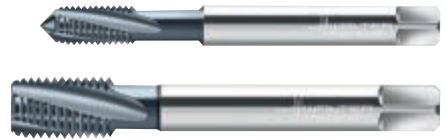
Designation TiN	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
2236115-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	3
2236115-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	3
2236115-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	3
2236115-UNC1	UNC 1"-8	25,4	160	36	113	18	14,5	17	4

B3

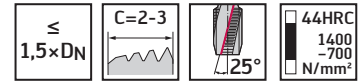
HSS-E-PM machine taps

mm

Paradur® Ni



- For long-chipping materials



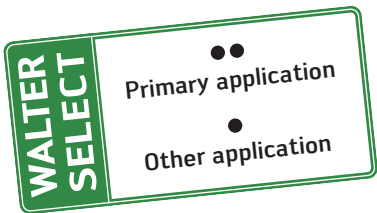
	P	M	K	N	S	H	O
TiCN	●	●	●	●	●	●	●
Uncoated	●	●	●	●	●	●	●

~DIN 2184-1	Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	22410206-UNC2	224102-UNC2	UNC 2-56	2,184	45	9	9	2,8	2,1	5	3
	22410206-UNC3	224102-UNC3	UNC 3-48	2,515	50	9	9	2,8	2,1	5	3
	22410206-UNC4	224102-UNC4	UNC 4-40	2,845	56	10	10	3,5	2,7	6	3
	22410206-UNC6	224102-UNC6	UNC 6-32	3,505	56	12	12	4	3	6	3
	22410206-UNC8	224102-UNC8	UNC 8-32	4,166	63	13	13	4,5	3,4	6	3
	22410206-UNC10	224102-UNC10	UNC 10-24	4,826	70	16	16	6	4,9	8	3
	22410206-UNC1/4	224102-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
	22410206-UNC5/16	224102-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
	22410206-UNC3/8	224102-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	4

≤ UNC 10: Without reduced neck after the thread

B3

DIN 2184-1	Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	22460206-UNC7/16	224602-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
	22460206-UNC1/2	224602-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
	22460206-UNC5/8	224602-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4
	22460206-UNC3/4	224602-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	5



HSS-E-PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

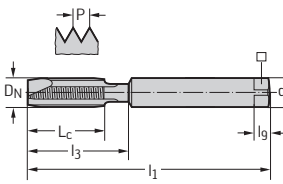
44HRC
1400
-700
N/mm²

UNF
ASME B1.1

3B

	P	M	K	N	S	H	O
TiCN	●	●	●	●	●	●	●
Uncoated	●	●	●	●	●	●	●

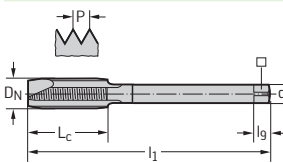
~DIN 2184-1



Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l ₉ mm	N
2320706-UNF4	23207-UNF4	UNF 4-48	2,845	56	10	10	3,5	2,7	6	2
2320706-UNF5	23207-UNF5	UNF 5-44	3,175	56	10	10	3,5	2,7	6	2
2320706-UNF6	23207-UNF6	UNF 6-40	3,505	56	12	12	4	3	6	3
2320706-UNF8	23207-UNF8	UNF 8-36	4,166	63	13	13	4,5	3,4	6	3
2320706-UNF10	23207-UNF10	UNF 10-32	4,826	70	16	16	6	4,9	8	3
2320706-UNF1/4	23207-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
2320706-UNF5/16	23207-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
2320706-UNF3/8	23207-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1



Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ h9 mm	L _c mm	l ₃ mm	d ₁ mm	□ mm	l ₉ mm	N
2325706-UNF7/16	23257-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
2325706-UNF1/2	23257-UNF1/2	UNF 1/2-20	12,7	100	23	73	9	7	10	4
2325706-UNF5/8	23257-UNF5/8	UNF 5/8-18	15,875	100	25	58	12	9	12	4

B3

HSS-E-PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

$\leq 2 \times DN$

$B=3,5-5$

44HRC
1400
-700
N/mm²

UNF
ASME B1.1

2B

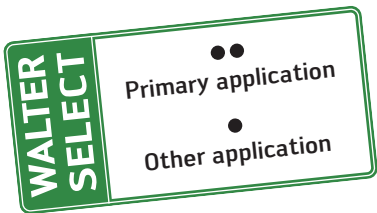
	P	M	K	N	S	H	O
TiCN	●●	●●	●●	●●	●●	●●	●●
Uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1	Designation	Designation	D_N -P	D_N mm	l_1 h9 mm	L_c mm	l_3 mm	d_1 mm	□ mm	l_g mm	N
	TiCN	uncoated									
	2321706-UNF5	23217-UNF5	UNF 5-44	3,175	56	10	10	3,5	2,7	6	2
	2321706-UNF6	23217-UNF6	UNF 6-40	3,505	56	12	12	4	3	6	3
	2321706-UNF10	23217-UNF10	UNF 10-32	4,826	70	16	16	6	4,9	8	3
	2321706-UNF1/4	23217-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
	2321706-UNF5/16	23217-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
	2321706-UNF3/8	23217-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

B3

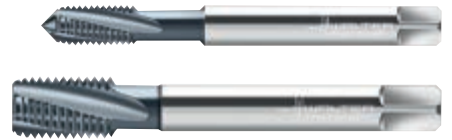
DIN 2184-1	Designation	Designation	D_N -P	D_N mm	l_1 h9 mm	L_c mm	l_3 mm	d_1 mm	□ mm	l_g mm	N
	TiCN	uncoated									
	2326706-UNF7/16	23267-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
	2326706-UNF1/2	23267-UNF1/2	UNF 1/2-20	12,7	100	23	73	9	7	10	4
	2326706-UNF5/8	23267-UNF5/8	UNF 5/8-18	15,875	100	25	58	12	9	12	4



HSS-E-PM machine taps

mm

Paradur® Ni



– For long-chipping materials

≤
1,5×DN

C=2-3

25°

44HRC
1400
-700
N/mm²

UNF
ASME B1.1

3B

	P	M	K	N	S	H	O
TiCN	●				●●		
Uncoated	●				●●		

~DIN 2184-1	Designation	Designation	D _N -P	D _N	l ₁	L _c	l ₃	d ₁	□	l _g	N
	TiCN	uncoated		mm	mm	mm	mm	h9 mm	mm	mm	
	23410406-UNF8	234104-UNF8	UNF 8-36	4,166	63	13	42	4,5	3,4	6	3
	23410406-UNF10	234104-UNF10	UNF 10-32	4,826	70	16	16	6	4,9	8	3
	23410406-UNF12	234104-UNF12	UNF 12-28	5,486	80	15	23	6	4,9	8	3
	23410406-UNF1/4	234104-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
	23410406-UNF5/16	234104-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
	23410406-UNF3/8	234104-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	4

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1	Designation	Designation	D _N -P	D _N	l ₁	L _c	l ₃	d ₁	□	l _g	N
	TiCN	uncoated		mm	mm	mm	mm	h9 mm	mm	mm	
	23460406-UNF7/16	234604-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
	23460406-UNF1/2	234604-UNF1/2	UNF 1/2-20	12,7	100	23	73	9	7	10	4
	23460406-UNF5/8	234604-UNF5/8	UNF 5/8-18	15,875	100	25	58	12	9	12	4

B3

HSS-E machine taps

mm

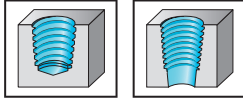


Paradur® Ni

- For long-chipping materials

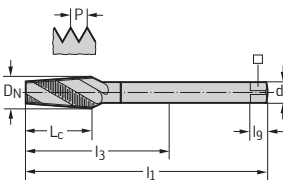


NPT
ASME B1.20.1



	P	M	K	N	S	H	O
TiCN	●	●	●	●	●●	●	●
Uncoated	●	●	●	●	●●	●	●

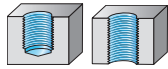
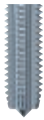

PWZ



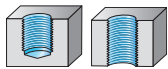
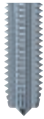
Designation TiCN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
2546706-NPT1/16	25467-NPT1/16	NPT 1/16-27	7,717	27	80	14	56	8	6,2	6	3
2546706-NPT1/8	25467-NPT1/8	NPT 1/8-27	10,065	27	90	14	61	11	9	9	4
2546706-NPT1/4	25467-NPT1/4	NPT 1/4-18	13,372	18	100	20	56	14	11	11	4
2546706-NPT3/8	25467-NPT3/8	NPT 3/8-18	16,812	18	110	20	65	16	12	12	5
2546706-NPT1/2	25467-NPT1/2	NPT 1/2-14	20,947	14	125	26	78	18	14,5	15	5
2546706-NPT3/4	25467-NPT3/4	NPT 3/4-14	26,292	14	140	26	75	22	18	18	5
2546706-NPT1	25467-NPT1	NPT 1"-11.5	32,914	12	150	31	81	28	22	22	5

Taper ratio 1:16

Solid carbide taps product range overview M – Metric thread

Machining		
Thread depth	$2 \times D_N$	
Designation	TC388 Supreme	TC389 Supreme
Dimension range	M 3–M 16	M 3–M 16
Tolerance	6HX	6HX
Coolant supply	External	External
Chamfer form	C	D
Coating/grade	WJ30BA	WE10BA
Version length	M	M
Page	378	378
		

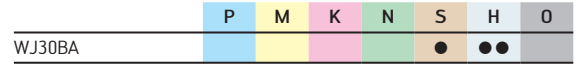
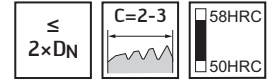
Solid carbide taps product range overview G

Machining	
Thread depth	$2 \times D_N$
Designation	TC388 Supreme
Dimension range	G 1/8–28– G 1/4–19
Tolerance	6HX
Coolant supply	External
Chamfer form	C
Coating/grade	WJ30BA
Version length	M
Page	379
	

Solid carbide machine taps TC388 Supreme



- Taps for hardened materials
- Drill core hole at upper tolerance end



~DIN 371

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	mm	l _g mm	N	WJ30BA
TC388-M3-C0-	M 3	0,5	56	8	35	3,5	2,7	6	4	☺
TC388-M4-C0-	M 4	0,7	63	11	42	4,5	3,4	6	5	☺
TC388-M5-C0-	M 5	0,8	70	13,5	47	6	4,9	8	5	☺
TC388-M6-C0-	M 6	1	80	16,5	57	6	4,9	8	5	☺
TC388-M8-C0-	M 8	1,25	90	21,5	66	8	6,2	9	5	☺
TC388-M10-C0-	M 10	1,5	100	27	72	10	8	11	5	☺
TC388-M12-C0-	M 12	1,75	110	32	68	12	9	12	6	☺
TC388-M16-C0-	M 16	2	110	41	65	16	12	15	6	☺

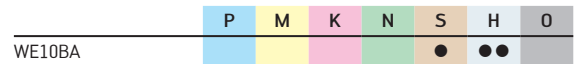
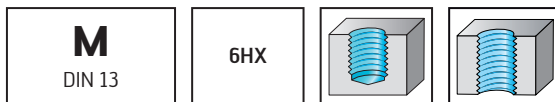
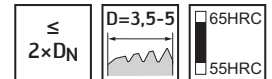
Without reduced neck after the thread
Ordering example for the WJ30BA grade: TC388-M3-C0-WJ30BA

B3

Solid carbide machine taps TC389 Supreme



- Taps for hardened materials
- Drill core hole at upper tolerance end



~DIN 371

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	mm	l _g mm	N	WE10BA
TC389-M3-CD-	M 3	0,5	56	9	35	3,5	2,7	6	4	☺
TC389-M4-CD-	M 4	0,7	63	12	42	4,5	3,4	6	5	☺
TC389-M5-CD-	M 5	0,8	70	14,5	47	6	4,9	8	5	☺
TC389-M6-CD-	M 6	1	80	18	57	6	4,9	8	5	☺
TC389-M8-CD-	M 8	1,25	90	23,5	66	8	6,2	9	5	☺
TC389-M10-CD-	M 10	1,5	100	29	72	10	8	11	5	☺
TC389-M12-CD-	M 12	1,75	110	34,5	68	12	9	12	6	☺
TC389-M16-CD-	M 16	2	110	44	65	16	12	15	6	☺

Without reduced neck after the thread
Ordering example for the WE10BA grade: TC389-M3-CD-WE10BA

☺ ☺ ☺ / ★ New addition to the product range

Solid carbide machine taps

TC388 Supreme

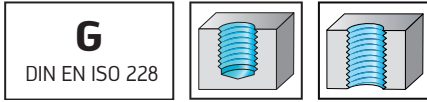


- Taps for hardened materials
- Drill core hole at upper tolerance end

≤
2×DN

C=2-3

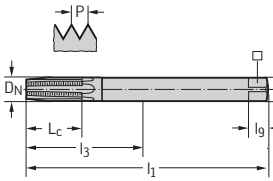
58HRC
50HRC



WJ30BA	P	M	K	N	S	H	O
--------	---	---	---	---	---	---	---

~DIN 371												WJ30BA
Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	mm	l _g mm	N		
TC388-G1/8-C0-	G 1/8-28	9,728	28	90	23,5	62	10	8	11	5		
TC388-G1/4-C0-	G 1/4-19	13,157	19	100	32,5	56	14	11	14	6		

Without reduced neck after the thread
 Ordering example for the WJ30BA grade: TC388-G1/8-C0-WJ30BA



HSS-E(-PM) and solid carbide thread formers product range overview

M – Metric thread

Machining						
Thread depth	3 × D_N			3,5 × D_N		
Designation	TC420 Supreme	TC410 Advance	TC410 Advance	TC420 Supreme	TC430 Supreme	TC410 Advance
Dimension range	M 2–M 20	M 1–M 24	M 3 LH–M 16 LH	M 2–M 20	M 3–M 16	M 2–M 24
Tolerance	6HX / 6GX	6HX / 6GX / 7GX	6HX	6HX / 6GX	6HX / 6GX	6HX / 6GX / 7GX
Coolant supply	External	External	External	External/radial	External/radial	External
Chamfer form	C	C / D	C	C / E	C	C
Coating/grade	WW60AD / WW60BA	WY80AD	WY80AD	WW60AD / WW60BA	WW60AD / WW60EL	WY80AD
Cutting tool material	HSS-E-PM	HSS-E	HSS-E	HSS-E-PM	HSS-E-PM	HSS-E
Page	383	396	398	386	392	401

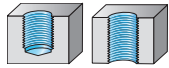


Machining			
Thread depth	3 × D_N	3,5 × D_N	
Designation	TC420 Supreme	TC420 Supreme	TC430 Supreme
Dimension range	M 5–M 16	M 2–M 16	M 8–M 16
Tolerance	6HX	6HX	6HX
Coolant supply	Axial	External	Axial
Chamfer form	C	E	C
Coating/grade	WW60AD / WW60BA	WW60AD / WW60BA	WW60AD
Cutting tool material	HSS-E-PM	HSS-E-PM	HSS-E-PM
Page	384	391	393

HSS-E(-PM) and solid carbide thread formers product range overview


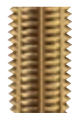
MF – Metric fine-pitch thread

Machining					
Thread depth	3,5 × D_N			3,5 × D_N	
Designation	TC420 Supreme	TC430 Supreme	TC410 Advance	TC420 Supreme	TC430 Supreme
Dimension range	MF 8x1– MF 16x1.5	MF 8x1– MF 16x1.5	MF 4x0.5– MF 30x2	MF 8x1– MF 14x1.5	MF 8x1– M 16x1.5
Tolerance	6HX / 6GX	6HX	6HX / 6GX	6HX	6HX
Coolant supply	External/radial	External/radial	External	Axial	Axial
Chamfer form	C	C	C / E	C	C
Coating/grade	WW60AD / WW60BA	WW60AD / WW60EL	WY80AD	WW60AD	WW60AD
Cutting tool material	HSS-E-PM	HSS-E-PM	HSS-E	HSS-E-PM	HSS-E-PM
Page	404	406	408	404	406

HSS-E and solid carbide thread formers product range overview UNC / UNF

Machining		
Thread depth	$3,5 \times D_N$	
Designation	TC410 Advance	TC410 Advance
Dimension range	UNC 2-56– UNC 5/8-11	UNF 2-64– UNF 5/8-18
Tolerance	2BX	2BX
Coolant supply	External	External
Chamfer form	C	C
Coating/grade	WY80AD	WY80AD
Cutting tool material	HSS-E	HSS-E
Page	410	411
		

HSS-E and solid carbide thread formers product range overview G

Machining	
Thread depth	$3,5 \times D_N$
Designation	TC410 Advance
Dimension range	G 1/8-28– G 1"-11
Tolerance	NORMAL
Coolant supply	External
Chamfer form	C
Coating/grade	WY80AD
Cutting tool material	HSS-E
Page	412
	

Designation key HSS-E(-PM) thread formers

Example:

T	C	4	20	–	M10	–	C	1	–	W	W	60	AD
1	2	3	4	5	6		7	8		Grade			

1	2	3	4
Tool group	Generation	Tool type	Tool type
T Threading		4 Thread formers	10/20 Universal 200–1200 N/mm ² 30 ISO P 200–1200 N/mm ²

5	6	7	8						
1. Delimiters	Thread dimensions	Tolerance/shank type	Modification						
– Metric · DIN/ANSI		<table border="0"> <tr> <td>C 6HX, 2BX Reinforced shank</td> <td>L 6HX, 2BX Reduced shank</td> </tr> <tr> <td>E 6GX Reinforced shank</td> <td>N 6GX Reduced shank</td> </tr> <tr> <td>F 7GX Reinforced shank</td> <td>P 7GX Reduced shank</td> </tr> </table>	C 6HX, 2BX Reinforced shank	L 6HX, 2BX Reduced shank	E 6GX Reinforced shank	N 6GX Reduced shank	F 7GX Reinforced shank	P 7GX Reduced shank	0 External coolant without lubrication grooves 1 Axial internal coolant, without lubrication grooves 2 Radial internal coolant 6 External coolant with lubrication grooves E Chamfer form E H Extended shank XL
C 6HX, 2BX Reinforced shank	L 6HX, 2BX Reduced shank								
E 6GX Reinforced shank	N 6GX Reduced shank								
F 7GX Reinforced shank	P 7GX Reduced shank								

B3

Grade designation key for solid carbide and HSS-E(-PM) cutting tool materials

Example:

W	W	60	AD
Walter	1	2	3

1	2	3
Substrate	Application range	Coating
Solid carbide HSS-E-PM W HSS-E Y	Wear resistance 05 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 Toughness	AD TiN BA TiCN EL AlCrN

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials

≤
3×DN

C=2-3

36HRC
1200
-200
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M2-C0-	M 2	0,4	45	4	11	2,8	2,1	5	3			
TC420-M2.5-C0-	M 2.5	0,45	50	4	14	2,8	2,1	5	3			
TC420-M3-C0-	M 3	0,5	56	6	18	3,5	2,7	6	4			
TC420-M3.5-C0-	M 3.5	0,6	56	7	20	4	3	6	4			
TC420-M4-C0-	M 4	0,7	63	7	21	4,5	3,4	6	5			
TC420-M5-C0-	M 5	0,8	70	8	25	6	4,9	8	5			
TC420-M6-C0-	M 6	1	80	10	30	6	4,9	8	5			
TC420-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	5			
TC420-M10-C0-	M 10	1,5	100	15	39	10	8	11	6			

Ordering example for the WW60AD grade: TC420-M2-C0-WW60AD

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M12-L0-	M 12	1,75	110	16	83	9	7	10	6			
TC420-M14-L0-	M 14	2	110	20	81	11	9	12	6			
TC420-M16-L0-	M 16	2	110	20	68	12	9	12	6			
TC420-M20-L0-	M 20	2,5	140	25	95	16	12	15	7			

Ordering example for the WW60AD grade: TC420-M12-L0-WW60AD

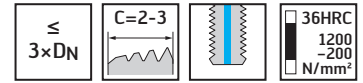
B3

HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
		TC420-M5-C1-	M 5	0,8	70	8	25	6	4,9	8	5	●	●
		TC420-M6-C1-	M 6	1	80	10	30	6	4,9	8	5	●	●
		TC420-M8-C1-	M 8	1,25	90	12	35	8	6,2	9	5	●	●
		TC420-M10-C1-	M 10	1,5	100	15	39	10	8	11	6	●	●

Ordering example for the WW60AD grade: TC420-M5-C1-WW60AD

B3

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
		TC420-M12-L1-	M 12	1,75	110	16	83	9	7	10	6	●	●
		TC420-M14-L1-	M 14	2	110	20	81	11	9	12	6	●	●
		TC420-M16-L1-	M 16	2	110	20	68	12	9	12	6	●	●

Ordering example for the WW60AD grade: TC420-M12-L1-WW60AD

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials

$\leq 3 \times DN$

$C=2-3$

36HRC
 1200
 -200
 N/mm²

M
 DIN 13

6GX

	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M2-E0-	M 2	0,4	45	4	11	2,8	2,1	5	3			
TC420-M2.5-E0-	M 2.5	0,45	50	4	14	2,8	2,1	5	3			
TC420-M3-E0-	M 3	0,5	56	6	18	3,5	2,7	6	4			
TC420-M3.5-E0-	M 3.5	0,6	56	7	20	4	3	6	4			
TC420-M4-E0-	M 4	0,7	63	7	21	4,5	3,4	6	5			
TC420-M5-E0-	M 5	0,8	70	8	25	6	4,9	8	5			
TC420-M6-E0-	M 6	1	80	10	30	6	4,9	8	5			
TC420-M8-E0-	M 8	1,25	90	12	35	8	6,2	9	5			
TC420-M10-E0-	M 10	1,5	100	15	39	10	8	11	6			

Ordering example for the WW60AD grade: TC420-M2-E0-WW60AD

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M12-N0-	M 12	1,75	110	16	83	9	7	10	6			
TC420-M14-N0-	M 14	2	110	20	81	11	9	12	6			
TC420-M16-N0-	M 16	2	110	20	68	12	9	12	6			

Ordering example for the WW60AD grade: TC420-M12-N0-WW60AD

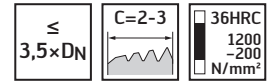
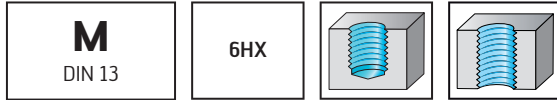
B3

HSS-E-PM machine thread formers

TC420 Supreme

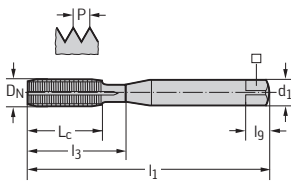


– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174

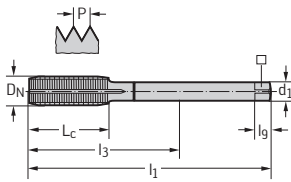


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-C6-	M 2	0,4	45	4	11	2,8	2,1	5	3	●	●
TC420-M2.5-C6-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	●	●
TC420-M3-C6-	M 3	0,5	56	6	18	3,5	2,7	6	4	●	●
TC420-M3.5-C6-	M 3.5	0,6	56	7	20	4	3	6	4	●	●
TC420-M4-C6-	M 4	0,7	63	7	21	4,5	3,4	6	5	●	●
TC420-M5-C6-	M 5	0,8	70	8	25	6	4,9	8	5	●	●
TC420-M6-C6-	M 6	1	80	10	30	6	4,9	8	5	●	●
TC420-M8-C6-	M 8	1,25	90	12	35	8	6,2	9	5	●	●
TC420-M10-C6-	M 10	1,5	100	15	39	10	8	11	6	●	●

Ordering example for the WW60AD grade: TC420-M2-C6-WW60AD

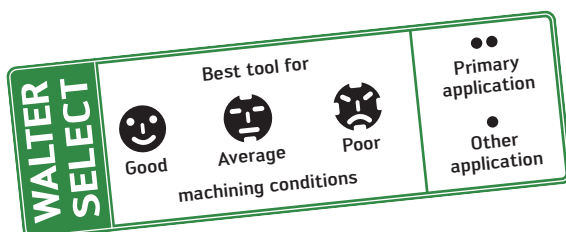
B3

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-L6-	M 12	1,75	110	16	83	9	7	10	6	●	●
TC420-M14-L6-	M 14	2	110	20	81	11	9	12	6	●	●
TC420-M16-L6-	M 16	2	110	20	68	12	9	12	6	●	●
TC420-M20-L6-	M 20	2,5	140	25	95	16	12	15	7	●	●

Ordering example for the WW60AD grade: TC420-M12-L6-WW60AD

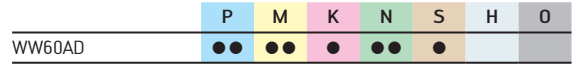
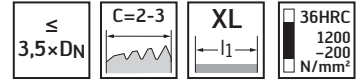
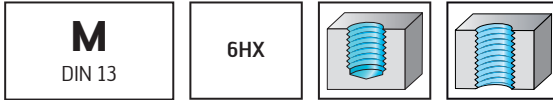


HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials



~DIN 371 XL

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AD
TC420-M3-CH-	M 3	0,5	125	6	18	3,5	2,7	6	4	
TC420-M4-CH-	M 4	0,7	125	7	21	4,5	3,4	6	5	
TC420-M5-CH-	M 5	0,8	140	8	25	6	4,9	8	5	
TC420-M6-CH-	M 6	1	160	10	30	6	4,9	8	5	

Ordering example for the WW60AD grade: TC420-M3-CH-WW60AD

~DIN376 XL

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AD
TC420-M8-LH-	M 8	1,25	180	13	157	6	4,9	8	5	
TC420-M10-LH-	M 10	1,5	200	15	177	7	5,5	8	6	
TC420-M12-LH-	M 12	1,75	220	16	193	9	7	10	6	
TC420-M16-LH-	M 16	2	220	20	178	12	9	12	6	

Ordering example for the WW60AD grade: TC420-M8-LH-WW60AD

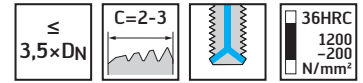
B3

HSS-E-PM machine thread formers

TC420 Supreme mm

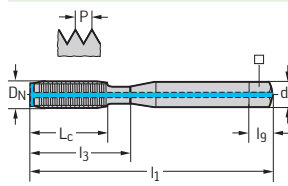


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174

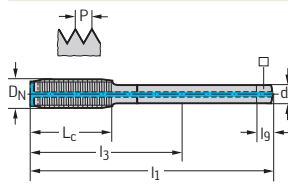


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M5-C2-	M 5	0,8	70	8	25	6	4,9	8	5	●	●
TC420-M6-C2-	M 6	1	80	10	30	6	4,9	8	5	●	●
TC420-M8-C2-	M 8	1,25	90	12	35	8	6,2	9	5	●	●
TC420-M10-C2-	M 10	1,5	100	15	39	10	8	11	6	●	●

Ordering example for the WW60AD grade: TC420-M5-C2-WW60AD

B3

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-L2-	M 12	1,75	110	16	83	9	7	10	6	●	●
TC420-M14-L2-	M 14	2	110	20	81	11	9	12	6	●	●
TC420-M16-L2-	M 16	2	110	20	68	12	9	12	6	●	●
TC420-M20-L2-	M 20	2,5	140	25	95	16	12	15	7	●	●

Ordering example for the WW60AD grade: TC420-M12-L2-WW60AD

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials

$\leq 3,5 \times DN$	E=1,5-2	36HRC 1200 -200 N/mm ²
----------------------	---------	--------------------------------------------

M DIN 13	6HX	
--------------------	------------	--

	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M2-CE-	M 2	0,4	45	4	11	2,8	2,1	5	3			
TC420-M2.5-CE-	M 2.5	0,45	50	4	14	2,8	2,1	5	3			
TC420-M3-CE-	M 3	0,5	56	6	18	3,5	2,7	6	4			
TC420-M3.5-CE-	M 3.5	0,6	56	7	20	4	3	6	4			
TC420-M4-CE-	M 4	0,7	63	7	21	4,5	3,4	6	5			
TC420-M5-CE-	M 5	0,8	70	8	25	6	4,9	8	5			
TC420-M6-CE-	M 6	1	80	10	30	6	4,9	8	5			
TC420-M8-CE-	M 8	1,25	90	12	35	8	6,2	9	5			
TC420-M10-CE-	M 10	1,5	100	15	39	10	8	11	6			

Ordering example for the WW60AD grade: TC420-M2-CE-WW60AD

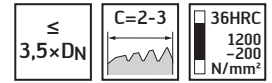
DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M12-LE-	M 12	1,75	110	16	83	9	7	10	6			
TC420-M14-LE-	M 14	2	110	20	81	11	9	12	6			
TC420-M16-LE-	M 16	2	110	20	68	12	9	12	6			

Ordering example for the WW60AD grade: TC420-M12-LE-WW60AD

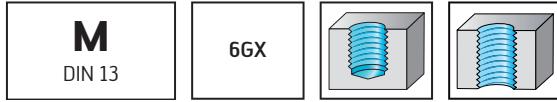
B3

HSS-E-PM machine thread formers

TC420 Supreme

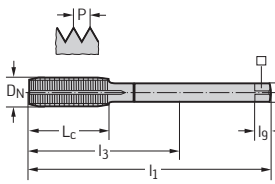


– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174

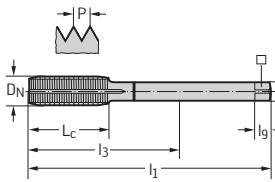


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-E6-	M 2	0,4	45	4	11	2,8	2,1	5	3	●	●
TC420-M2.5-E6-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	●	●
TC420-M3-E6-	M 3	0,5	56	6	18	3,5	2,7	6	4	●	●
TC420-M3.5-E6-	M 3.5	0,6	56	7	20	4	3	6	4	●	●
TC420-M4-E6-	M 4	0,7	63	7	21	4,5	3,4	6	5	●	●
TC420-M5-E6-	M 5	0,8	70	8	25	6	4,9	8	5	●	●
TC420-M6-E6-	M 6	1	80	10	30	6	4,9	8	5	●	●
TC420-M8-E6-	M 8	1,25	90	12	35	8	6,2	9	5	●	●
TC420-M10-E6-	M 10	1,5	100	15	39	10	8	11	6	●	●

Ordering example for the WW60AD grade: TC420-M2-E6-WW60AD

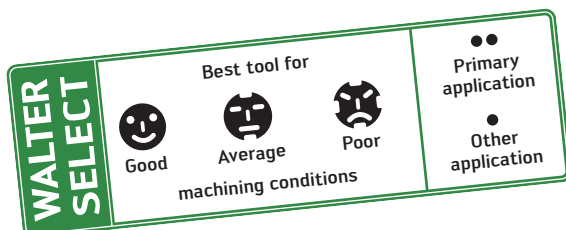
B3

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-N6-	M 12	1,75	110	16	83	9	7	10	6	●	
TC420-M14-N6-	M 14	2	110	20	81	11	9	12	6	●	
TC420-M16-N6-	M 16	2	110	20	68	12	9	12	6	●	

Ordering example for the WW60AD grade: TC420-M12-N6-WW60AD



HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials

$\leq 3,5 \times DN$

$E=1,5-2$

36HRC
 1200
 -200
 N/mm²

M
 DIN 13

6GX

	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M2-EE-	M 2	0,4	45	4	11	2,8	2,1	5	3		☼	☼
TC420-M2.5-EE-	M 2.5	0,45	50	4	14	2,8	2,1	5	3		☼	☼
TC420-M3-EE-	M 3	0,5	56	6	18	3,5	2,7	6	4		☼	☼
TC420-M4-EE-	M 4	0,7	63	7	21	4,5	3,4	6	5		☼	☼
TC420-M5-EE-	M 5	0,8	70	8	25	6	4,9	8	5		☼	☼
TC420-M6-EE-	M 6	1	80	10	30	6	4,9	8	5		☼	☼
TC420-M8-EE-	M 8	1,25	90	12	35	8	6,2	9	5		☼	☼
TC420-M10-EE-	M 10	1,5	100	15	39	10	8	11	6		☼	☼

Ordering example for the WW60AD grade: TC420-M2-EE-WW60AD

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WW60AD	WW60BA
TC420-M12-NE-	M 12	1,75	110	16	83	9	7	10	6		☼	
TC420-M14-NE-	M 14	2	110	20	81	11	9	12	6		☼	
TC420-M16-NE-	M 16	2	110	20	68	12	9	12	6		☼	

Ordering example for the WW60AD grade: TC420-M12-NE-WW60AD

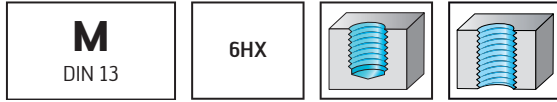
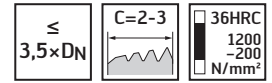
B3

HSS-E-PM machine thread formers

TC430 Supreme mm

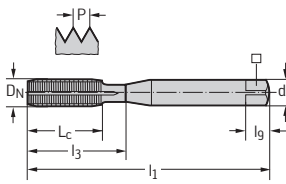


- For long-chipping materials
- ISO-M with oil only



	P	M	K	N	S	H	O
WW60EL	●	●	●	●			
WW60AD	●	●	●	●			

DIN 2174

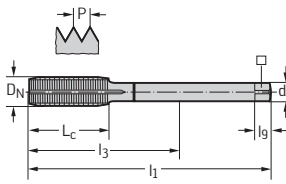


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60EL	WW60AD
TC430-M3-C6-	M 3	0,5	56	6	18	3,5	2,7	6	4	●	
TC430-M4-C6-	M 4	0,7	63	7	21	4,5	3,4	6	5	●	
TC430-M5-C6-	M 5	0,8	70	8	25	6	4,9	8	5	●	
TC430-M6-C6-	M 6	1	80	10	30	6	4,9	8	5	●	
TC430-M8-C6-	M 8	1,25	90	12	35	8	6,2	9	6	●	
TC430-M10-C6-	M 10	1,5	100	15	39	10	8	11	7	●	●

Ordering example for the WW60AD grade: TC430-M8-C6-WW60AD

B3

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60EL	WW60AD
TC430-M12-L6-	M 12	1,75	110	16	83	9	7	10	8	●	●
TC430-M16-L6-	M 16	2	110	20	68	12	9	12	8	●	●

Ordering example for the WW60AD grade: TC430-M12-L6-WW60AD

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

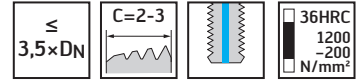
● Other application

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO-M with oil only



	P	M	K	N	S	H	O
WW60AD	●	●	●	●			

DIN 2174											WW60AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N		
TC430-M8-C1-	M 8	1,25	90	12	35	8	6,2	9	6		●
TC430-M10-C1-	M 10	1,5	100	15	39	10	8	11	7		●

Ordering example for the WW60AD grade: TC430-M8-C1-WW60AD

DIN 2174											WW60AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N		
TC430-M12-L1-	M 12	1,75	110	16	83	9	7	10	8		●
TC430-M16-L1-	M 16	2	110	20	68	12	9	12	8		●

Ordering example for the WW60AD grade: TC430-M12-L1-WW60AD

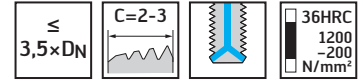
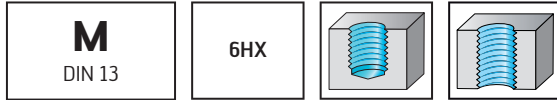
B3

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO-M with oil only



P	M	K	N	S	H	O
●	●	●	●			

DIN 2174											WW60AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N		
TC430-M8-C2-	M 8	1,25	90	12	35	8	6,2	9	6		●
TC430-M10-C2-	M 10	1,5	100	15	39	10	8	11	7		●

Ordering example for the WW60AD grade: TC430-M8-C2-WW60AD

B3

DIN 2174											WW60AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N		
TC430-M12-L2-	M 12	1,75	110	16	83	9	7	10	8		●
TC430-M16-L2-	M 16	2	110	20	68	12	9	12	8		●

Ordering example for the WW60AD grade: TC430-M12-L2-WW60AD

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO-M with oil only

$\leq 3,5 \times D_N$

C=2-3

36HRC
 1200
 -200
 N/mm²

M
DIN 13

6GX

	P	M	K	N	S	H	O
WW60AD	●	●	●	●			

DIN 2174											WW60AD
	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
	TC430-M8-E6-	M 8	1,25	90	12	35	8	6,2	9	6	
	TC430-M10-E6-	M 10	1,5	100	15	39	10	8	11	7	

Ordering example for the WW60AD grade: TC430-M8-E6-WW60AD

DIN 2174											WW60AD
	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
	TC430-M12-N6-	M 12	1,75	110	16	83	9	7	10	8	
	TC430-M16-N6-	M 16	2	110	20	68	12	9	12	8	

Ordering example for the WW60AD grade: TC430-M12-N6-WW60AD

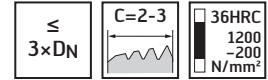
B3

HSS-E machine thread formers

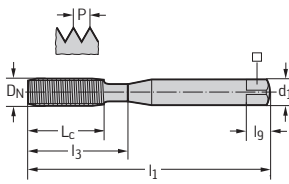
TC410 Advance mm



– For long-chipping materials



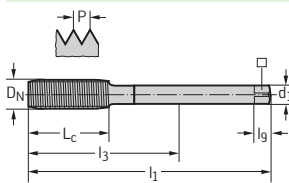
DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-M1-C0-	M 1	0,25	40	5	5	2,5	2,1	5	3	☞
TC410-M1.1-C0-	M 1.1	0,25	40	5	5	2,5	2,1	5	3	☞
TC410-M1.2-C0-	M 1.2	0,25	40	5	5	2,5	2,1	5	3	☞
TC410-M1.4-C0-	M 1.4	0,3	40	7	7	2,5	2,1	5	3	☞
TC410-M1.6-C0-	M 1.6	0,35	40	7	7	2,5	2,1	5	3	☞
TC410-M1.7-C0-	M 1.7	0,35	40	7	7	2,5	2,1	5	3	☞
TC410-M1.8-C0-	M 1.8	0,35	40	7	7	2,5	2,1	5	3	☞
TC410-M2-C0-	M 2	0,4	45	6	11	2,8	2,1	5	3	☞
TC410-M2.2-C0-	M 2.2	0,45	45	7	12	2,8	2,1	5	3	☞
TC410-M2.3-C0-	M 2.3	0,4	45	7	12	2,8	2,1	5	3	☞
TC410-M2.5-C0-	M 2.5	0,45	50	8	13	2,8	2,1	5	3	☞
TC410-M2.6-C0-	M 2.6	0,45	50	8	14	2,8	2,1	5	3	☞
TC410-M3-C0-	M 3	0,5	56	9	18	3,5	2,7	6	4	☞
TC410-M3.5-C0-	M 3.5	0,6	56	11	20	4	3	6	4	☞
TC410-M4-C0-	M 4	0,7	63	12	21	4,5	3,4	6	5	☞
TC410-M5-C0-	M 5	0,8	70	13	25	6	4,9	8	5	☞
TC410-M6-C0-	M 6	1	80	15	30	6	4,9	8	5	☞
TC410-M7-C0-	M 7	1	80	15	30	7	5,5	8	5	☞
TC410-M8-C0-	M 8	1,25	90	18	35	8	6,2	9	5	☞
TC410-M10-C0-	M 10	1,5	100	20	39	10	8	11	6	☞

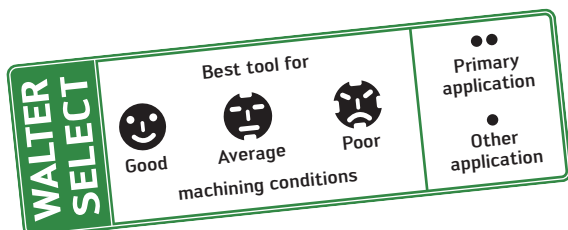
Ordering example for the WY80AD grade: TC410-M1-C0-WY80AD

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-M12-L0-	M 12	1,75	110	23	83	9	7	10	6	☞
TC410-M14-L0-	M 14	2	110	25	81	11	9	12	6	☞
TC410-M16-L0-	M 16	2	110	25	68	12	9	12	6	☞
TC410-M18-L0-	M 18	2,5	125	30	81	14	11	14	7	☞
TC410-M20-L0-	M 20	2,5	140	30	95	16	12	15	7	☞
TC410-M24-L0-	M 24	3	160	36	113	18	14,5	17	8	☞

Ordering example for the WY80AD grade: TC410-M12-L0-WY80AD

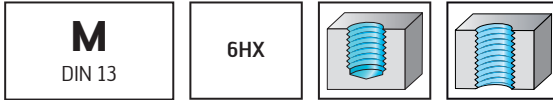


HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



$\leq 3 \times D_N$

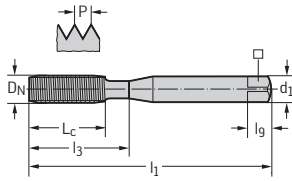
$D=3,5-5$

36HRC
1200
-200
N/mm²

	P	M	K	N	S	H	O
WY80AD	●	●	●	●	●		

DIN 2174											WY80AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N		
TC410-M2-CD-	M 2	0,4	45	6	11	2,8	2,1	5	3	✱	
TC410-M3-CD-	M 3	0,5	56	9	18	3,5	2,7	6	4	✱	
TC410-M4-CD-	M 4	0,7	63	12	21	4,5	3,4	6	5	✱	
TC410-M5-CD-	M 5	0,8	70	13	25	6	4,9	8	5	✱	
TC410-M6-CD-	M 6	1	80	15	30	6	4,9	8	5	✱	
TC410-M8-CD-	M 8	1,25	90	18	35	8	6,2	9	5	✱	

Ordering example for the WY80AD grade: TC410-M2-CD-WY80AD

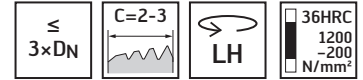
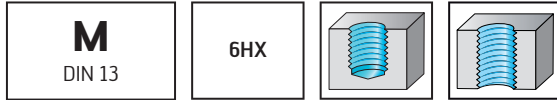


HSS-E machine thread formers

TC410 Advance



- For long-chipping materials



P	M	K	N	S	H	O
●	●	●	●	●		

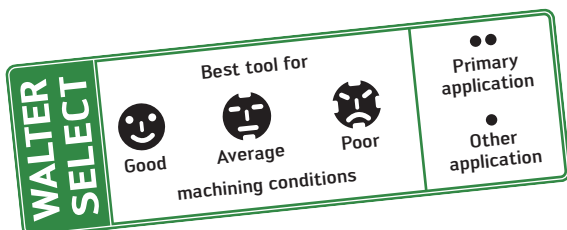
DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-M3-CL-	M 3 - LH	0,5	56	9	18	3,5	2,7	6	4	●	
TC410-M4-CL-	M 4 - LH	0,7	63	12	21	4,5	3,4	6	5	●	
TC410-M5-CL-	M 5 - LH	0,8	70	13	25	6	4,9	8	5	●	
TC410-M6-CL-	M 6 - LH	1	80	15	30	6	4,9	8	5	●	
TC410-M8-CL-	M 8 - LH	1,25	90	18	35	8	6,2	9	5	●	
TC410-M10-CL-	M 10 - LH	1,5	100	20	39	10	8	11	6	●	

Ordering example for the WY80AD grade: TC410-M3-CL-WY80AD

B3

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-M12-LL-	M 12 - LH	1,75	110	23	83	9	7	10	6	●	
TC410-M16-LL-	M 16 - LH	2	110	25	68	12	9	12	6	●	

Ordering example for the WY80AD grade: TC410-M12-LL-WY80AD

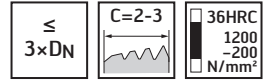
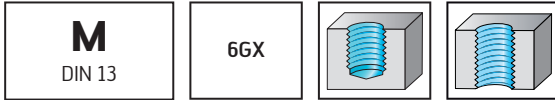


HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
		TC410-M2-E0-	M 2	0,4	45	6	11	2,8	2,1	5	3	
		TC410-M2.5-E0-	M 2.5	0,45	50	8	14	2,8	2,1	5	3	
		TC410-M3-E0-	M 3	0,5	56	9	18	3,5	2,7	6	4	
		TC410-M3.5-E0-	M 3.5	0,6	56	11	20	4	3	6	4	
		TC410-M4-E0-	M 4	0,7	63	12	21	4,5	3,4	6	5	
		TC410-M5-E0-	M 5	0,8	70	13	25	6	4,9	8	5	
		TC410-M6-E0-	M 6	1	80	15	30	6	4,9	8	5	
		TC410-M8-E0-	M 8	1,25	90	18	35	8	6,2	9	5	
		TC410-M10-E0-	M 10	1,5	100	20	39	10	8	11	6	

Ordering example for the WY80AD grade: TC410-M2-E0-WY80AD

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
		TC410-M12-N0-	M 12	1,75	110	23	83	9	7	10	6	

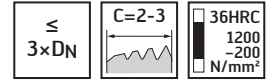
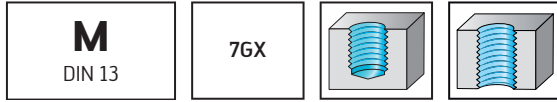
Ordering example for the WY80AD grade: TC410-M12-N0-WY80AD

HSS-E machine thread formers

TC410 Advance



- For long-chipping materials

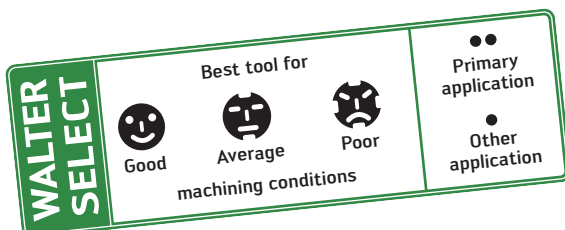


DIN 2174

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-M2-F0-	M 2	0,4	45	6	11	2,8	2,1	5	3	☠
TC410-M2.5-F0-	M 2.5	0,45	50	8	14	2,8	2,1	5	3	☠
TC410-M3-F0-	M 3	0,5	56	9	18	3,5	2,7	6	4	☠
TC410-M4-F0-	M 4	0,7	63	12	21	4,5	3,4	6	5	☠
TC410-M5-F0-	M 5	0,8	70	13	25	6	4,9	8	5	☠
TC410-M6-F0-	M 6	1	80	15	30	6	4,9	8	5	☠
TC410-M8-F0-	M 8	1,25	90	18	35	8	6,2	9	5	☠
TC410-M10-F0-	M 10	1,5	100	20	39	10	8	11	6	☠

Ordering example for the WY80AD grade: TC410-M2-F0-WY80AD

B3

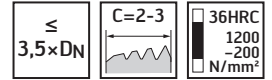


HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



DIN 2174											
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD	
TC410-M2-C6-	M 2	0,4	45	6	11	2,8	2,1	5	3	✱	
TC410-M2.5-C6-	M 2.5	0,45	50	8	13	2,8	2,1	5	3	✱	
TC410-M3-C6-	M 3	0,5	56	9	18	3,5	2,7	6	4	✱	
TC410-M3.5-C6-	M 3.5	0,6	56	11	20	4	3	6	4	✱	
TC410-M4-C6-	M 4	0,7	63	12	21	4,5	3,4	6	5	✱	
TC410-M5-C6-	M 5	0,8	70	13	25	6	4,9	8	5	✱	
TC410-M6-C6-	M 6	1	80	15	30	6	4,9	8	5	✱	
TC410-M7-C6-	M 7	1	80	15	30	7	5,5	8	5	✱	
TC410-M8-C6-	M 8	1,25	90	18	35	8	6,2	9	5	✱	
TC410-M10-C6-	M 10	1,5	100	20	39	10	8	11	6	✱	

Ordering example for the WY80AD grade: TC410-M2-C6-WY80AD

DIN 2174											
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD	
TC410-M12-L6-	M 12	1,75	110	23	83	9	7	10	6	✱	
TC410-M14-L6-	M 14	2	110	25	81	11	9	12	6	✱	
TC410-M16-L6-	M 16	2	110	25	68	12	9	12	6	✱	
TC410-M18-L6-	M 18	2,5	125	30	81	14	11	14	7	✱	
TC410-M20-L6-	M 20	2,5	140	30	95	16	12	15	7	✱	
TC410-M24-L6-	M 24	3	160	36	113	18	14,5	17	8	✱	

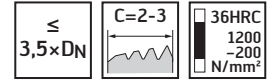
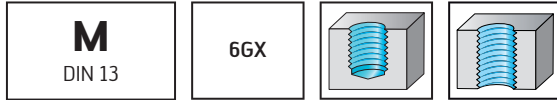
Ordering example for the WY80AD grade: TC410-M12-L6-WY80AD

HSS-E machine thread formers

TC410 Advance

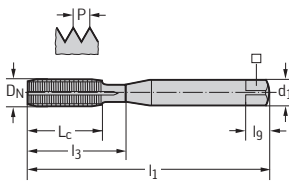


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●	●	●	●	●		

DIN 2174

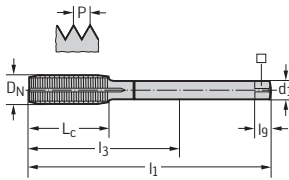


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AD
TC410-M2-E6-	M 2	0,4	45	6	11	2,8	2,1	5	3	●
TC410-M2.5-E6-	M 2.5	0,45	50	8	14	2,8	2,1	5	3	●
TC410-M3-E6-	M 3	0,5	56	9	18	3,5	2,7	6	4	●
TC410-M3.5-E6-	M 3.5	0,6	56	11	20	4	3	6	4	●
TC410-M4-E6-	M 4	0,7	63	12	21	4,5	3,4	6	5	●
TC410-M5-E6-	M 5	0,8	70	13	25	6	4,9	8	5	●
TC410-M6-E6-	M 6	1	80	15	30	6	4,9	8	5	●
TC410-M8-E6-	M 8	1,25	90	18	35	8	6,2	9	5	●
TC410-M10-E6-	M 10	1,5	100	20	39	10	8	11	6	●

Ordering example for the WY80AD grade: TC410-M2-E6-WY80AD

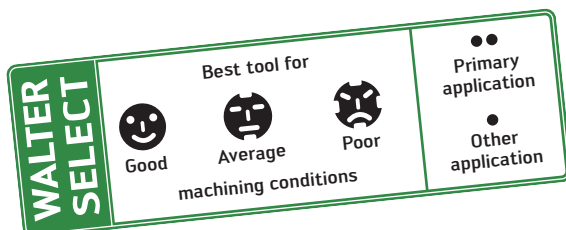
B3

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AD
TC410-M12-N6-	M 12	1,75	110	23	83	9	7	10	6	●

Ordering example for the WY80AD grade: TC410-M12-N6-WY80AD

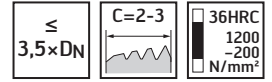
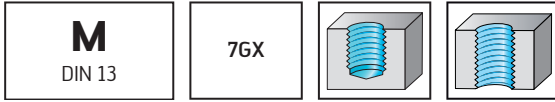


HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●	●	●	●	●		

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-M2-F6-	M 2	0,4	45	6	11	2,8	2,1	5	3	★	
TC410-M2.5-F6-	M 2.5	0,45	50	8	14	2,8	2,1	5	3	★	
TC410-M3-F6-	M 3	0,5	56	9	18	3,5	2,7	6	4	★	
TC410-M4-F6-	M 4	0,7	63	12	21	4,5	3,4	6	5	★	
TC410-M5-F6-	M 5	0,8	70	13	25	6	4,9	8	5	★	
TC410-M6-F6-	M 6	1	80	15	30	6	4,9	8	5	★	
TC410-M8-F6-	M 8	1,25	90	18	35	8	6,2	9	5	★	
TC410-M10-F6-	M 10	1,5	100	20	39	10	8	11	6	★	

Ordering example for the WY80AD grade: TC410-M2-F6-WY80AD

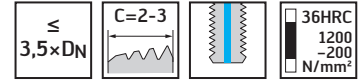
DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-M12-P6-	M 12	1,75	110	23	83	9	7	10	6	★	

Ordering example for the WY80AD grade: TC410-M12-P6-WY80AD

HSS-E-PM machine thread formers TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		

DIN 2174	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N	WW60AD
	TC420-M8X1-L1-	MF 8x1	1	90	12	67	6	4,9	8	5	
	TC420-M10X1-L1-	MF 10x1	1	90	12	67	7	5,5	8	6	
	TC420-M12X1-L1-	MF 12x1	1	100	13	73	9	7	10	6	
	TC420-M12X1.5-L1-	MF 12x1.5	1,5	100	13	73	9	7	10	6	
	TC420-M14X1.5-L1-	MF 14x1.5	1,5	100	15	71	11	9	12	6	

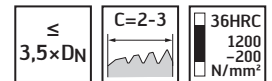
Ordering example for the WW60AD grade: TC420-M8X1-L1-WW60AD

B3

HSS-E-PM machine thread formers TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●		
WW60BA	●	●	●	●	●		

DIN 2174	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N	WW60AD	WW60BA
	TC420-M8X1-L6-	MF 8x1	1	90	12	67	6	4,9	8	5		
	TC420-M10X1-L6-	MF 10x1	1	90	12	67	7	5,5	8	6		
	TC420-M12X1-L6-	MF 12x1	1	100	13	73	9	7	10	6		
	TC420-M12X1.5-L6-	MF 12x1.5	1,5	100	13	73	9	7	10	6		
	TC420-M14X1-L6-	MF 14x1	1	100	15	71	11	9	12	6		
	TC420-M14X1.25-L6-	MF 14x1.25	1,25	100	15	71	11	9	12	6		
	TC420-M14X1.5-L6-	MF 14x1.5	1,5	100	15	71	11	9	12	6		
	TC420-M16X1.5-L6-	MF 16x1.5	1,5	100	15	58	12	9	12	6		

Ordering example for the WW60AD grade: TC420-M8X1-L6-WW60AD

HSS-E-PM machine thread formers TC420 Supreme



– For long-chipping materials

≤
3,5×DN

C=2-3

36HRC
1200
-200
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●	●	●
WW60BA	●	●	●	●	●	●	●

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
		TC420-M8X1-L2-	MF 8x1	1	90	12	67	6	4,9	8	5	●	●
		TC420-M10X1-L2-	MF 10x1	1	90	12	67	7	5,5	8	6	●	●
		TC420-M12X1-L2-	MF 12x1	1	100	13	73	9	7	10	6	●	●
		TC420-M12X1.5-L2-	MF 12x1.5	1,5	100	13	73	9	7	10	6	●	●
		TC420-M14X1.5-L2-	MF 14x1.5	1,5	100	15	71	11	9	12	6	●	●
		TC420-M16X1.5-L2-	MF 16x1.5	1,5	100	15	58	12	9	12	6	●	●

Ordering example for the WW60AD grade: TC420-M8X1-L2-WW60AD

B3

HSS-E-PM machine thread formers TC420 Supreme



– For long-chipping materials

≤
3,5×DN

C=2-3

36HRC
1200
-200
N/mm²

MF
DIN 13

6GX

	P	M	K	N	S	H	O
WW60AD	●	●	●	●	●	●	●
WW60BA	●	●	●	●	●	●	●

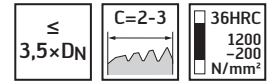
DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
		TC420-M8X1-N6-	MF 8x1	1	90	12	67	6	4,9	8	5	●	●
		TC420-M10X1-N6-	MF 10x1	1	90	12	67	7	5,5	8	6	●	●
		TC420-M12X1-N6-	MF 12x1	1	100	13	73	9	7	10	6	●	●
		TC420-M12X1.5-N6-	MF 12x1.5	1,5	100	13	73	9	7	10	6	●	●
		TC420-M14X1.5-N6-	MF 14x1.5	1,5	100	15	71	11	9	12	6	●	●
		TC420-M16X1.5-N6-	MF 16x1.5	1,5	100	15	58	12	9	12	6	●	●

Ordering example for the WW60AD grade: TC420-M8X1-N6-WW60AD

HSS-E-PM machine thread formers TC430 Supreme

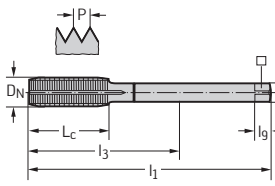


- For long-chipping materials
- ISO-M with oil only



	P	M	K	N	S	H	O
WW60EL	●	●	●	●			
WW60AD	●	●	●	●			

DIN 2174



Designation	DN	P mm	l ₁ mm	l _C mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60EL	WW60AD
TC430-M8X1-L6-	MF 8x1	1	90	12	67	6	4,9	8	6	●	●
TC430-M10X1-L6-	MF 10x1	1	90	12	67	7	5,5	8	7	●	●
TC430-M10X1.25-L6-	MF 10x1.25	1,25	100	15	77	7	5,5	8	7	●	●
TC430-M12X1-L6-	MF 12x1	1	100	13	73	9	7	10	8	●	●
TC430-M12X1.25-L6-	MF 12x1.25	1,25	100	13	73	9	7	10	8	●	●
TC430-M12X1.5-L6-	MF 12x1.5	1,5	100	13	73	9	7	10	8	●	●
TC430-M14X1.5-L6-	MF 14x1.5	1,5	100	15	71	11	9	12	8	●	●
TC430-M16X1.5-L6-	MF 16x1.5	1,5	100	15	58	12	9	12	8	●	●

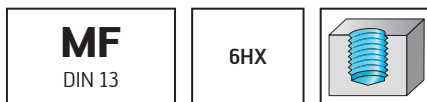
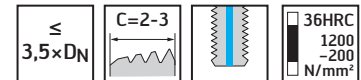
Ordering example for the WW60AD grade: TC430-M8X1-L6-WW60AD

B3

HSS-E-PM machine thread formers TC430 Supreme

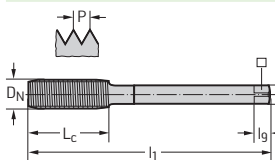


- For long-chipping materials
- ISO-M with oil only



	P	M	K	N	S	H	O
WW60AD	●	●	●	●			

DIN 2174



Designation	DN	P mm	l ₁ mm	l _C mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
TC430-M8X1-L1-	MF 8x1	1	90	12	67	6	4,9	8	6	●
TC430-M10X1-L1-	MF 10x1	1	90	12	67	7	5,5	8	7	●
TC430-M10X1.25-L1-	MF 10x1.25	1,25	100	15	77	7	5,5	8	7	●
TC430-M12X1-L1-	MF 12x1	1	100	13	73	9	7	10	8	●
TC430-M12X1.25-L1-	MF 12x1.25	1,25	100	13	73	9	7	10	8	●
TC430-M12X1.5-L1-	MF 12x1.5	1,5	100	13	73	9	7	10	8	●
TC430-M14X1.5-L1-	MF 14x1.5	1,5	100	15	71	11	9	12	8	●
TC430-M16X1.5-L1-	MF 16x1.5	1,5	100	15	58	12	9	12	8	●

Ordering example for the WW60AD grade: TC430-M8X1-L1-WW60AD

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO-M with oil only



$\leq 3,5 \times DN$

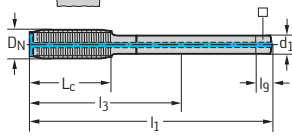
$C=2-3$

36HRC
1200
-200
N/mm ²

	P	M	K	N	S	H	O
WW60AD	●	●	●	●			

DIN 2174											WW60AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC430-M8X1-L2-	MF 8x1	1	90	12	67	6	4,9	8	6		
TC430-M10X1-L2-	MF 10x1	1	90	12	67	7	5,5	8	7		
TC430-M10X1.25-L2-	MF 10x1.25	1,25	100	15	77	7	5,5	8	7		
TC430-M12X1-L2-	MF 12x1	1	100	13	73	9	7	10	8		
TC430-M12X1.25-L2-	MF 12x1.25	1,25	100	13	73	9	7	10	8		
TC430-M12X1.5-L2-	MF 12x1.5	1,5	100	13	73	9	7	10	8		
TC430-M14X1.5-L2-	MF 14x1.5	1,5	100	15	71	11	9	12	8		
TC430-M16X1.5-L2-	MF 16x1.5	1,5	100	15	58	12	9	12	8		

Ordering example for the WW60AD grade: TC430-M8X1-L2-WW60AD



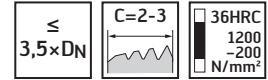
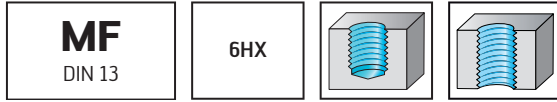
B3

HSS-E machine thread formers

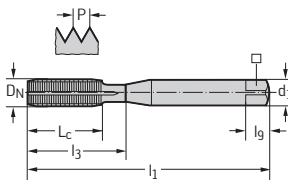
TC410 Advance



- For long-chipping materials



DIN 2174

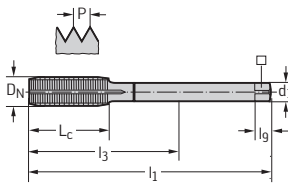


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-M4X0.5-C6-	MF 4x0.5	0,5	63	12	21	4,5	3,4	6	5	☞
TC410-M5X0.5-C6-	MF 5x0.5	0,5	70	13	25	6	4,9	8	5	☞
TC410-M6X0.5-C6-	MF 6x0.5	0,5	80	15	30	6	4,9	8	5	☞
TC410-M6X0.75-C6-	MF 6x0.75	0,75	80	15	30	6	4,9	8	5	☞
TC410-M7X0.75-C6-	MF 7x0.75	0,75	80	15	30	7	5,5	8	5	☞

Ordering example for the WY80AD grade: TC410-M4X0.5-C6-WY80AD

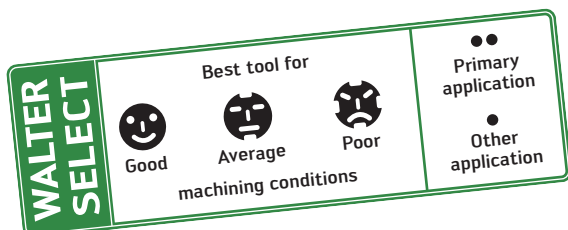
B3

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-M8X0.5-L6-	MF 8x0.5	0,5	80	15	15	6	4,9	8	5	☞
TC410-M8X0.75-L6-	MF 8x0.75	0,75	80	15	15	6	4,9	8	5	☞
TC410-M8X1-L6-	MF 8x1	1	90	18	18	6	4,9	8	5	☞
TC410-M10X1-L6-	MF 10x1	1	90	20	20	7	5,5	8	6	☞
TC410-M10X1.25-L6-	MF 10x1.25	1,25	100	20	20	7	5,5	8	6	☞
TC410-M12X1-L6-	MF 12x1	1	100	21	73	9	7	10	6	☞
TC410-M12X1.25-L6-	MF 12x1.25	1,25	100	21	73	9	7	10	6	☞
TC410-M12X1.5-L6-	MF 12x1.5	1,5	100	21	73	9	7	10	6	☞
TC410-M14X1.5-L6-	MF 14x1.5	1,5	100	21	71	11	9	12	6	☞
TC410-M16X1.5-L6-	MF 16x1.5	1,5	100	21	58	12	9	12	6	☞
TC410-M18X1.5-L6-	MF 18x1.5	1,5	110	24	66	14	11	14	7	☞
TC410-M20X1.5-L6-	MF 20x1.5	1,5	125	24	80	16	12	15	7	☞
TC410-M20X2-L6-	MF 20x2	2	140	30	95	16	12	15	7	☞
TC410-M22X1.5-L6-	MF 22x1.5	1,5	125	24	78	18	14,5	17	7	☞
TC410-M24X1.5-L6-	MF 24x1.5	1,5	140	26	93	18	14,5	17	8	☞
TC410-M24X2-L6-	MF 24x2	2	140	26	93	18	14,5	17	8	☞
TC410-M27X1.5-L6-	MF 27x1.5	1,5	140	26	77	20	16	19	8	☞
TC410-M27X2-L6-	MF 27x2	2	140	26	77	20	16	19	8	☞
TC410-M30X1.5-L6-	MF 30x1.5	1,5	150	26	85	22	18	21	8	☞
TC410-M30X2-L6-	MF 30x2	2	150	26	85	22	18	21	8	☞

Ordering example for the WY80AD grade: TC410-M8X0.5-L6-WY80AD



HSS-E machine thread formers

TC410 Advance



– For long-chipping materials

$\leq 3,5 \times D_N$

$E=1,5-2$

36HRC
1200
–200
N/mm²

MF
DIN 13

6GX

	P	M	K	N	S	H	O
WY80AD	●	●	●	●	●		

DIN 2174											WY80AD
	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
	TC410-M10X1-NE-	MF 10x1	1	90	20	20	7	5,5	8	6	✱
	TC410-M12X1.5-NE-	MF 12x1.5	1,5	100	21	73	9	7	10	6	✱
	TC410-M14X1.5-NE-	MF 14x1.5	1,5	100	21	71	11	9	12	7	✱
	TC410-M16X1.5-NE-	MF 16x1.5	1,5	100	21	58	12	9	12	7	✱

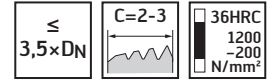
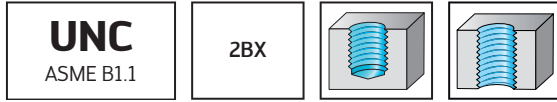
Ordering example for the WY80AD grade: TC410-M10X1-NE-WY80AD

HSS-E machine thread formers

TC410 Advance

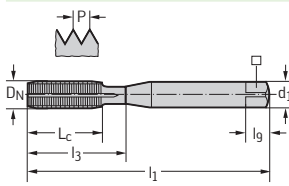


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●	●	●	●	●		

DIN 2184-1

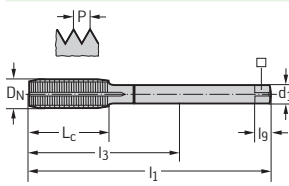


Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-UNC2-C6-	UNC 2-56	2,184	45	7	12	2,8	2,1	5	3	★
TC410-UNC4-C6-	UNC 4-40	2,845	56	9	18	3,5	2,7	6	3	★
TC410-UNC6-C6-	UNC 6-32	3,505	56	11	20	4	3	6	4	★
TC410-UNC8-C6-	UNC 8-32	4,166	63	12	21	4,5	3,4	6	5	★
TC410-UNC10-C6-	UNC 10-24	4,826	70	13	25	6	4,9	8	5	★
TC410-UNC1/4-C6-	UNC 1/4-20	6,35	80	15	30	7	5,5	8	5	★
TC410-UNC5/16-C6-	UNC 5/16-18	7,938	90	18	35	8	6,2	9	5	★
TC410-UNC3/8-C6-	UNC 3/8-16	9,525	100	20	39	10	8	11	5	★

Ordering example for the WY80AD grade: TC410-UNC2-C6-WY80AD

B3

DIN 2184-1



Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-UNC7/16-L6-	UNC 7/16-14	11,113	100	20	76	8	6,2	9	6	★
TC410-UNC1/2-L6-	UNC 1/2-13	12,7	110	23	83	9	7	10	6	★
TC410-UNC5/8-L6-	UNC 5/8-11	15,875	110	25	68	12	9	12	6	★

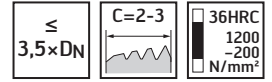
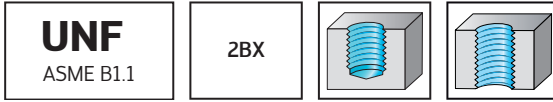
Ordering example for the WY80AD grade: TC410-UNC7/16-L6-WY80AD

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials

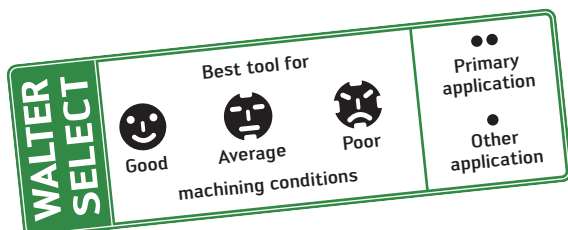


DIN 2184-1											WY80AD
Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-UNF2-C6-	UNF 2-64	2,184	45	7	12	2,8	2,1	5	3	☞	
TC410-UNF4-C6-	UNF 4-48	2,845	56	9	18	3,5	2,7	6	3	☞	
TC410-UNF6-C6-	UNF 6-40	3,505	56	11	20	4	3	6	4	☞	
TC410-UNF8-C6-	UNF 8-36	4,166	63	12	21	4,5	3,4	6	5	☞	
TC410-UNF10-C6-	UNF 10-32	4,826	70	13	25	6	4,9	8	5	☞	
TC410-UNF1/4-C6-	UNF 1/4-28	6,35	80	15	30	7	5,5	8	5	☞	
TC410-UNF5/16-C6-	UNF 5/16-24	7,938	90	18	35	8	6,2	9	5	☞	
TC410-UNF3/8-C6-	UNF 3/8-24	9,525	90	20	39	10	8	11	5	☞	

Ordering example for the WY80AD grade: TC410-UNF2-C6-WY80AD

DIN 2184-1											WY80AD
Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-UNF7/16-L6-	UNF 7/16-20	11,113	100	20	76	8	6,2	9	6	☞	
TC410-UNF1/2-L6-	UNF 1/2-20	12,7	100	21	73	9	7	10	6	☞	
TC410-UNF5/8-L6-	UNF 5/8-18	15,875	100	21	58	12	9	12	6	☞	

Ordering example for the WY80AD grade: TC410-UNF7/16-L6-WY80AD



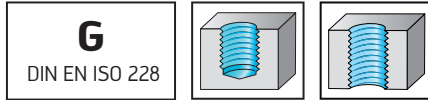
B3

HSS-E machine thread formers

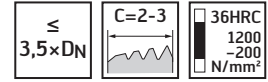
TC410 Advance



- For long-chipping materials



G
DIN EN ISO 228

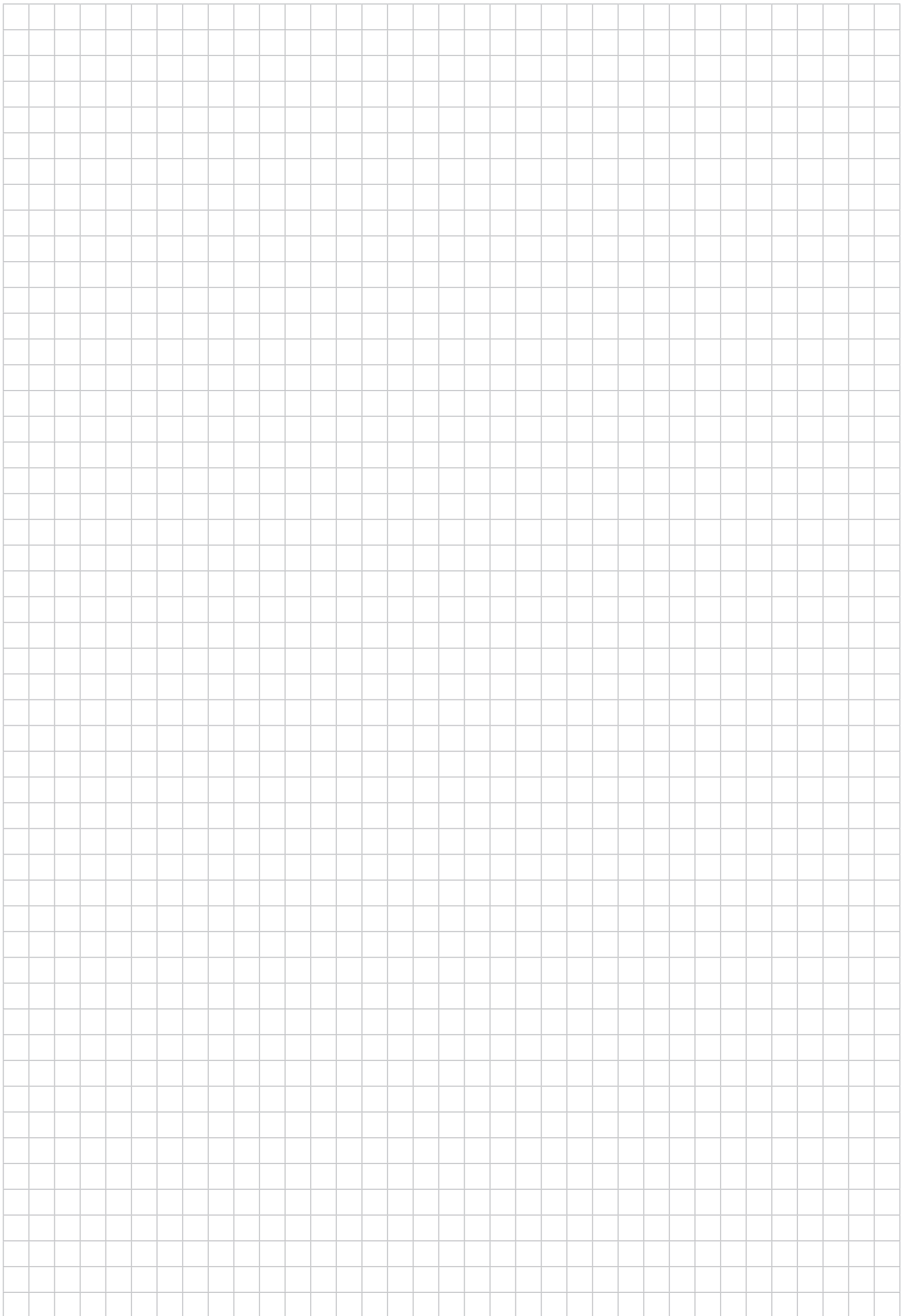


	P	M	K	N	S	H	O
WY80AD	●	●	●	●	●		

DIN 2189	Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
	TC410-G1/8-N6-	G 1/8-28	9,728	28	90	20	20	7	5,5	8	5	★
	TC410-G1/4-N6-	G 1/4-19	13,157	19	100	21	71	11	9	12	6	★
	TC410-G3/8-N6-	G 3/8-19	16,662	19	100	21	58	12	9	12	6	★
	TC410-G1/2-N6-	G 1/2-14	20,955	14	125	24	80	16	12	15	8	★
	TC410-G3/4-N6-	G 3/4-14	26,441	14	140	26	77	20	16	19	8	★
	TC410-G1-N6-	G 1"-11	33,249	11	160	28	93	25	20	23	8	★

Ordering example for the WY80AD grade: TC410-G1/8-N6-WY80AD

B3



B3

Product range overview – Thread milling cutters

Machining	Universal				
	2 × D _N		2,5 × D _N		3 × D _N
Thread depth	2 × D _N		2,5 × D _N		3 × D _N
Designation	TC620 Supreme	T2711	TC620 Supreme	T2712	T2713
Description	Multiple-row thread milling cutter	Thread milling cutter with indexable inserts	Multiple-row thread milling cutter	Thread milling cutter with indexable inserts	Thread milling cutter with indexable inserts
Coolant supply	Axial	Axial/radial	Axial	Axial/radial	Axial/radial
Coating/grade	WB10TJ	WSM37S	WB10TJ	WSM37S	WSM37S
Shank	DIN 6535 HA	DIN 1835 B	DIN 6535 HA	DIN 1835 B	DIN 1835 B / Walter Capto™
Helix angle	20°	–	20°	–	–
Thread type Page	M / MF 417 UNC 418	M / MF 422 UNC / UNF 428 / UN 428	M / MF 417	M / MF 424 UNC / UNF 430 / UN 436 G (BSP) 436	M / MF 426 UNC / UNF 432 / UN 436 G (BSP) 436

		Specific	
		2 × D _N	2,5 × D _N
		TC685 Supreme	TC685 Supreme
		Orbital drill thread milling cutter for hard machining	Orbital drill thread milling cutter for hard machining
		External/axial	External/axial
		WB10RC	WB10RC
		DIN 6535 HA	DIN 6535 HA
		-15°	-15°
		M / MF 419	M / MF 420

Designation key Solid carbide thread milling cutters

Example:

T	C	6	85	-	M10	-	A	1	D	-	W	B	10	RC
1	2	3	4	5	6		7	8	9		Grade			

1	2	3	4	
Tool group	Generation	Tool type	Tool type	
T Threading		6 Solid carbide thread milling cutters	10 Universal, 1.5 × D _N 11 Universal, 2.0 × D _N 20 Universal, multiple-row	85 ISO H, orbital drill thread milling cutter
5	6	7	8	9
1. Delimiters	Thread dimensions	Shank type	Cooling	Thread depth
- Metric		A Parallel shank W Weldon shank	0 External coolant 1 Axial internal coolant	D 2.0 × D _N E 2.5 × D _N

B4

Grade designation key for solid carbide and HSS cutting tool materials

Example:

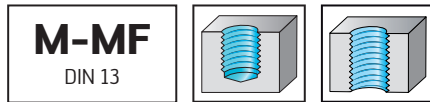
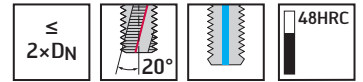
W	B	10	RC
Walter	1	2	3

1	2	3
Substrate	Application range	Coating
Solid carbide B J		RC TiAlN RD TiAlN (+ ZrN) TJ TiAlN
HSS		

Multiple-row thread milling cutters TC620 Supreme



- Universal multiple-row thread milling cutter
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ	●	●	●	●	●		●

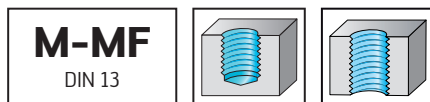
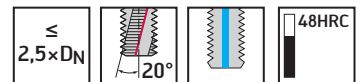
Tool	Designation	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ mm	Z	WB10TJ
Shank DIN 6535 HA 	TC620-M4-A1D-	0,70	3,1	1,4	8,4	21	57	6	3	●
	TC620-M5-A1D-	0,80	3,9	1,6	10,4	21	57	6	3	●
	TC620-M6-A1D-	1,00	4,7	2	12	21	57	6	4	●
	TC620-M8-A1D-	1,25	6,3	2,5	16,3	27	63	8	4	●
	TC620-M10-A1D-	1,50	7,9	3	21	27	63	8	4	●
	TC620-M12-A1D-	1,75	9,6	3,5	24,5	32	72	10	4	●
	TC620-M14-A1D-	2,00	11,2	4	28	38	83	12	4	●
	TC620-M16-A1D-	2,00	13,1	4	32	44	92	16	5	●
	TC620-M20-A1D-	2,50	16,4	5	40	58	106	18	5	●

Ordering example for the WB10TJ grade: TC620-M4-A1D-WB10TJ

Multiple-row thread milling cutters TC620 Supreme



- Universal multiple-row thread milling cutter
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ	●	●	●	●	●		●

Tool	Designation	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ mm	Z	WB10TJ
Shank DIN 6535 HA 	TC620-M4-A1E-	0,70	3,1	2,1	10,5	21	57	6	3	●
	TC620-M5-A1E-	0,80	3,9	2,4	12,8	21	57	6	3	●
	TC620-M6-A1E-	1,00	4,7	3	15	21	57	6	4	●
	TC620-M8-A1E-	1,25	6,3	3,75	20	27	63	8	4	●
	TC620-M10-A1E-	1,50	7,9	4,5	27	36	72	8	4	●
	TC620-M12-A1E-	1,75	9,6	5,25	31,5	43	83	10	4	●
	TC620-M14-A1E-	2,00	11,2	6	36	55	100	12	4	●
	TC620-M16-A1E-	2,00	13,1	6	42	58	106	16	5	●
	TC620-M20-A1E-	2,50	16,4	7,5	52,5	68	116	18	5	●

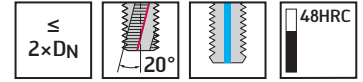
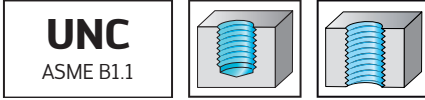
Ordering example for the WB10TJ grade: TC620-M4-A1E-WB10TJ

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutter
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ	●	●	●	●	●		●

Tool	Designation	Threads per inch mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ mm	Z	WB10TJ
Shank DIN 6535 HA 	TC620-UNC8-A1D-	32	3,1	1,59	8,7	21	57	6	3	★
	TC620-UNC10-A1D-	24	3,5	2,12	10,5	21	57	6	3	★
	TC620-UNC1/4-A1D-	20	4,7	2,54	12,7	21	57	6	3	★
	TC620-UNC5/16-A1D-	18	6,1	2,82	16,9	27	63	8	4	★
	TC620-UNC3/8-A1D-	16	7,4	3,18	19,1	27	63	8	4	★
	TC620-UNC1/2-A1D-	13	10,1	3,91	25,4	38	83	12	4	★
	TC620-UNC5/8-A1D-	11	12,7	4,62	32,3	44	92	16	4	★
	TC620-UNC3/4-A1D-	10	15,5	5,08	38,1	56	104	16	5	★

Ordering example for the WB10TJ grade: TC620-UNC8-A1D-WB10TJ

B4

Orbital drill thread milling cutter TC685 Supreme



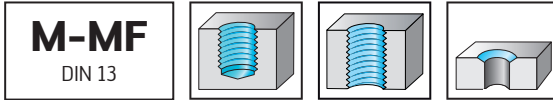
- Orbital drill thread milling cutter for hardened materials
- Chamfer, core hole and thread in one operation

≤
2×DN

L-rot.

-15°

65HRC
44HRC



M-MF
DIN 13

P	M	K	N	S	H	O
●	●	●	●	●	●●	●

Tool		P	D _c	L _{c2}	l ₃	l ₄	l ₁	d ₁	Z	WB10RC
Designation		mm	mm	mm	mm	mm	mm	mm		
Shank DIN 6535 HA	TC685-M3-A0D-	0,5	2,4	0,55	6,8	14	50	6	4	★
	TC685-M4-A0D-	0,7	3,1	0,77	9,1	14	50	6	4	★
	TC685-M5-A0D-	0,8	3,9	0,89	11,2	21	57	6	4	★

Maximum thread nominal diameter for fine-pitch threads: D_c × 1.94
 Example: TC685-M4../3.1 mm × 1.94 = 6.01 mm/MF 6 x 0.7 possible
 Ordering example for the WB10RC grade: TC685-M3-A0D-WB10RC

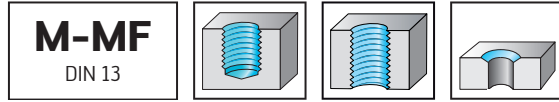
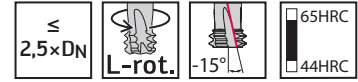
Tool		P	D _c	L _{c2}	l ₃	l ₄	l ₁	d ₁	Z	WB10RC
Designation		mm	mm	mm	mm	mm	mm	mm		
Shank DIN 6535 HA	TC685-M6-A1D-	1	4,6	1,11	13,5	21	57	6	4	★
	TC685-M8-A1D-	1,25	6,2	1,39	17,9	27	63	8	4	★
	TC685-M10-A1D-	1,5	7,8	1,68	22,3	27	63	8	4	★
	TC685-M12-A1D-	1,75	9	1,96	26,6	32	72	10	4	★
	TC685-M14-A1D-	2	10,5	2,25	31	38	83	12	4	★
	TC685-M16-A1D-	2	12,5	2,28	35	44	92	16	4	★

Maximum thread nominal diameter for fine-pitch threads: D_c × 1.94
 Example: TC685-M8../6.2 mm × 1.94 = 12.03 mm/MF 12 x 1.25 possible
 Ordering example for the WB10RC grade: TC685-M6-A1D-WB10RC

Orbital drill thread milling cutter TC685 Supreme



- Orbital drill thread milling cutter for hardened materials
- Chamfer, core hole and thread in one operation



P	M	K	N	S	H	O
●	●	●	●	●	●	●

Tool	Designation	P mm	D _c mm	L _{c2} mm	l ₃ mm	l ₄ mm	l ₁ mm	d ₁ mm	Z	WB10RC
Shank DIN 6535 HA	TC685-M3-A0E-	0,5	2,4	0,55	8,3	14	50	6	4	●
	TC685-M4-A0E-	0,7	3,1	0,77	11,1	21	57	6	4	●
	TC685-M5-A0E-	0,8	3,9	0,89	13,7	21	57	6	4	●

Maximum thread nominal diameter for fine-pitch threads: $D_c \times 1,94$
 Example: TC685-M4../3.1 mm $\times 1,94 = 6.01$ mm/MF 6 $\times 0.7$ possible
 Ordering example for the WB10RC grade: TC685-M3-A0E-WB10RC

Tool	Designation	P mm	D _c mm	L _{c2} mm	l ₃ mm	l ₄ mm	l ₁ mm	d ₁ mm	Z	WB10RC
Shank DIN 6535 HA	TC685-M6-A1E-	1	4,6	1,11	16,5	21	57	6	4	●
	TC685-M8-A1E-	1,25	6,2	1,39	21,9	27	63	8	4	●
	TC685-M10-A1E-	1,5	7,8	1,68	27,3	27	63	8	4	●
	TC685-M12-A1E-	1,75	9	1,96	32,6	32	72	10	4	●
	TC685-M14-A1E-	2	10,5	2,25	38	38	83	12	4	●
	TC685-M16-A1E-	2	12,5	2,28	43	44	92	16	4	●

Maximum thread nominal diameter for fine-pitch threads: $D_c \times 1,94$
 Example: TC685-M8../6.2 mm $\times 1,94 = 12.03$ mm/MF 12 $\times 1.25$ possible
 Ordering example for the WB10RC grade: TC685-M6-A1E-WB10RC

B4

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

Designation key for indexable insert thread milling cutters





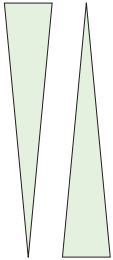
Tool:

T	2	7	11	-	29	-	W	32	-	3	-	09	-	3	-	24
1	2	3	4	5	6		7	8		9		10		11		12

1	2	3	4	5	6
Tool group	Generation	Tool type	Tool type	1. Delimiters	Cutting diameter
T Threading		7 Indexable insert thread milling cutter	11 Universal With triangular insert $2.0 \times D_N$ 12 Universal With triangular insert $2.5 \times D_N$ 13 Universal With triangular insert $3.0 \times D_N$ /modular	- Metric . Inch	
7	8	9	10	11	12
Adaptor type	Adaptor size	Number of teeth	Insert size	Number of cutting rows	Cutting row spacing
W Weldon shank C Walter Capto™					

Indexable insert:

P26300	-	09	02	-	D	6	7	W	SM	37	S
1		2	3		4	5	6	Walter	7	8	9

1	2	3	4	5
Family	Insert size	Insert radius/thread specification	Chip breaker groove	Cutting edge
P26300 Triangular thread milling insert, positive P26310 Triangular thread milling insert, positive, for single-row tools	06 09 11 14 22	01 = 0,1 mm 02 = 0,2 mm 04 = 0,4 mm G11 = G thread, 11 TPI	 $D = 10^\circ$	 6
6	7	8	9	
Flank face design	Application	ISO application range	Generation	
 1  7	SM Can be used universally with ISO P, M, K, S and H materials	37 Wear resistance  Toughness Cutting tool materials for: 7 thread milling	S Tiger-tec® Silver	

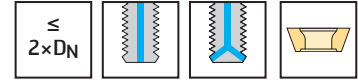
B4

Indexable insert thread milling cutter

T2711 mm



- Radius correction values: See technical information
- D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●

Tool	Designation	D_N	P_{max} mm	D_c mm	l_{21} mm	l_3 mm	l_1 mm	d_1 mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B 	T2711-19-W20-3-06-2-24	M 24	3,00	19	24	51	110	20	3	6	P26300-06 ..
	T2711-24-W25-3-09-2-31.5	M 30	3,50	24	31,5	64,5	132	25	3	6	P26300-09 ..
	T2711-52-W40-4-14-2-60	M 64	6,00	52	60	135	217	40	4	8	P26300-14 ..
Shank DIN 1835 B 	T2711-29-W32-3-09-3-24	M 36	4,00	29	24	76,5	149	32	3	9	P26300-09 ..
	T2711-35-W32-3-11-3-27	M 42	4,50	35	27	89,5	160	32	3	9	P26300-11 ..
	T2711-40-W40-3-14-3-30	M 48	5,00	40	30	103	187	40	3	9	P26300-14 ..
	T2711-44-W40-3-14-3-33	M 56	5,50	44	33	119	202	40	3	9	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	19	24–29	35	40–52	
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm

Accessories

D _c [mm]	19	24–35	40–52	
	Torque screwdriver, analogue	FS2001	FS2001	FS2003
	Tightening torque	0,4–1,2 Nm	0,4–1,2 Nm	1,5–5,0 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O						
							HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S
	6	0,1	1,50–2,50	18–10	6,73	3													
		0,2	3,00	8	6,58	3													
	9	0,1	1,50–2,50	18–10	9,48	3													
		0,2	3,00–4,00	8–6	9,34	3													
	11	0,2	3,00–4,50	8–6	10,71	3													
		0,1	1,50–2,50	18–10	13,87	3													
14	0,2	3,00–4,50	8–6	13,72	3														
		0,4	5,00–6,00	5–4	13,43	3													
	0,1	1,50–2,50	18–10	13,87	3														
	6	0,1	1,50–2,50	18–10	6,73	3													
		0,2	3,00	8	6,58	3													
	9	0,1	1,50–2,50	18–10	9,48	3													
		0,2	3,00–4,00	8–6	9,34	3													
	11	0,1	1,50–2,50	18–10	10,85	3													
		0,2	3,00–4,50	8–6	10,71	3													
14	0,2	3,00–4,50	8–6	13,72	3														
		0,4	5,00–6,00	5–4	13,43	3													
	0,1	1,50–2,50	18–10	13,87	3														

HC = Coated carbide

Tool selection

Metric thread			Coarse pitch thread						Fine pitch thread															
Family	Body designation	l ₃ [mm]	M24 / M30 / M36 / M42 / M48 / M56 / M64 / M27	M33	M39	M45	M52	M59	M68	D _N [mm]	P [mm]													
			1,5	2	2,5	3	3,5	4	4,5		5	5,5	6											
T2711	T2711-19-W20-3-06-2-24	51	0602							≥ 24	0601	0601		0602										
	T2711-24-W25-3-09-2-31.5	64,5		0902						≥ 30	0901			0902										
	T2711-29-W32-3-09-3-24	76,5			0902					≥ 36	0901	0901		0902		0902								
	T2711-35-W32-3-11-3-27	89,5				1102				≥ 42				1102			1102							
	T2711-40-W40-3-14-3-30	103					1404			≥ 48	1401	1401	1401	1402					1404					
	T2711-44-W40-3-14-3-33	119							1404	≥ 56	1401			1402							1404			
	T2711-52-W40-4-14-2-60	135							1404	≥ 64	1401	1401	1401	1402		1402			1404					1404

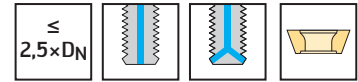
Example: With the T2711-29-W32-3-09-3-24 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902.), an M36 or M39 thread can be produced. Additionally, this body/indexable insert combination can be used to produce fine-pitch threads with a pitch of 3 or 4 mm, when the nominal diameter is ≥ 36 mm.

B4

Indexable insert thread milling cutter

T2712 mm


- Radius correction values: See technical information
- D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2712	●	●	●	●	●		●

Tool	Designation	D _N	P _{max} mm	P _{max} TPI	D _c mm	l ₂₁ mm	L _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of index- able inserts	Type
Shank DIN 1835 B 	T2712-24-W25-3-09-2-31.5	M 30	3,50	-	24	31,5	63	79,5	147	25	3	6	P26300-09 ..
	T2712-29-W32-3-09-2-36	M 36	4,00	-	29	36	72	94,5	167	32	3	6	P26300-11 ..
	T2712-35-W32-3-11-2-40.5	M 42	4,50	-	35	40,5	81	110,5	180	32	3	6	P26300-14 ..
	T2712-40-W40-3-14-2-50	M 48	5,00	-	40	50	100	127	211	40	3	6	P26300-14 ..
Shank DIN 1835 B 	T2712-19-W20-3-06	M24	3,00	8	19	-	-	63	123	20	3	3	P26300-06 ..
	T2712-24-W25-3-09	M30	3,50	7	24	-	-	79,5	148	25	3	3	P26300-09 ..
	T2712-29-W32-3-09	M36	4,00	6	29	-	-	94,5	167	32	3	3	P26300-11 ..
	T2712-35-W32-3-11	M42	4,50	6	35	-	-	110,5	181	32	3	3	P26300-11 ..
	T2712-40-W40-3-14	M48	5,00	5	40	-	-	127	211	40	3	3	P26300-14 ..
	T2712-44-W40-3-14	M56	5,50	5	44	-	-	147	230	40	3	3	P26300-14 ..
T2712-52-W40-4-14	M64	6,00	4	52	-	-	167	249	40	4	4	P26300-14 ..	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	19	24–29	35	40–52	
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm

Accessories

D _c [mm]	19	24–35	40–52	
	Torque screwdriver, analogue	FS2001	FS2001	FS2003
	Tightening torque	0,4–1,2 Nm	0,4–1,2 Nm	1,5–5,0 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O						
							HC	HC	HC	HC	HC	HC	HC						
	6	0,1	1,50–2,50	18–10	6,73	3													
		0,2	3,00	8	6,58	3													
	9	0,1	1,50–2,50	18–10	9,48	3													
		0,2	3,00–4,00	8–6	9,34	3													
	11	0,2	3,00–4,50	8–6	10,71	3													
		0,1	1,50–2,50	18–10	13,87	3													
14	0,2	3,00–4,50	8–6	13,72	3														
	0,4	5,00–6,00	5–4	13,43	3														
	0,1	1,50–2,50	18–10	6,73	3														
	6	0,1	1,50–2,50	18–10	6,73	3													
		0,2	3,00	8	6,58	3													
	9	0,1	1,50–2,50	18–10	9,48	3													
		0,2	3,00–4,00	8–6	9,34	3													
	11	0,1	1,50–2,50	18–10	10,85	3													
		0,2	3,00–4,50	8–6	10,71	3													
14	0,1	1,50–2,50	18–10	13,87	3														
	0,2	3,00–4,50	8–6	13,72	3														
	0,4	5,00–6,00	5–4	13,43	3														

HC = Coated carbide

Tool selection

Metric thread			Coarse pitch thread						Fine pitch thread															
Family	Body designation	l ₃ [mm]	P [mm]						D _N [mm]	P [mm]														
			M24 / M27	M30 / M33	M36 / M39	M42 / M45	M48 / M52	M56 / M59		M64 / M68	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6				
T2712	T2712-24-W25-3-09-2-31.5	79,5		0902					≥ 30	0901				0902										
	T2712-29-W32-3-09-2-36	94,5			0902				≥ 36	0901	0901		0902		0902									
	T2712-35-W32-3-11-2-40.5	110,5				1102			≥ 42	1101						1102								
	T2712-40-W40-3-14-2-50	127					1404		≥ 48		1401	1401											1404	
T2712	T2712-19-W20-3-06	63	0602						≥ 24		0601		0602											
	T2712-24-W25-3-09	79,5		0902					≥ 30	0901			0902											
	T2712-29-W32-3-09	94,5			0902				≥ 36	0901			0902											
	T2712-35-W32-3-11	110,5				1102			≥ 42	1101				1102										
	T2712-40-W40-3-14	127					1404		≥ 48	1401				1402								1404		
	T2712-44-W40-3-14	147						1404	≥ 56	1401				1402									1404	
T2712-52-W40-4-14	167						1404	≥ 64	1401				1402										1404	

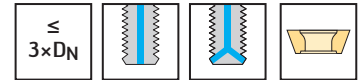
Example: With the T2712-29-W32-3-09-2-36 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902..), an M36 or M39 thread can be produced. Additionally, this body/indexable insert combination can be used to produce fine-pitch threads with a pitch of 3 or 4 mm, when the nominal diameter is ≥ 36 mm.

Indexable insert thread milling cutter

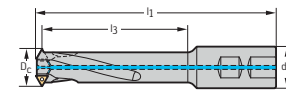
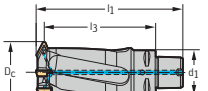
T2713



- Radius correction values: See technical information
- D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2713	●	●	●	●	●		●

Tool	Designation	D _N	P _{max} mm	P _{max} TPI	D _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B 	T2713-19-W20-3-06	M24	3,00	8	19	75	135	20	3	3	P26300-06 ..
	T2713-24-W25-3-09	M30	3,50	7	24	94,5	163	25	3	3	P26300-09 ..
	T2713-29-W32-3-09	M36	4,00	6	29	112,5	185	32	3	3	P26300-11 ..
	T2713-35-W32-3-11	M42	4,50	6	35	131,5	202	32	3	3	P26300-11 ..
	T2713-40-W40-3-14	M48	5,00	5	40	151	235	40	3	3	P26300-14 ..
	T2713-44-W40-3-14	M56	5,50	5	44	175	258	40	3	3	P26300-14 ..
	T2713-52-W40-4-14	M64	6,00	4	52	199	281	40	4	4	P26300-14 ..
Walter Capto™ in accordance with ISO 26623 	T2713-60-C5-4-14	M72	6,00	4	60	115	152	50	4	4	P26300-14 ..
	T2713-73-C6-5-14	M85	6,00	4	73	125	170	63	5	5	P26300-14 ..
	★ T2713-94-C8-5-22	M125	10,00	4	94	140	199	80	5	5	P26300-22 ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]	19	24–29	35	40–73	94
Clamping screw for indexable insert Tightening torque	FS2147 (Torx 6IP) 0,6 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS1495 (Torx 20IP) 5,0 Nm
Coolant screw Tightening torque	FS2147 (Torx 6IP) 0,6 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS1495 (TorxLP) 5,0 Nm

Accessories

D _c [mm]	19	24–35	40–73	94
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)	FS2015 (Torx 20IP)
Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)	FS1486 (Torx 20IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O				
							HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S	WSM37S
 P26300-0601-D67 P26300-0602-D67 P26300-0901-D67 P26300-0902-D67	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC				
		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC	HC			
	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC	HC			
0,2		3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC	HC				
P26300-1102-D67 P26300-1401-D67 P26300-1402-D67 P26300-1404-D67	11	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC				
		14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC			
	0,2		3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC	HC			
P26300-1404-D67	14	0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC				
		22	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC			
	0,2		3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC	HC			
 P26300-0601-D61 P26300-0602-D61 P26300-0901-D61 P26300-0902-D61	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC				
		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC	HC			
	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC	HC			
0,2		3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC	HC				
P26300-1101-D61 P26300-1102-D61 P26300-1401-D61 P26300-1402-D61 P26300-1404-D61 P26300-2204-D61	11	0,1	1,50–2,50	18–10	10,85	3	HC	HC	HC	HC	HC	HC	HC				
		0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC	HC			
	14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC	HC			
0,2		3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC	HC				
P26300-1404-D61 P26300-2204-D61	14	0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC				
		22	0,4	6,00–10,00	4	21,38	3	HC	HC	HC	HC	HC	HC	HC			

HC = Coated carbide

Tool selection

Metric thread			Coarse pitch thread						Fine pitch thread										
Family	Body designation	l ₃ [mm]	M24 / M27	M30 / M33	M36 / M39	M42 / M45	M48 / M52	M56 / M59	M64 / M68	D _N [mm]	P [mm]								
			1,5–2,5	3	3,5	4	4,5	5	5,5		6	7–10							
T2713	T2713-19-W20-3-06	75	0602							≥ 24	0601	0602							
	T2713-24-W25-3-09	94,5		0902						≥ 30	0901	0902							
	T2713-29-W32-3-09	112,5			0902					≥ 36	0901	0902							
	T2713-35-W32-3-11	131,5				1102				≥ 42	1101	1102							
	T2713-40-W40-3-14	151					1404			≥ 48	1401	1402			1404				
	T2713-44-W40-3-14	175						1404		≥ 56	1401	1402			1404				
	T2713-52-W40-4-14	199							1404	≥ 64	1401	1402			1404				
	T2713-60-C5-4-14	115								≥ 72	1401	1402			1404				
	T2713-73-C6-5-14	125								≥ 85	1401	1402			1404				
	T2713-94-C8-5-22	140								≥ 125									2204

Example: With the T2713-29-W32-3-09 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902..), an M36 or M39 thread can be produced. Additionally, this body/indexable insert combination can be used to produce fine-pitch threads with a pitch of 3 or 4 mm, when the nominal diameter is ≥ 36 mm.

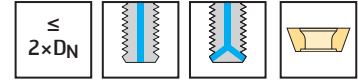
B4

Indexable insert thread milling cutter

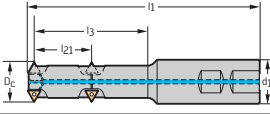
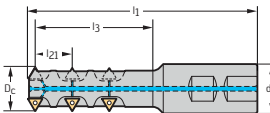
T2711 mm



- Radius correction values: See technical information
- D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●

Tool	Designation	D _N	P _{max} TPI	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B 	T2711-20-W20-3-06-2-25.4	UNC 1	8	20	25,4	53,9	113	20	3	6	P26300-06 ..
	T2711-26-W25-3-09-2-32.7	UNC 1.1/4	7	26	32,66	68	135	25	3	6	P26300-09 ..
Shank DIN 1835 B 	T2711-31-W32-3-09-3-25.4	UNC 1.1/2	6	31	25,4	80,7	153	32	3	9	P26300-09 ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		20	26-31
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)
	Tightening torque	0,6 Nm	0,9 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)
	Tightening torque	0,6 Nm	0,9 Nm

Accessories

D _c [mm]		20	26-31
	Torque screwdriver, analogue	FS2001	FS2001
	Tightening torque	0,4-1,2 Nm	0,4-1,2 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O				
							HC	HC	HC	HC	HC	HC	HC				
							WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S				
	P26300-0601-D67	6	0,1	1,50-2,50	18-10	6,73	3	HC	HC	HC	HC	HC	HC				
	P26300-0602-D67		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC				
	P26300-0901-D67	9	0,1	1,50-2,50	18-10	9,48	3	HC	HC	HC	HC	HC	HC				
	P26300-0902-D67		0,2	3,00-4,00	8-6	9,34	3	HC	HC	HC	HC	HC	HC				
	P26300-1102-D67	11	0,2	3,00-4,50	8-6	10,71	3	HC	HC	HC	HC	HC	HC				
	P26300-1401-D67	14	0,1	1,50-2,50	18-10	13,87	3	HC	HC	HC	HC	HC	HC				
P26300-1402-D67	0,2		3,00-4,50	8-6	13,72	3	HC	HC	HC	HC	HC	HC					
P26300-1404-D67	0,4		5,00-6,00	5-4	13,43	3	HC	HC	HC	HC	HC	HC					
	P26300-0601-D61	6	0,1	1,50-2,50	18-10	6,73	3	HC	HC	HC	HC	HC	HC				
	P26300-0602-D61		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC				
	P26300-0901-D61	9	0,1	1,50-2,50	18-10	9,48	3	HC	HC	HC	HC	HC	HC				
	P26300-0902-D61		0,2	3,00-4,00	8-6	9,34	3	HC	HC	HC	HC	HC	HC				
	P26300-1101-D61	11	0,1	1,50-2,50	18-10	10,85	3	HC	HC	HC	HC	HC	HC				
	P26300-1102-D61		0,2	3,00-4,50	8-6	10,71	3	HC	HC	HC	HC	HC	HC				
	P26300-1401-D61	14	0,1	1,50-2,50	18-10	13,87	3	HC	HC	HC	HC	HC	HC				
	P26300-1402-D61		0,2	3,00-4,50	8-6	13,72	3	HC	HC	HC	HC	HC	HC				
	P26300-1404-D61		0,4	5,00-6,00	5-4	13,43	3	HC	HC	HC	HC	HC	HC				

HC = Coated carbide

Tool selection

UN threads		UNC			UNF					UN							
Family	Body designation	l ₃ [mm]	1"	1 1/4"	1 1/2"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	D _N	TPI					
												18*	16	14	12	8	6
T2711	T2711-20-W20-3-06-2-25.4	53,9	0602			0601	0601	0601	0601	0601	≥ 1,00"	0601	0601	0601	0601	0602	
	T2711-26-W25-3-09-2-32.7	68		0902							≥ 1,25"			0901			
	T2711-31-W32-3-09-3-25.4	80,7			0902					0901	≥ 1,50"	0901	0901	0901	0901	0901	0902

Example: With the T2711-31-W32-3-09-3-25.4 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902.), a UNC 1 1/2" thread can be produced. Additionally, this body/indexable insert combination can be used to produce UN threads with 8 and 6 TPI, when their nominal diameter is ≥ 1.5".

* = UNEF

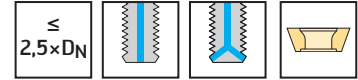
B4

Indexable insert thread milling cutter

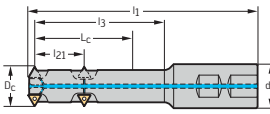
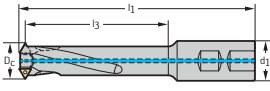
T2712



- Radius correction values: See technical information
- D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2712	●	●	●	●	●		●

Tool	Designation	D _N	P _{max} TPI	P _{max} mm	D _c mm	l ₂₁ mm	L _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of index- able inserts	Type
Shank DIN 1835 B 	T2712-26-W25-3-09-2-32.7	UNC 1 1/4	7	-	26	32,66	65,32	84	151	25	3	6	P26300-09 ..
	T2712-31-W32-3-09-2-38.1	UNC 1 1/2	6	-	31	38,1	76,2	99,8	172	32	3	6	
Shank DIN 1835 B 	T2712-19-W20-3-06	1,00"	8	3,00	19	-	-	63	123	20	3	3	P26300-06 ..
	T2712-24-W25-3-09	1,25"	7	3,50	24	-	-	79,5	148	25	3	3	P26300-09 ..
	T2712-29-W32-3-09	1,50"	6	4,00	29	-	-	94,5	167	32	3	3	P26300-11 ..
	T2712-35-W32-3-11	1,75"	6	4,50	35	-	-	110,5	181	32	3	3	P26300-11 ..
	T2712-40-W40-3-14	2,00"	5	5,00	40	-	-	127	211	40	3	3	P26300-14 ..
	T2712-44-W40-3-14	2,25"	5	5,50	44	-	-	147	230	40	3	3	P26300-14 ..
	T2712-52-W40-4-14	2,75"	4	6,00	52	-	-	167	249	40	4	4	

Bodies and assembly parts are included in the scope of delivery.

B4

Assembly parts

D _c [mm]	19	24-31	35	40-52	
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)	FS2061 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,6 Nm	0,9 Nm	0,9 Nm	2,0 Nm

Accessories

D _c [mm]	19	24-31	40-52	
	Torque screwdriver, analogue	FS2001	FS2001	FS2003
	Tightening torque	0,4-1,2 Nm	0,4-1,2 Nm	1,5-5,0 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O					
							HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S
	P26300-0601-D67	6	0,1	1,50-2,50	18-10	6,73	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0602-D67	6	0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0901-D67	9	0,1	1,50-2,50	18-10	9,48	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0902-D67	9	0,2	3,00-4,00	8-6	9,34	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1102-D67	11	0,2	3,00-4,50	8-6	10,71	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1401-D67	14	0,1	1,50-2,50	18-10	13,87	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1402-D67		0,2	3,00-4,50	8-6	13,72	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1404-D67		0,4	5,00-6,00	5-4	13,43	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0601-D61	6	0,1	1,50-2,50	18-10	6,73	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0602-D61		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0901-D61	9	0,1	1,50-2,50	18-10	9,48	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0902-D61		0,2	3,00-4,00	8-6	9,34	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1101-D61	11	0,1	1,50-2,50	18-10	10,85	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1102-D61		0,2	3,00-4,50	8-6	10,71	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1401-D61	14	0,1	1,50-2,50	18-10	13,87	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1402-D61		0,2	3,00-4,50	8-6	13,72	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-1404-D61		0,4	5,00-6,00	5-4	13,43	3	HC	HC	HC	HC	HC	HC	WSM37S				

HC = Coated carbide

Tool selection

UN threads			UNC					UNF					UN						
Family	Body designation	l ₃ [mm]	1"	1 1/4"	1 1/2"	2 1/4" ≥ 2 3/4"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	D _N	TPI						
													18-10	8	6	5	4,5	4	
T2712	T2712-26-W25-3-09-2-32.7	83,88		0902								≥ 1,25"							
	T2712-31-W32-3-09-2-38.1	99,75			0902						0901	≥ 1,50"	0901*	0902	0902				
T2712	T2712-19-W20-3-06	63	0602				0601	0601	0601	0601	0601	≥ 1,00"	0601	0602					
	T2712-24-W25-3-09	79,5		0902				0901	0901	0901	0901	≥ 1,25"	0901	0902					
	T2712-29-W32-3-09	94,5			0902					0901	0901	≥ 1,50"	0901	0902					
	T2712-35-W32-3-11	110,5										≥ 1,75"	1101	1102					
	T2712-40-W40-3-14	127										≥ 2,00"	1401	1402	1404				
	T2712-44-W40-3-14	147				1404						≥ 2,25"	1401	1402	1404				
T2712-52-W40-4-14	167					1404					≥ 2,75"	1401	1402	1404					

Example: With the T2712-31-W32-3-09-2-38.1 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902...), a UNC 1 1/2" thread can be produced. Additionally, this body/indexable insert combination can be used to produce UN threads with 8 and 6 TPI, when their nominal diameter is ≥ 1.5".

* Exceptions: 13/11.5 and 11 TPI cannot be machined.

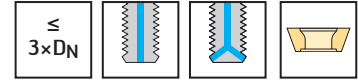
B4

Indexable insert thread milling cutter

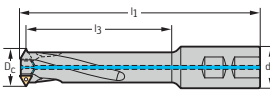
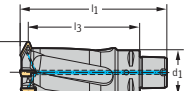
T2713 mm



- Radius correction values: See technical information
- D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2713	●●	●●	●●	●	●●	●	●

Tool	Designation	D _N	P _{max} TPI	P _{max} mm	D _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B 	T2713-19-W20-3-06	1,00"	8	3,00	19	75	135	20	3	3	P26300-06 ..
	T2713-24-W25-3-09	1,25"	7	3,50	24	94,5	163	25	3	3	P26300-09 ..
	T2713-29-W32-3-09	1,50"	6	4,00	29	112,5	185	32	3	3	P26300-11 ..
	T2713-35-W32-3-11	1,75"	6	4,50	35	131,5	202	32	3	3	P26300-11 ..
	T2713-40-W40-3-14	2,00"	5	5,00	40	151	235	40	3	3	P26300-14 ..
	T2713-44-W40-3-14	2,25"	5	5,50	44	175	258	40	3	3	P26300-14 ..
	T2713-52-W40-4-14	2,75"	4	6,00	52	199	281	40	4	4	P26300-14 ..
Walter Capto™ in accordance with ISO 26623 	T2713-60-C5-4-14	3,00"	4	6,00	60	115	152	50	4	4	P26300-14 ..
	T2713-73-C6-5-14	3,50"	4	6,00	73	125	170	63	5	5	P26300-14 ..
	★ T2713-94-C8-5-22	5,00"	4	10,00	94	140	199	80	5	5	P26300-22 ..

Bodies and assembly parts are included in the scope of delivery.

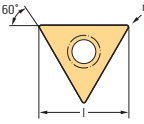
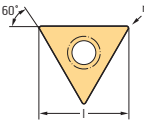
Assembly parts

D _c [mm]	19	24–29	35	40–73	94
Clamping screw for indexable insert Tightening torque	FS2147 (Torx 6IP) 0,6 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS1495 (Torx 20IP) 5,0 Nm
Coolant screw Tightening torque	FS2147 (Torx 6IP) 0,6 Nm	FS2111 (Torx 7IP) 0,9 Nm	FS2061 (Torx 7IP) 0,9 Nm	FS1457 (Torx 9IP) 2,0 Nm	FS1495 (TorxLP) 5,0 NM

Accessories

D _c [mm]	19	24–35	40–73	94
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)	FS2015 (Torx 20IP)
Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)	FS1486 (Torx 20IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O				
							HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S	WSM37S
 P26300-0601-D67 P26300-0602-D67 P26300-0901-D67 P26300-0902-D67	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	HC				
		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC				
	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC				
0,2		3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC					
P26300-1102-D67 P26300-1401-D67 P26300-1402-D67 P26300-1404-D67	11	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC					
		14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC				
	0,2		3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC				
 P26300-0601-D61 P26300-0602-D61 P26300-0901-D61 P26300-0902-D61	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC					
		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	HC				
	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	HC				
0,2		3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	HC					
P26300-1101-D61 P26300-1102-D61 P26300-1401-D61 P26300-1402-D61 P26300-1404-D61 P26300-2204-D61	11	0,1	1,50–2,50	18–10	10,85	3	HC	HC	HC	HC	HC	HC					
		0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	HC				
	14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	HC				
0,2		3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	HC					
22	0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	HC					
	0,4	6,00–10,00	4	21,38	3	HC	HC	HC	HC	HC	HC	HC					

HC = Coated carbide

Tool selection

UN threads			UNC						UNF				UN							
Family	Body designation	l ₃ [mm]	1"	1 1/4"	1 1/2"	2 1/4"	2 3/4"	≥ 3"	≥ 3 1/2"	1"	1 1/8"	1 1/4"	≥ 1 3/8"	TPI						
			D _N	18–10	8	6	5	4,5	4											
T2713	T2713-19-W20-3-06	75	0602							0601	0601	0601	0601	≥ 1,00"	0601	0602				
	T2713-24-W25-3-09	94,5		0902							0901	0901	0901	≥ 1,25"	0901	0902				
	T2713-29-W32-3-09	112,5			0902								0901	≥ 1,50"	0901	0902				
	T2713-35-W32-3-11	131,5												≥ 1,75"	1101	1102				
	T2713-40-W40-3-14	151												≥ 2,00"	1401	1402	1404			
	T2713-44-W40-3-14	175				1404								≥ 2,25"	1401	1402		1404		
	T2713-52-C5-4-14	199					1404	1404	1404					≥ 2,75"	1401	1402			1404	
	T2713-60-C5-4-14	115						1404	1404					≥ 3,00"	1401	1402			1404	
	T2713-73-C6-5-14	125							1404					≥ 3,50"	1401	1402			1404	
	T2713-94-C8-5-22	140												≥ 5,00"						

Example: With the T2713-29-W32-3-09 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902.), a UNC 1 1/2" thread can be produced. Additionally, this body/indexable insert combination can be used to produce UN threads with 8 to 6 TPI, when the nominal diameter is ≥ 1.5".

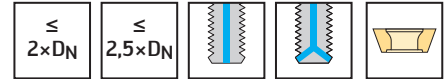
B4

Indexable insert thread milling cutter

T2711 / T2712 inch



- Radius correction values: See technical information
- D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●
T2712	●	●	●	●	●	●	●

Tool	Designation	D_N	P_{max} TPI	P_{max} mm	D_c Inch	l_{21} Inch	l_3 Inch	l_1 Inch	d_1 Inch	Z	No. of index- able inserts	Type
Weldon-Inch 	T2711.20-W19-3-06-2-25.4	UNC 1	8	-	0,787	1,000	2,122	4,461	0,750	3	6	P26300-06 ..
	T2711.26-W26-3-09-2-32.7	UNC 1.1/4	7	-	1,024	1,286	2,677	5,299	1,000	3	6	P26300-09 ..
Weldon-Inch 	T2711.31-W31-3-09-3-25.4	UNC 1.1/2	6	-	1,220	1,000	3,177	5,892	1,250	3	9	P26300-09 ..
Weldon-Inch 	T2712.20-W19-3-06	UNC 1	8	3,00	0,787	-	2,618	4,953	0,750	3	3	P26300-06 ..
	T2712.23-W26-3-09	UNC 1 1/8	7	3,50	0,886	-	2,992	5,695	1,000	3	3	P26300-09 ..
	T2712.28-W31-3-09	UNC 1 3/8	6	4,00	1,083	-	3,622	6,482	1,250	3	3	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		0,787	0,886–1,220
	Clamping screw for indexable insert	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)
	Tightening torque	0,6 Nm	0,9 Nm
	Coolant screw	FS2147 (Torx 6IP)	FS2111 (Torx 7IP)
	Tightening torque	0,6 Nm	0,9 Nm

Accessories

D _c [Inch]		0,787	0,886 –1,220
	Torque screwdriver, analogue	FS2002	FS2002
	Tightening torque	0,4–1,2 Nm	0,4–1,2 Nm
	Interchangeable blade	FS2085 (Torx 6IP)	FS2011 (Torx 7IP)
	Screwdriver for indexable insert	FS2086 (Torx 6IP)	FS2088 (Torx 7IP)

Thread milling cutter inserts P26300

Designation	Size	r mm	Pitch P mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O				
							HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S	WSM37S
	P26300-0601-D67	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-0602-D67		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-0901-D67	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-0902-D67		0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-1102-D67	11	0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-1401-D67	14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	WSM37S			
P26300-1402-D67	0,2		3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	WSM37S				
P26300-1404-D67	0,4		5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	WSM37S				
	P26300-0601-D61	6	0,1	1,50–2,50	18–10	6,73	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-0602-D61		0,2	3,00	8	6,58	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-0901-D61	9	0,1	1,50–2,50	18–10	9,48	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-0902-D61		0,2	3,00–4,00	8–6	9,34	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-1101-D61	11	0,1	1,50–2,50	18–10	10,85	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-1102-D61		0,2	3,00–4,50	8–6	10,71	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-1401-D61	14	0,1	1,50–2,50	18–10	13,87	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-1402-D61		0,2	3,00–4,50	8–6	13,72	3	HC	HC	HC	HC	HC	HC	WSM37S			
	P26300-1404-D61		0,4	5,00–6,00	5–4	13,43	3	HC	HC	HC	HC	HC	HC	WSM37S			

HC = Coated carbide

Tool selection

UN threads			UNC					UNF					UN			
Family	Body designation	l ₃ [inches]	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1"	1 1/8"	1 1/4"	1 3/8"	1 1/2"	D _N	TPI		
			0602						0601	0601	0601	0601		0601	18–10	8
T2711	T2711.20-W19-3-06-2-25.4	2.122"											≥ 1,000"	0601	0602	
	T2711.26-W26-3-09-2-32.7	2.677"			0902								≥ 1,250"			
	T2711.31-W31-3-09-3-25.4	3.177"					0902					0901	≥ 1,500"	0901	0902	0902
T2712	T2712.20-W19-3-06	2.618"	0602					0601	0601	0601	0601	0601	≥ 1,000"	0601	0602	
	T2712.23-W26-3-09	2.992"		0902	0902				0901	0901	0901	0901	≥ 1,125"	0901	0902	
	T2712.28-W31-3-09	3.622"				0902	0902				0901	0901	≥ 1,375"	0901	0902	0902

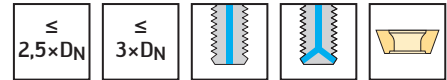
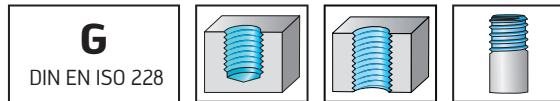
Example: With the T2711.31-W31-3-09-3-25.4 body and the size 09 indexable insert with 0.2 mm radius (0902 -> P26300-0902...), a UNC 1 1/2" thread can be produced. Additionally, this body/indexable insert combination can be used to produce UN threads with 8 or 6 TPI, when the nominal diameter is ≥ 1.5".

B4

Indexable insert thread milling cutter

 T2712 / T2713


– Radius correction values: See technical information
 – D67 geometry: Maximum tool life/D61 geometry: Best operational smoothness



G
DIN EN ISO 228

$\leq 2,5 \times D_N$	$\leq 3 \times D_N$					
P	M	K	N	S	H	O
●	●	●	●	●		●

Tool	Designation	D_N	P_{max} mm	P_{max} TPI	D_c mm	l_3 mm	l_1 mm	d_1 mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B 	★ T2712-24-W25-3-09	G 1"	3,50	7	24	79,5	148	25	3	3	P26310-09G11 ..
	★ T2712-29-W32-3-09	G1 1/8"	4,00	6	29	94,5	167	32	3	3	
	★ T2712-40-W40-3-14	G 1 1/2"	5,00	5	40	127	211	40	3	3	P26310-14G11 ..
	★ T2712-44-W40-3-14	G 1 3/4"	5,50	5	44	147	230	40	3	3	
	★ T2712-52-W40-4-14	G 2"	6,00	4	52	167	249	40	4	4	

Bodies and assembly parts are included in the scope of delivery.

Tool	Designation	D_N	P_{max} mm	P_{max} TPI	D_c mm	l_3 mm	l_1 mm	d_1 mm	Z	No. of indexable inserts	Type
Shank DIN 1835 B 	★ T2713-24-W25-3-09	G 1"	3,50	7	24	94,5	163	25	3	3	P26310-09G11 ..
	★ T2713-29-W32-3-09	G1 1/8"	4,00	6	29	112,5	185	32	3	3	
	★ T2713-40-W40-3-14	G 1 1/2"	5,00	5	40	151	235	40	3	3	P26310-14G11 ..
	★ T2713-44-W40-3-14	G 1 3/4"	5,50	5	44	175	258	40	3	3	
	★ T2713-52-W40-4-14	G 2"	6,00	4	52	199	281	40	4	4	
Walter Capto™ in accordance with ISO 26623 	★ T2713-60-C5-4-14	G 2 1/4"	6,00	4	60	115	152	50	4	4	P26310-14G11 ..
	★ T2713-73-C6-5-14	G 2 3/4"	6,00	4	73	125	170	63	5	5	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		24–29	40–73
	Clamping screw for indexable insert	FS2111 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,9 Nm	2,0 Nm
	Coolant screw	FS2111 (Torx 7IP)	FS1457 (Torx 9IP)
	Tightening torque	0,9 Nm	2,0 Nm

Accessories

D _c [mm]		24–29	40–73
	Torque screwdriver, analogue	FS2001	FS2003
	Tightening torque	0,4–1,2 Nm	1,5–5,0 Nm
	Interchangeable blade	FS2011 (Torx 7IP)	FS2013 (Torx 9IP)
	Screwdriver for indexable insert	FS2088 (Torx 7IP)	FS1484 (Torx 9IP)

Thread milling cutter inserts P26310

Designation	Size	r mm	Pitch P TPI	l mm	Number of cutting edges	P	M	K	N	S	H	O						
						HC	HC	HC	HC	HC	HC	HC	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S
P26310-09G11-D61	9	0,2	11	9,34	3	✘	✘	✘	✘	✘	✘	✘						
P26310-14G11-D61	14	0,2	11	13,72	3	✘	✘	✘	✘	✘	✘	✘						

Partial profile indexable inserts for producing the flattened profile in accordance with DIN EN ISO 228.

HC = Coated carbide

Tool selection

G thread (BSP)															
Family	Body designation	Insert	I3 [mm]	G 1"	G 1 1/8"	G 1 1/4"	G 1 1/2"	G 1 3/4"	G 2"	G 2 1/4"	G 2 1/2"	G 2 3/4"	G 3"	≥ G 3 1/2"	
T2712	T2712-24-W25-3-09	09G11	79,5	●●	●●	●●	●●	●	●	●	●	●	●	●	
	T2712-29-W32-3-09		94,5		●●	●●	●●	●●	●	●	●	●	●	●	
	T2712-40-W40-3-14	14G11	127				●●	●●	●●	●●	●	●	●	●	
	T2712-44-W40-3-14		147				●●	●●	●●	●●	●	●	●	●	
	T2712-52-W40-4-14		167						●●	●●	●●	●●	●	●	●
T2713	T2713-24-W25-3-09	09G11	94,5	●●	●●	●●	●●	●	●	●	●	●	●	●	
	T2713-29-W32-3-09		112,5		●●	●●	●●	●●	●	●	●	●	●	●	
	T2713-40-W40-3-14	14G11	151				●●	●●	●●	●●	●	●	●	●	
	T2713-44-W40-3-14		175				●●	●●	●●	●●	●	●	●	●	
	T2713-52-W40-4-14		199						●●	●●	●●	●●	●	●	●
	T2713-60-C5-4-14		115							●●	●●	●●	●●	●	●
T2713-73-C6-5-14	125										●●	●●	●●		

Example: With the T2712-29-W32-3-09 body and the P26310-09G11.. indexable insert, G threads from 1 1/8" can be produced.

- **Primary application:** High level of cost efficiency for small and large batch sizes
- **Additional application:** Cost-effective for small batch sizes (in order to achieve a good surface quality, the feed per tooth must be reduced. This results in longer machining times.)

Cutting data

Thread forming and tapping

The specified cutting data are average standard values.
For specific applications, adjustment is recommended.

Material group	Overview of the main material groups and code letters		Birnell hardness HB	Tensile strength R _m N/mm ²	Machining group ¹	HSS-E(-PM) thread formers				
						Coated				
						v _c [m/min]				
						1,5 × D _N	2 × D _N	2,5 × D _N		
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	46	37	32	E
		C > 0.25%... ≤ 0.55%	Annealed	190	640	P2	47	38	33	E
		C > 0.25%... ≤ 0.55%	Heat-treated	210	710	P3	29	23	20	E
		C > 0.55%	Annealed	190	640	P4	29	23	20	E
		C > 0.55%	Heat-treated	300	1010	P5	17	14	12	E
		Free-machining steel (short-chipping)	Annealed	220	750	P6	29	23	20	E
	Low-alloy steel	Annealed		175	590	P7	47	38	33	E
		Heat-treated		285	960	P8	15	12	11	E
		Heat-treated		380	1280	P9				
		Heat-treated		430	1480	P10				
	High-alloy steel and high-alloyed tool steel	Annealed		200	680	P11	29	23	20	E
		Hardened and tempered		300	1010	P12	17	14	12	E
		Hardened and tempered		380	1280	P13				
	Stainless steel	Ferritic/martensitic, annealed		200	680	P14	13	10	9	E O
		Martensitic, heat-treated		330	1110	P15	5	4	3	O
M	Stainless steel	Austenitic, quench hardened		200	680	M1	15	12	11	E O
		Austenitic, precipitation hardened (PH)		300	1010	M2	5	4	4	O
		Austenitic/ferritic, duplex		230	780	M3	5	4	4	E O
K	Malleable cast iron	Ferritic		200	400	K1				
		Pearlitic		260	700	K2				
	Grey cast iron	Low tensile strength		180	200	K3				
		High tensile strength/austenitic		245	350	K4				
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	29	23	20	E
		Pearlitic		265	700	K6	14	12	10	E
	GGV (CGI)		230	400	K7					
N	Wrought aluminium alloys	Not hardenable		30	–	N1	56	45	39	E
		Hardenable, hardened		100	340	N2	52	43	37	E
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3	48	39	34	E
		≤ 12% Si, hardenable, hardened		90	310	N4	48	39	34	E
		> 12% Si, not hardenable		130	450	N5				
	Magnesium alloys		70	250	N6					
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7	21	17	15	E
		Brass, bronze, red brass		90	310	N8				
		Cu alloys, short-chipping		110	380	N9				
		High-tensile, Ampco		300	1010	N10				
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	8	6	5	E
			Hardened	280	940	S2				
		Ni- or Co-based	Annealed	250	840	S3	8	6	5	O
			Hardened	350	1180	S4				
			Cast	320	1080	S5				
	Titanium alloys	Pure titanium		200	680	S6				
		α and β alloys, hardened		375	1260	S7				
		β alloys		410	1400	S8				
	Tungsten alloys		300	1010	S9					
	Molybdenum alloys		300	1010	S10					
H	Hardened steel	Hardened and tempered		50 HRC	–	H1				
		Hardened and tempered		55 HRC	–	H2				
		Hardened and tempered		60 HRC	–	H3				
	Hardened cast iron	Hardened and tempered		55 HRC	–	H4				
O	Thermoplastics	Without abrasive fillers				O1				
	Thermosets	Without abrasive fillers				O2				
	Plastic, glass-fibre-reinforced	GFRP				O3				
	Plastic, carbon-fibre-reinforced	CFRP				O4				
	Plastic, aramid-fibre-reinforced	AFRP				O5				
	Graphite (technical)		80 Shore							

¹ The classification of the machining groups can be found from page B 1174 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium-based alloys.

*For materials with a hardness of more than 63 HRC, reduce the cutting speed by 50–75%.

	HSS-E(-PM) taps							TC388 tap		TC389 tap*		
	Uncoated			Coated				WJ30BA		WE10BA		
	v _c [m/min]			v _c [m/min]				v _c [m/min]		v _c [m/min]		
	1,5 × D _N	2 × D _N	2,5 × D _N	1,5 × D _N	2 × D _N	2,5 × D _N		1,5 × D _N	2 × D _N	1,5 × D _N	2 × D _N	
	16	13	12	37	30	26	E					
	20	17	14	37	31	26	E					
	10	9	7	23	19	17	E					
	10	9	7	23	19	16	E					
	6	5	4	14	12	10	E					
	10	9	7	23	19	16	E					
	20	17	14	37	30	26	E					
	5	4	4	12	10	9	E					
	3	3	2	7	6	5	E					
	3	2	2	5			O					
	10	9	7	23	19	16	E					
	6	5	4	14	12	10	E					
	3	3	2	7	6	5	O					
	3	2	2	7	6	5	E					
	3	2	2	5	4	3	E					
	4	3	3	8	7	6	E					
	2	2	1	5	4	3	E					
	2	2	2	6	5	4	E					
	10	9	7	22	18	16	E					
	7	5	5	11	9	8	E					
	19	16	13	44	36	32	E					
	13	10	9	17	14	12	E					
	10	9	7	22	18	16	E					
	7	5	5	12	10	9	E					
	6	5	4	10	8	7	E					
	10	8	7	8	7	6	E					
	19	16	13	32	26	22	E					
	17	14	12	22	18	16	E					
	17	14	12	22	18	16	E					
	16	13	11	25	21	18	E					
	26	21	19	34	28	24	O					
	9	7	6	14	12	10	E					
	24	21	18	36	29	25	E					
	31	25	21	48	40	34	E					
	2						E					
	3	3	2				E					
	2	2	2	3			E					
	3	3	2				E					
	2	2	2	3			O					
	2	2	2	3			O					
	10	8	7	8	7	6	E					
	3	2	2	4	4		O					
	3	2	2	4	4		O					
	2	2	2	2	2		O	6	5	6	5	O
	5	5	4	7	5		O	17	14	17	14	O
							O	10	8			EO
							O	4	3	4	3	EO
							O			2	1,5	EO
							O	4	3	4	3	EO
	28	23	19	22	18	15	E					
	11	9	8	13	10	9	E					
	6	5	4	8	6	5	E					
	6	5	4	8	6	5	E					
	6	5	4	8	6	5	E					
	13	11	9	19	16	13	E					

B3
B4

Cutting data

Solid carbide thread milling

Material group	= Cooling lubricant recommended E = Emulsion M = MQL A = Compressed air v_c = Cutting speed [m/min] f_z = Feed rate per tooth [mm]		●● = Recommended strategy ● = Possible strategy		Brinell hardness HB	Tensile strength R _m N/mm ²	Machining group ¹		TC620		
	Strategy			Synchronous milling					Asynchronous milling	Non-cutting pass	
	Overview of the main material groups and code letters										
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	E M	●	●●	●	
		C > 0.25 ... ≤ 0.55%	Annealed	190	640	P2	E M	●	●●	●	
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	710	P3	E M	●	●●	●	
		C > 0.55%	Annealed	190	640	P4	E M	●	●●	●	
		C > 0.55%	Heat-treated	300	1010	P5	E M	●	●●	●	
	Low-alloy steel	Free-machining steel (short-chipping)	Annealed	220	750	P6	E M	●	●●	●	
		Annealed		175	590	P7	E M	●	●●	●●	
		Heat-treated		285	960	P8	E M	●	●●	●	
		Heat-treated		380	1280	P9	E M	●	●●	●	
	High-alloyed steel and high-alloyed tool steel	Heat-treated		430	1480	P10	E M	●	●●	●	
		Annealed		200	680	P11	E M	●	●●	●●	
		Hardened and tempered		300	1010	P12	E M	●	●●	●	
	Stainless steel	Hardened and tempered		380	1280	P13	E M	●	●●	●	
		Ferritic/martensitic, annealed		200	680	P14	E M	●	●●	●●	
	M	Stainless steel	Martensitic, heat-treated		330	1110	P15	E M	●	●●	●
Austenitic, quench hardened				200	680	M1	E	●●	●	●●	
Austenitic, precipitation hardened (PH)				300	1010	M2	E	●●	●	●●	
K	Malleable cast iron	Austenitic/ferritic, duplex		230	780	M3	E	●●	●	●●	
		Ferritic		200	400	K1	E M	●	●●	●	
	Grey cast iron	Pearlitic		260	700	K2	E M	●	●●	●	
		Low tensile strength		180	200	K3	E M	●	●●	●	
	Cast iron with spheroidal graphite	High tensile strength/austenitic		245	350	K4	E M	●	●●	●	
		Ferritic		155	400	K5	E M	●	●●	●	
	GGV (CGI)	Pearlitic		265	700	K6	E M	●	●●	●	
High-tensile, Ampco			230	400	K7	E M	●	●●	●		
N	Wrought aluminium alloys	Not hardenable		30	-	N1	E M	●●	●	●	
		Hardenable, hardened		100	340	N2	E M	●●	●	●	
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3	E M	●●	●	●	
		≤ 12% Si, hardenable, hardened		90	310	N4	E M	●●	●	●	
		> 12% Si, not hardenable		130	450	N5	E M	●●	●	●	
	Magnesium-based alloys ³		70	250	N6	A	●●	●	●		
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7	E M	●●	●	●●	
		Brass, bronze, red brass		90	310	N8	E M	●●	●	●	
		Cu alloys, short-chipping		110	380	N9	E M	●●	●	●	
		High-tensile, Ampco		300	1010	N10	E M	●●	●	●	
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	E	●●	●	●●	
		Hardened		280	940	S2	E	●●	●	●●	
		Annealed		250	840	S3	E	●●	●	●●	
		Ni- or Co-based	Hardened		350	1180	S4	E	●●	●	●●
		Cast		320	1080	S5	E	●●	●	●●	
	Titanium alloys	Pure titanium		200	680	S6	E	●●	●	●●	
		α and β alloys, hardened		375	1260	S7	E	●●	●	●	
		β alloys		410	1400	S8	E	●●	●	●	
	Tungsten alloys		300	1010	S9	E	●●	●	●		
	Molybdenum alloys		300	1010	S10	E	●●	●	●		
H	Hardened steel	Hardened and tempered		50 HRC	-	H1	M A	●	●●	●	
		Hardened and tempered		55 HRC	-	H2	M				
		Hardened and tempered		60 HRC	-	H3	M				
	Hardened cast iron	Hardened and tempered		55 HRC	-	H4	M A				
O	Thermoplastics	Without abrasive fillers				O1	E M	●●	●	●	
	Thermosets	Without abrasive fillers				O2	E M	●●	●	●	
	Plastic, glass-fibre-reinforced	GFRP				O3	E M	●●	●	●	
	Plastic, carbon-fibre-reinforced	CFRP				O4	E M	●●	●	●	
	Plastic, aramid-fibre-reinforced	AFRP				O5	E M	●●	●	●	
	Graphite (technical)			65			O6	E M	●●	●	●

¹ The classification of the machining groups can be found from page B 1174 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium alloys.

* The TC685 is a left-hand cutting version. Machining is therefore performed synchronously.

	TC620				TC685*			
	v_c [m/min]	f_z [mm]			v_c	f_z [mm]		
	WB10TJ	$D_c \leq 6$ mm	$D_c > 6$ mm and ≤ 12 mm	$D_c > 12$ mm	WB10RC	$D_c \leq 4$ mm	$D_c > 4$ mm and ≤ 8 mm	$D_c > 8$
	115	0,07	0,11	0,15				
	155	0,07	0,11	0,15				
	130	0,07	0,11	0,15				
	130	0,07	0,11	0,15				
	95	0,07	0,11	0,15				
	130	0,07	0,11	0,15				
	130	0,07	0,11	0,15				
	80	0,05	0,09	0,13				
	75	0,05	0,09	0,13				
	65	0,05	0,09	0,13	70	0,015	0,030	0,050
	150	0,07	0,11	0,15				
	110	0,07	0,11	0,15				
	90	0,07	0,11	0,15				
	55	0,07	0,11	0,15				
	45	0,07	0,11	0,15				
	70	0,05	0,09	0,13				
	40	0,05	0,09	0,13				
	45	0,04	0,07	0,10				
	105	0,07	0,12	0,17	90	0,020	0,045	0,070
	100	0,07	0,12	0,17	90	0,020	0,045	0,070
	130	0,07	0,12	0,17	100	0,020	0,045	0,070
	110	0,07	0,11	0,15	90	0,020	0,045	0,070
	105	0,07	0,11	0,15	90	0,020	0,045	0,070
	100	0,07	0,11	0,15	90	0,020	0,045	0,070
	85	0,07	0,11	0,15	80	0,020	0,045	0,070
	400	0,07	0,12	0,17				
	400	0,07	0,12	0,17				
	400	0,07	0,12	0,17				
	400	0,07	0,12	0,17				
	170	0,07	0,12	0,17				
	400	0,07	0,12	0,17				
	360	0,07	0,12	0,17				
	360	0,07	0,12	0,17				
	360	0,07	0,12	0,17				
	50	0,05	0,09	0,13				
	35	0,07	0,11	0,15				
	25	0,07	0,11	0,15				
	40	0,07	0,11	0,15				
	25	0,05	0,09	0,13				
	25	0,05	0,09	0,13				
	40	0,07	0,11	0,15				
	40	0,05	0,09	0,13				
	20	0,05	0,09	0,13				
	50	0,05	0,09	0,13	30	0,010	0,020	0,050
	60	0,05	0,09	0,13	30	0,010	0,020	0,050
	55	0,05	0,09	0,13	55	0,012	0,030	0,050
					50	0,010	0,022	0,040
					45	0,008	0,020	0,030
					50	0,010	0,022	0,040
	290	0,06	0,1	0,14				
	145	0,06	0,1	0,14				
	65	0,06	0,1	0,14				
	65	0,06	0,1	0,14				
	65	0,06	0,1	0,14				
	215	0,06	0,1	0,14				

B3

B4

Cutting data

Indexable insert thread milling

Material group	= Cooling lubricant recommended E = Emulsion M = MQL A = Compressed air v _c = Cutting speed [m/min] f _z = Feed rate per tooth [mm]		Birnell hardness HB	Tensile strength R _m N/mm ²	Machining group ¹		T2711 / T2712 / T2713			
							v _c (m/min)	f _z (mm)		
								Insert size		
Overview of the main material groups and code letters							06	09 / 11 / 14		
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	E M	200	0,3	0,4
		C > 0.25 ... ≤ 0.55%	Annealed	190	640	P2	E M	200	0,3	0,4
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	710	P3	E M	200	0,3	0,4
		C > 0.55%	Annealed	190	640	P4	E M	200	0,3	0,4
		C > 0.55%	Heat-treated	300	1010	P5	E M	200	0,3	0,4
		Free-machining steel (short-chipping)	Annealed	220	750	P6	E M	200	0,3	0,4
	Low-alloy steel		Annealed	175	590	P7	E M	200	0,3	0,4
			Heat-treated	285	960	P8	E M	200	0,3	0,4
			Heat-treated	380	1280	P9	E M	150	0,25	0,35
			Heat-treated	430	1480	P10	E M	100	0,2	0,3
	High-alloyed steel and high-alloyed tool steel		Annealed	200	680	P11	E M	200	0,3	0,4
			Hardened and tempered	300	1010	P12	E M	200	0,3	0,4
			Hardened and tempered	380	1280	P13	E M	150	0,3	0,4
	Stainless steel		Ferritic/martensitic, annealed	200	680	P14	E M	200	0,25	0,35
			Martensitic, heat-treated	330	1110	P15	E M	150	0,25	0,35
M	Stainless steel		Austenitic, quench hardened	200	680	M1	E	200	0,2	0,3
			Austenitic, precipitation hardened (PH)	300	1010	M2	E	150	0,2	0,3
			Austenitic/ferritic, duplex	230	780	M3	E	80	0,2	0,3
K	Malleable cast iron		Ferritic	200	400	K1	E M	200	0,3	0,4
			Pearlitic	260	700	K2	E M	200	0,3	0,4
	Grey cast iron		Low tensile strength	180	200	K3	E M	250	0,3	0,4
			High tensile strength/austenitic	245	350	K4	E M	200	0,3	0,4
	Cast iron with spheroidal graphite		Ferritic	155	400	K5	E M	200	0,3	0,4
			Pearlitic	265	700	K6	E M	200	0,3	0,4
	GGV (CGI)		230	400	K7	E M	200	0,3	0,4	
N	Wrought aluminium alloys		Not hardenable	30	–	N1	E M	–	–	–
			Hardenable, hardened	100	340	N2	E M	–	–	–
	Cast aluminium alloys		≤ 12% Si, not hardenable	75	260	N3	E M	–	–	–
			≤ 12% Si, hardenable, hardened	90	310	N4	E M	–	–	–
			> 12% Si, not hardenable	130	450	N5	E M	200	0,3	0,4
		Magnesium-based alloys ³		70	250	N6	A	250	0,3	0,4
	Copper and copper alloys (bronze/brass)		Unalloyed, electrolytic copper	100	340	N7	E M	–	–	–
		Brass, bronze, red brass	90	310	N8	E M	–	–	–	
		Cu alloys, short-chipping	110	380	N9	E M	–	–	–	
		High-tensile, Ampco	300	1010	N10	E M	–	–	–	
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	E	40	0,25	0,25
			Hardened	280	940	S2	E	25	0,15	0,15
		Ni- or Co-based	Annealed	250	840	S3	E	40	0,25	0,25
			Hardened	350	1180	S4	E	25	0,15	0,15
			Cast	320	1080	S5	E	30	0,2	0,2
	Titanium alloys		Pure titanium	200	680	S6	E	40	0,25	0,25
			α and β alloys, hardened	375	1260	S7	E	40	0,25	0,25
			β alloys	410	1400	S8	E	30	0,2	0,2
		Tungsten alloys		300	1010	S9	E	40	0,25	0,25
		Molybdenum alloys		300	1010	S10	E	40	0,25	0,25
H	Hardened steel		Hardened and tempered	50 HRC	–	H1	M A	45	0,2	0,3
			Hardened and tempered	55 HRC	–	H2	M	–	–	–
			Hardened and tempered	60 HRC	–	H3	M	–	–	–
		Hardened cast iron		55 HRC	–	H4	M A	45	0,2	0,3
O	Thermoplastics	Without abrasive fillers				O1	E M	200	0,3	0,4
	Thermosets	Without abrasive fillers				O2	E M	150	0,3	0,4
	Plastic, glass-fibre-reinforced	GFRP				O3	E M	50	0,3	0,4
	Plastic, carbon-fibre-reinforced	CFRP				O4	E M	50	0,3	0,4
	Plastic, aramid-fibre-reinforced	AFRP				O5	E M	50	0,3	0,4
	Graphite (technical)			65			O6	E M	200	0,3

¹ The classification of the machining groups can be found from page B 1174 onwards in the Walter General Catalogue 2017.

³ Water-miscible coolants must not be used when machining magnesium alloys.

Machining must be performed synchronously. The specified cutting data are target values under good machining conditions.

Remedy for vibrations:


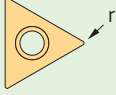
- Use indexable inserts with D61 geometry
- Reduce v_c by 25–50% and/or increase f_z by 25–50%
- Radial cutting pass

T2711/T2712: One radial cut is recommended

T2713: Radial cutting pass may be required.


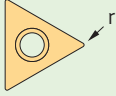
Radius correction values for thread milling Walter T2711 / T2712 / T2713

Metric thread in accordance with DIN 13

Thread nominal diameter D_N			Radius correction		
			Minimum dimension for H tolerances	Middle of the tolerance range for a 6H tolerance	Middle of the tolerance range for a 6G tolerance
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
≥ 24	1,5	0,1	-0,05	-0,10	-0,12
	2	0,1	-0,10	-0,15	-0,17
	3	0,2	-0,10	-0,16	-0,19
	3,5	0,2	-0,15	-0,22	-0,24
	4	0,2	-0,20	-0,27	-0,30
	4,5	0,2	-0,25	-0,33	-0,36
	5	0,4	-0,10	-0,18	-0,22
	5,5	0,4	-0,15	-0,24	-0,27
	6	0,4	-0,20	-0,29	-0,33
	8	0,4	-0,40	-0,51	-0,56
10	0,4	-0,59	-0,71	-	


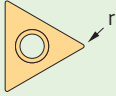
Based on the pitch diameter tolerances in accordance with DIN ISO 965-1. Valid from M24.

UN/UNC/UNF/UNEF thread in accordance with ASME B1.1

Thread nominal diameter D_N			Radius correction		
			Minimum dimension	Middle of the tolerance range for a 2B tolerance	Middle of the tolerance range for a 3B tolerance
[inches]	[TPI]	[mm]	[mm]	[mm]	[mm]
≥ 1 "	18	0,1	-0,04	-0,08	-0,07
	16	0,1	-0,06	-0,10	-0,09
	14	0,1	-0,08	-0,12	-0,11
	12	0,1	-0,11	-0,16	-0,15
	8	0,2	-0,12	-0,17	-0,16
	7	0,2	-0,16	-0,22	-0,21
	6	0,2	-0,22	-0,29	-0,27
	5	0,4	-0,11	-0,18	-0,16
	4,5	0,4	-0,16	-0,24	-0,22
	4	0,4	-0,23	-0,32	-0,30

Based on the pitch diameter tolerances in accordance with ASME B1.1. Valid from UNC 1.

Pipe thread G (BSP) in accordance with DIN EN ISO 228

Thread nominal diameter D_N			Radius correction	
			Minimum dimension	Middle of the tolerance range
[inches]	[TPI]	[mm]	[mm]	[mm]
≥ 1" and < 2 1/4"	11	0,2	-0,11	-0,16
≥ 2 1/4"	11	0,2	-0,11	-0,17


Based on the pitch diameter tolerances in accordance with DIN ISO 228. Valid from D_N 1" and above.

If the measured tool radius is reduced by the value stated in the "Minimum dimension" column, the thread is still in the lower tolerance range after machining and is usually too narrow. If the thread has to be milled to bring it to the middle of the tolerance range, the measured tool radius must be reduced by the value stated in the "Middle of the tolerance range" column. The thread is generally true to gauge after machining. Radius correction values can also be determined in Walter GPS.

Example of an M36 – 6H thread	P	4 mm
	r	0,2 mm
Measured tool radius	14,53 mm	
Radius correction in the middle of the 6H tolerance range	- 0,27 mm	
Tool radius to be used	= 14,26 mm	


Radius correction values for solid carbide thread milling cutters Walter TC620 / TC685

Metric thread in accordance with DIN 13

Thread nominal diameter D_N [mm]		Radius correction		
		Minimum dimension for H tolerances	Middle of the tolerance range for a 6H tolerance	Middle of the tolerance range for a 6G tolerance
			[mm]	[mm]
≥ 3 and ≤ 22	0,50	Rprg.	-0,025	-0,035
	0,70	Rprg.	-0,030	-0,041
	0,80	Rprg.	-0,031	-0,043
	1,00	Rprg.	-0,038	-0,051
	1,25	Rprg.	-0,040	-0,054
	1,50	Rprg.	-0,045	-0,061
	1,75	Rprg.	-0,050	-0,067
	2,00	Rprg.	-0,053	-0,072
	2,50	Rprg.	-0,056	-0,077

Based on the pitch diameter tolerances in accordance with DIN ISO 965-1.

UN/UNC/UNF/UNEF thread in accordance with ASME B1.1

Thread nominal diameter D_N [inches]		Radius correction		
		Minimum dimension for H tolerances	Middle of the tolerance range for a 2B tolerance	Middle of the tolerance range for a 3B tolerance
	[TPI]		[mm]	[mm]
≥ 0.164" and ≤ 0.75"	32	Rprg.	-0,023	-0,017
	24	Rprg.	-0,027	-0,020
	20	Rprg.	-0,031	-0,023
	18	Rprg.	-0,034	-0,025
	16	Rprg.	-0,036	-0,027
	13	Rprg.	-0,041	-0,030
	11	Rprg.	-0,046	-0,034
		10	Rprg.	-0,049

Based on the pitch diameter tolerances in accordance with ASME B1.1.

The programming radius (abbreviated to "Rprg.") can be read from the tool shank and is to be entered in the tool table of the CNC control system. The milled thread is then in the lower tolerance range and is usually too narrow. If the thread has to be milled to bring it to the middle of the tolerance range, the Rprg. must be reduced by the value stated in the "Middle of the tolerance range" column. The thread is then generally true to gauge. The radius correction values can also be determined using Walter GPS.

Example of an M8 – 6H thread with P = 1.25 mm

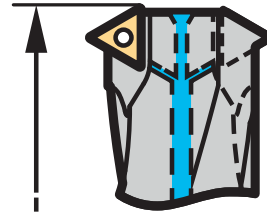
Programming radius (Rprg.)	3,07 mm
Radius correction in the middle of the 6H tolerance range	- 0,04 mm
Tool radius to be used	= 3,03 mm



Tool application Walter T2711 / T2712 / T2713

TOOL GAUGING

If the CNC program is created using Walter GPS, the tool must be gauged as shown in the diagram on the right. The thread depth that was entered is then reached.



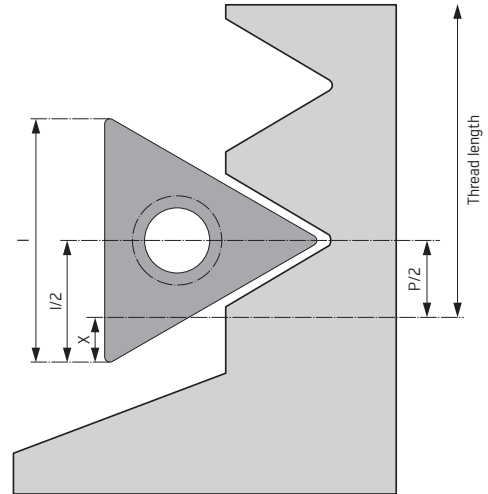
UNUSABLE LENGTH

The thread length includes the last thread ridge plus half a pitch. Since $l/2$ is greater than $P/2$, this results in an "unusable length" (X), which must be taken into consideration during programming.

This is calculated as half of the insert length ($l/2$) minus half of the thread pitch ($P/2$). When creating CNC programs, Walter GPS takes the "unusable length" into account.

Example: M36 with P26300-0902.. thread milling cutter insert.

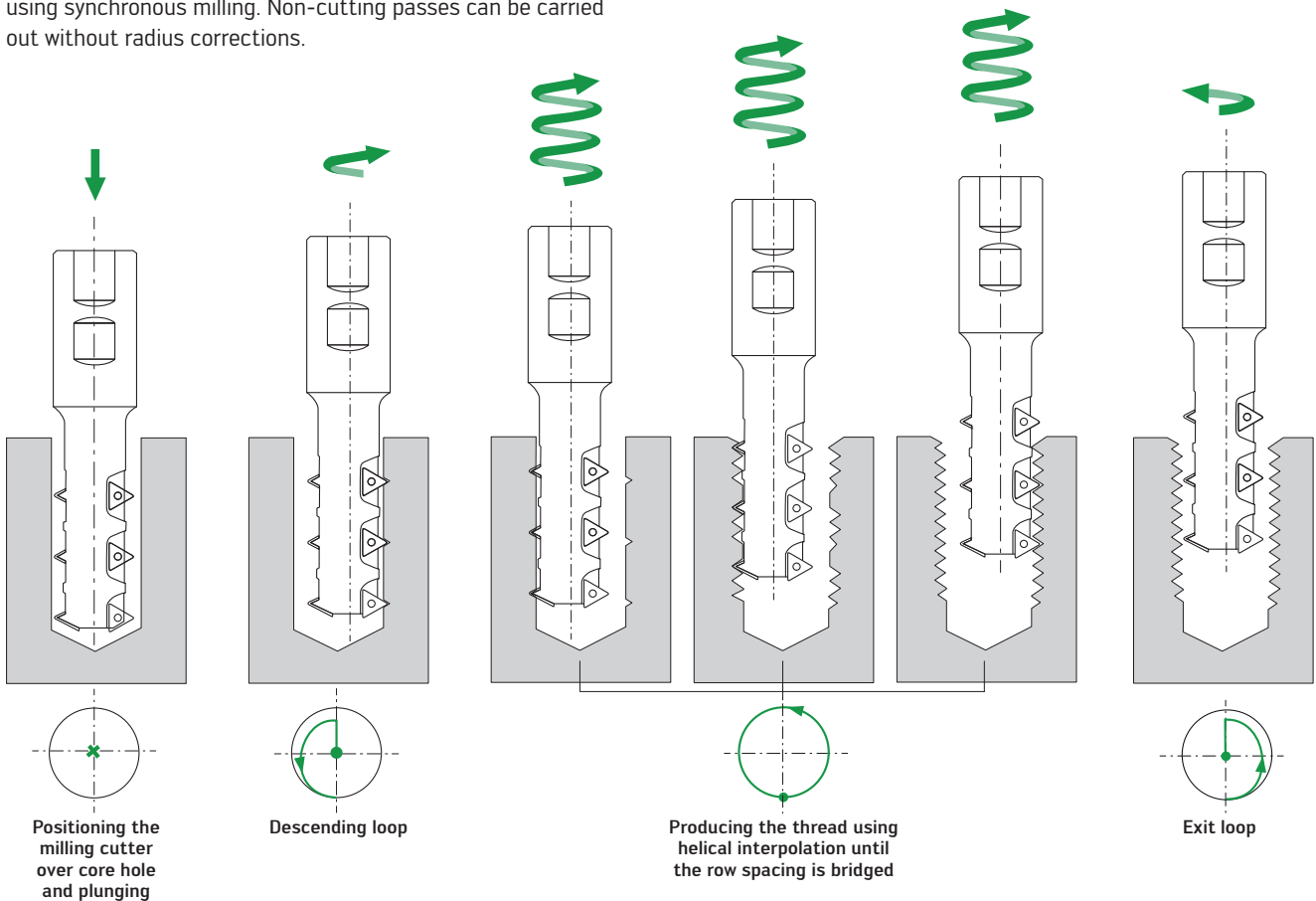
$$\text{Unusable length } X = l/2 - P/2 = \frac{9.34 \text{ mm}}{2} - \frac{4 \text{ mm}}{2} = 2.67 \text{ mm}$$



The unusable length of the T271.. families is less than the chamfer length of a tap.

THE STRATEGY

It is recommended that the thread be produced with a radial cut using synchronous milling. Non-cutting passes can be carried out without radius corrections.



B3
B4

Solid carbide and ceramic milling tools – C1

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Milling tools with indexable inserts – C2

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C1

C2



Solid carbide milling tools product range overview

Shoulder milling cutters

Machining				
Helix angle	35°	50°	30°	
Designation	MD133 Supreme	MC187 Advance	MC183 Advance	MC111 Advance
Diameter range [mm] / [inch]	6-20 / 1/4-3/4	3-25 / 1/8-3/4	6-16	3/32-3/4
Z	5-6	4-8	6-16	4
Corner radius [mm] / [inch]	0,3-1 / 0.015-0.030	0-3 / 0.015-0.060	0	0
Page	452	455	456	457






Solid carbide milling tools product range overview

Shoulder/slot milling cutters

Machining						
Helix angle	35°	30°	50°	50°	30°	50°
Designation	AH4135217 AH4137217 Proto-max™ _{ST}	MB266 Supreme	MC388 Advance	MC089 Advance	MC281 Advance	MC326 Supreme
Diameter range [mm] / [inch]	3/8-3/4	1/4-1	2-12 / 1/8-1/2	4-16	1-4	1/4-1
Z	5	3	3-4	4	2	4-5
Corner radius [mm] / [inch]	0.030-0.060	0.015-0.120	0-3	0	0,2-0,5	0.030-0.125
Page	458	459	460	462	463	464



Solid carbide milling tools product range overview

Shoulder/slot milling cutters

Machining				
Helix angle	30°	40°		35°
Designation	MC213 Advance MC216 Advance	MC319 Advance	MC320 Advance	MC232 Perform
Diameter range [mm]/[inch]	3/32–3/4	5–25	4–25 / 1/4–3/4	2–20 / 1/8–3/4
Z	2–4	4	3–8	2–4
Corner radius [mm]	0–0.120	0	0	0–4 / 0–0.125
Page	464	466	467	469
				

Solid carbide milling tools product range overview

Copy milling cutters

Machining	
Helix angle	30°
Designation	MC480 Advance MC482 Advance
Diameter range [inch]	0,4–16 / 1/8–1/2
Z	2–4
Corner radius [inch]	0,2–4 / 0.063–0.250
Page	475
	

Designation key – Solid carbide milling tools

Example:

M	C	3	26	–	12.0	A	4	B	200	A	–	W	K	40	TF
1	2	3	4	5	6	7	8	9	10	11	Grade				

1	2	3	4	
Tool group	Generation	Tool type	Tool type	
M Milling		0 Face milling cutters 1 Shoulder milling cutters 2 Shoulder/slot/porcupine milling cutters Helix angle $\leq 39^\circ$ 3 Shoulder/slot/porcupine milling cutters Helix angle $\geq 40^\circ$ 4 Ball nose mill/copy milling cutters 5 Profiling cutters 7 Slot drill mills/circular interpolation mills	00 Universal Helix angle 0° , chamfer milling cutters 60° 01 Universal Helix angle 0° , chamfer milling cutters 90° 02 Universal Helix angle 0° , chamfer milling cutters 120° 03 Universal Helix angle 0° , quadrant profiling cutters 04 Universal Helix angle 0° , front/back deburrers 11 Universal Helix angle 30° , type N 12 Universal Helix angle 30° , type HSC 13 Universal Helix angle 30° , type HSC, long version 16 Universal Helix angle 30° , type 30 19 Universal Helix angle 40° , knurled profile with internal cooling 20 Universal Helix angle 40° , knurled profile 21 Universal Helix angle 45° , short version 22 Universal Helix angle 45° , type N 24 Universal Helix angle 45° , type 45 26 Universal Helix angle 50° , unequal groove depth, differential pitch 29 Universal Helix angle 60° , type N, multipurpose cutter 32 Universal Helix angle 35° 33 Universal Helix angle 35° + chip breaker 41 ISO P Helix angle 50° , HPC, differential pitch 51 ISO M Helix angle $35^\circ/38^\circ$, without IC 65 ISO N Helix angle 30° , AI geometry, RAPAX G30 roughing profile, Axial internal coolant 66 ISO N Helix angle 30° , AI geometry, Axial internal coolant 80 ISO H Helix angle 30° , HSC type H = Helix angle 30° , HSC, type H 81 ISO H Helix angle 30° , mini HSC T, type H = Helix angle 30° , mini HSC T, type H 82 ISO H Helix angle 30° , mini HSC R, type H = Helix angle 30° , mini HSC R, type H 83 ISO H Helix angle 30° , multi-flute, type H = Helix angle 30° , multi-flute, type H 87 ISO H Helix angle 50° , multi-flute, type H = Helix angle 50° , multi-flute, type H 88 ISO H Helix angle 50° , HPC type H = Helix angle 50° , HPC, type H 89 ISO H Helix angle 50° , high-feed, type H = Helix angle 50° , high-feed, type H	
5	6	7		
Delimiters	Cutting diameter	Shank type		
– Metric · Inch		A Parallel shank E ConeFit W Weldon shank		
8	9	10	11	
Number of teeth	Design standard	Corner radius	Variant	
	A DIN 6527 K B DIN 6527 L C ANSI stub D ANSI standard L P Standard L M P Standard Mini P P Standard S P Standard S X P Standard XL		A I3 XS B I3 S $2 \times D_c^*$ C I3 M $3 \times D_c^*$ D I3 L $4 \times D_c^*$ E I3 XL $5 \times D_c^*$ F I3 XXL $6 \times D_c^*$ G I3 XXXL $8 \times D_c^*$ H I3 XXXXL $10 \times D_c^*$ J Lc S $3 \times D_c^*$ K Lc M $4 \times D_c^*$ L Lc L $5 \times D_c^*$ V Conical neck $\alpha \leq 3^\circ$ W Conical neck $\alpha \leq 6^\circ$ X Conical neck $\alpha \leq 12^\circ$	

* Standard values

Grade designation key for solid carbide and HSS cutting tool materials

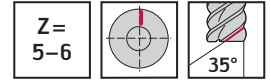
Example:

W	K	40	TF
Walter	1	2	3

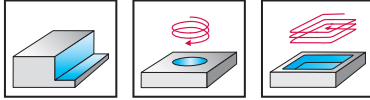
1		2		3		
Substrate		Application range		Coating		
Solid carbide	B	Wear resistance 	Toughness	TF	TiAlN	
	J			UU	Uncoated	
				K	CA	CrN
					RC	TiAlN + AlTi
				HSS		TZ
					ED	AlCrN
	TG				TiAlSiN	
	RD				AlTiN + ZrN	
	RA				TiAlN + TiAl	

Solid carbide shoulder milling cutters

MD133 Supreme /
MD133 Supreme

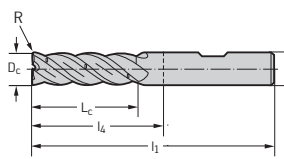


- Chip breaker



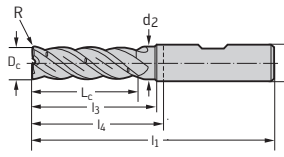
	P	M	K	N	S	H	O
WJ30RA		●●		●	●		
WJ30RD	●●		●				

P STANDARD L		D _c h10 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation									
	MD133-06.0W5L030J-	6	0,3	19	65	29	6	5	☉	☉
	MD133-08.0W5L040J-	8	0,4	25	68	32	8	5	☉	☉
	MD133-10.0W5L050J-	10	0,5	32	80	40	10	5	☉	☉
	MD133-12.0W5L060J-	12	0,6	38	93	48	12	5	☉	☉
	MD133-16.0W6L080J-	16	0,8	50	115	62	16	6	☉	☉
	MD133-20.0W6L100J-	20	1	63	125	75	20	6	☉	☉



Shoulder milling $a_e \leq 0.10 \times D_c$ for ISO P
Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO M and ISO S
Ordering example for the WJ30RD grade: MD133-06.0W5L030J-WJ30RD

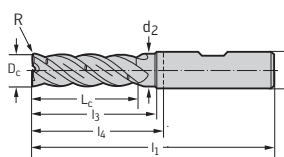
P STANDARD L		D _c h10 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation											
	MD133-06.0W5L030D-	6	0,3	19	27	5,5	65	29	6	5	☉	☉
	MD133-08.0W5L040D-	8	0,4	25	30	7,5	68	32	8	5	☉	☉
	MD133-10.0W5L050D-	10	0,5	32	38	9,5	80	40	10	5	☉	☉
	MD133-12.0W5L060D-	12	0,6	38	46	11,4	93	48	12	5	☉	☉
	MD133-16.0W6L080D-	16	0,8	50	60	15,2	115	62	16	6	☉	☉
	MD133-20.0W6L100D-	20	1	63	73	19	125	75	20	6	☉	☉



Shoulder milling $a_e \leq 0.10 \times D_c$ for ISO P
Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO M and ISO S
Ordering example for the WJ30RD grade: MD133-06.0W5L030D-WJ30RD

C1

P STANDARD L		D _c h10 Inch/ no.	R Inch	L _c Inch	l ₃ Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation											
	MD133.6.35W5L038D-	1/4"	0,015	0,875	1,000	0,237	2,500	1,437	0,250	5	☉	☉
	MD133.9.53W5L038D-	3/8"	0,015	1,250	1,500	0,356	3,250	1,687	0,375	5	☉	☉
	MD133.12.7W5L076D-	1/2"	0,030	1,750	2,125	0,475	4,000	2,217	0,500	5	☉	☉
	MD133.15.9W6L076D-	5/8"	0,030	2,000	2,500	0,594	4,500	2,594	0,625	6	☉	☉
	MD133.19.1W6L076D-	3/4"	0,030	2,500	3,000	0,713	5,500	3,469	0,750	6	☉	☉



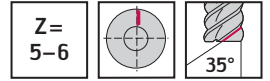
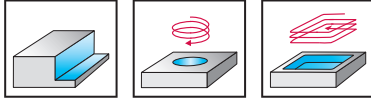
Shoulder milling $a_e \leq 0.10 \times D_c$ for ISO P
Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO M and ISO S
Ordering example for the WJ30RD grade: MD133.6.35W5L038D-WJ30RD

Solid carbide shoulder milling cutters

MD133 Supreme



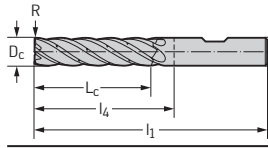
- Chip breaker



	P	M	K	N	S	H	O
WJ30RA		••		•	•		
WJ30RD	••		•				

P STANDARD L		D_c h10 mm	R mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation									
	MD133-06.0W5L030K-	6	0,3	25	65	29	6	5	☉	☉
	MD133-08.0W5L040K-	8	0,4	34	80	44	8	5	☉	☉
	MD133-10.0W5L050K-	10	0,5	42	90	50	10	5	☉	☉
	MD133-12.0W5L060K-	12	0,6	50	100	55	12	5	☉	☉
	MD133-16.0W6L080K-	16	0,8	66	125	77	16	6	☉	☉
MD133-20.0W6L100K-	20	1	83	145	95	20	6	☉	☉	

Shoulder milling $a_e \leq 0.05 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.025 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133-06.0W5L030K-WJ30RD



WALTER SELECT

Best tool for

☺
Good

☹
Average

☹
Poor

machining conditions

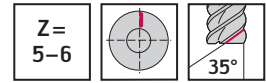
•• Primary application

• Other application

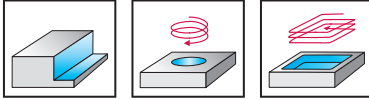
Solid carbide shoulder milling cutters

MD133 Supreme /

MD133 Supreme

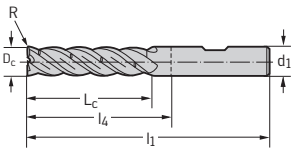


- Chip breaker



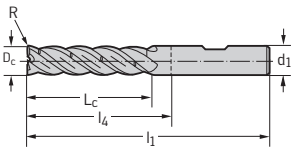
	P	M	K	N	S	H	O
WJ30RA		●●		●	●		
WJ30RD	●●		●				

P STANDARD XL		D _c h10 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation									
	MD133-06.0W5X030L-	6	0,3	31	80	40	6	5	⊕	⊕
	MD133-08.0W5X040L-	8	0,4	41	87	51	8	5	⊕	⊕
	MD133-10.0W5X050L-	10	0,5	52	100	60	10	5	⊕	⊕
	MD133-12.0W5X060L-	12	0,6	62	116	71	12	5	⊕	⊕
	MD133-16.0W6X080L-	16	0,8	82	141	93	16	6	⊕	⊕
	MD133-20.0W6X100L-	20	1	103	165	115	20	6	⊕	⊕



Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.015 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133-06.0W5X030L-WJ30RD

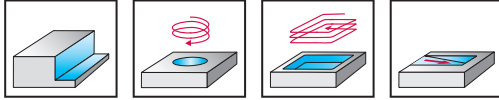
P STANDARD XL		D _c h10 Inch/no.	R Inch	L _c Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	Designation									
	MD133.6.35W5X038L-	1/4"	0,015	1,375	3,000	1,937	0,250	5	⊕	⊕
	MD133.9.53W5X038L-	3/8"	0,015	2,000	4,000	2,437	0,375	5	⊕	⊕
	MD133.12.7W5X076L-	1/2"	0,030	2,750	5,000	3,217	0,500	5	⊕	⊕
	MD133.15.9W6X076L-	5/8"	0,030	3,250	5,500	3,594	0,625	6	⊕	⊕
	MD133.19.1W6X076L-	3/4"	0,030	3,875	6,500	4,469	0,750	6	⊕	⊕



Shoulder milling $a_e \leq 0.03 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.015 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133.6.35W5X038L-WJ30RD

Solid carbide shoulder milling cutters

MC187 Advance /
 MC187 Advance



Z= 4-8

50°

63HRC
48HRC

P	M	K	N	S	H	O
WB10TG						●●

DIN 6527 L		D _c h10 mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TG
Shank DIN 6535 HA	MC187-03.0A4B-	3	8	57	21	6	4	☺
	MC187-04.0A4B-	4	11	57	21	6	4	☺
	MC187-05.0A4B-	5	13	57	21	6	4	☺
	MC187-06.0A6B-	6	13	57	21	6	6	☺
	MC187-08.0A6B-	8	19	63	27	8	6	☺
	MC187-10.0A6B-	10	22	72	32	10	6	☺
	MC187-12.0A6B-	12	26	83	38	12	6	☺
	MC187-16.0A6B-	16	32	92	44	16	6	☺
	MC187-20.0A8B-	20	38	104	54	20	8	☺
	MC187-25.0A8B-	25	45	121	65	25	8	☺

Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187-03.0A4B-WB10TG

P STANDARD L		D _c h10 mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TG
Shank DIN 6535 HA	MC187-06.0A6L-	6	26	75	34	6	6	☺
	MC187-08.0A6L-	8	36	80	44	8	6	☺
	MC187-10.0A6L-	10	46	100	60	10	6	☺
	MC187-12.0A6L-	12	55	110	65	12	6	☺
	MC187-16.0A6L-	16	66	130	82	16	6	☺
	MC187-20.0A8L-	20	80	145	95	20	8	☺
	MC187-25.0A8L-	25	90	153	97	25	8	☺

Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187-06.0A6L-WB10TG

DIN 6527 L		D _c h9 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TG
Shank DIN 6535 HA	MC187-03.0A4B050-	3	0,5	8	57	21	6	4	☺
	MC187-04.0A4B050-	4	0,5	11	57	21	6	4	☺
	MC187-04.0A4B100-	4	1	11	57	21	6	4	☺
	MC187-05.0A6B050-	5	0,5	13	57	21	6	6	☺
	MC187-05.0A6B100-	5	1	13	57	21	6	6	☺
	MC187-06.0A6B050-	6	0,5	13	57	21	6	6	☺
	MC187-06.0A6B100-	6	1	13	57	21	6	6	☺
	MC187-08.0A6B050-	8	0,5	19	63	27	8	6	☺
	MC187-08.0A6B100-	8	1	19	63	27	8	6	☺
	MC187-08.0A6B200-	8	2	19	63	27	8	6	☺
	MC187-10.0A6B050-	10	0,5	22	72	32	10	6	☺
	MC187-10.0A6B100-	10	1	22	72	32	10	6	☺
	MC187-10.0A6B200-	10	2	22	72	32	10	6	☺
	MC187-12.0A6B050-	12	0,5	26	83	38	12	6	☺

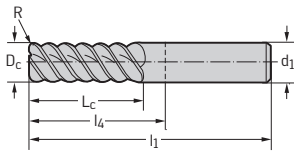
Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187-03.0A4B050-WB10TG

Continued

C1

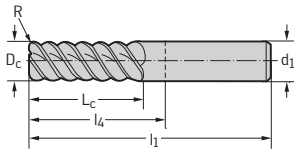
Continued

DIN 6527 L		D_c h9 mm	R mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG
Shank DIN 6535 HA	MC187-12.0A6B100-	12	1	26	83	38	12	6	⊕
	MC187-12.0A6B200-	12	2	26	83	38	12	6	⊕
	MC187-12.0A6B300-	12	3	26	83	38	12	6	⊕



Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187-03.0A4B050-WB10TG

STANDARD		D_c h9 Inch/no.	R Inch	L_c Inch	l_1 Inch	l_4 Inch	d_1 h5 Inch	Z	WB10TG
Shank DIN 6535 HA	MC187.3.18A4D038-	1/8"	0,015	0,500	2,500	1,083	0,250	4	⊕
	MC187.4.76A4D038-	3/16"	0,015	0,625	2,500	1,083	0,250	4	⊕
	MC187.6.35A6D038-	1/4"	0,015	0,750	3,000	1,583	0,250	6	⊕
	MC187.7.94A6D051-	5/16"	0,020	0,813	3,000	1,437	0,375	6	⊕
	MC187.9.53A6D076-	3/8"	0,030	0,875	3,000	1,437	0,375	6	⊕
	MC187.12.7A6D076-	1/2"	0,030	1,000	4,500	2,717	0,500	6	⊕
	MC187.15.9A6D152-	5/8"	0,060	1,250	5,000	3,094	0,625	6	⊕
	MC187.19.1A8D152-	3/4"	0,060	1,500	5,000	2,969	0,750	8	⊕

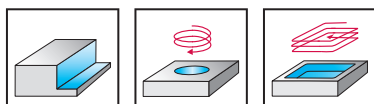


Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC187.3.18A4D038-WB10TG

Solid carbide shoulder milling cutters

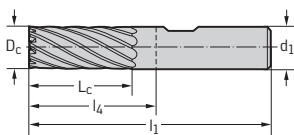
 MC183 Advance


C1



	P	M	K	N	S	H	O
WB10TG						●●	

DIN 6527 L		D_c h10 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG
Shank DIN 6535 HB	MC183-06.0W6B-	6	13	57	21	6	6	⊕
	MC183-08.0W8B-	8	19	63	27	8	8	⊕
	MC183-10.0W10B-	10	22	72	32	10	10	⊕
	MC183-12.0W12B-	12	26	83	38	12	12	⊕
	MC183-16.0W16B-	16	32	92	44	16	16	⊕



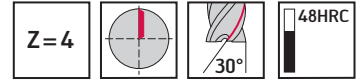
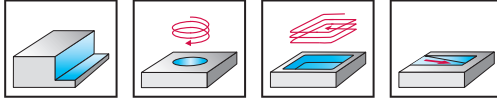
Shoulder milling $a_e \leq 0.05 \times D_c$
 Ordering example for the WB10TG grade: MC183-06.0W6B-WB10TG

Solid carbide shoulder milling cutters

MC111 Advance inch



- Type N 30



WJ30TF	P	M	K	N	S	H	O
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STANDARD		D_c h10 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30TF
Shank DIN 6535 HA								
	MC111.2.38A4D-	3/32"	0,375	2,500	1,083	0,250	4	
	MC111.3.18A4D-	1/8"	0,500	2,500	1,083	0,250	4	
	MC111.4.76A4D-	3/16"	0,625	2,500	1,083	0,250	4	
	MC111.6.35A4D-	1/4"	0,750	2,500	1,083	0,250	4	
	MC111.7.94A4D-	5/16"	0,813	3,000	1,437	0,375	4	
	MC111.9.53A4D-	3/8"	0,875	3,000	1,437	0,375	4	
	MC111.12.7A4D-	1/2"	1,000	3,500	1,717	0,500	4	
	MC111.15.9A4D-	5/8"	1,250	3,500	1,594	0,625	4	
	MC111.19.1A4D-	3/4"	1,500	4,000	1,969	0,750	4	

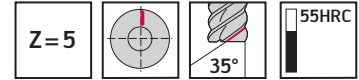
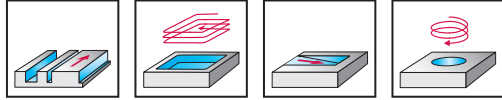
Slot milling $a_p \leq 0.3 \times D_c$

Shoulder milling $a_e \leq 0.3 \times D_c$

Ordering example for the WJ30TF grade: MC111.2.38A4D-WJ30TF

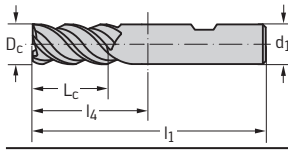
Solid carbide shoulder/slot milling cutters

 AH4135217 inch / AH4137217 inch

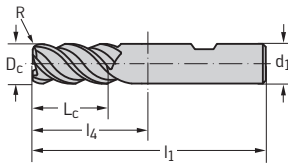
 Proto-max™_{ST}


TAZ	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

STANDARD	Designation TAZ	D _c h9 Inch/no.	L _c Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z
Shank DIN 6535 HB	AH4135217-3/8	3/8"	0,875	3,000	1,437	0,375	5
	AH4135217-1/2	1/2"	1,063	3,500	1,717	0,500	5
	AH4135217-5/8	5/8"	1,250	3,500	1,594	0,625	5
	AH4135217-3/4	3/4"	1,500	4,000	1,969	0,750	5


 Slot milling $a_p \leq 1.0 \times D_c$
 Shoulder milling $a_e \leq 0.6 \times D_c$

STANDARD	Designation TAZ	D _c h9 Inch/no.	R Inch	L _c Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z
Shank DIN 6535 HB	AH4137217-3/8-0.030	3/8"	0,030	0,875	3,000	1,437	0,375	5
	AH4137217-1/2-0.030	1/2"	0,030	1,063	3,500	1,717	0,500	5
	AH4137217-1/2-0.060	1/2"	0,060	1,063	3,500	1,717	0,500	5
	AH4137217-3/4-0.030	3/4"	0,030	1,500	4,000	1,969	0,750	5
	AH4137217-3/4-0.060	3/4"	0,060	1,500	4,000	1,969	0,750	5

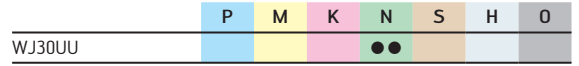
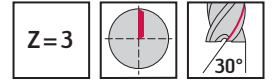
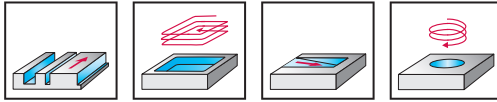

 Slot milling $a_p \leq 1.0 \times D_c$
 Shoulder milling $a_e \leq 0.6 \times D_c$

Solid carbide shoulder/slot milling cutters

MB266 Supreme inch



– Long reach

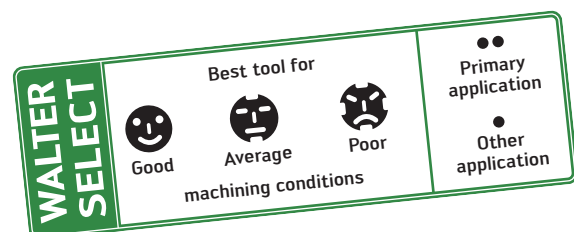


P STANDARD XL		D _c h9	R	L _c	l ₃	d ₂	l ₁	l ₄	d ₁ h5	Z	WJ30UU
Designation		Inch/ no.	Inch	Inch	Inch	Inch	Inch	Inch	Inch		
Shank DIN 6535 HA											
	MB266.6.35A3X038B-	1/4"	0,015	0,375	1,500	0,236	3,000	1,583	0,250	3	☺
	MB266.6.35A3X076B-	1/4"	0,030	0,375	1,500	0,236	3,000	1,583	0,250	3	☺
	MB266.9.53A3X038B-	3/8"	0,015	0,500	1,550	0,355	3,250	1,687	0,375	3	☺
	MB266.9.53A3X076B-	3/8"	0,030	0,500	1,550	0,355	3,250	1,687	0,375	3	☺
	MB266.12.7A3X038B-	1/2"	0,015	0,625	2,125	0,470	4,000	2,217	0,500	3	☺
	MB266.12.7A3X038C-	1/2"	0,015	1,250	3,125	0,470	5,000	3,217	0,500	3	☺
	MB266.12.7A3X076B-	1/2"	0,030	0,625	2,125	0,470	4,000	2,217	0,500	3	☺
	MB266.12.7A3X076C-	1/2"	0,030	1,250	3,125	0,470	5,000	3,217	0,500	3	☺
	MB266.12.7A3X152C-	1/2"	0,060	1,250	3,125	0,470	5,000	3,217	0,500	3	☺
	MB266.12.7A3X305C-	1/2"	0,120	1,250	3,125	0,470	5,000	3,217	0,500	3	☺
	MB266.15.9A3X038C-	5/8"	0,015	1,625	3,125	0,600	5,000	3,148	0,625	3	☺
	MB266.15.9A3X076C-	5/8"	0,030	1,625	3,125	0,600	5,000	3,148	0,625	3	☺
	MB266.15.9A3X152C-	5/8"	0,060	1,625	3,125	0,600	5,000	3,148	0,625	3	☺
	MB266.15.9A3X305C-	5/8"	0,120	1,625	3,125	0,600	5,000	3,148	0,625	3	☺
	MB266.19.1A3X038C-	3/4"	0,015	1,625	3,125	0,715	5,000	3,156	0,750	3	☺
	MB266.19.1A3X076B-	3/4"	0,030	1,000	2,125	0,715	4,000	2,156	0,750	3	☺
	MB266.19.1A3X076C-	3/4"	0,030	1,625	3,125	0,715	5,000	3,156	0,750	3	☺
	MB266.19.1A3X152B-	3/4"	0,060	1,000	2,125	0,715	4,000	2,156	0,750	3	☺
	MB266.19.1A3X305C-	3/4"	0,120	1,625	3,125	0,715	5,000	3,156	0,750	3	☺
	MB266.25.4A3X038B-	1"	0,015	1,250	2,125	0,955	5,000	2,717	1,000	3	☺
	MB266.25.4A3X076B-	1"	0,030	1,250	2,125	0,955	5,000	2,717	1,000	3	☺
	MB266.25.4A3X152B-	1"	0,060	1,250	2,125	0,955	5,000	2,717	1,000	3	☺
	MB266.25.4A3X305B-	1"	0,120	1,250	2,125	0,955	5,000	2,717	1,000	3	☺

Slot milling $a_p \leq 0.9 \times D_c$

Shoulder milling $a_e \leq 0.6 \times D_c$

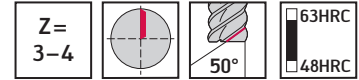
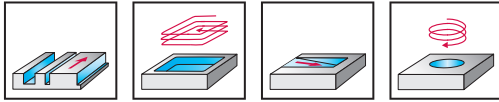
Ordering example for the WJ30UU grade: MB266.6.35A3X038B-WJ30UU



C1

Solid carbide shoulder/slot milling cutters

MC388 Advance /
 MC388 Advance



	P	M	K	N	S	H	O
WB10TG	●	●	●	●	●	●	●

DIN 6527 L		D_c h10 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG
Shank DIN 6535 HA	MC388-06.0A4B-	6	13	57	21	6	4	☺
	MC388-08.0A4B-	8	19	63	27	8	4	☺
	MC388-10.0A4B-	10	22	72	32	10	4	☺
	MC388-12.0A4B-	12	26	83	38	12	4	☺
Shank DIN 6535 HB	MC388-06.0W4B-	6	13	57	21	6	4	☺
	MC388-08.0W4B-	8	19	63	27	8	4	☺
	MC388-10.0W4B-	10	22	72	32	10	4	☺
	MC388-12.0AWB-	12	26	83	38	12	4	☺

Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_a$
 Ordering example for the WB10TG grade: MC388-06.0A4B-WB10TG

DIN 6527 L		D_c h10 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG	
Shank DIN 6535 HA	MC388-02.0A3B-	2	7	57	21	6	3	☺	
	MC388-03.0A3B-	3	8	57	21	6	3	☺	
	MC388-04.0A3B-	4	11	57	21	6	3	☺	
	MC388-05.0A3B-	5	13	57	21	6	3	☺	
	MC388-06.0A4L-	6	13	65	29	6	4	☺	
	MC388-08.0A4L-	8	19	80	44	8	4	☺	
	MC388-10.0A4L-	10	22	100	60	10	4	☺	
	MC388-12.0A4L-	12	26	100	55	12	4	☺	

Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_a$
 Ordering example for the WB10TG grade: MC388-02.0A3B-WB10TG

Continued

C1

Continued

P STANDARD L		D_c h10 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WB10TG
Shank DIN 6535 HA 	MC388.3.18A3L-	1/8"	0,500	2,500	1,083	0,250	3	☺
	MC388.4.76A3L-	3/16"	0,625	2,500	1,083	0,250	3	☺
	MC388.6.35A4L-	1/4"	0,750	2,500	1,083	0,250	4	☺
	MC388.9.53A4L-	3/8"	0,875	3,000	1,437	0,375	4	☺
	MC388.12.7A4L-	1/2"	1,000	3,500	1,717	0,500	4	☺

Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_a$
 Ordering example for the WB10TG grade: MC388.3.18A3L-WB10TG

DIN 6527 L		D_c h9 mm	R mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG
Shank DIN 6535 HA 	MC388-02.0A3B050-	2	0,5	7	57	21	6	3	☺
	MC388-03.0A3B050-	3	0,5	8	57	21	6	3	☺
	MC388-04.0A3B050-	4	0,5	11	57	21	6	3	☺
	MC388-04.0A3B100-	4	1	11	57	21	6	3	☺
	MC388-05.0A3B050-	5	0,5	13	57	21	6	3	☺
	MC388-05.0A3B100-	5	1	13	57	21	6	3	☺
	MC388-06.0A4L050-	6	0,5	13	65	29	6	4	☺
	MC388-06.0A4L100-	6	1	13	65	29	6	4	☺
	MC388-08.0A4L050-	8	0,5	19	80	44	8	4	☺
	MC388-08.0A4L100-	8	1	19	80	44	8	4	☺
	MC388-08.0A4L200-	8	2	19	80	44	8	4	☺
	MC388-10.0A4L050-	10	0,5	22	100	60	10	4	☺
	MC388-10.0A4L100-	10	1	22	100	60	10	4	☺
	MC388-10.0A4L200-	10	2	22	100	60	10	4	☺
	MC388-12.0A4L050-	12	0,5	26	100	55	12	4	☺
	MC388-12.0A4L100-	12	1	26	100	55	12	4	☺
	MC388-12.0A4L200-	12	2	26	100	55	12	4	☺
	MC388-12.0A4L300-	12	3	26	100	55	12	4	☺

Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_a$
 Ordering example for the WB10TG grade: MC388-02.0A3B050-WB10TG

P STANDARD L		D_c h10 Inch/no.	R Inch	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WB10TG
Shank DIN 6535 HA 	MC388.3.18A3L038-	1/8"	0,015	0,500	2,500	1,083	0,250	3	☺
	MC388.4.76A3L038-	3/16"	0,015	0,625	2,500	1,083	0,250	3	☺
	MC388.6.35A4L038-	1/4"	0,015	0,750	2,500	1,083	0,250	4	☺
	MC388.9.53A4L076-	3/8"	0,030	0,875	3,000	1,437	0,375	4	☺
	MC388.12.7A4L076-	1/2"	0,030	1,000	3,500	1,717	0,500	4	☺

Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_a$
 Ordering example for the WB10TG grade: MC388.3.18A3L038-WB10TG

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹☹
Poor

machining conditions

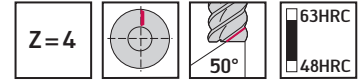
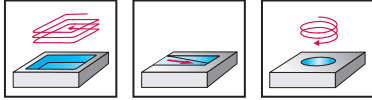
•• Primary application

• Other application

C1

Solid carbide shoulder/slot milling cutters

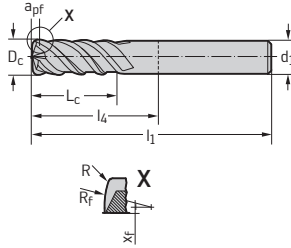
MC089 Advance



	P	M	K	N	S	H	O
WB10TG						●●	

DIN 6527 L

	Designation	D_c h9 mm	a_{pf} mm	x_f mm	R_f mm	R_{ers} mm	R mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10TG
Shank DIN 6535 HA	MC089-04.0A4B050-	4	0,12	0,6	4	0,618	0,5	11	57	21	6	4	☺
	MC089-05.0A4B050-	5	0,15	0,7	6	0,656	0,5	13	57	21	6	4	☺
	MC089-06.0A4B050-	6	0,2	0,7	9	0,693	0,5	15	57	21	6	4	☺
	MC089-08.0A4B100-	8	0,25	0,78	12	1,226	1	20	63	27	8	4	☺
	MC089-10.0A4B150-	10	0,3	0,8	15	1,773	1,5	26	72	32	10	4	☺
	MC089-12.0A4B150-	12	0,4	1	18	1,875	1,5	30	83	38	12	4	☺
	MC089-16.0A4B200-	16	0,5	1,5	24	2,465	2	36	92	44	16	4	☺



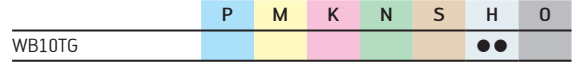
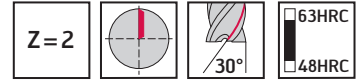
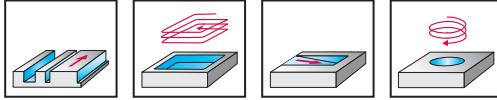
Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WB10TG grade: MC089-04.0A4B050-WB10TG

Solid carbide shoulder/slot milling cutters

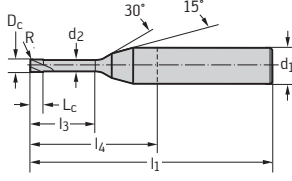
MC281 Advance



– Long reach



P STANDARD MINI		D _c h7 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA											
	MC281-01.0A2M020B-	1	0,2	1	2	1,0	50	22	4	2	☺
	MC281-01.0A2M020F-	1	0,2	1	6	1,0	50	22	4	2	☺
	MC281-01.0A2M020H-	1	0,2	1	10	1,0	50	22	4	2	☺
	MC281-1.25A2M020D-	1,25	0,2	1,25	5	1,2	50	22	4	2	☺
	MC281-01.5A2M020C-	1,5	0,2	1,5	4	1,5	50	22	4	2	☺
	MC281-01.5A2M020E-	1,5	0,2	1,5	8	1,5	50	22	4	2	☺
	MC281-01.5A2M020G-	1,5	0,2	1,5	12	1,5	50	22	4	2	☺
	MC281-02.0A2M020B-	2	0,2	2	4	2,0	50	22	4	2	☺
	MC281-02.0A2M020C-	2	0,2	2	6	2,0	50	22	4	2	☺
	MC281-02.0A2M020F-	2	0,2	2	12	2,0	50	22	4	2	☺
	MC281-02.0A2M020G-	2	0,2	2	16	2,0	50	22	4	2	☺
	MC281-03.0A2M020C-	3	0,2	3	8	3,0	50	22	4	2	☺
	MC281-03.0A2M020E-	3	0,2	3	16	3,0	50	22	4	2	☺
	MC281-03.0A2M020F-	3	0,2	3	20	3,0	60	32	4	2	☺
	MC281-04.0A2M050C-	4	0,5	4	12	4,0	65	29	6	2	☺
	MC281-04.0A2M050E-	4	0,5	4	20	4,0	65	29	6	2	☺



Slot milling $a_p \leq 0.1 \times D_c$
 Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WB10TG grade: MC281-01.0A2M020B-WB10TG

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹
Poor

machining conditions

•• Primary application

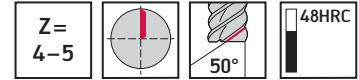
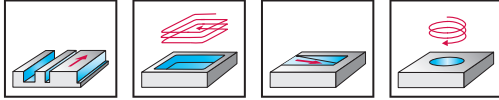
• Other application

C1

Solid carbide shoulder/slot milling cutters MC326 Supreme inch



- Long reach
- Type N 50



	P	M	K	N	S	H	O
WK40TF	●	●	●	●	●		

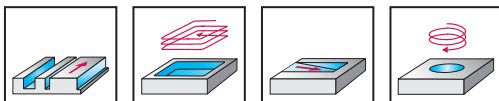
P STANDARD L		D_c h9 Inch/ no.	R Inch	L_c Inch	l_3 Inch	d_2 Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WK40TF	
Shank DIN 6535 HA		MC326.6.35A4L076C-	1/4"	0,030	0,750	1,375	0,237	3,000	1,583	0,250	4	●
		MC326.7.94A4L076C-	5/16"	0,030	0,813	1,500	0,297	3,500	1,937	0,375	4	●
		MC326.9.53A4L076C-	3/8"	0,030	0,875	1,500	0,356	3,500	1,937	0,375	4	●
		MC326.9.53A4L152C-	3/8"	0,060	0,875	1,500	0,356	3,500	1,937	0,375	4	●
		MC326.11.1A4L076C-	7/16"	0,030	1,000	2,875	0,416	4,750	2,967	0,500	4	●
		MC326.12.7A4L076C-	1/2"	0,030	1,000	2,875	0,475	4,750	2,967	0,500	4	●
		MC326.12.7A4L152C-	1/2"	0,060	1,000	2,875	0,475	4,750	2,967	0,500	4	●
		MC326.15.9A4L076C-	5/8"	0,030	1,250	3,000	0,594	5,000	3,217	0,625	4	●
		MC326.15.9A4L152C-	5/8"	0,060	1,250	3,000	0,594	5,000	3,217	0,625	4	●
		MC326.19.1A4L152C-	3/4"	0,060	1,500	3,000	0,713	5,250	3,219	0,750	4	●
		MC326.25.4A5L152C-	1"	0,060	1,625	3,250	0,960	5,500	3,217	1,000	5	●
		MC326.25.4A5L318C-	1"	0,125	1,625	3,250	0,960	5,500	3,217	1,000	5	●

Slot milling $a_p \leq 0.9 \times D_c$
Shoulder milling $a_e \leq 0.3 \times D_c$
Ordering example for the WK40TF grade: MC326.6.35A4L076C-WK40TF

Solid carbide shoulder/slot milling cutters MC216 Advance inch



- Type 30



	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

STANDARD		D_c h10 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30TF	
Shank DIN 6535 HA		MC216.2.38A2D-	3/32"	0,375	2,500	1,083	0,250	2	●
		MC216.3.18A2D-	1/8"	0,500	2,500	1,083	0,250	2	●
		MC216.4.76A2D-	3/16"	0,625	2,500	1,083	0,250	2	●
		MC216.6.35A2D-	1/4"	0,750	2,500	1,083	0,250	2	●
		MC216.7.94A2D-	5/16"	0,813	3,000	1,437	0,375	2	●
		MC216.9.53A2D-	3/8"	0,875	3,000	1,437	0,375	2	●
		MC216.12.7A2D-	1/2"	1,000	3,500	1,717	0,500	2	●
		MC216.15.9A2D-	5/8"	1,250	3,500	1,594	0,625	2	●
		MC216.19.1A2D-	3/4"	1,500	4,000	1,969	0,750	2	●

Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.3 \times D_c$
Ordering example for the WJ30TF grade: MC216.2.38A2D-WJ30TF

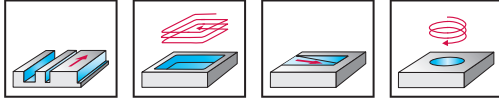
C1

Solid carbide shoulder/slot milling cutters

MC213 Advance inch



- Long reach
- Type HSC 30



Z = 4

WJ30TF	P	M	K	N	S	H	O
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	Designation	D _c h10 Inch/ no.	R Inch	L _c Inch	l ₃ Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z	WJ30TF	
	Shank DIN 6535 HA	MC213.6.35A4L038C-	1/4"	0,015	0,750	1,375	0,237	3,000	1,583	0,250	4	
	MC213.6.35A4L076C-	1/4"	0,030	0,750	1,375	0,237	3,000	1,583	0,250	4		
	MC213.9.53A4L038C-	3/8"	0,015	0,875	1,500	0,356	3,500	1,937	0,375	4		
	MC213.9.53A4L076C-	3/8"	0,030	0,875	1,500	0,356	3,500	1,937	0,375	4		
	MC213.12.7A4L076C-	1/2"	0,030	1,000	2,875	0,475	4,750	2,967	0,500	4		
	MC213.12.7A4L152C-	1/2"	0,060	1,000	2,875	0,475	4,750	2,967	0,500	4		
	MC213.12.7A4L305C-	1/2"	0,120	1,000	2,875	0,475	4,750	2,967	0,500	4		
	MC213.15.9A4L076C-	5/8"	0,030	1,250	3,000	0,594	5,000	3,094	0,625	4		
	MC213.15.9A4L152C-	5/8"	0,060	1,250	3,000	0,594	5,000	3,094	0,625	4		
	MC213.19.1A4L152C-	3/4"	0,060	1,500	3,000	0,713	5,250	3,219	0,750	4		
	MC213.19.1A4L305C-	3/4"	0,120	1,500	3,000	0,713	5,250	3,219	0,750	4		

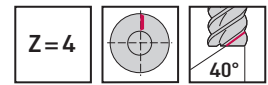
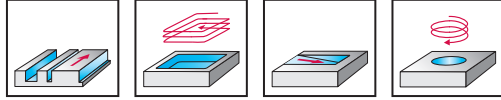
Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30TF grade: MC213.6.35A4L038C-WJ30TF

Solid carbide shoulder/slot milling cutters

MC319 Advance



– Long reach



	P	M	K	N	S	H	O
WK40TF	●	●	●	●	●		

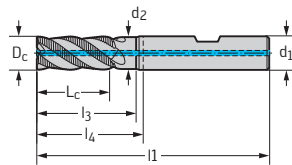
DIN 6527 L

	Designation	D _c h12 mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WK40TF
Shank DIN 6535 HB	MC319-05.0W4BC-	5	13	16	4,8	57	21	6	4	⊕
	MC319-06.0W4BC-	6	13	13	5,6	57	21	6	4	⊕
	MC319-07.0W4BC-	7	16	26	6,5	63	27	8	4	⊕
	MC319-08.0W4BC-	8	19	25	7,5	63	27	8	4	⊕
	MC319-09.0W4BC-	9	19	31	8,8	72	32	10	4	⊕
	MC319-10.0W4BC-	10	22	30	9,5	72	32	10	4	⊕
	MC319-11.0W4BC-	11	26	35	10,5	83	38	12	4	⊕
	MC319-12.0W4BC-	12	26	36	11,4	83	38	12	4	⊕
	MC319-13.0W4BC-	13	26	35	12,4	83	38	14	4	⊕
	MC319-14.0W4BC-	14	26	36	13,3	83	38	14	4	⊕
	MC319-15.0W4BC-	15	32	41	14,3	92	44	16	4	⊕
	MC319-16.0W4BC-	16	32	42	15,2	92	44	16	4	⊕
	MC319-18.0W4BC-	18	32	42	17,1	92	44	18	4	⊕
	MC319-20.0W4BC-	20	38	52	19	104	54	20	4	⊕
	MC319-25.0W4BC-	25	45	63	23,8	121	65	25	4	⊕

Slot milling $a_p \leq 2.0 \times D_c$

Shoulder milling $a_e \leq 0.6 \times D_c$

Ordering example for the WK40TF grade: MC319-05.0W4BC-WK40TF

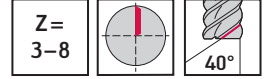
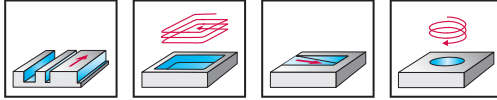


Solid carbide shoulder/slot milling cutters

MC320 Advance /
 MC320 Advance



– Long reach



P	M	K	N	S	H	O
●	●	●	●	●		

WK40TF

DIN 6527 L		D _c h12 mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WK40TF
Shank DIN 6535 HB										
	MC320-04.0W3BC-	4	8	15	3,8	57	21	6	3	
	MC320-04.0W4BC-	4	11	15	3,8	57	21	6	4	
	MC320-05.0W3BC-	5	10	16	4,8	57	21	6	3	
	MC320-05.0W4BC-	5	13	16	4,8	57	21	6	4	
	MC320-06.0W3BC-	6	10	19	5,5	57	21	6	3	
	MC320-06.0W4BC-	6	13	19	5,5	57	21	6	4	
	MC320-06.0W5BC-	6	13	19	5,5	57	21	6	5	
	MC320-08.0W4BC-	8	19	25	7,5	63	27	8	4	
	MC320-08.0W5BC-	8	19	25	7,5	63	27	8	5	
	MC320-10.0W4BC-	10	22	30	9,5	72	32	10	4	
	MC320-10.0W5BC-	10	22	30	9,5	72	32	10	5	
	MC320-12.0W4BC-	12	26	36	11,4	83	38	12	4	
	MC320-12.0W5BC-	12	26	36	11,4	83	38	12	5	
	MC320-14.0W4BC-	14	26	36	13,3	83	38	14	4	
	MC320-14.0W5BC-	14	26	36	13,3	83	38	14	5	
	MC320-16.0W4BC-	16	32	42	15,2	92	44	16	4	
	MC320-16.0W6BC-	16	32	42	15,2	92	44	16	6	
	MC320-18.0W4BC-	18	32	42	17,1	92	44	18	4	
	MC320-18.0W6BC-	18	32	42	17,1	92	44	18	6	
	MC320-20.0W4BC-	20	38	52	19	104	54	20	4	
MC320-20.0W6BC-	20	38	52	19	104	54	20	6		
MC320-20.0W8BC-	20	38	52	19	104	54	20	8		
MC320-25.0W4BC-	25	45	63	23,8	121	65	25	4		
MC320-25.0W6BC-	25	45	63	23,8	121	65	25	6		
MC320-25.0W8BC-	25	45	63	23,8	121	65	25	8		

Slot milling $a_p \leq 1.5 \times D_c$
 Shoulder milling $a_e \leq 0.6 \times D_c$
 Ordering example for the WK40TF grade: MC320-04.0W3BC-WK40TF

DIN 6527 K		D _c h12 mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WK40TF
Shank DIN 6535 HB								
	MC320-06.0W3A-	6	7	54	18	6	3	
	MC320-06.0W4A-	6	7	54	18	6	4	
	MC320-08.0W3A-	8	9	58	18	8	3	
	MC320-08.0W4A-	8	9	58	18	8	4	
	MC320-10.0W3A-	10	11	66	26	10	3	
	MC320-10.0W4A-	10	11	66	26	10	4	
	MC320-12.0W3A-	12	12	73	28	12	3	
	MC320-12.0W4A-	12	12	73	28	12	4	
	MC320-16.0W3A-	16	16	82	34	16	3	
	MC320-16.0W4A-	16	16	82	34	16	4	
	MC320-20.0W3A-	20	20	92	42	20	3	
	MC320-20.0W4A-	20	20	92	42	20	4	
	MC320-25.0W3A-	25	26	121	65	25	3	
	MC320-25.0W4A-	25	26	121	65	25	4	

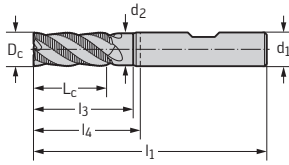
Slot milling $a_p \leq 1.0 \times D_c$
 Shoulder milling $a_e \leq 0.6 \times D_c$
 Ordering example for the WK40TF grade: MC320-06.0W3A-WK40TF

Continued

C1

Continued

STANDARD		D_c h12 Inch/ no.	L_c Inch	l_3 Inch	d_2 Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WK40TF
Shank DIN 6535 HB	MC320.6.35W4DC-	1/4"	0,750	0,875	0,230	3,000	1,437	0,375	4	☹
	MC320.9.52W4DC-	3/8"	0,875	1,000	0,355	3,000	1,437	0,375	4	☹
	MC320.12.7W4DC-	1/2"	1,000	1,374	0,475	3,500	1,717	0,500	4	☹
	MC320.15.9W4DC-	5/8"	1,250	1,500	0,594	3,500	1,594	0,625	4	☹
	MC320.19.1W4DC-	3/4"	1,500	2,000	0,713	4,000	1,969	0,750	4	☹





Slot milling $a_p \leq 1.5 \times D_c$
Shoulder milling $a_e \leq 0.6 \times D_c$
Ordering example for the WK40TF grade: MC320.9.52W4DC-WK40TF


C1

WALTER SELECT

Best tool for


Good


Average


Poor

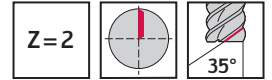
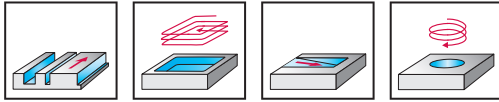
machining conditions

•• Primary application

• Other application

Solid carbide shoulder/slot milling cutters

MC232 Perform /
 MC232 Perform



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A2B-	2	6	57	29	4	2	⊕
	MC232-02.5A2B-	2,5	7	57	29	4	2	⊕
	MC232-03.0A2B-	3	7	57	29	4	2	⊕
	MC232-03.5A2B-	3,5	7	57	29	4	2	⊕
	MC232-04.0A2B-	4	8	57	29	4	2	⊕
Shank DIN 6535 HB	MC232-05.0W2B-	5	10	57	21	6	2	⊕
	MC232-06.0W2B-	6	10	57	21	6	2	⊕
	MC232-08.0W2B-	8	16	63	27	8	2	⊕
	MC232-10.0W2B-	10	19	72	32	10	2	⊕
	MC232-12.0W2B-	12	22	83	38	12	2	⊕
	MC232-16.0W2B-	16	26	92	44	16	2	⊕
	MC232-20.0W2B-	20	32	104	54	20	2	⊕

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232-02.0A2B-WJ30ED

STANDARD		D_c h12 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30ED
Shank DIN 6535 HA	MC232.3.18A2D-	1/8"	0,500	2,500	1,083	0,250	2	⊕
	MC232.6.35A2D-	1/4"	0,750	2,500	1,083	0,250	2	⊕
Shank DIN 6535 HB	MC232.9.53W2D-	3/8"	0,875	3,000	1,437	0,375	2	⊕
	MC232.12.7W2D-	1/2"	1,000	3,500	1,717	0,500	2	⊕
	MC232.15.9W2D-	5/8"	1,250	3,500	1,594	0,625	2	⊕
	MC232.19.1W2D-	3/4"	1,500	4,000	1,969	0,750	2	⊕

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232.3.18A2D-WJ30ED

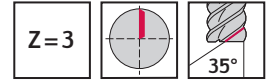
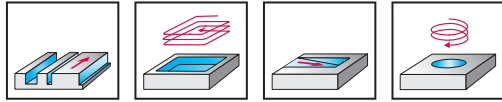
C1

Solid carbide shoulder/slot milling cutters

MC232 Perform mm



- Long reach



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D _c h12 mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A3BC-	2	6	11	1,9	57	29	4	3	☉
	MC232-02.5A3BC-	2,5	7	12	2,4	57	29	4	3	☉
	MC232-03.0A3BC-	3	7	12	2,9	57	29	4	3	☉
	MC232-03.5A3BC-	3,5	7	15	3,3	57	29	4	3	☉
	MC232-04.0A3BC-	4	8	15	3,8	57	29	4	3	☉
Shank DIN 6535 HB	MC232-05.0W3BC-	5	10	18	4,8	57	21	6	3	☉
	MC232-06.0W3BC-	6	10	19	5,7	57	21	6	3	☉
	MC232-08.0W3BC-	8	16	25	7,6	63	27	8	3	☉
	MC232-10.0W3BC-	10	19	30	9,5	72	32	10	3	☉
	MC232-12.0W3BC-	12	22	36	11,4	83	38	12	3	☉
	MC232-16.0W3BC-	16	26	42	15,2	92	44	16	3	☉
	MC232-20.0W3BC-	20	32	52	19	104	54	20	3	☉

Slot milling $a_p \leq 0,5 \times D_c$
Shoulder milling $a_e \leq 0,5 \times D_c$
Ordering example for the WJ30ED grade: MC232-02.0A3BC-WJ30ED

C1

WALTER SELECT

Best tool for

Good

Average

Poor

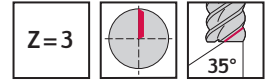
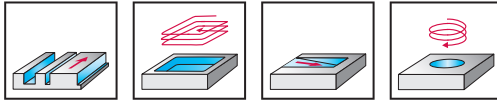
machining conditions

●● Primary application

● Other application

Solid carbide shoulder/slot milling cutters

MC232 Perform /
 MC232 Perform



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30ED
Shank DIN 6535 HA 	MC232-02.0A3B-	2	6	57	29	4	3	⊗
	MC232-02.5A3B-	2,5	7	57	29	4	3	⊗
	MC232-03.0A3B-	3	7	57	29	4	3	⊗
	MC232-03.5A3B-	3,5	7	57	29	4	3	⊗
	MC232-04.0A3B-	4	8	57	29	4	3	⊗
Shank DIN 6535 HB 	MC232-05.0W3B-	5	10	57	21	6	3	⊗
	MC232-06.0W3B-	6	10	57	21	6	3	⊗
	MC232-08.0W3B-	8	16	63	27	8	3	⊗
	MC232-10.0W3B-	10	19	72	32	10	3	⊗
	MC232-12.0W3B-	12	22	83	38	12	3	⊗
	MC232-16.0W3B-	16	26	92	44	16	3	⊗
MC232-20.0W3B-	20	32	104	54	20	3	⊗	

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232-02.0A3B-WJ30ED

STANDARD		D_c h12 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30ED
Shank DIN 6535 HA 	MC232.3.18A3D-	1/8"	0,500	2,500	1,083	0,250	3	⊗
	MC232.6.35A3D-	1/4"	0,750	2,500	1,083	0,250	3	⊗
Shank DIN 6535 HB 	MC232.9.53W3D-	3/8"	0,875	3,000	1,437	0,375	3	⊗
	MC232.12.7W3D-	1/2"	1,000	3,500	1,717	0,500	3	⊗
	MC232.15.9W3D-	5/8"	1,250	3,500	1,594	0,625	3	⊗
	MC232.19.1W3D-	3/4"	1,500	4,000	1,969	0,750	3	⊗

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232.3.18A3D-WJ30ED

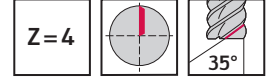
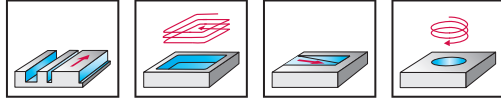
C1

Solid carbide shoulder/slot milling cutters

MC232 Perform /
MC232 Perform



- Long reach



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D _c h12 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A4B020C-	2	0,2	7	11	1,9	57	29	4	4	●
	MC232-03.0A4B030C-	3	0,3	8	12	2,9	57	29	4	4	●
	MC232-04.0A4B050C-	4	0,5	11	15	3,8	57	29	4	4	●
Shank DIN 6535 HB	MC232-05.0W4B050C-	5	0,5	13	18	4,8	57	21	6	4	●
	MC232-06.0W4B050C-	6	0,5	13	19	5,7	57	21	6	4	●
	MC232-06.0W4B080C-	6	0,8	13	19	5,7	57	21	6	4	●
	MC232-06.0W4B100C-	6	1	13	19	5,7	57	21	6	4	●
	MC232-08.0W4B050C-	8	0,5	19	25	7,6	63	27	8	4	●
	MC232-08.0W4B080C-	8	0,8	19	25	7,6	63	27	8	4	●
	MC232-08.0W4B100C-	8	1	19	25	7,6	63	27	8	4	●
	MC232-08.0W4B150C-	8	1,5	19	25	7,6	63	27	8	4	●
	MC232-08.0W4B200C-	8	2	19	25	7,6	63	27	8	4	●
	MC232-10.0W4B050C-	10	0,5	22	30	9,5	72	27	10	4	●
	MC232-10.0W4B080C-	10	0,8	22	30	9,5	72	32	10	4	●
	MC232-10.0W4B100C-	10	1	22	30	9,5	72	32	10	4	●
	MC232-10.0W4B150C-	10	1,5	22	30	9,5	72	32	10	4	●
	MC232-10.0W4B200C-	10	2	22	30	9,5	72	32	10	4	●
	MC232-12.0W4B050C-	12	0,5	26	36	11,4	83	38	12	4	●
	MC232-12.0W4B080C-	12	0,8	26	36	11,4	83	38	12	4	●
	MC232-12.0W4B100C-	12	1	26	36	11,4	83	38	12	4	●
	MC232-12.0W4B150C-	12	1,5	26	36	11,4	83	38	12	4	●
	MC232-12.0W4B200C-	12	2	26	36	11,4	83	38	12	4	●
	MC232-12.0W4B250C-	12	2,5	26	36	11,4	83	38	12	4	●
	MC232-12.0W4B300C-	12	3	26	36	11,4	83	38	12	4	●
	MC232-16.0W4B050C-	16	0,5	32	42	15,2	92	44	16	4	●
	MC232-16.0W4B100C-	16	1	32	42	15,2	92	44	16	4	●
	MC232-16.0W4B200C-	16	2	32	42	15,2	92	44	16	4	●
	MC232-16.0W4B250C-	16	2,5	32	42	15,2	92	44	16	4	●
	MC232-16.0W4B300C-	16	3	32	42	15,2	92	44	16	4	●
	MC232-16.0W4B400C-	16	4	32	42	15,2	92	44	16	4	●
MC232-20.0W4B050C-	20	0,5	38	52	19	104	54	20	4	●	
MC232-20.0W4B100C-	20	1	38	52	19	104	54	20	4	●	
MC232-20.0W4B200C-	20	2	38	52	19	104	54	20	4	●	
MC232-20.0W4B250C-	20	2,5	38	52	19	104	54	20	4	●	
MC232-20.0W4B300C-	20	3	38	52	19	104	54	20	4	●	
MC232-20.0W4B400C-	20	4	38	52	19	104	54	20	4	●	

Slot milling $a_p \leq 0,5 \times D_c$

Shoulder milling $a_e \leq 0,5 \times D_c$

Ordering example for the WJ30ED grade: MC232-02.0A4B020C-WJ30ED

Continued

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

Continued

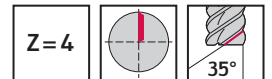
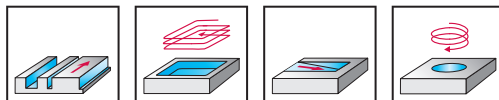
STANDARD		D _c h12 Inch/ no.	R Inch	L _c Inch	l ₃ Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	d ₁ h6 Inch	Z	WJ30ED
Shank DIN 6535 HA	MC232.3.18A4D038C-	1/8"	0,015	0,500	0,625	0,119	2,500	1,083	0,250	4	🌟
	MC232.6.35A4D038C-	1/4"	0,015	0,750	1,000	0,237	2,500	1,083	0,250	4	🌟
	MC232.6.35A4D076C-	1/4"	0,030	0,750	1,000	0,237	2,500	1,083	0,250	4	🌟
Shank DIN 6535 HB	MC232.9.53W4D038C-	3/8"	0,015	0,875	1,125	0,356	3,000	1,437	0,375	4	🌟
	MC232.9.53W4D076C-	3/8"	0,030	0,875	1,125	0,356	3,000	1,437	0,375	4	🌟
	MC232.12.7W4D038C-	1/2"	0,015	1,000	1,500	0,475	3,500	1,717	0,500	4	🌟
	MC232.12.7W4D076C-	1/2"	0,030	1,000	1,500	0,475	3,500	1,717	0,500	4	🌟
	MC232.12.7W4D152C-	1/2"	0,060	1,000	1,500	0,475	3,500	1,717	0,500	4	🌟
	MC232.12.7W4D318C-	1/2"	0,125	1,000	1,500	0,475	3,500	1,717	0,500	4	🌟
	MC232.15.9W4D318C-	5/8"	0,125	1,250	1,563	0,594	3,500	1,594	0,625	4	🌟
	MC232.19.1W4D076C-	3/4"	0,030	1,500	1,875	0,713	4,000	1,969	0,750	4	🌟
	MC232.19.1W4D318C-	3/4"	0,125	1,500	1,875	0,713	4,000	1,969	0,750	4	🌟

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232.3.18A4D038C-WJ30ED

Solid carbide shoulder/slot milling cutters MC232 Perform



- Long reach



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

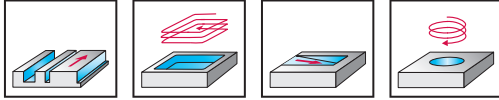
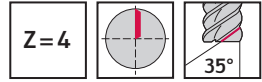
DIN 6527 L		D _c h12 mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A4BC-	2	7	11	1,9	57	29	4	4	🌟
	MC232-02.5A4BC-	2,5	8	12	2,4	57	29	4	4	🌟
	MC232-03.0A4BC-	3	8	12	2,9	57	29	4	4	🌟
	MC232-03.5A4BC-	3,5	10	15	3,3	57	29	4	4	🌟
	MC232-04.0A4BC-	4	11	15	3,8	57	29	4	4	🌟
Shank DIN 6535 HB	MC232-05.0W4BC-	5	13	18	4,8	57	21	6	4	🌟
	MC232-06.0W4BC-	6	13	19	5,7	57	21	6	4	🌟
	MC232-08.0W4BC-	8	19	25	7,6	63	27	8	4	🌟
	MC232-10.0W4BC-	10	22	30	9,5	72	32	10	4	🌟
	MC232-12.0W4BC-	12	26	36	11,4	83	38	12	4	🌟
	MC232-16.0W4BC-	16	32	42	15,2	92	44	16	4	🌟
	MC232-20.0W4BC-	20	38	52	19	104	54	20	4	🌟

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30ED grade: MC232-02.0A4BC-WJ30ED

🌟 / ★ New addition to the product range

Solid carbide shoulder/slot milling cutters

 MC232 Perform /

 MC232 Perform


	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30ED
Shank DIN 6535 HA 	MC232-02.0A4B-	2	7	57	29	4	4	●
	MC232-02.5A4B-	2,5	8	57	29	4	4	●
	MC232-03.0A4B-	3	8	57	29	4	4	●
	MC232-03.5A4B-	3,5	10	57	29	4	4	●
	MC232-04.0A4B-	4	11	57	29	4	4	●
Shank DIN 6535 HB 	MC232-05.0W4B-	5	13	57	21	6	4	●
	MC232-06.0W4B-	6	13	57	21	6	4	●
	MC232-08.0W4B-	8	19	63	27	8	4	●
	MC232-10.0W4B-	10	22	72	32	10	4	●
	MC232-12.0W4B-	12	26	83	38	12	4	●
	MC232-16.0W4B-	16	32	92	44	16	4	●
	MC232-20.0W4B-	20	38	104	54	20	4	●

 Slot milling $a_p \leq 0.5 \times D_c$

 Shoulder milling $a_e \leq 0.5 \times D_c$

Ordering example for the WJ30ED grade: MC232-02.0A4B-WJ30ED

STANDARD		D_c h12 Inch/no.	L_c Inch	l_1 Inch	l_4 Inch	d_1 h6 Inch	Z	WJ30ED
Shank DIN 6535 HA 	MC232.3.18A4D-	1/8"	0,500	2,500	1,083	0,250	4	●
	MC232.6.35A4D-	1/4"	0,750	2,500	1,083	0,250	4	●
Shank DIN 6535 HB 	MC232.9.53W4D-	3/8"	0,875	3,000	1,437	0,375	4	●
	MC232.12.7W4D-	1/2"	1,000	3,500	1,717	0,500	4	●
	MC232.15.9W4D-	5/8"	1,250	3,500	1,594	0,625	4	●
	MC232.19.1W4D-	3/4"	1,500	4,000	1,969	0,750	4	●

 Shoulder milling $a_e \leq 0.5 \times D_c$

 Slot milling $a_p \leq 0.5 \times D_c$

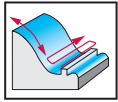
Ordering example for the WJ30ED grade: MC232.3.18A4D-WJ30ED



Solid carbide ball-nose end mills

MC482 Advance /

MC482 Advance



Z= 2-4

63HRC
48HRC

P	M	K	N	S	H	O
WB10TG						

DIN 6527 K		D _c h7 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA	MC482-03.0A2B-	3	1,5	2,4	57	21	6	2	☺
	MC482-04.0A2B-	4	2	3,2	57	21	6	2	☺
	MC482-05.0A2B-	5	2,5	4	57	21	6	2	☺
	MC482-06.0A2B-	6	3	4,8	57	21	6	2	☺
	MC482-08.0A2B-	8	4	6,4	63	27	8	2	☺

Ordering example for the WB10TG grade: MC482-03.0A2B-WB10TG

DIN 6527 L		D _c h7 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA	MC482-06.0A2L-	6	3	4,8	80	44	6	2	☺
	MC482-08.0A2L-	8	4	6,4	100	64	8	2	☺
	MC482-10.0A2L-	10	5	8	100	60	10	2	☺
	MC482-12.0A2L-	12	6	9,6	100	55	12	2	☺

Ordering example for the WB10TG grade: MC482-06.0A2L-WB10TG

DIN 6527 L		D _c h7 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA	MC482-06.0A4B-	6	3	4,8	57	21	6	4	☺
	MC482-08.0A4B-	8	4	6,4	63	27	8	4	☺
	MC482-10.0A4B-	10	5	8	72	32	10	4	☺
	MC482-12.0A4B-	12	6	9,6	83	38	12	4	☺
	MC482-16.0A4B-	16	8	12,8	92	44	16	4	☺

Ordering example for the WB10TG grade: MC482-06.0A4B-WB10TG

Continued

C1

Continued

P STANDARD XL		D _c h7 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA 	MC482-06.0A4BC-	6	3	4,8	18	5,9	63	27	8	4	☺
	MC482-08.0A4BC-	8	4	6,4	24	7,9	72	32	10	4	☺
	MC482-10.0A4BC-	10	5	8	30	9,9	83	38	12	4	☺
	MC482-12.0A4BC-	12	6	9,6	36	11,8	83	38	12	4	☺
	MC482-16.0A4BC-	16	8	12,8	42	15,8	92	44	16	4	☺

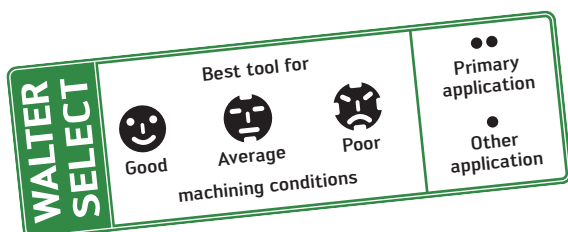
Ordering example for the WB10TG grade: MC482-06.0A4BC-WB10TG

P STANDARD XL		D _c h7 mm	R mm	L _c mm	l ₃ mm	α	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA 	MC482-01.0A2PV-	1	0,5	0,8	17	2,5°	57	21	6	2	☺
	MC482-01.0A2PW-	1	0,5	0,8	17	4°	57	21	6	2	☺
	MC482-01.5A2PV-	1,5	0,8	1,2	17	2,5°	57	21	6	2	☺
	MC482-01.5A2PW-	1,5	0,8	1,2	17	4°	57	21	6	2	☺
	MC482-02.0A2PV-	2	1	1,6	18	2,5°	57	21	6	2	☺
	MC482-02.0A2PW-	2	1	1,6	18	4°	57	21	6	2	☺
	MC482-03.0A2PV-	3	1,5	2,4	19	2,5°	57	21	6	2	☺
	MC482-03.0A2PW-	3	1,5	2,4	19	4°	57	21	6	2	☺
	MC482-03.0A2LV-	3	1,5	2,4	38	2,5°	80	44	6	2	☺
	MC482-04.0A2PV-	4	2	3,2	20	2,5°	57	21	6	2	☺
	MC482-04.0A2PW-	4	2	3,2	20	4°	57	21	6	2	☺

Ordering example for the WB10TG grade: MC482-01.0A2PV-WB10TG

Tool	D _c h7 Inch/ no.	R Inch	L _c Inch	l ₃ Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	d ₁ h5 Inch	Z	WB10TG	
	MC482.3.18A2PC-	1/8"	0,063	0,125	0,375	0,121	2,500	1,083	0,250	2	☺
	MC482.4.76A2PC-	3/16"	0,094	0,188	0,500	0,184	2,500	1,083	0,250	2	☺
	MC482.6.35A2PC-	1/4"	0,125	0,250	0,875	0,246	2,500	1,083	0,250	2	☺
	MC482.9.53A2PB-	3/8"	0,188	0,375	1,000	0,369	3,000	1,437	0,375	2	☺
	MC482.12.7A2PB-	1/2"	0,250	0,500	1,375	0,492	3,500	1,717	0,500	2	☺

Ordering example for the WB10TG grade: MC482.3.18A2PC-WB10TG

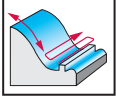


Solid carbide ball-nose end mills

MC480 Advance



– Long reach



Z = 2

30°

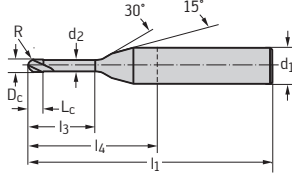
63HRC
48HRC

WB10TG

P	M	K	N	S	H	O
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P STANDARD MINI		D _c h7 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h5 mm	Z	WB10TG
Shank DIN 6535 HA											
MC480-00.4A2MC-		0,4	0,2	0,3	1	0,4	38	12	4	2	☺
MC480-00.5A2MC-		0,5	0,25	0,4	1,5	0,5	38	12	4	2	☺
MC480-00.6A2MC-		0,6	0,3	0,5	2	0,6	38	12	4	2	☺
MC480-00.8A2MC-		0,8	0,4	0,6	2	0,8	38	12	4	2	☺
MC480-01.0A2MB-		1	0,5	0,8	2	1,0	50	22	4	2	☺
MC480-01.0A2ME-		1	0,5	0,8	5	1,0	50	22	4	2	☺
MC480-01.0A2MG-		1	0,5	0,8	8	1,0	50	22	4	2	☺
MC480-01.5A2MC-		1,5	0,75	1,2	4	1,5	50	22	4	2	☺
MC480-01.5A2ME-		1,5	0,75	1,2	8	1,5	50	22	4	2	☺
MC480-01.5A2MG-		1,5	0,75	1,2	12	1,5	50	22	4	2	☺
MC480-02.0A2MB-		2	1	1,6	3	2,0	50	22	4	2	☺
MC480-02.0A2MC-		2	1	1,6	6	2,0	50	22	4	2	☺
MC480-02.0A2ME-		2	1	1,6	10	2,0	50	22	4	2	☺
MC480-02.0A2MG-		2	1	1,6	16	2,0	50	22	4	2	☺
MC480-03.0A2MC-		3	1,5	2,4	8	3,0	50	22	4	2	☺
MC480-03.0A2ME-		3	1,5	2,4	16	3,0	50	22	4	2	☺
MC480-03.0A2MG-		3	1,5	2,4	25	3,0	60	32	4	2	☺
MC480-04.0A2MC-		4	2	3,2	10	4,0	65	29	6	2	☺
MC480-04.0A2ME-		4	2	3,2	20	4,0	65	29	6	2	☺
MC480-05.0A2MD-		5	2,5	4	20	5,0	65	29	6	2	☺

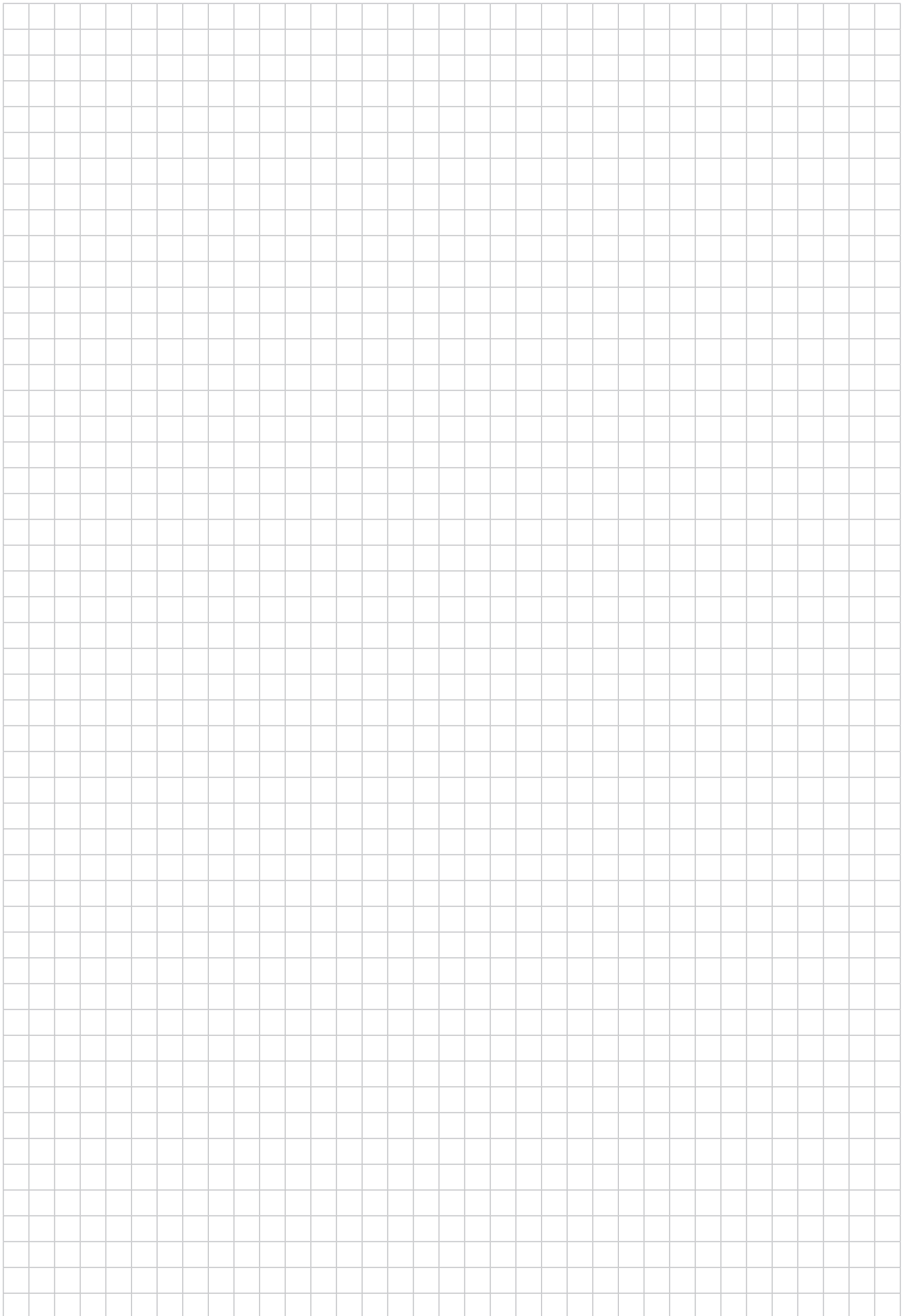
Ordering example for the WB10TG grade: MC480-00.4A2MC-WB10TG



Solid carbide milling tools with ConeFit interface product range overview

Shoulder/slot milling cutters

Machining		
Helix angle	50°	40°
Designation	MC326	MC320
Diameter range [mm] / [inch]	10-25 / 3/8-1	10-25
Z	4-5	4-8
Corner radius [mm] / [inch]	0-4 / 0.015-0.125	0
Page	480	482
		



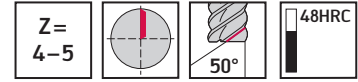
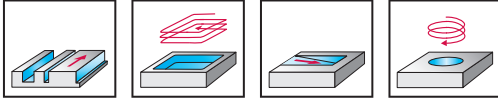
C1

Solid carbide shoulder/slot milling cutters

MC326 / MC326

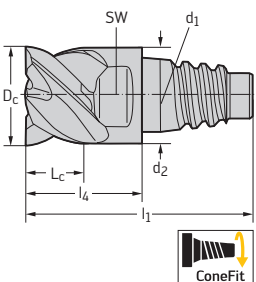


- Type N 50



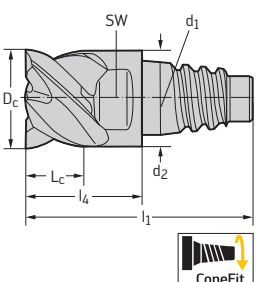
	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

PWZ		D _c h10 mm	L _c mm	d ₂ mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WJ30TF
ConeFit	MC326-10.0E4P-	10	5,5	9,7	23,6	12,4	8	E10	4	⊕
	MC326-12.0E4P-	12	6,5	11,7	28,3	14,5	10	E12	4	⊕
	MC326-16.0E4P-	16	8,5	15,5	35,7	18,7	12	E16	4	⊕
	MC326-20.0E4P-	20	11	19,3	40,8	21,3	16	E20	4	⊕
	MC326-25.0E5P-	25	13,5	24,2	49,6	25,6	20	E25	5	⊕



Slot milling $a_p \leq 0.4 \times D_c$
Shoulder milling $a_e \leq 0.5 \times D_c$
Ordering example for the WJ30TF grade: MC326-10.0E4P-WJ30TF

PWZ		D _c h9 Inch/ no.	L _c Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	SW Inch	d ₁ Inch	Z	WJ30TF
ConeFit	MC326.9.53E4P-	3/8"	0,209	0,364	0,929	0,488	0,315	E10	4	⊕
	MC326.12.7E4P-	1/2"	0,276	0,484	1,114	0,575	0,394	E12	4	⊕
	MC326.15.9E4P-	5/8"	0,335	0,610	1,406	0,736	0,472	E16	4	⊕
	MC326.19.1E4P-	3/4"	0,413	0,728	1,606	0,839	0,630	E20	4	⊕
	MC326.25.4E5P-	1"	0,551	0,965	1,953	1,008	0,787	E25	5	⊕



Slot milling $a_p \leq 0.4 \times D_c$
Shoulder milling $a_e \leq 0.05 \times D_c$
Ordering example for the WJ30TF grade: MC326.9.53E4P-WJ30TF

Continued

C1

Continued

PWZ		D _c h9 mm	R mm	L _c mm	d ₂ mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WJ30TF
	Designation										
	ConeFit										
	MC326-10.0E4P050-	10	0,5	5,5	9,7	23,6	12,4	8	E10	4	☺
	MC326-10.0E4P100-	10	1	5,5	9,7	23,6	12,4	8	E10	4	☺
	MC326-10.0E4P150-	10	1,5	5,5	9,7	23,6	12,4	8	E10	4	☺
	MC326-10.0E4P200-	10	2	5,5	9,7	23,6	12,4	8	E10	4	☺
	MC326-10.0E4P300-	10	3	5,5	9,7	23,6	12,4	8	E10	4	☺
	MC326-12.0E4P050-	12	0,5	6,5	11,7	28,3	14,5	10	E12	4	☺
	MC326-12.0E4P100-	12	1	6,5	11,7	28,3	14,5	10	E12	4	☺
	MC326-12.0E4P150-	12	1,5	6,5	11,7	28,3	14,5	10	E12	4	☺
	MC326-12.0E4P200-	12	2	6,5	11,7	28,3	14,5	10	E12	4	☺
	MC326-12.0E4P300-	12	3	6,5	11,7	28,3	14,5	10	E12	4	☺
	MC326-12.0E4P400-	12	4	6,5	11,7	28,3	14,5	10	E12	4	☺
	MC326-16.0E4P050-	16	0,5	8,5	15,5	35,7	18,7	12	E16	4	☺
	MC326-16.0E4P100-	16	1	8,5	15,5	35,7	18,7	12	E16	4	☺
	MC326-16.0E4P150-	16	1,5	8,5	15,5	35,7	18,7	12	E16	4	☺
	MC326-16.0E4P200-	16	2	8,5	15,5	35,7	18,7	12	E16	4	☺
	MC326-16.0E4P300-	16	3	8,5	15,5	35,7	18,7	12	E16	4	☺
	MC326-16.0E4P400-	16	4	8,5	15,5	35,7	18,7	12	E16	4	☺
	MC326-20.0E4P050-	20	0,5	11	19,3	40,8	21,3	16	E20	4	☺
	MC326-20.0E4P100-	20	1	11	19,3	40,8	21,3	16	E20	4	☺
	MC326-20.0E4P150-	20	1,5	11	19,3	40,8	21,3	16	E20	4	☺
	MC326-20.0E4P200-	20	2	11	19,3	40,8	21,3	16	E20	4	☺
	MC326-20.0E4P300-	20	3	11	19,3	40,8	21,3	16	E20	4	☺
	MC326-20.0E4P400-	20	4	11	19,3	40,8	21,3	16	E20	4	☺
	MC326-25.0E5P100-	25	1	13,5	24,2	49,6	25,6	20	E25	5	☺
	MC326-25.0E5P150-	25	1,5	13,5	24,2	49,6	25,6	20	E25	5	☺
	MC326-25.0E5P200-	25	2	13,5	24,2	49,6	25,6	20	E25	5	☺
MC326-25.0E5P300-	25	3	13,5	24,2	49,6	25,6	20	E25	5	☺	
MC326-25.0E5P400-	25	4	13,5	24,2	49,6	25,6	20	E25	5	☺	

Slot milling $a_p \leq 0.4 \times D_c$

Shoulder milling $a_e \leq 0.5 \times D_c$

Ordering example for the WJ30TF grade: MC326-10.0E4P050-WJ30TF

PWZ		D _c h9 Inch/ no.	R Inch	L _c Inch	d ₂ Inch	l ₁ Inch	l ₄ Inch	SW Inch	d ₁ Inch	Z	WJ30TF
	Designation										
	ConeFit										
	MC326.9.53E4P038-	3/8"	0,015	0,209	0,364	0,929	0,488	0,315	E10	4	☺
	MC326.9.53E4P076-	3/8"	0,030	0,209	0,364	0,929	0,488	0,315	E10	4	☺
	MC326.12.7E4P038-	1/2"	0,015	0,276	0,484	1,114	0,575	0,394	E12	4	☺
	MC326.12.7E4P076-	1/2"	0,030	0,276	0,484	1,114	0,575	0,394	E12	4	☺
	MC326.12.7E4P152-	1/2"	0,060	0,276	0,484	1,114	0,575	0,394	E12	4	☺
	MC326.15.9E4P152-	5/8"	0,060	0,335	0,610	1,406	0,736	0,472	E16	4	☺
	MC326.19.1E4P152-	3/4"	0,060	0,413	0,728	1,606	0,839	0,630	E20	4	☺
	MC326.19.1E4P318-	3/4"	0,125	0,413	0,728	1,606	0,839	0,630	E20	4	☺
	MC326.25.4E5P152-	1"	0,060	0,551	0,965	1,953	1,008	0,787	E25	5	☺
	MC326.25.4E5P318-	1"	0,125	0,551	0,965	1,953	1,008	0,787	E25	5	☺

Slot milling $a_p \leq 0.4 \times D_c$

Shoulder milling $a_e \leq 0.5 \times D_c$

Ordering example for the WJ30TF grade: MC326.9.53E4P038-WJ30TF

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹
Poor

machining conditions

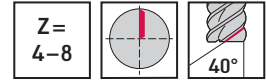
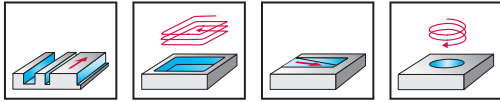
•• Primary application

• Other application

C1

Solid carbide shoulder/slot milling cutters

MC320











	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

PWZ	Designation	D _c h12 mm	L _c mm	d ₂ mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WJ30TF
	MC320-10.0E4P-	10	5,5	9,7	23,6	12,4	8	E10	4	⊕
	MC320-10.0E5P-	10	5,5	9,7	23,6	12,4	8	E10	5	⊕
	MC320-12.0E4P-	12	6,5	11,7	28,3	14,5	10	E12	4	⊕
	MC320-12.0E5P-	12	6,5	11,7	28,3	14,5	10	E12	5	⊕
	MC320-16.0E6P-	16	8,5	15,5	35,7	18,7	12	E16	6	⊕
	MC320-20.0E6P-	20	11	19,3	40,8	21,3	16	E20	6	⊕
	MC320-25.0E8P-	25	25	24,2	49,6	25,6	20	E25	8	⊕

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30TF grade: MC320-10.0E4P-WJ30TF

Brazed milling tools product range overview

Shoulder/slot milling cutters

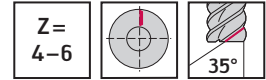
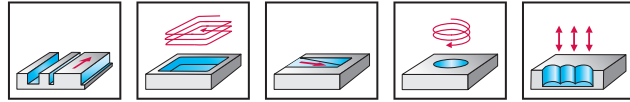
Machining				
Designation	MC275	MC075	MC275	MC075
Dia. range [mm]	8–12	8–12	12–25	16–25
Z	4–6	4	4–8	4
Shank [mm]	DIN 6535 HA	DIN 6535 HA	ConeFit	ConeFit
Page	484	484	485	485
				

Ceramic shoulder/slot milling cutters

MC275



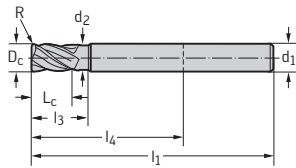
– Long reach



	P	M	K	N	S	H	O
WIS10					●●		

P STANDARD

	Designation	D _c h12 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WIS10
Shank DIN 6535 HA	MC275-08.0A4P100C-	8	1	7	19	7,6	67	31	8	4	☺
	MC275-10.0A4P100C-	10	1	7	22	9,5	75	35	10	4	☺
	MC275-12.0A4P100C-	12	1	7	26	11,4	82	37	12	4	☺
	MC275-12.0A6P100C-	12	1	7	26	11,4	82	37	12	6	☺



Shoulder milling $a_e \leq 0.1 \times D_c$

Slot milling $a_p \leq 0.1 \times D_c$

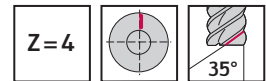
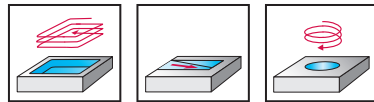
Ordering example for the WIS10 grade: MC275-08.0A4P100C-WIS10

Ceramic shoulder/slot milling cutters

MC075



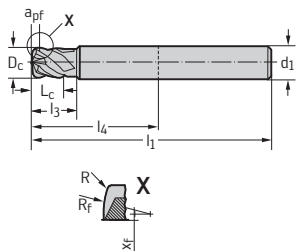
– Long reach



	P	M	K	N	S	H	O
WIS10					●●		

P STANDARD

	Designation	D _c h12 mm	a _{pf} mm	x _f mm	R _f mm	R _{ers} mm	R mm	L _c mm	l ₁ mm	l ₃ mm	l ₄ mm	d ₁ h6 mm	WIS10
Shank DIN 6535 HA	MC075-08.0A4P100C-	8	0,25	0,78	12	1,226	1	7	67	19	31	8	☺
	MC075-10.0A4P150C-	10	0,3	0,8	15	1,773	1,5	7	75	22	35	10	☺
	MC075-12.0A4P150C-	12	0,4	1	18	1,875	1,5	7	82	26	37	12	☺



Shoulder milling $a_e \leq 0.5 \times D_a$

Ordering example for the WIS10 grade: MC075-08.0A4P100C-WIS10

WALTER SELECT

Best tool for machining conditions

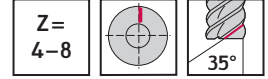
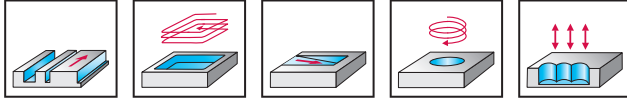
☺ Good ☹ Average ☹ Poor

●● Primary application

● Other application

Ceramic shoulder/slot milling cutters

MC275 mm



	P	M	K	N	S	H	O
WIS10					●●		

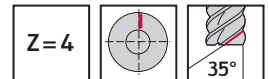
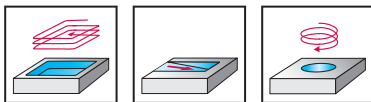
P STANDARD

	Designation	D _c h12 mm	R mm	L _c mm	d ₂ mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WIS10
ConeFit 	MC275-12.0E4P100-	12	1	7	11,7	32,6	18,8	10	E12	4	☉
	MC275-12.0E6P100-	12	1	7	11,7	32,6	18,8	10	E12	6	☉
	MC275-16.0E6P150-	16	1,5	9	15,5	42,7	25,7	12	E16	6	☉
	MC275-16.0E8P150-	16	1,5	9	15,5	42,7	25,7	12	E16	8	☉
	MC275-20.0E6P150-	20	1,5	9	19,3	47,8	28,3	16	E20	6	☉
	MC275-20.0E8P150-	20	1,5	9	19,3	47,8	28,3	16	E20	8	☉
	MC275-25.0E6P150-	25	1,5	9	24,2	56,6	32,6	20	E25	6	☉
	MC275-25.0E8P150-	25	1,5	9	24,2	56,6	32,6	20	E25	8	☉

Shoulder milling $a_e \leq 0.1 \times D_c$
 Ordering example for the WIS10 grade: MC275-12.0E4P100-WIS10

Ceramic shoulder/slot milling cutters

MC075 mm



	P	M	K	N	S	H	O
WIS10					●●		

P STANDARD

	Designation	D _c h12 mm	a _{pf} mm	x _f mm	R _f mm	R _{ers} mm	R mm	L _c mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WIS10	
ConeFit 	MC075-16.0E4P200-	16	0,5	1,5	24	2,465	2	9	42,7	25,7	12	E16	4	☉	
	MC075-20.0E4P200-	20	0,65	2,2	30	2,607	2	9	47,8	28,3	16	E20	4	☉	
	MC075-25.0E4P300-	25	0,75	2,8	36	3,687	3	9	56,6	32,6	20	E25	4	☉	

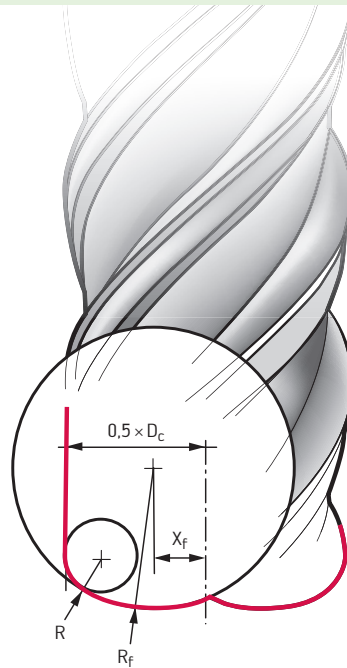
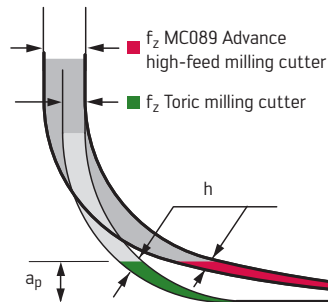
Shoulder milling $a_e \leq 0.05 \times D_c$
 Ordering example for the WIS10 grade: MC075-16.0E4P200-WIS10

C1

High-feed geometry

MC089 Advance high-feed milling cutter

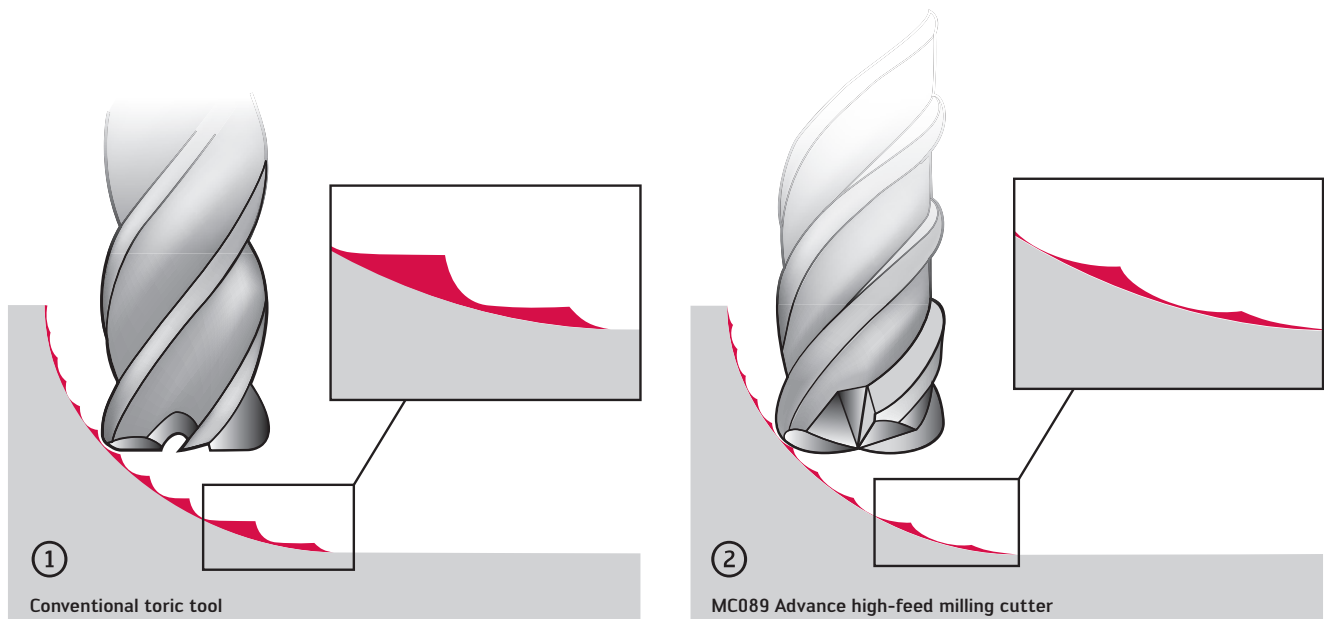
The chip thickness "h" is reduced thanks to the special end-face geometry. Extremely high feeds are possible. Forces are diverted axially towards the centre of the tool. This stabilises the machining process.



Despite operating at double the feed rate, the chip thickness (h) produced by MC089 Advance remains thinner.

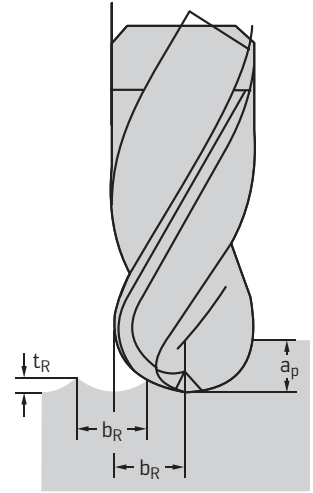
In comparison with conventional toric tools (figure 1), the MC089 Advance high-feed milling cutter (figure 2) reduces the amount of residual material produced. This is due to the special geometry that minimises the machining of residual material and increases the tool life of the subsequent finishing tool.

C1



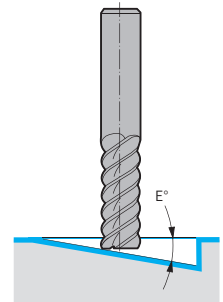
Usage recommendations for copying and finishing with the MC480 / MC482 Advance

Tool diameter D_c (mm)	Row width (b_R) for groove depth $t_R = 5 \mu\text{m}$	Row width (b_R) for groove depth $t_R = 2 \mu\text{m}$
0,4	0,09	0,05
0,5	0,10	0,06
0,6	0,11	0,07
0,8	0,12	0,08
1,0	0,14	0,09
1,5	0,17	0,11
2,0	0,20	0,12
2,5	0,22	0,14
3,0	0,25	0,16
4,0	0,28	0,18
5,0	0,31	0,20
6,0	0,34	0,22
8,0	0,40	0,25
10,0	0,45	0,28
12,0	0,49	0,31
16,0	0,56	0,36



Maximum feed angle [°] on MC183 Advance, MC187 Advance, MC281 Advance, MC388 Advance

Material groups	Material	Number of teeth					
		2	3	4	5	6-8	8
H	Hard materials	2	2	1,5	1,5	1,5	1



C1

Coated carbide

Walter grade designation	Standard designation	Material groups						Application range							Coating process	Coating composition	Tool example	
		P	M	K	N	S	H	O	01	05	10	15	20	25				30
WB10TG	HC - P 10	●														PVD	TiAlSiN	
	HC - H 10						●●											

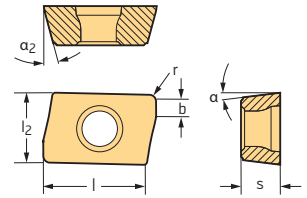
Indexable inserts for milling product range overview











Insert shape	Description	Page
	A Positive rhombic for Xtra-tec®	491
	B Positive rhombic for Xtra-tec® XT	490
	C Positive rhombic for Xtra-tec® XT	495
	C Tangential rhombic	532
	L Positive rhombic	496
	L Double-sided rhombic for Xtra-tec®	520
	L Tangential rhombic	532
	L Tangential rhombic for Xtra-tec®	533
	L Tangential rhombic for Walter BLAXX	534
	M Positive rhombic	498
	O Positive octagonal for Xtra-tec®	499
	O Finishing inserts	518
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	R Positive round	503
	R Double-sided round	522
	S Positive square	506
	S Double-sided square for Xtra-tec®/Xtra-tec® XT	522
	T Positive triangular	514
	X Double-sided heptagon for Xtra-tec®	526
	X Double-sided heptagon for Walter BLAXX	528
	X Tangential for Walter BLAXX	536
	X Positive form inserts for copy milling cutters	514
	Z Positive rhombic	516

Insert shape	Description	Page
	SX . . Indexable inserts for Walter BLAXX slitting cutters	538
	P 23 . . Wendelnovex® inserts	521
	P 236 . . Double-sided triangular for Xtra-tec® high-feed milling cutters	521
	P 263 . . Positive triangular for high-feed milling cutters for copy milling cutters	501 500
	P 32 . . Indexable inserts for profile milling cutters	502
	P 44 . . Tangential rhombic	537
	Positive finishing inserts	518
	Double-sided finishing inserts	529

Positive rhombic
ACGT / ACMT
Tiger-tec® Gold

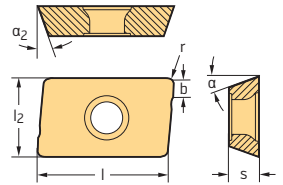


Indexable inserts






Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M		K			N		S			
										HC	HC	HC	HC	HC	HC	HC	HW	HC	HW	HC	HC			
										WKP255	WKP356	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP356	WKP355	WXN15	WK10	WSM355	WSP455
 ACGT060204R-G65	G	2	4,4	6,7	2,38	7°	15°	0,4	0,9	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺
 ACGT060204R-M85	G	2	4,4	6,7	2,38	7°	15°	0,4	0,9												☺	☺		
 ACMT060202R-G55	M	2	4,4	6,7	2,38	7°	15°	0,2	1		☺	☺	☺		☺				☺	☺				☺
 ACMT060204R-G55	M	2	4,4	6,7	2,38	7°	15°	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺
 ACMT060208R-G55	M	2	4,4	6,7	2,38	7°	15°	0,8	0,8		☺	☺	☺		☺				☺	☺				☺
 ACMT060212R-G55	M	2	4,4	6,7	2,38	7°	15°	1,2	0,6		☺	☺	☺		☺				☺	☺				☺
 ACMT060216R-G55	M	2	4,4	6,7	2,38	7°	15°	1,6	0,1		☺	☺	☺		☺				☺	☺				☺
 ACMT060204R-K55	M	2	4,4	6,7	2,38	7°	15°	0,4	0,9	☺	☺	☺	☺	☺	☺				☺	☺				☺

HC = Coated carbide
HW = Uncoated carbide

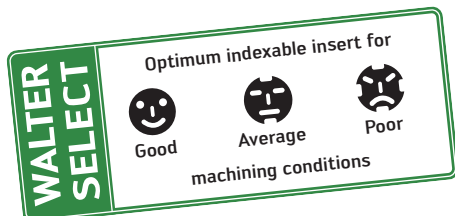
Positive rhombic ADGT / ADHT / ADKT Tiger-tec® Gold



Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M		K				N		S				
										HC				HC		HC				HC	HW	HC				
										WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S		
 ADGT0803PER-D51	G	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	
ADGT1204PER-D51	G	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1606PER-D51	G	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1807PER-D51	G	2	14,5	19	7,94	15°	17°	1,2	1,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
 ADGT0803PER-D56	G	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1204PER-D56	G	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1606PER-D56	G	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1807PER-D56	G	2	14,5	19	7,94	15°	17°	1,2	1,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
 ADGT10T3PER-D67	G	2	7,25	11,3	3,97	15°	15°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT10T316R-D67	G	2	7,25	11,3	3,97	15°	15°	1,6	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT10T330R-D67	G	2	7,25	11,3	3,97	15°	15°	3	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT10T332R-D67	G	2	7,25	11,3	3,97	15°	15°	3,2	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1204PER-D67	G	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT120416R-D67	G	2	8,4	13,6	4,76	15°	20°	1,6	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT120430R-D67	G	2	8,4	13,6	4,76	15°	20°	3	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1606PER-D67	G	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT160616R-D67	G	2	10,8	17,5	6,15	15°	20°	1,6	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT160630R-D67	G	2	10,8	17,5	6,15	15°	20°	3	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
 ADGT0803PER-F56	G	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT080308R-F56	G	2	6,75	9,52	3,18	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT120404R-F56	G	2	8,4	13,6	4,76	15°	20°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1204PER-F56	G	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT120430R-F56	G	2	8,4	13,6	4,76	15°	20°	3	0,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT120440R-F56	G	2	8,4	13,6	4,76	15°	20°	4	0,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1606PER-F56	G	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT160612R-F56	G	2	10,8	17,5	6,15	15°	20°	1,2	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT160616R-F56	G	2	10,8	17,5	6,15	15°	20°	1,6	1,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT160620R-F56	G	2	10,8	17,5	6,15	15°	20°	2	1,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT160632R-F56	G	2	10,8	17,5	6,15	15°	20°	3,2	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT160640R-F56	G	2	10,8	17,5	6,15	15°	20°	4	1	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT160650R-F56	G	2	10,8	17,5	6,15	15°	20°	5	0,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT160660R-F56	G	2	10,8	17,5	6,15	15°	20°	6	0,4	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
 ADGT10T3PER-G77	G	2	7,25	11,3	3,97	15°	15°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1204PER-G77	G	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
ADGT1606PER-G77	G	2	10,8	17,5	6,15	15°	20°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉

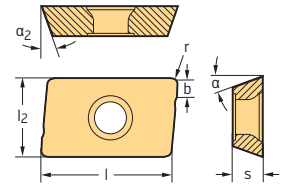
HC = Coated carbide
HW = Uncoated carbide





C2

Positive rhombic ADGT / ADHT / ADKT

Tiger-tec® Gold

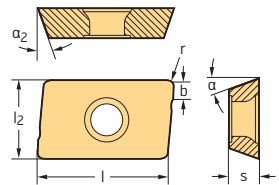


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M		K				N		S		
										HC				HC		HC				HC	HW	HC		
										WKP255	WKP356	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP356	WKP355	WXN15	WK10	WSM355	WSP455
 ADHT0803PER-G88	H	2	6,75	9,52	3,18	15°	20°	0,4	1,2												☺	☺		
ADHT0803PEL-G88	H	2	6,75	9,52	3,18	15°	20°	0,4	1,2												☺	☺		
ADHT10T3PER-G88	H	2	7,25	11,3	3,97	15°	15°	0,8	1,2												☺	☺		
ADHT1204PER-G88	H	2	8,4	13,6	4,76	15°	20°	0,8	1,2												☺	☺		
ADHT1204PEL-G88	H	2	8,4	13,6	4,76	15°	20°	0,8	1,2												☺	☺		
ADHT120416R-G88	H	2	8,4	13,6	4,76	15°	20°	1,6	1												☺	☺		
ADHT120416L-G88	H	2	8,4	13,6	4,76	15°	20°	1,6	1												☺	☺		
ADHT120425R-G88	H	2	8,4	13,6	4,76	15°	20°	2,5	0,8												☺	☺		
ADHT120425L-G88	H	2	8,4	13,6	4,76	15°	20°	2,5	0,8												☺	☺		
ADHT120430R-G88	H	2	8,4	13,6	4,76	15°	20°	3	0,8												☺	☺		
ADHT120430L-G88	H	2	8,4	13,6	4,76	15°	20°	3	0,8												☺	☺		
ADHT120440R-G88	H	2	8,4	13,6	4,76	15°	20°	4	0,4												☺	☺		
ADHT120440L-G88	H	2	8,4	13,6	4,76	15°	20°	4	0,4												☺	☺		
ADHT1606PER-G88	H	2	10,8	17,5	6,15	15°	20°	0,8	1,6												☺	☺		
ADHT1606PEL-G88	H	2	10,8	17,5	6,15	15°	20°	0,8	1,6												☺	☺		
ADHT160616R-G88	H	2	10,8	17,5	6,15	15°	20°	1,6	1,4												☺	☺		
ADHT160616L-G88	H	2	10,8	17,5	6,15	15°	20°	1,6	1,4												☺	☺		
ADHT160625R-G88	H	2	10,8	17,5	6,15	15°	20°	2,5	1,2												☺	☺		
ADHT160625L-G88	H	2	10,8	17,5	6,15	15°	20°	2,5	1,2												☺	☺		
ADHT160630R-G88	H	2	10,8	17,5	6,15	15°	20°	3	1,2												☺	☺		
ADHT160640R-G88	H	2	10,8	17,5	6,15	15°	20°	4	1												☺	☺		
ADHT160640L-G88	H	2	10,8	17,5	6,15	15°	20°	4	1												☺	☺		
 ADKT0803PER-F56	K	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺
ADKT0803PEL-F56	K	2	6,75	9,52	3,18	15°	20°	0,4	1,2												☺	☺		☺
ADKT10T3PER-F56	K	2	7,25	11,3	3,97	15°	15°	0,8	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺			☺	☺
ADKT1204PER-F56	K	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺
ADKT1204PEL-F56	K	2	8,4	13,6	4,76	15°	20°	0,8	1,2												☺	☺		☺
ADKT1606PER-F56	K	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺
ADKT1606PEL-F56	K	2	10,8	17,5	6,15	15°	20°	0,8	1,6												☺	☺		☺

HC = Coated carbide
HW = Uncoated carbide

Positive rhombic ADMT Tiger-tec® Gold

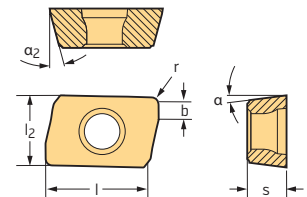


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M			K			S											
										HC				HC			HC			HC											
										WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S							
ADMT160640L-F56	M	2	10,8	17,5	6,15	15°	20°	4	1	☞	☞	☞	☞																		
ADMT160650R-F56	M	2	10,8	17,5	6,15	15°	20°	5		☞	☞	☞	☞																		
ADMT160660R-F56	M	2	10,8	17,5	6,15	15°	20°	6		☞	☞	☞	☞																		
ADMT180712R-F56	M	2	14,5	19	7,94	15°	17°	1,2	1,8	☞	☞	☞	☞					☞	☞												
ADMT080304R-G56	M	2	6,75	9,52	3,18	15°	20°	0,4	1,2	☞	☞	☞	☞																		
ADMT10T308R-G56	M	2	7,25	11,3	3,97	15°	15°	0,8	1,2	☞	☞	☞	☞																		
ADMT120408R-G56	M	2	8,4	13,6	4,76	15°	20°	0,8	1,2	☞	☞	☞	☞																		
ADMT160608R-G56	M	2	10,8	17,5	6,15	15°	20°	0,8	1,6	☞	☞	☞	☞																		

HC = Coated carbide

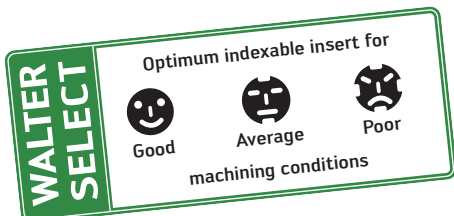
Positive rhombic BCGT / BCMT Tiger-tec® Gold



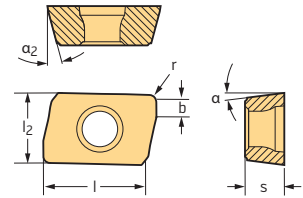
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M			K			S											
										HC				HC			HC			HC											
										WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S							
BCGT160508R-G55	G	2	14,9	17,3	5,75	7°	17°	0,8	2	☞	☞	☞	☞					☞	☞	☞											
BCMT160508R-F55	M	2	14,9	17,3	5,75	7°	17°	0,8	2	☞	☞	☞	☞					☞	☞	☞											
BCMT160508R-G55	M	2	14,9	17,3	5,75	7°	17°	0,8	2	☞	☞	☞	☞					☞	☞	☞											

HC = Coated carbide



Positive rhombic BCGT / BCMT Tiger-tec® Gold



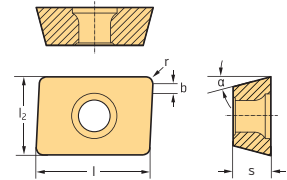
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	α ₂	r mm	b mm	P				M			K				S				
										HC				HC			HC				HC				
										WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S	
BCMT160508R-K55	M	2	14,9	17,3	5,75	7°	17°	0,8	2	☞	☞	☞	☞	☞	☞	☞				☞	☞	☞	☞	☞	☞



HC = Coated carbide

Positive rhombic LDMW / LDMT Tiger-tec® Gold



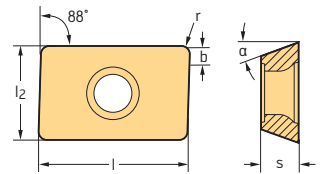
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P				M			K				S				
									HC				HC			HC				HC				
									WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S			
LDMW08T204R-A57	M	2	6,1	8,88	2,58	15°	0,4	0,8	☞	☞	☞							☞	☞	☞				
LDMW14T308R-A57	M	2	9,68	14,1	4,08	15°	0,8	1,2	☞	☞	☞							☞	☞	☞				
LDMW170408R-A57	M	2	11,78	17,24	4,92	15°	0,8	1,6	☞	☞	☞							☞	☞	☞				
LDMT08T204R-D51	M	2	6,1	8,88	2,58	15°	0,4	0,8	☞	☞	☞	☞	☞	☞				☞	☞	☞	☞	☞	☞	☞
LDMT14T308R-D51	M	2	9,68	14,1	4,08	15°	0,8	1,2	☞	☞	☞	☞	☞	☞				☞	☞	☞	☞	☞	☞	☞
LDMT170408R-D51	M	2	11,78	17,24	4,92	15°	0,8	1,6	☞	☞	☞	☞	☞	☞				☞	☞	☞	☞	☞	☞	☞
LDMT170412R-D51	M	2	11,78	17,24	4,92	15°	1,2	1,6	☞	☞	☞	☞	☞	☞	☞			☞	☞	☞	☞	☞	☞	☞
LDMT08T204R-D57	M	2	6,1	8,88	2,58	15°	0,4	0,8	☞	☞	☞	☞	☞	☞				☞	☞	☞	☞	☞	☞	☞
LDMT14T308R-D57	M	2	9,68	14,1	4,08	15°	0,8	1,2	☞	☞	☞	☞	☞	☞				☞	☞	☞	☞	☞	☞	☞
LDMT170408R-D57	M	2	11,78	17,24	4,92	15°	0,8	1,6	☞	☞	☞	☞	☞	☞				☞	☞	☞	☞	☞	☞	☞
LDMT08T204R-F57	M	2	6,1	8,88	2,58	15°	0,4	0,8	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
LDMT14T308R-F57	M	2	9,68	14,1	4,08	15°	0,8	1,2	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
LDMT170408R-F57	M	2	11,78	17,24	4,92	15°	0,8	1,6	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞



HC = Coated carbide

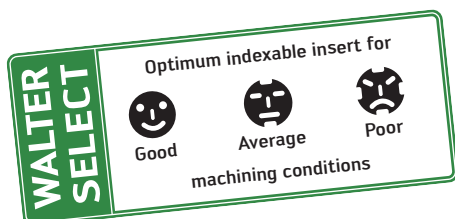
Positive rhombic
LPGW / LPGT / LPMW / LPMT
Tiger-tec® Silver



Indexable inserts

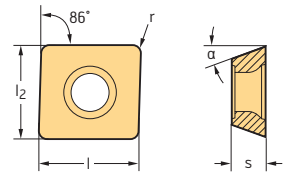
Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P			M		K			S	
									HC			HC		HC			HC	
									WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WSM35S	WSP45S
LPGW070304R-A57	G	2	6,35	7,94	3,18	11°	0,4	1,2	☒	☒				☒	☒	☒		
LPGW15T308R-A57	G	2	9,52	15	3,97	11°	0,8	1,4	☒	☒				☒	☒	☒		
LPGW150412R-A57	G	2	12,7	15,88	4,76	11°	1,2	1,6	☒	☒				☒	☒	☒		
LPGT070304R-F55	G	2	6,35	7,94	3,18	11°	0,4	1,2	☒	☒	☒			☒	☒			☒
LPGT15T308R-F55	G	2	9,52	15	3,97	11°	0,8	1,4	☒	☒	☒	☒		☒	☒	☒		☒
LPGT150412R-F55	G	2	12,7	15,88	4,76	11°	1,2	1,6	☒	☒	☒	☒		☒	☒	☒		☒
LPGT1506PPR-F57	G	2	12,7	15,88	6,35	11°	1,2	1,6		☒	☒			☒				☒
LPMW15T308TR-A27	M	2	9,52	15	3,97	11°	0,8			☒	☒			☒	☒			
LPMW150412TR-A27	M	2	12,7	15,88	4,76	11°	1,2			☒	☒			☒	☒			
LPMW150612TR-A27	M	2	12,7	15,88	6,35	11°	1,2			☒				☒				
LPMT070304R-D51	M	2	6,35	7,94	3,18	11°	0,4	1,2	☒	☒	☒	☒		☒	☒	☒		☒
LPMT15T308R-D51	M	2	9,52	15	3,97	11°	0,8	1,4	☒	☒	☒	☒		☒	☒	☒		☒
LPMT150412R-D51	M	2	12,7	15,88	4,76	11°	1,2	1,6	☒	☒	☒	☒		☒	☒	☒		☒
LPMT150612R-D51	M	2	12,7	15,88	6,35	11°	1,2			☒	☒			☒				☒
LPMT150612R-D57	M	2	12,7	15,88	6,35	11°	1,2			☒	☒			☒				☒

HC = Coated carbide









Positive rhombic MPHX / MPHW / MPHT / MPMX / MPMT

Tiger-tec® Gold



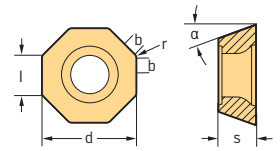
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	P			M		K			N	S	
								HC			HC		HC			HC	HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WXN15
 MPHX060304-A57	H	2	6,35	6,35	3,18	11°	0,4	☺	☺	☺			☺	☺	☺	☺		
MPHX080305-A57	H	2	8,3	8,3	3,18	11°	0,5	☺	☺	☺			☺	☺	☺	☺		
 MPHW120408-A57	H	2	12,7	12,7	4,76	11°	0,8	☺	☺	☺			☺	☺	☺	☺		
 MPHX060304-G88	H	2	6,35	6,35	3,18	11°	0,4									☺		
MPHX080305-G88	H	2	8,3	8,3	3,18	11°	0,5									☺		
 MPHT120408-G88	H	2	12,7	12,7	4,76	11°	0,8									☺		
 MPMX060304-F57	M	2	6,35	6,35	3,18	11°	0,4	☺	☺	☺	☺		☺	☺	☺	☺		☺
MPMX080305-F57	M	2	8,3	8,3	3,18	11°	0,5	☺	☺	☺	☺		☺	☺	☺	☺		☺
 MPMT120408-F57	M	2	12,7	12,7	4,76	11°	0,8	☺	☺	☺	☺		☺	☺	☺	☺		☺

HC = Coated carbide

Positive octagonal ODHW / ODHT / ODMT / ODMW

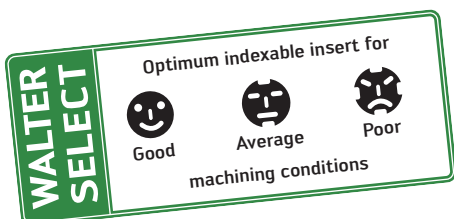
Tiger-tec® Gold



Indexable inserts

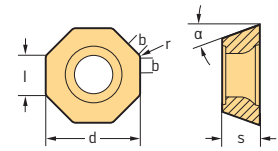
Designation	Tolerance class	Number of cutting edges	l mm	d mm	s mm	α	r mm	b mm	P				M			K				N			S				
									WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSN10	WXN15	WK10	WSM35S	WSM45X	WSP45S	
ODHW050408-A57	H	8	5,26	12,7	4,76	15°	0,8		☒	☒	☒							☒	☒								
ODHW060512-A57	H	8	6,58	15,88	5,56	15°	1,2		☒	☒									☒	☒							
ODHW050412-A57	H	8	5,26	12,7	4,76	15°	1,2													☒							
ODHW060516-A57	H	8	6,58	15,88	5,56	15°	1,6													☒							
ODHT050408-F57	H	8	5,26	12,7	4,76	15°	0,8		☒	☒	☒									☒	☒					☒	
ODHT060512-F57	H	8	6,58	15,88	5,56	15°	1,2		☒	☒	☒									☒	☒					☒	
ODHW0504ZZN-A57	H	8	5,26	12,7	4,76	15°	0,8	1,2	☒	☒	☒								☒	☒	☒						
ODHW0605ZZN-A57	H	8	6,58	15,88	5,56	15°	0,8	1,6	☒	☒	☒								☒	☒	☒						
ODHT0504ZZN-F57	H	8	5,26	12,7	4,76	15°	0,8	1,2	☒	☒	☒	☒								☒	☒	☒			☒	☒	
ODHT0605ZZN-F57	H	8	6,58	15,88	5,56	15°	0,8	1,6	☒	☒	☒	☒								☒	☒	☒			☒	☒	
ODHT0605ZZN-G77	H	8	6,58	15,88	5,56	15°	0,8	1,6				☒															☒
ODHT0504ZZN-G77	H	8	5,26	12,7	4,76	15°	0,8	1,6				☒															☒
ODHT0605ZZN-G88	H	8	6,58	15,88	5,56	15°	0,8	1,6													☒	☒					
ODHT0504ZZN-G88	H	8	5,26	12,7	4,76	15°	0,8	1,2													☒	☒					
ODMT050408-D57	M	8	5,26	12,7	4,76	15°	0,8		☒	☒	☒	☒								☒	☒	☒			☒	☒	
ODMT060512-D57	M	8	6,58	15,88	5,56	15°	1,2		☒	☒	☒	☒								☒	☒	☒			☒	☒	
ODMT0504ZZN-D57	M	8	5,26	12,7	4,76	15°	0,8	1,2	☒	☒	☒	☒								☒	☒	☒			☒	☒	☒
ODMT0605ZZN-D57	M	8	6,58	15,88	5,56	15°	0,8	1,6	☒	☒	☒	☒								☒	☒	☒			☒	☒	☒

HC = Coated carbide
 CN = Silicon nitride Si₃N₄
 HW = Uncoated carbide



Positive octagonal ODHW / ODHT / ODMT / ODMW

Tiger-tec® Gold



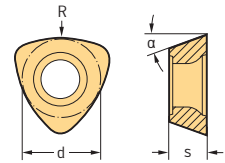
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	d mm	s mm	α	r mm	b mm	P				M			K				N			S			
									HC	HC	HC	HC	HC	HC	HC	HC	CN	HC	HW	HC	HC	HC				
									WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSN10	WXN15	WK10	WSM35S	WSM45X	WSP45S
ODMW050408T-A27	M	8	5,26	12,7	4,76	15°	0,8		☉	☉	☉					☉	☉	☉	☉	☉						
ODMW060508T-A27	M	8	6,58	15,88	5,56	15°	0,8		☉	☉	☉					☉	☉	☉	☉	☉						
ODMW050408-A57	M	8	5,26	12,7	4,76	15°	0,8		☉	☉	☉					☉	☉	☉	☉	☉						
ODMW060508-A57	M	8	6,58	15,88	5,56	15°	0,8		☉	☉	☉					☉	☉	☉	☉	☉						

HC = Coated carbide
CN = Silicon nitride Si₃N₄
HW = Uncoated carbide

Positive triangular P26315 / P26325

Tiger-tec® Silver



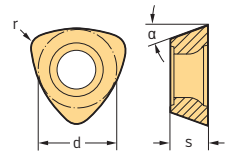
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	R mm	P			M		K		S	
							HC	HC	HC	HC	HC	HC	HC		
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WSM35S	WSP45S
P26315R10	M	3	6,75	2,78	14°	10	☉	☉	☉		☉	☉	☉	☉	
P26315R12	M	3	8,5	3,18	14°	12,5	☉	☉	☉		☉	☉	☉	☉	
P26315R15	M	3	10,5	3,97	14°	15	☉	☉	☉		☉	☉	☉	☉	
P26315R16	M	3	10,5	3,97	14°	16	☉	☉	☉		☉	☉	☉	☉	
P26315R20	M	3	12,5	4,76	11°	20	☉	☉	☉		☉	☉	☉	☉	
P26315R25	M	3	12,7	4,76	11°	25	☉	☉	☉		☉	☉	☉	☉	
P26315R31	M	3	12,7	4,76	11°	31,5	☉	☉	☉		☉	☉	☉	☉	
P26315R09.52	M	3	6,75	2,78	14°	9,5	☉	☉				☉	☉		
P26315R12.7	M	3	8,5	3,18	14°	12,7	☉	☉				☉	☉		
P26315R15.87	M	3	10,5	3,97	14°	15,9	☉	☉				☉	☉		
P26315R19.05	M	3	12,5	4,76	11°	19,1	☉	☉				☉	☉		
P26315R25.4	M	3	12,7	4,76	11°	25,4	☉	☉				☉	☉		
P26325R31	M	3	13,52	5,59	14°	31,5	☉	☉	☉		☉	☉	☉	☉	




HC = Coated carbide

Positive triangular P26335 / P26337 / P26339

Tiger-tec® Gold



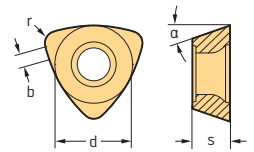
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	r mm	P			M		K			S	
							HC			HC		HC			HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S
 P26335R10	M	3	6,75	3,18	14°	0,8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
P26335R14	M	3	9,52	3,97	14°	1,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
P26335R25	M	3	13	5,56	14°	2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
 P26337R10	M	3	6,75	3,18	14°	0,8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
P26337R14	M	3	9,52	3,97	14°	1,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
P26337R25	M	3	13	5,56	14°	2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
 P26339R10	M	3	6,75	3,18	14°	0,8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
P26339R14	M	3	9,52	3,97	14°	1,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
P26339R25	M	3	13	5,56	14°	2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗


HC = Coated carbide

Positive triangular P26379

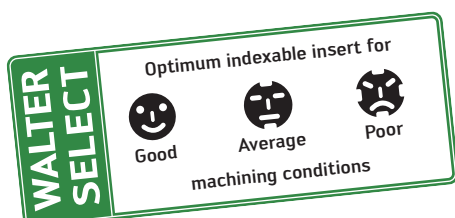
Tiger-tec® Gold



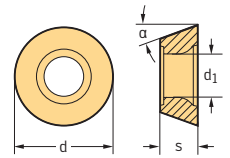
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	r mm	b mm	P			M		K			S	
								HC			HC		HC			HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S
 P26379-R10	M	3	6,75	3,18	14°	0,8	0,9	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
P26379-R14	M	3	9,52	3,97	14°	1,2	1	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
P26379-R25	M	3	13	5,56	14°	2	1,1	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	

HC = Coated carbide



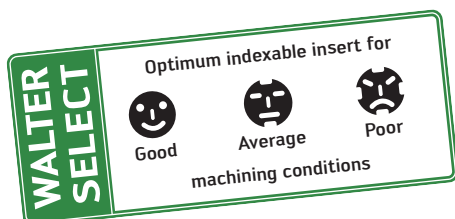
Positive round ROHX / ROMX Tiger-tec® Gold



Indexable inserts

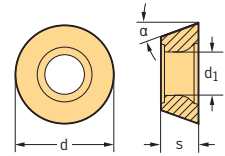
Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	d ₁ mm	P				M				K			S		
							HC				HC				HC			HC		
							WKP25S	WKP35G	WKP35S	WMP45G	WSP45S	WMP45G	WSM35S	WSM45X	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
ROHX10T3M0T-A27	H	4	10	3,97	11°	4,4	✘	✘	✘							✘	✘	✘		
ROHX1204M0T-A27	H	4	12	4,76	11°	4,4	✘	✘	✘							✘	✘	✘		
ROHX1605M0T-A27	H	6	16	5,56	15°	5,5	✘	✘	✘							✘	✘	✘		
ROHX2006M0T-A27	H	8	20	6,35	15°	6,5	✘	✘	✘							✘	✘	✘		
ROHX0803M0-D57	H	4	8	3,18	11°	3,4	✘	✘	✘	✘		✘				✘	✘	✘		
ROHX10T3M0-D57	H	4	10	3,97	11°	4,4	✘	✘	✘	✘	✘	✘	✘			✘	✘	✘		
ROHX1204M0-D57	H	4	12	4,76	11°	4,4	✘	✘	✘	✘	✘	✘	✘			✘	✘	✘		
ROHX1605M0-D57	H	6	16	5,56	15°	5,5	✘	✘	✘	✘	✘	✘	✘			✘	✘	✘		
ROHX2006M0-D57	H	8	20	6,35	15°	6,5	✘	✘	✘	✘	✘	✘	✘			✘	✘	✘		
ROHX0803M0-D67	H	4	8	3,18	11°	3,4				✘		✘				✘		✘		
ROHX10T3M0-D67	H	4	10	3,97	11°	4,4				✘	✘	✘	✘			✘	✘	✘		
ROHX1204M0-D67	H	4	12	4,76	11°	4,4				✘	✘	✘	✘			✘	✘	✘		
ROHX1605M0-D67	H	6	16	5,56	15°	5,5				✘	✘	✘	✘			✘	✘	✘		
ROHX10T3M0-F67	H	4	10	3,97	11°	4,4	✘	✘	✘	✘	✘	✘	✘			✘	✘	✘		
ROHX1204M0-F67	H	4	12	4,76	11°	4,4	✘	✘	✘	✘	✘	✘	✘			✘	✘	✘		
ROMX0803M0-D57	M	4	8	3,18	11°	3,4	✘	✘		✘		✘				✘	✘	✘		
ROMX10T3M0-D57	M	4	10	3,97	11°	4,4	✘	✘	✘	✘		✘	✘			✘	✘	✘		
ROMX1204M0-D57	M	4	12	4,76	11°	4,4	✘	✘	✘	✘		✘	✘			✘	✘	✘		
ROMX1605M0-D57	M	6	16	5,56	15°	5,5	✘	✘	✘	✘		✘	✘			✘	✘	✘		
ROMX2006M0-D57	M	8	20	6,35	15°	6,5	✘	✘	✘	✘		✘	✘			✘	✘	✘		
ROMX10T3M0-D67	M	4	10	3,97	11°	4,4				✘	✘	✘	✘			✘	✘	✘		
ROMX1204M0-D67	M	4	12	4,76	11°	4,4				✘	✘	✘	✘			✘	✘	✘		
ROMX10T3M0-F67	M	4	10	3,97	11°	4,4				✘	✘	✘	✘			✘	✘	✘		
ROMX1204M0-F67	M	4	12	4,76	11°	4,4				✘	✘	✘	✘			✘	✘	✘		

HC = Coated carbide



C2

Positive round
RDGT / RDHW / RDMW / RDMT
Tiger-tec® Gold

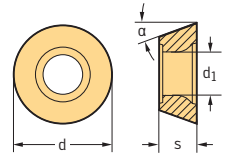


Indexable inserts

Designation	Tolerance class	d mm	s mm	α	d ₁ mm	P				M		K			N			S		H	O
						HC				HC		HC			HC	HW	HF	HC		HC	HF
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WXN15	WK10	WMG40	WSM35S	WSP45S	WHH15
	RDGT0803M0-G85	G	8	3,18	15°	3,4														☉	
	RDGT10T3M0-G85	G	10	3,97	15°	4,4														☉	
	RDGT1204M0-G85	G	12	4,76	15°	4,4														☉	
	RDGT1605M0-G85	G	16	5,56	15°	5,5														☉	
	RDGT2006M0-G85	G	20	6,35	15°	6,5														☉	
	RDGT0803M0-G88	G	8	3,18	15°	3,4								☉	☉						
	RDGT10T3M0-G88	G	10	3,97	15°	4,4								☉	☉						
	RDGT1204M0-G88	G	12	4,76	15°	4,4								☉	☉						
	RDGT1605M0-G88	G	16	5,56	15°	5,5								☉	☉						
	RDGT2006M0-G88	G	20	6,35	15°	6,5								☉	☉						
	RDHW0803M0-A27	H	8	3,18	15°	3,4	☉	☉	☉				☉	☉	☉						
	RDHW10T3M0-A27	H	10	3,97	15°	4,4	☉	☉	☉				☉	☉	☉						
	RDHW1204M0-A27	H	12	4,76	15°	4,4	☉	☉	☉				☉	☉	☉						
	RDHW1605M0-A27	H	16	5,56	15°	5,5	☉	☉	☉				☉	☉	☉						
	RDHW2006M0-A27	H	20	6,35	15°	6,5	☉	☉	☉				☉	☉	☉						
	RDHW0803M0-A57	H	8	3,18	15°	3,4	☉				☉	☉								☉	
	RDHW10T3M0-A57	H	10	3,97	15°	4,4	☉				☉	☉								☉	
	RDHW1204M0-A57	H	12	4,76	15°	4,4	☉				☉	☉								☉	
	RDHW1605M0-A57	H	16	5,56	15°	5,5	☉				☉	☉								☉	
	RDHW2006M0-A57	H	20	6,35	15°	6,5	☉				☉	☉								☉	
	RDMW0803M0-A27	M	8	3,18	15°	3,4	☉	☉	☉				☉	☉	☉						
	RDMW10T3M0-A27	M	10	3,97	15°	4,4	☉	☉	☉				☉	☉	☉						
	RDMW1204M0-A27	M	12	4,76	15°	4,4	☉	☉	☉				☉	☉	☉						
	RDMW1605M0-A27	M	16	5,56	15°	5,5	☉	☉	☉				☉	☉	☉						
	RDMW2006M0-A27	M	20	6,35	15°	6,5	☉	☉	☉				☉	☉	☉						
	RDMT0803M0-D57	M	8	3,18	15°	3,4	☉	☉	☉	☉	☉	☉				☉	☉				
	RDMT10T3M0-D57	M	10	3,97	15°	4,4	☉	☉	☉	☉	☉	☉				☉	☉				
	RDMT1204M0-D57	M	12	4,76	15°	4,4	☉	☉	☉	☉	☉	☉				☉	☉				
	RDMT1605M0-D57	M	16	5,56	15°	5,5	☉	☉	☉	☉	☉	☉				☉	☉				
	RDMT2006M0-D57	M	20	6,35	15°	6,5	☉	☉	☉	☉	☉	☉				☉	☉				

HC = Coated carbide
HW = Uncoated carbide
HF = Uncoated fine-grained carbide

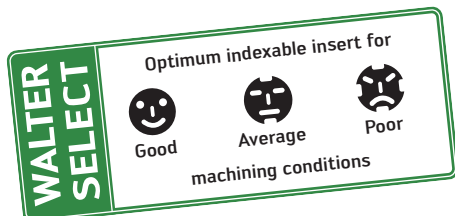
Positive round
RDGX / RDHX / RDMX
Tiger-tec® Gold



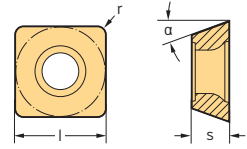
Indexable inserts

Designation	Tolerance class	d mm	s mm	α	d ₁ mm	P			M		K		N	S	H	O
						HC			HC		HC		HF	HC	HC	HF
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WMG40	WSM35S
RDGX12T3M0-G85	G	12	3,97	15°	4,4											☺
RDHX1003M0T-A27	H	10	3,18	15°	4,4	☺	☺	☺			☺	☺	☺			
RDHX12T3M0T-A27	H	12	3,97	15°	4,4	☺	☺	☺			☺	☺	☺			
RDHX1604M0T-A27	H	16	4,76	15°	5,5	☺	☺	☺			☺	☺	☺			
RDHX2006M0T-A27	H	20	6,35	15°	5,5			☺			☺	☺	☺			
RDHX0501M0-A57	H	5	1,59	15°	2,2	☺					☺					☺
RDHX07T1M0-A57	H	7	1,98	15°	2,8	☺					☺					☺
RDHX0702M0-A57	H	7	1,59	15°	2,8											☺
RDHX1003M0-A57	H	10	3,18	15°	4,4	☺					☺					☺
RDHX12T3M0-A57	H	12	3,97	15°	4,4	☺					☺					☺
RDHX1604M0-A57	H	16	4,76	15°	5,5	☺					☺					☺
RDMX1003M0T-A27	M	10	3,18	15°	4,4	☺	☺	☺			☺	☺	☺			
RDMX12T3M0T-A27	M	12	3,97	15°	4,4	☺	☺	☺			☺	☺	☺			
RDMX1604M0T-A27	M	16	4,76	15°	5,5	☺	☺	☺			☺	☺	☺			

HC = Coated carbide
 HF = Uncoated fine-grained carbide



Positive square
SDHT / SDMW / SDMT
Tiger-tec® Gold

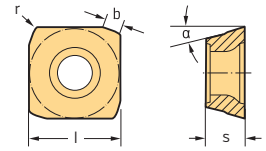


Indexable inserts


Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	P				M			K				N		S		
							HC				HC			HC				HC	HW	HC		
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X
SDHT06T204-G88	H	4	6,35	2,78	15°	0,4												☺	☺			
SDHT09T304-G88	H	4	9,52	3,97	15°	0,4												☺	☺			
SDHT09T308-G88	H	4	9,52	3,97	15°	0,8												☺	☺			
SDHT120408-G88	H	4	12,7	4,76	15°	0,8												☺	☺			
SDMW06T204-A57	M	4	6,35	2,78	15°	0,4	☺	☺	☺						☺	☺	☺					
SDMW09T308-A57	M	4	9,52	3,97	15°	0,8	☺	☺	☺						☺	☺	☺					
SDMW09T320-A57	M	4	9,52	3,97	15°	2	☺	☺	☺	☺	☺			☺	☺	☺	☺				☺	☺
SDMW120408-A57	M	4	12,7	4,76	15°	0,8	☺	☺	☺						☺	☺	☺				☺	☺
SDMW120425-A57	M	4	12,7	4,76	15°	2,5	☺	☺	☺	☺	☺			☺	☺	☺	☺				☺	☺
SDMT06T204-D51	M	4	6,35	2,78	15°	0,4	☺	☺	☺	☺					☺	☺	☺					☺
SDMT09T308-D51	M	4	9,52	3,97	15°	0,8	☺	☺	☺	☺					☺	☺	☺					☺
SDMT120408-D51	M	4	12,7	4,76	15°	0,8	☺	☺	☺	☺					☺	☺	☺					☺
SDMT06T204-D57	M	4	6,35	2,78	15°	0,4	☺	☺	☺	☺	☺				☺	☺	☺				☺	☺
SDMT09T308-D57	M	4	9,52	3,97	15°	0,8	☺	☺	☺	☺	☺				☺	☺	☺				☺	☺
SDMT120408-D57	M	4	12,7	4,76	15°	0,8	☺	☺	☺	☺	☺				☺	☺	☺				☺	☺
SDMT06T204-F57	M	4	6,35	2,78	15°	0,4	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT06T208-F57	M	4	6,35	2,78	15°	0,8	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT06T212-F57	M	4	6,35	2,78	15°	1,2	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT09T304-F57	M	4	9,52	3,97	15°	0,4	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT09T308-F57	M	4	9,52	3,97	15°	0,8	☺	☺	☺	☺	☺	☺	☺		☺	☺	☺				☺	☺
SDMT09T312-F57	M	4	9,52	3,97	15°	1,2	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT09T316-F57	M	4	9,52	3,97	15°	1,6	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT09T320-F57	M	4	9,52	3,97	15°	2	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT120408-F57	M	4	12,7	4,76	15°	0,8	☺	☺	☺	☺	☺	☺	☺		☺	☺	☺				☺	☺
SDMT120412-F57	M	4	12,7	4,76	15°	1,2	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT120416-F57	M	4	12,7	4,76	15°	1,6	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT120420-F57	M	4	12,7	4,76	15°	2	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺
SDMT120425-F57	M	4	12,7	4,76	15°	2,5	☺	☺	☺	☺	☺	☺			☺	☺	☺				☺	☺

HC = Coated carbide
HW = Uncoated carbide

**Positive square
SDMT
Tiger-tec® Gold**

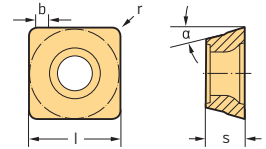


Indexable inserts


Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P				M		K			S	
								HC				HC		HC			HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S
 SDMT06T2ZDR-D57	M	4	6,4	2,78	15°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
SDMT09T3ZDR-D57	M	4	9,5	3,97	15°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
SDMT1204ZDR-D57	M	4	12,7	4,76	15°	0,8	1,8	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉

HC = Coated carbide

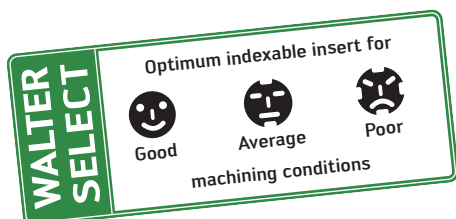
**Positive square
SDGT
Tiger-tec® Gold**



Indexable inserts

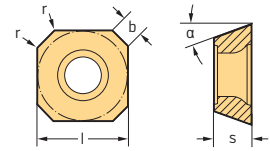
Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P				M		K			S	
								HC				HC		HC			HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S
 SDGT06T2PDR-D57	G	4	6,4	2,78	15°	0,4	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
SDGT09T3PDR-D57	G	4	9,5	3,97	15°	0,8	1,2	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
SDGT1204PDR-D57	G	4	12,7	4,76	15°	0,8	1,6	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉

HC = Coated carbide









Positive square
 SDMW / SDMT / SDGT

Tiger-tec® Gold

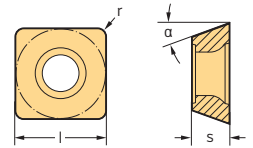


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P				M			K				N		S						
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S			
 SDMW09T3AZN-A57	M	4	9,5	3,97	15°	0,3	1,2	☉	☉	☉	☉				☉	☉	☉	☉									
SDMW1204AZN-A57	M	4	12,7	4,76	15°	0,3	1,4	☉	☉	☉	☉				☉	☉	☉	☉									
 SDMT09T3AZN-D57	M	4	9,5	3,97	15°	0,3	1,2	☉	☉	☉	☉	☉	☉		☉	☉	☉	☉					☉	☉			
SDMT1204AZN-D57	M	4	12,7	4,76	15°	0,3	1,4	☉	☉	☉	☉	☉	☉		☉	☉	☉	☉					☉	☉			
 SDMT09T3AZN-F57	M	4	9,5	3,97	15°	0,3	1,4	☉	☉	☉	☉	☉	☉				☉	☉	☉					☉	☉		
SDMT1204AZN-F57	M	4	12,7	4,76	15°	0,3	1,8	☉	☉	☉	☉	☉	☉				☉	☉	☉					☉	☉		
 SDGT09T3AZN-F57	G	4	9,5	3,97	15°	0,3	1,4	☉	☉	☉	☉	☉	☉		☉	☉	☉	☉					☉	☉			
SDGT1204AZN-F57	G	4	12,7	4,76	15°	0,3	1,8	☉	☉	☉	☉	☉	☉		☉	☉	☉	☉					☉	☉			
 SDGT09T3AZN-G77	G	4	9,5	3,97	15°	0,3	1,2					☉	☉												☉		
SDGT1204AZN-G77	G	4	12,7	4,76	15°	0,3	1,4					☉	☉												☉		
 SDHT09T3AZN-G88	H	4	9,5	3,97	15°	0,3	1,2																☉	☉			
SDHT1204AZN-G88	H	4	12,7	4,76	15°	0,3	1,4																☉	☉			

 HC = Coated carbide
 HW = Uncoated carbide

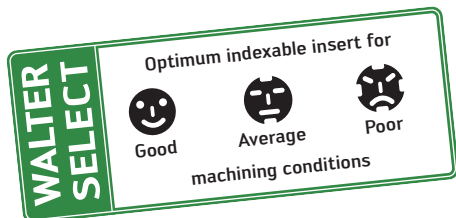
Positive square
SPGT / SPHW / SPHT / SPMW / SPMT
Tiger-tec® Gold



Indexable inserts

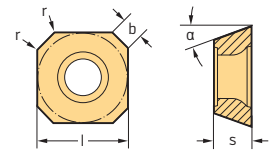
Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	P				M		K			N		S		
							HC				HC		HC			CN	HC	HW	HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WSN10	WXN15	WK10	WSM35S
SPGT120606-F57	G	4	12,7	6,35	11°	0,6														
SPHW120412-A57	H	4	12,7	4,76	11°	1,2														
SPHW120416-A57	H	4	12,7	4,76	11°	1,6														
SPHW120606-A57	H	4	12,7	6,35	11°	0,6														
SPHT060304-G88	H	4	6,35	3,18	11°	0,4														
SPHT09T308-G88	H	4	9,52	3,97	11°	0,8														
SPHT120408-G88	H	4	12,7	4,76	11°	0,8														
SPMW060304T-A27	M	4	6,35	3,18	11°	0,4														
SPMW09T308T-A27	M	4	9,52	3,97	11°	0,8														
SPMW120408T-A27	M	4	12,7	4,76	11°	0,8														
SPMW120606T-A27	M	4	12,7	6,35	11°	0,6														
SPMW060304-A57	M	4	6,35	3,18	11°	0,4														
SPMW09T308-A57	M	4	9,52	3,97	11°	0,8														
SPMW120408-A57	M	4	12,7	4,76	11°	0,8														
SPMT060304-D51	M	4	6,35	3,18	11°	0,4														
SPMT09T308-D51	M	4	9,52	3,97	11°	0,8														
SPMT120408-D51	M	4	12,7	4,76	11°	0,8														
SPMT120606-D51	M	4	12,7	6,35	11°	0,6														
SPMT120606-D57	M	4	12,7	6,35	11°	0,6														
SPMT060304-F55	M	4	6,35	3,18	11°	0,4														
SPMT09T308-F55	M	4	9,52	3,97	11°	0,8														
SPMT120408-F55	M	4	12,7	4,76	11°	0,8														

HC = Coated carbide
 CN = Silicon nitride Si₃N₄
 HW = Uncoated carbide















Positive square
 SPGT / SPKT / SPMW / SPMT / SDGT

Tiger-tec® Silver



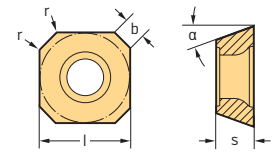
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P			M		K			N		S	
								HC			HC		HC			HC	HW	HC	
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S
 SPGT1204AEN-K88	G	4	12,7	4,76	11°		1,5									☉	☉		
 SPKT1204AZN	K	4	12,7	4,76	11°		1,4	☉	☉	☉	☉	☉						☉	☉
 SPKT1504AZN	K	4	15,9	4,76	11°		1,7	☉				☉							
 SPMW1204AEN-A57	M	4	12,7	4,76	11°	0,5	1,4	☉	☉			☉	☉						
 SPMT1204AEN	M	4	12,7	4,76	11°	0,5	1,4	☉	☉	☉	☉	☉						☉	☉
 SDGT09T3AEN-F57	G	4	9,5	3,97	15°	0,3	1,2	☉	☉	☉	☉	☉						☉	☉
 SDGT09T3AEN-G88	G	4	9,5	3,97	15°	0,3	1,2									☉	☉		
 SDHW09T3AEN-A57	H	4	9,5	3,97	15°	0,3	1,2	☉	☉			☉	☉						
 SDMW09T3AEN-A57	M	4	9,5	3,97	15°	0,5	1,2	☉	☉			☉	☉						
 SDMT09T3AEN-D57	M	4	9,5	3,97	15°	0,5	1,2		☉	☉	☉	☉						☉	☉
 SEHW1204AFN	H	4	12,7	4,76	20°	0,8	2	☉	☉			☉	☉						
 SEHW1504AFN	H	4	15,9	4,76	20°	0,8	2,1	☉	☉			☉	☉						



 HC = Coated carbide
 HW = Uncoated carbide

/ ★ New addition to the product range

Positive square
SPGT / SPKT / SPMW / SPMT / SDGT
Tiger-tec® Silver

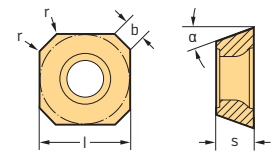


Indexable inserts




Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P				M		K		N		S	
								HC				HC		HC		HC	HW	HC	
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S
 SEHT1204AFN	H	4	12,7	4,76	20°	0,8	2	☒	☒	☒	☒								
 SEHT1204AFN-K88	H	4	12,7	4,76	20°	0,8	1,8										☒		

HC = Coated carbide
 HW = Uncoated carbide

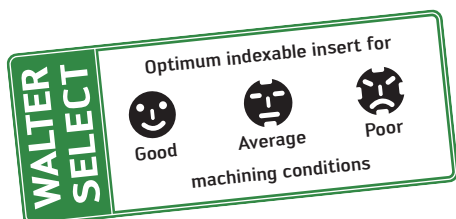
Positive square
SPJW / SPGT
Tiger-tec® Silver



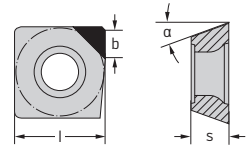
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P				M		K		S	
								HC				HC		HC		HC	HC
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WSM35S	WSP45S
 SPJW1204EDR	J	4	12,7	4,76	11°		1,4	☒	☒					☒	☒		
 SPJW1504EDR	J	4	15,9	4,76	11°		1,5	☒	☒					☒	☒		
 SPGT1204EDR-F55	G	4	12,7	4,76	11°	0,5	1,3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒



HC = Coated carbide



Positive square SPHW

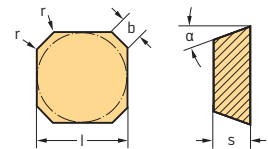


Indexable inserts






Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	b mm	P		M		K		N	S		
							HC	HC	HC	HC	DP	HC	HC			
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WCD10	WSM35S	WSP45S
 SPHW1204EDR-A88	H	1	12,7	4,76	11°	1,5								☺		
 SPHW1204PDR-A88	H	1	12,7	4,76	11°	1,5								☺		

HC = Coated carbide
DP = Polycrystalline diamond

Positive square SEKN / SEKR / SEMR Tiger-tec® Silver

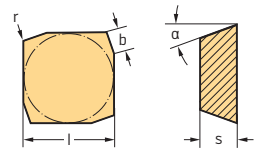


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P		M		K		S		
								HC	HC	HC	HC	HC	HC			
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WSM35S	WSP45S
 SEKN1203AFN	K	4	12,7	3,18	20°	0,63	1,9	☺	☺				☺	☺		
 SEKN1504AFN	K	4	15,9	4,76	20°	0,35	2	☺	☺				☺	☺		
 SEKR1203AFTN	K	4	12,7	3,18	20°	0,43	1,9		☺				☺			
 SEKR1204AFN	K	4	12,7	4,76	20°	0,34	1,9		☺				☺			
 SEMR1203AFTN	M	4	12,7	3,18	20°	0,5	1,9		☺				☺			

HC = Coated carbide

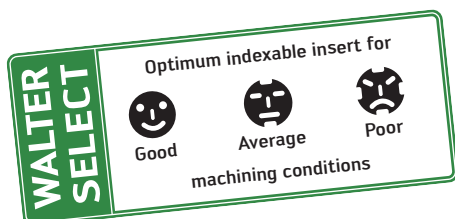
Positive square
SPFN / SPFR / SPKN / SPMN
Tiger-tec® Silver



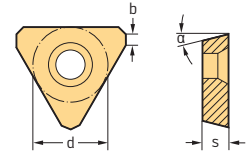
Indexable inserts

	Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	r mm	b mm	P			M			K			S	
									HC			HC			HC			HC	
									WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WSM35S	WSP45S	
	SPFN1204EDN	F	4	12,7	4,76	11°	0,5	1,7	☒	☒				☒	☒	☒			
	SPFN1204ZPN	F	4	12,7	4,76	11°	0,8	1,7	☒	☒				☒	☒	☒			
	SPFR1204EDR	F	4	12,7	4,76	11°	0,5	2	☒	☒				☒	☒	☒			
	SPFR1204ZPR	F	4	12,7	4,76	11°	0,8	1,7	☒	☒				☒	☒	☒			
	SPFR1204ZPN	F	4	12,7	4,76	11°	0,8	1,7		☒					☒				
	SPKN1203EDR	K	4	12,7	3,18	11°		1,4	☒	☒					☒	☒			
	SPKN1204EDR	K	4	12,7	4,76	11°		1,4	☒	☒				☒	☒	☒			
	SPKN1504EDR	K	4	15,9	4,76	11°		1,5		☒					☒				
	SPMN1203EDR	M	4	12,7	3,18	11°	0,2	1,4		☒					☒				



HC = Coated carbide



Positive triangular TPAW / TPJW Tiger-tec® Silver

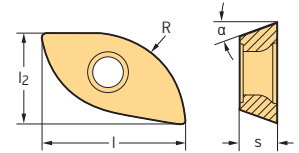


Indexable inserts



Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	b mm	P		M		K		S	
							HC		HC		HC		HC	
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S
 TPAW1604PPN TPAW2204PPN	A	3	9,52	4,76	11°	1,2	☉	☉			☉	☉		
	A	3	12,7	4,76	11°	1,2	☉	☉			☉	☉		
 TPJW1604PPN TPJW2204PPN	J	3	9,52	4,76	11°	1,2	☉	☉		☉	☉			
	J	3	12,7	4,76	11°	1,2	☉	☉		☉	☉			

HC = Coated carbide

Positive form inserts XDGT / XDMT Tiger-tec® Gold

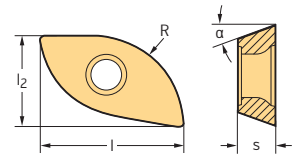


Indexable inserts



Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	R mm	P		M		K		S	
								HC		HC		HC		HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G
 XDGT1303080R-D57 XDGT16T3100R-D57 XDGT2004125R-D57 XDGT2405150R-D57 XDGT2506160R-D57 XDGT3207200R-D57 XDGT4009250R-D57	G	2	8,5	13,12	3	15°	8		☉	☉			☉	☉	
	G	2	9	15,93	3,74	15°	10		☉	☉			☉	☉	
	G	2	11,3	19,94	4,68	15°	12,5		☉	☉			☉	☉	
	G	2	13,5	23,94	5,62	15°	15		☉	☉			☉	☉	
	G	2	14,4	25,54	6	15°	16		☉	☉			☉	☉	
	G	2	18	31,95	7,5	15°	20		☉	☉			☉	☉	
	G	2	22,5	39,95	9,39	15°	25		☉	☉			☉	☉	
 XDGT1303079R-D57 XDGT16T3095R-D57 XDGT2004127R-D57 XDGT2506159R-D57 XDGT3207191R-D57 XDGT4009254R-D57	G	2	8,5	13,12	3	15°	7,84		☉	☉			☉	☉	
	G	2	9	15,93	3,74	15°	9,53		☉	☉			☉	☉	
	G	2	11,3	19,94	4,68	15°	12,7		☉	☉			☉	☉	
	G	2	14,4	25,54	6	15°	15,88		☉	☉			☉	☉	
	G	2	18	31,95	7,5	15°	19,05		☉	☉			☉	☉	
	G	2	22,5	39,95	9,39	15°	25,4		☉	☉			☉	☉	

HC = Coated carbide

Positive form inserts XDGT / XDMT Tiger-tec® Gold

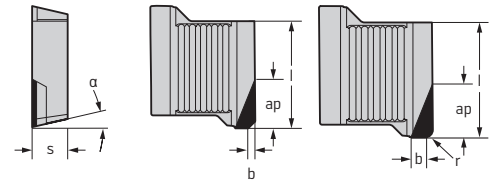


Indexable inserts




Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	R mm	P		M		K			S		
								HC		HC		HC			HC		
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35G	WKP35S	WSM35S
 XDMT1303080R-F55	M	2	8,5	13,12	3	15°	8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT16T3100R-F55	M	2	9	15,93	3,74	15°	10	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT2004125R-F55	M	2	11,3	19,94	4,68	15°	12,5	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT2405150R-F55	M	2	13,5	23,94	5,62	15°	15	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT2506160R-F55	M	2	14,4	25,54	6	15°	16	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT3207200R-F55	M	2	18	31,95	7,5	15°	20	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT4009250R-F55	M	2	22,5	39,95	9,39	15°	25	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
 XDMT1303079R-F55	M	2	8,5	13,12	3	15°	7,92	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT16T3095R-F55	M	2	9	15,93	3,74	15°	9,53	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT2004127R-F55	M	2	11,3	19,94	4,68	15°	12,7	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT2506159R-F55	M	2	14,4	25,54	6	15°	15,88	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT3207191R-F55	M	2	18	31,95	7,5	15°	19,05	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
XDMT4009254R-F55	M	2	22,5	39,95	9,39	15°	25,4	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗

HC = Coated carbide

PCD indexable inserts XOEN



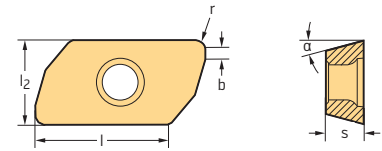
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	a _p mm	b mm	r mm	P		M		K		N	S
									HC		HC		HC		DP	HC
									WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WDN20
 XOEN12T308R-A-A88	E	1	12,11	4	13°	5	1,2	0,8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
 XOEN12T3AZR-A-A88	E	1	12,21	4	13°	5,1	0,8		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
 XOEN12T308R-F-A88	E	1	12,11	4	13°	10,3	1,2	0,8	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗

HC = Coated carbide
DP = Polycrystalline diamond

C2

Positive rhombic ZDGT



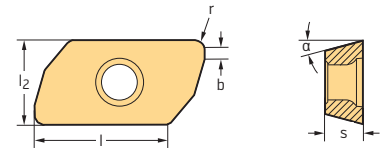
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P			M		K		N			S		O		
									HC			HC		HC		HC	HW	HF	HC		HF		
									WKP255	WKP355	WSP455	WSM355	WSP455	WKP255	WKP355	WXN15	WNN15	WK10	WMG40	WSM355	WSP455	WMG40	
ZDGT150404R-K85	G	2	10,5	16,2	4,76	15°	0,4	1,2									☺	☺	☺			☺	
ZDGT150408R-K85	G	2	10,5	16,2	4,76	15°	0,8	1,2									☺	☺	☺			☺	
ZDGT150412R-K85	G	2	10,5	16,2	4,76	15°	1,2	1,2									☺	☺	☺			☺	
ZDGT150416R-K85	G	2	10,5	16,2	4,76	15°	1,6	1,2									☺	☺	☺			☺	
ZDGT150420R-K85	G	2	10,5	16,2	4,76	15°	2	1,2									☺	☺	☺			☺	
ZDGT150425R-K85	G	2	10,5	16,2	4,76	15°	2,5	1,2									☺	☺	☺			☺	
ZDGT150430R-K85	G	2	10,5	16,2	4,76	15°	3	1,2									☺	☺	☺			☺	
ZDGT150440R-K85	G	2	10,5	16,2	4,76	15°	4	1,2									☺	☺	☺			☺	
ZDGT200508R-K85	G	2	14	21,2	5,56	15°	0,8	1,2										☺	☺	☺			☺
ZDGT200512R-K85	G	2	14	21,2	5,56	15°	1,2	1,2										☺	☺	☺			☺
ZDGT200516R-K85	G	2	14	21,2	5,56	15°	1,6	1,2										☺	☺	☺			☺
ZDGT200520R-K85	G	2	14	21,2	5,56	15°	2	1,2										☺	☺	☺			☺
ZDGT200530R-K85	G	2	14	21,2	5,56	15°	3	1,2										☺	☺	☺			☺
ZDGT200540R-K85	G	2	14	21,2	5,56	15°	4	1,2										☺	☺	☺			☺
ZDGT200550R-K85	G	2	14	21,2	5,56	15°	5	1,2										☺	☺	☺			☺
ZDGT200560R-K85	G	2	14	21,2	5,56	15°	6	1,2										☺	☺	☺			☺
ZDGT200564R-K85	G	2	14	21,2	5,56	15°	6,4	1,2										☺	☺	☺			☺

ZDGT1504 and ZDGT2005 can be used in the M2131 ramping milling cutter

 HC = Coated carbide
 HW = Uncoated carbide
 HF = Uncoated fine-grained carbide

Positive rhombic ZDGT

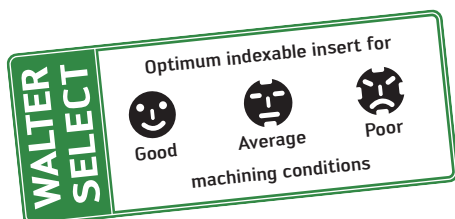


Indexable inserts

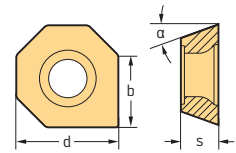
Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	α	r mm	b mm	P		M		K		N		S		O		
									HC		HC		HC		HF		HC		HF		
									WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WMG40	WSM35S	WSP45S	WMG40	WSM35S	WSP45S
ZDGT15A404R-K85	G	2	10,5	16,2	4,76	15°	0,4	1,2													
ZDGT15A408R-K85	G	2	10,5	16,2	4,76	15°	0,8	1,2													
ZDGT15A412R-K85	G	2	10,5	16,2	4,76	15°	1,2	1,2													
ZDGT15A416R-K85	G	2	10,5	16,2	4,76	15°	1,6	1,2													
ZDGT15A420R-K85	G	2	10,5	16,2	4,76	15°	2	1,2													
ZDGT15A425R-K85	G	2	10,5	16,2	4,76	15°	2,5	1,2													
ZDGT15A430R-K85	G	2	10,5	16,2	4,76	15°	3	1,2													
ZDGT15A440R-K85	G	2	10,5	16,2	4,76	15°	4	1,2													
ZDGT20A508R-K85	G	2	14	21,2	5,56	15°	0,8	1,2													
ZDGT20A512R-K85	G	2	14	21,2	5,56	15°	1,2	1,2													
ZDGT20A516R-K85	G	2	14	21,2	5,56	15°	1,6	1,2													
ZDGT20A520R-K85	G	2	14	21,2	5,56	15°	2	1,2													
ZDGT20A530R-K85	G	2	14	21,2	5,56	15°	3	1,2													
ZDGT20A540R-K85	G	2	14	21,2	5,56	15°	4	1,2													
ZDGT20A550R-K85	G	2	14	21,2	5,56	15°	5	1,2													
ZDGT20A560R-K85	G	2	14	21,2	5,56	15°	6	1,2													
ZDGT20A564R-K85	G	2	14	21,2	5,56	15°	6,4	1,2													

ZDGT15A4 and ZDGT20A5 can be used in the M2131 and M2331 ramping milling cutters




HC = Coated carbide
HF = Uncoated fine-grained carbide



Finishing inserts ODHX Tiger-tec® Gold



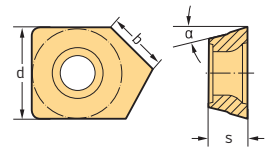
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	b mm	P			M		K			S		H	O
							HC			HC		HC			HC		HC	HC
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35G	WKP35S	WSM35S	WSP45S
 ODHX0504ZZR-A57	H	1	12,7	4,76	15°	7,2	☉	☉	☉			☉	☉	☉			☉	☉
ODHX0605ZZR-A57	H	1	15,88	5,56	15°	9,4	☉	☉				☉	☉	☉			☉	☉
 ODHX0605ZZN-A57	H	8	15,88	5,56	15°	6						☉					☉	☉
 ODHX0605ZZN-A88	H	8	15,88	5,56	15°	6						☉					☉	☉

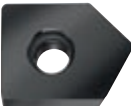
* ZZN for κ = 45° only

HC = Coated carbide

Positive square SDHX Tiger-tec®

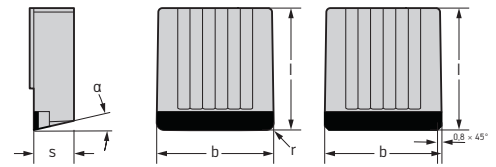


Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	b mm	P			M		K			S		H	O
							HC			HC		HC			HC		HC	HC
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WSM35S	WSP45S	WHH15	WXM15
 SDHX09T3AZR-A88	H	1	9,52	3,97	15°	5,6						☉					☉	☉
SDHX1204AZR-A88	H	1	12,7	4,76	15°	7,5						☉					☉	☉

HC = Coated carbide

PCD finishing inserts XOEX



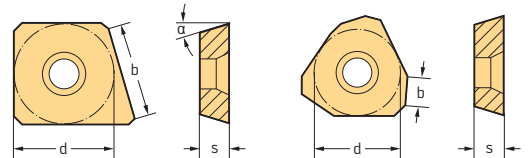
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	α	b mm	P		M		K		N		S	
							HC	HC	HC	HC	DP	HC	HC			
XOEX12T3AZR-F-A88	E	1	12,16	4	13°	11,8	WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WDN20	WSM35S	WSP45S
XOEX12T308N-F-A88	E	1	12,16	4	13°	11,8										

HC = Coated carbide
DP = Polycrystalline diamond

Finishing inserts P2901 / P2903 / P2905 / SPHX

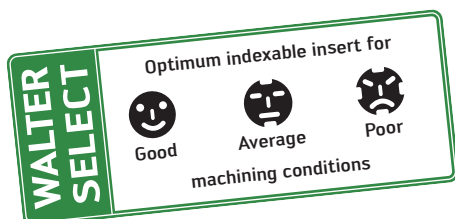
Tiger-tec®



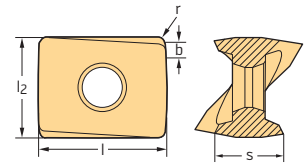
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	α	b mm	P		M		K		N		S		H	O		
							HC	HC	HC	HC	HW	DP	HC	HC	HC	HC				
P2901-1R	H	1	12,7	4,76	11°	11	WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKP25S	WKP35S	WK10	WCD10	WSM35S	WSP45S	WHH15	WXM15
P2903-2R	A	3	9,52	4,76	11°	3,5														
P2905-1	F	4	12,7	4,76	11°	10														
SPHX1204PDR-A88	H	1	12,7	4,76	11°	3,5														

HC = Coated carbide
HW = Uncoated carbide
DP = Polycrystalline diamond



Negative rhombic LNGX Tiger-tec® Gold

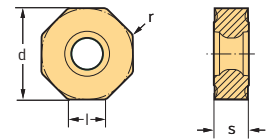


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P				M		K				N		S		
								HC				HC		HC				HC	HW	HC		
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S
LNGX130708R-L55	G	4	11	13,7	7,74	0,8	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺			☺	☺
LNGX130712R-L55	G	4	11	13,7	7,74	1,2	1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺			☺	☺
LNGX130716R-L55	G	4	11	13,7	7,74	1,6	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺			☺	☺
LNGX130720R-L55	G	4	11	13,7	7,74	2	0,7	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺			☺	☺
LNGX130725R-L55	G	4	11	13,7	7,74	2,5	0,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺			☺	☺
LNGX130730R-L55	G	4	11	13,7	7,74	3	0,7	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺			☺	☺
LNGX130708R-L88	G	4	11	13,7	7,74	0,8	1,2												☺	☺		
LNGX130720R-L88	G	4	11	13,7	7,74	2	0,7												☺	☺		
LNGX130730R-L88	G	4	11	13,7	7,74	3	0,7												☺	☺		

HC = Coated carbide
HW = Uncoated carbide

Negative octagonal ONHU / ONMU Tiger-tec® Gold



Indexable inserts

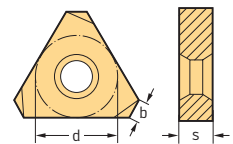
Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	P				M		K				N		S			
							HC				HC		HC				HC	HW	HC			
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S	
ONHU050408-F57	H	16	12,7	5,26	4,86	0,8	☺	☺	☺	☺	☺	☺				☺	☺				☺	
ONHU050408-F67	H	16	12,7	5,26	4,86	0,8	☺	☺	☺	☺	☺	☺				☺	☺				☺	☺
ONMU050408-D57	M	16	12,7	5,26	4,86	0,8	☺	☺	☺	☺	☺	☺				☺	☺				☺	☺

HC = Coated carbide
HW = Uncoated carbide




☺ / ★ New addition to the product range

Wendelnovex® inserts
P2352 / P23522 / P2372

Tiger-tec® Silver



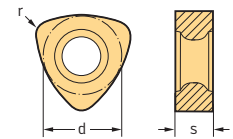
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	b mm	P			M		K			N		S	
						HC			HC		HC			HC	HW	HC	
						WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S
 P2352-1R P2352-2R	A	6	15	4,5	1,1	☉	☉					☉	☉				
	A	6	18	4,5	1,1		☉					☉					
 P23522-1R	A	6	15	4,5	1,1		☉					☉					
 P2372-1R	A	6	15	4,5	1,1		☉					☉					


HC = Coated carbide
HW = Uncoated carbide

Negative triangular
P23696

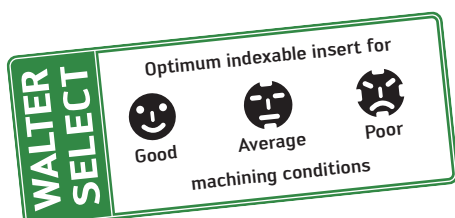
Tiger-tec® Gold



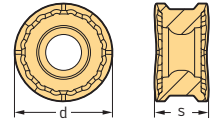
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	s mm	r mm	P			M		K			N		S	
						HC			HC		HC			HC	HW	HC	
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15
 P23696-1.0 P23696-2.0	M	6	9,52	5	1,2	☉	☉	☉	☉	☉						☉	☉
	M	6	13,5	7	1,6	☉	☉	☉	☉	☉						☉	☉


HC = Coated carbide
HW = Uncoated carbide



Negative round RNMX Tiger-tec® Silver

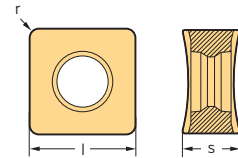


Indexable inserts









Designation	Tolerance class	Number of cutting edges	d mm	s mm	P		M		K			N		S	
					HC		HC		HC			HC	HW	HC	
					WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10
 RNMX1206M0-D57	M	8	12	6,48											
RNMX1206M0-F67	M	8	12	6,48											

HC = Coated carbide
HW = Uncoated carbide

Negative square SNGX / SNMX Tiger-tec® Gold



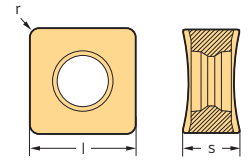
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	P		M		K			N		S	
						HC		HC		HC			HC	HW	HC	
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S
 SNGX120512-F57	G	8	12,7	6,4	1,2											
 SNMX120512-D27	M	8	12,7	6,4	1,2											
 SNMX120520-D27	M	8	12,7	6,4	2											
 SNMX160620-D27	M	8	16	7,8	2											
 SNMX160640-D27	M	8	16	7,8	4											
 SNMX090408-F27	M	8	9,52	5,11	0,8											
 SNMX120512-F27	M	8	12,7	6,4	1,2											
 SNMX160620-F27	M	8	16	7,8	2											



HC = Coated carbide
HW = Uncoated carbide

 / ★ New addition to the product range

Negative square SNGX / SNMX Tiger-tec® Gold

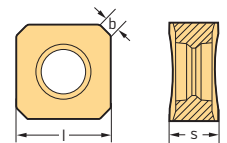


Indexable inserts




Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	P				M		K				N		S	
						HC				HC		HC				HC	HW	HC	
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
 SNMX090408-F57	M	8	9,52	5,11	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SNMX120512-F57	M	8	12,7	6,4	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SNMX120520-F57	M	8	12,7	6,4	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SNMX160620-F57	M	8	16	7,8	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SNMX160640-F57	M	8	16	7,8	4	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
 SNMX090408-F67	M	8	9,52	5,11	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SNMX120512-F67	M	8	12,7	6,4	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

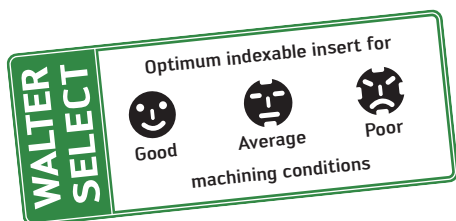
Negative square SNGX / SNHX / SNMX Tiger-tec® Gold



Indexable inserts

Designation	Number of cutting edges	l mm	s mm	b mm	P				M		K				N		S	
					HC				HC		HC				HC	HW	HC	
					WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
 SNGX1205ANN-F27	8	12,7	6,4	1,5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
 SNGX0904ANN-F57	8	9,52	5,11	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SNGX1205ANN-F57	8	12,7	6,4	1,5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SNGX1606ANN-F57	8	16	7,7	1,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
 SNGX0904ANN-F67	8	9,52	5,11	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SNGX1205ANN-F67	8	12,7	6,4	1,5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

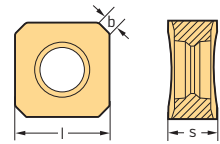
HC = Coated carbide
HW = Uncoated carbide



C2

Negative square SNGX / SNHX / SNMX

Tiger-tec® Gold



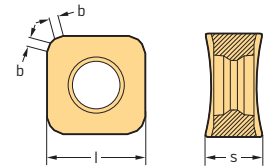
Indexable inserts

	Designation	Number of cutting edges	l mm	s mm	b mm	P				M		K				N		S	
						HC				HC		HC				HC	HW	HC	
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
	SNHX0904ANN-K88	8	9,52	5,11	1,5											☺	☺		
	SNHX1205ANN-K88	8	12,7	6,4	1,5											☺	☺		
	SNMX0904ANN-F27	8	9,52	5,11	1,2	☺	☺	☺					☺	☺	☺				
	SNMX1205ANN-F27	8	12,7	6,4	1,5	☺	☺	☺					☺	☺	☺				
	SNMX0904ANN-F57	8	9,52	5,11	1,2	☺	☺	☺				☺	☺	☺	☺				
	SNMX1205ANN-F57	8	12,7	6,4	1,5	☺	☺	☺				☺	☺	☺	☺				
	SNMX0904ANN-F67	8	9,52	5,11	1,2	☺	☺	☺			☺	☺	☺	☺					
	SNMX1205ANN-F67	8	12,7	6,4	1,5	☺	☺	☺			☺	☺	☺	☺					

HC = Coated carbide
HW = Uncoated carbide

Negative square SNGX

Tiger-tec® Gold



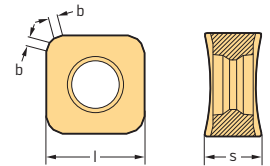
Indexable inserts

	Designation	Number of cutting edges	l mm	s mm	b mm	P				M		K				N		S	
						HC				HC		HC				HC	HW	HC	
						WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
	SNGX1205ENN-F27	8	12,7	6,4	1,2	☺	☺	☺					☺	☺	☺				
	SNGX1205ENN-F57	8	12,7	6,4	1,2	☺	☺	☺	☺	☺	☺		☺	☺	☺			☺	☺

HC = Coated carbide
HW = Uncoated carbide

☺ ☺ ☺ / ★ New addition to the product range

**Negative square
SNGX
Tiger-tec® Gold**

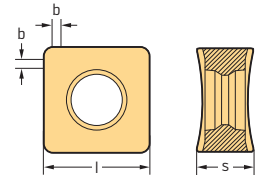


Indexable inserts

Designation	Number of cutting edges	l mm	s mm	b mm	P				M		K				N		S	
					HC				HC		HC				HC	HW	HC	
					WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
SNGX1205ENN-F67	8	12,7	6,4	1,2	☺	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	

HC = Coated carbide
HW = Uncoated carbide

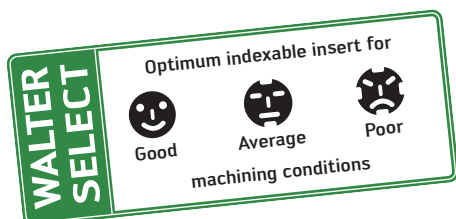
**Negative square
SNGX
Tiger-tec® Gold**



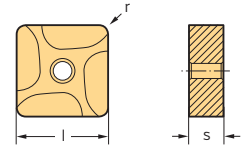
Indexable inserts

Designation	Number of cutting edges	l mm	s mm	b mm	P				M		K				N		S	
					HC				HC		HC				HC	HW	HC	
					WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
SNGX1205ZNN-F27	8	12,7	6,4	1,2	☺	☹	☹				☹	☹	☹					
SNGX1205ZNN-F57	8	12,7	6,4	1,2	☺	☹	☹	☹	☹	☹	☹	☹	☹				☹	
SNGX1205ZNN-F67	8	12,7	6,4	1,2	☺	☹	☹	☹	☹	☹	☹	☹	☹				☹	

HC = Coated carbide
HW = Uncoated carbide



Negative square SNEF Tiger-tec® Gold

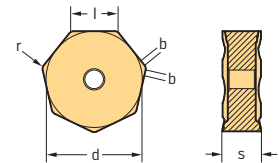


Indexable inserts

	Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P				M		K				N		S			
								HC				HC		HC				HC	HW	HC			
								WKP255	WKP356	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP356	WKP355	WXN15	WK10	WSM355	WSP455	
	SNEF120408R-B67	E	8	12,7	4,76	0,8	2,1								☉	☉	☉	☉					
	SNEF120408R-D67	E	8	12,7	4,76	0,8	2,1							☉	☉	☉	☉						

HC = Coated carbide
HW = Uncoated carbide

Negative heptagonal XNHF / XNMF Tiger-tec® Gold



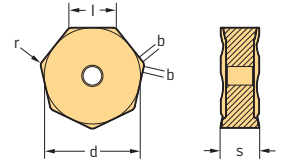
Indexable inserts

	Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	P				M		K				N		S			
								HC				HC		HC				HC	HW	HC			
								WKP255	WKP356	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP356	WKP355	WXN15	WK10	WSM355	WSP455	
	XNHF070508-D27	H	14	14,5	7	5,8	0,8								☉	☉	☉	☉					
	XNHF090612-D27	H	14	19,05	9	6,35	1,2								☉	☉	☉	☉					
	XNHF070508-D57	H	14	14,5	7	5,8	0,8								☉	☉	☉	☉					
	XNHF090612-D57	H	14	19,05	9	6,35	1,2								☉	☉	☉	☉					
	XNHF070508-D67	H	14	14,5	7	5,8	0,8							☉	☉	☉	☉						
	XNHF090612-D67	H	14	19,05	9	6,35	1,2							☉	☉	☉	☉						
	XNMF070508-D27	M	14	14,5	7	5,8	0,8								☉	☉	☉	☉					
	XNMF090612-D27	M	14	19,05	9	6,35	1,2								☉	☉	☉	☉					

HC = Coated carbide
HW = Uncoated carbide

☉ ☉ ☉ / ★ New addition to the product range

Negative heptagonal XNHF / XNMF Tiger-tec® Gold

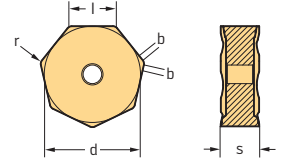


Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	P			M		K				N		S	
							HC			HC		HC				HC	HW	HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10
XNMF070508-D57	M	14	14,5	7	5,8	0,8						☉	☉	☉	☉				
	XNMF090612-D57	M	14	19,05	9	6,35	1,2						☉	☉	☉	☉			
XNMF070508-F57	M	14	14,5	7	5,8	0,8						☉	☉	☉	☉				
	XNMF090612-F57	M	14	19,05	9	6,35	1,2						☉	☉	☉	☉			

HC = Coated carbide
HW = Uncoated carbide

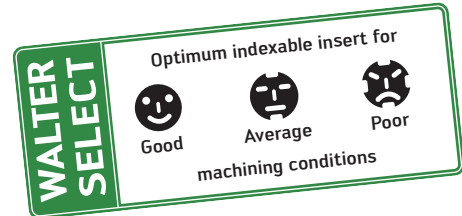
Negative heptagonal XNHF Tiger-tec® Gold



Indexable inserts

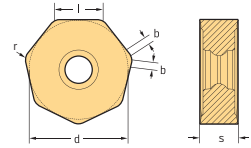
Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	b mm	P			M		K				N		S	
								HC			HC		HC				HC	HW	HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10
XNHF0705ANN-D27	H	14	14,5	7	5,8	0,8	1,1						☉	☉	☉	☉				
	XNHF0906ANN-D27	H	14	19,05	9	6,35	0,8	1,4						☉	☉	☉	☉			
XNHF0705ANN-D57	H	14	14,5	7	5,8	0,8	1,1						☉	☉	☉	☉				
	XNHF0906ANN-D57	H	14	19,05	9	6,35	0,8	1,4						☉	☉	☉	☉			
XNHF0705ANN-D67	H	14	14,5	7	5,8	0,8	1,1						☉	☉	☉	☉				
	XNHF0906ANN-D67	H	14	19,05	9	6,35	0,8	1,4						☉	☉	☉	☉			

HC = Coated carbide
HW = Uncoated carbide



Negative heptagonal XNGU / XNMU

Tiger-tec® Gold



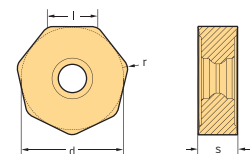
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	b mm	P				M		K				N		S		
								HC	HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HC			
XNGU0705ANN-F57	G	14	14,5	6,98	4,6	0,8	1,1	☉	☉	☉	☉	☉				☉	☉	☉				
								☉	☉	☉	☉	☉				☉	☉	☉				
XNGU0705ANN-F67	G	14	14,5	6,98	4,6	0,8	1,1	☉	☉	☉	☉	☉				☉	☉	☉				
								☉	☉	☉	☉	☉				☉	☉	☉				
XNMU0705ANN-F27	M	14	14,5	6,98	4,6	0,8	1,1	☉	☉	☉						☉	☉	☉	☉			
								☉	☉	☉					☉	☉	☉	☉				
XNMU0906ANN-F27	M	14	19,05	9,18	5,88	0,8	1,4	☉	☉	☉	☉					☉	☉	☉	☉			
								☉	☉	☉	☉				☉	☉	☉	☉				
XNMU0705ANN-F57	M	14	14,5	6,98	4,6	0,8	1,1	☉	☉	☉	☉	☉				☉	☉	☉	☉			☉
								☉	☉	☉	☉	☉				☉	☉	☉	☉			
XNMU0906ANN-F57	M	14	19,05	9,18	5,88	0,8	1,4	☉	☉	☉	☉	☉				☉	☉	☉	☉			☉
								☉	☉	☉	☉	☉				☉	☉	☉	☉			
XNMU0705ANN-F67	M	14	14,5	6,98	4,6	0,8	1,1	☉	☉	☉	☉	☉				☉	☉	☉	☉			☉
								☉	☉	☉	☉	☉				☉	☉	☉	☉			
XNMU0906ANN-F67	M	14	19,05	9,18	5,88	0,8	1,4	☉	☉	☉	☉	☉				☉	☉	☉	☉			☉
								☉	☉	☉	☉	☉				☉	☉	☉	☉			

HC = Coated carbide
HW = Uncoated carbide

Negative heptagonal XNMU

Tiger-tec® Gold



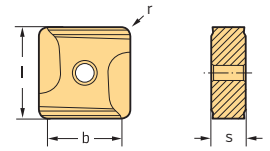
Indexable inserts

Designation	Tolerance class	Number of cutting edges	d mm	l mm	s mm	r mm	P				M		K				N		S		
							HC	HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HC			
XNMU070508-F57	M	14	14,5	6,98	4,6	0,8	☉	☉	☉	☉	☉				☉	☉	☉	☉			
XNMU090612-F57	M	14	19,05	9,18	5,88	1,2	☉	☉	☉	☉	☉				☉	☉	☉	☉			☉

HC = Coated carbide
HW = Uncoated carbide

☉ ☉ ☉ / ★ New addition to the product range

Finishing inserts SNEF Tiger-tec®

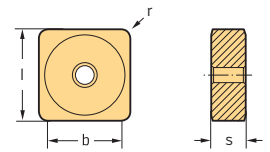


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P		M		K		N		S		H				
							HC	HC	HC	HC	HC	HW	HC	HC	HC						
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S	WHH15	
SNEF1204PNR-B67	E	4	12,7	4,76	0,8	10,8						☺									☺

HC = Coated carbide
HW = Uncoated carbide

Finishing inserts SNEF Tiger-tec®

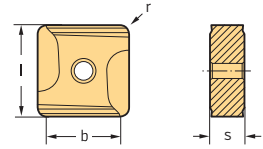


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P		M		K		N		S		H				
							HC	HC	HC	HC	HC	HW	HC	HC	HC						
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S	WHH15	
SNEF1204PNN-A27	E	8	12,7	4,76	1,2	10,3						☺									☺

HC = Coated carbide
HW = Uncoated carbide

Finishing inserts SNEX Tiger-tec®

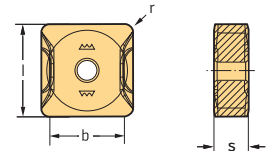


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P			M		K			N		S		H
							WKP255	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP355	WXN15	WK10	WSM355	WSP455
SNEX1204PNR-B67	E	4	12,7	4,76	0,8	10,8													

HC = Coated carbide
HW = Uncoated carbide

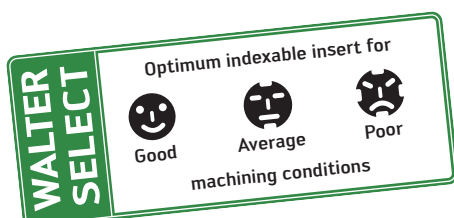
Finishing inserts SNEX Tiger-tec®



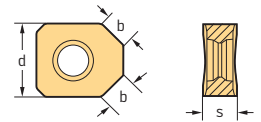
Indexable inserts


Designation	Tolerance class	Number of cutting edges	l mm	s mm	r mm	b mm	P			M		K			N		S		H
							WKP255	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP355	WXN15	WK10	WSM355	WSP455
SNEX1204PNN-A27	E	4	12,7	4,76	1,2	10,3													

HC = Coated carbide
HW = Uncoated carbide



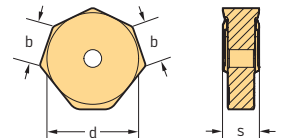
Finishing inserts XNGX Tiger-tec®




Indexable inserts							P		M		K			N		S		H	O		
							HC		HC		HC			HC HW		HC		HC	HC		
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S	WHH15	WXM15
Designation	Tolerance class	Number of cutting edges	d mm	s mm	b mm																
																					
	XNGX0904ANN-F67	G	2	9,52	5,27	5					☺										
	XNGX1205ANN-F67	G	2	12,7	6,02	4,7					☺									☺	

HC = Coated carbide
HW = Uncoated carbide

Finishing inserts XNHX Tiger-tec®

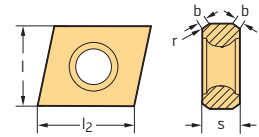


Indexable inserts							P		M		K			N		S		H		
							HC		HC		HC			HC HW		HC		HC		
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S	WHH15
Designation	Tolerance class	Number of cutting edges	d mm	s mm	b mm															
																				
	XNHX0906ANN-D67	H	4	19,05	6,35	7,5					☺									




HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic CNHQ / CNHU / CNMU

Tiger-tec® Silver



Indexable inserts

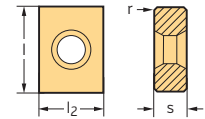
Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P				M		K			N		S	
								HC				HC		HC			HC	HW	HC	
								WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSP45S
 CNHQ0805PPN-A57T	H	2	9	8	5	0,8	1,2	☉	☉					☉	☉					
	CNHQ1206PPN-A57T	H	2	13	12	6,5	0,8	1,5	☉	☉				☉	☉					
	CNHQ1608PPN-A57T	H	2	15	16	8	1,2	1,8	☉					☉						
 CNHU0805PPN-D57T	H	2	9	8	5	0,8	1,2	☉	☉	☉	☉			☉	☉				☉	
	CNHU1206PPN-D57T	H	2	13	12	6,5	0,8	1,5	☉	☉	☉	☉		☉	☉				☉	
	CNHU1608PPN-D57T	H	2	15	16	8	1,2	1,8	☉	☉	☉	☉		☉					☉	
 CNMU080508-D57T	M	2	9	8	5	0,8			☉	☉	☉	☉			☉	☉			☉	
	CNMU120608-D57T	M	2	13	12	6,5	0,8		☉	☉	☉	☉			☉	☉			☉	
	CNMU160812-D57T	M	2	15	16	8	1,2		☉	☉	☉	☉			☉				☉	

 Note: l₂ = Width of cut



 HC = Coated carbide
 HW = Uncoated carbide

Tangential rhombic LNMU

Tiger-tec® Gold

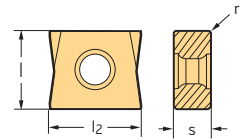


Indexable inserts





Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P				M		K			N		S	
							HC				HC		HC			HC	HW	HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10
 LNMU150812T-F27T	M	4	14	15	8	1,2		☉	☉	☉				☉	☉				
	LNMU201012T-F27T	M	4	16	20	10	1,2		☉	☉				☉	☉				
 LNMU150812-F57T	M	4	14	15	8	1,2		☉	☉	☉	☉			☉	☉			☉	
	LNMU201012-F57T	M	4	16	20	10	1,2		☉	☉	☉	☉			☉			☉	

 HC = Coated carbide
 HW = Uncoated carbide

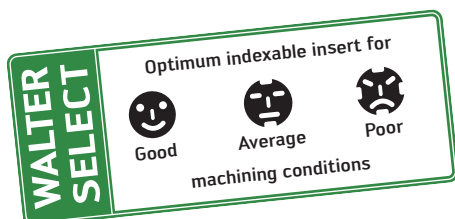
Tangential rhombic LNHU / LNMU Tiger-tec® Gold



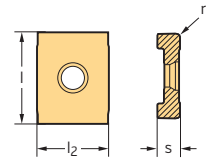
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P				M		K				N		S	
							HC				HC		HC				HC	HW	HC	
							WKP255	WKP356	WKP355	WSP455	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP356	WKP355	WXN15	WK10	WSM35S
 LNHU080304-B57T	H	4	9	8	3,5	0,4	☒	☒	☒			☒	☒	☒	☒					
LNHU080404-B57T	H	4	9,4	8	4,5	0,4	☒	☒	☒			☒	☒	☒	☒					
LNHU100508-B57T	H	4	12,3	10	5,5	0,8	☒	☒	☒			☒	☒	☒	☒					
LNHU120608-B57T	H	4	13,9	12	6,5	0,8	☒	☒	☒			☒	☒	☒	☒					
LNHU160812-B57T	H	4	16,9	16	8	1,2	☒	☒	☒			☒	☒	☒	☒					
 LNHU080304-F57T	H	4	9	8	3,5	0,4	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	
LNHU080404-F57T	H	4	9,4	8	4,5	0,4	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	
LNHU100508-F57T	H	4	12,3	10	5,5	0,8	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	
LNHU120608-F57T	H	4	13,9	12	6,5	0,8	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	
LNHU160812-F57T	H	4	16,9	16	8	1,2	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	
 LNMU080304-B57T	M	4	9	8	3,5	0,4		☒	☒				☒	☒	☒					
LNMU080404-B57T	M	4	9,4	8	4,5	0,4		☒	☒				☒	☒	☒					
LNMU100508-B57T	M	4	12,3	10	5,5	0,8		☒	☒				☒	☒	☒					
LNMU120608-B57T	M	4	13,9	12	6,5	0,8		☒	☒				☒	☒	☒					
LNMU160812-B57T	M	4	16,9	16	8	1,2		☒	☒				☒	☒	☒					
 LNMU080304-F57T	M	4	9	8	3,5	0,4	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	
LNMU080404-F57T	M	4	9,4	8	4,5	0,4	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	
LNMU100508-F57T	M	4	12,3	10	5,5	0,8	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	
LNMU120608-F57T	M	4	13,9	12	6,5	0,8	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	
LNMU160812-F57T	M	4	16,9	16	8	1,2	☒	☒	☒	☒	☒		☒	☒	☒			☒	☒	




HC = Coated carbide
HW = Uncoated carbide



Tangential rhombic LNHX / LNMX Tiger-tec® Gold

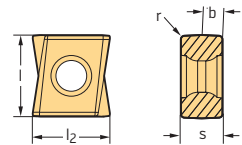


Indexable inserts


Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P				M		K				N		S	
							HC				HC		HC				HC	HW	HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
 LNHX070204-F57T	H	4	7	9	2,4	0,4	☺	☺	☺	☺	☺	☺		☺	☺	☺			☺	☺
 LNMX070204-D57T	M	4	7	9	2,4	0,4		☺	☺				☺	☺	☺					
 LNMX070204-F57T	M	4	7	9	2,4	0,4	☺	☺	☺	☺			☺	☺	☺				☺	

HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic LNHU / LNMU Tiger-tec® Gold



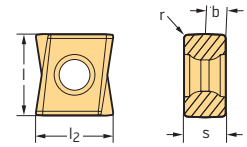
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P				M		K				N		S	
								HC				HC		HC				HC	HW	HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
 LNHU090404R-L55T	H	4	8,5	9	4,5	0,4	1,5	☺	☺	☺	☺	☺	☺	☺					☺	☺	
LNHU090408R-L55T	H	4	8,5	9	4,5	0,8	1,1	☺	☺	☺	☺	☺	☺	☺					☺	☺	
LNHU090412R-L55T	H	4	8,5	9	4,5	1,2	0,8		☺	☺	☺	☺	☺	☺					☺	☺	
LNHU090416R-L55T	H	4	8,5	9	4,5	1,6			☺	☺	☺	☺	☺	☺					☺	☺	
LNHU090420R-L55T	H	4	8,5	9	4,5	2			☺	☺	☺	☺	☺	☺					☺	☺	
LNHU130608R-L55T	H	4	12	13	6,8	0,8	2,2	☺	☺	☺	☺	☺	☺	☺					☺	☺	
LNHU130612R-L55T	H	4	12	13	6,8	1,2	1,9		☺	☺	☺	☺	☺	☺					☺	☺	
LNHU130616R-L55T	H	4	12	13	6,8	1,6	1,5		☺	☺	☺	☺	☺	☺					☺	☺	
LNHU130620R-L55T	H	4	12	13	6,8	2	1,2		☺	☺	☺	☺	☺	☺					☺	☺	
LNHU130625R-L55T	H	4	12	13	6,8	2,5	0,7		☺	☺	☺	☺	☺	☺					☺	☺	
LNHU130630R-L55T	H	4	12	13	6,8	3			☺	☺	☺	☺	☺	☺					☺	☺	
LNHU130632R-L55T	H	4	12	13	6,8	3,2			☺	☺	☺	☺	☺	☺					☺	☺	
LNHU160708R-L55T	H	4	15,5	16	7,2	0,8	2,3	☺	☺	☺	☺	☺	☺	☺					☺	☺	
LNHU160712R-L55T	H	4	15,5	16	7,2	1,2	1,9		☺	☺	☺	☺	☺	☺					☺	☺	
LNHU160716R-L55T	H	4	15,5	16	7,2	1,6	1,6		☺	☺	☺	☺	☺	☺					☺	☺	

HC = Coated carbide
HW = Uncoated carbide

☺ / ★ New addition to the product range

Tangential rhombic LNHU / LNMU Tiger-tec® Gold

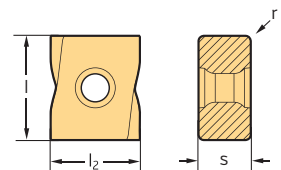


Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P				M		K				N		S	
								HC				HC		HC				HC	HW	HC	
								WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
LNHU160720R-L55T	H	4	15,5	16	7,2	2	1,2	⊗	⊗	⊗	⊗	⊗	⊗						⊗	⊗	
LNHU160725R-L55T	H	4	15,5	16	7,2	2,5	0,8	⊗	⊗	⊗	⊗	⊗							⊗	⊗	
LNMU090404R-L55T	M	4	8,5	9	4,5	0,4	1,5	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				⊗	
LNMU130608R-L55T	M	4	12	13	6,8	0,8	2,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗					⊗	
LNHU090404R-L65T	H	4	8,5	9	4,5	0,4	1,5				⊗	⊗								⊗	
LNHU130608R-L65T	H	4	12	13	6,8	0,8	2,2				⊗	⊗								⊗	
LNHU160708R-L65T	H	4	15,5	16	7,2	0,8	2,3				⊗	⊗								⊗	
LNHU090404R-L85T	H	4	8,5	9	4,5	0,4	1,5										⊗	⊗			
LNHU130608R-L85T	H	4	12	13	6,8	0,8	2,2										⊗	⊗			
LNHU160708R-L85T	H	4	15,5	16	7,2	0,8	2,3										⊗	⊗			

HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic LNMX Tiger-tec® Gold



Indexable inserts

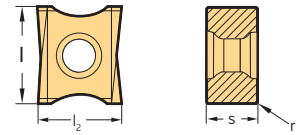
Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P				M		K				N		S	
							HC				HC		HC				HC	HW	HC	
							WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
LNMX201012R-F27T	M	4	17,05	20	10	1,2	⊗	⊗	⊗											
LNMX201012R-F57T	M	4	17,05	20	10	1,2	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗					⊗

HC = Coated carbide
HW = Uncoated carbide



C2

Tangential rhombic LNHX Tiger-tec® Silver



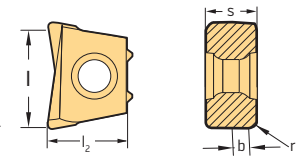
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P			M			K			N		S		
							HC			HC			HC			HC	HW	HC		
							WKP25S	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSM45X
LNHX120604R-L65T	H	4	11	12,7	6,8	0,4														



HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic XNHX Tiger-tec® Silver



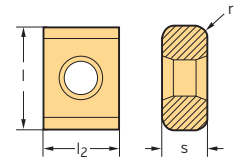
Indexable inserts

Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	b mm	P			M			K			N		S		
								HC			HC			HC			HC	HW	HC		
								WKP25S	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSM45X
XNHX130608R-L65T	H	2	10,5	14	6,8	0,8	2														
XNHX130612R-L65T	H	2	10,5	14	6,8	1,2	2														
XNHX130616R-L65T	H	2	10,5	14	6,8	1,6	2														
XNHX130620R-L65T	H	2	10,5	14	6,8	2	2														
XNHX130624R-L65T	H	2	10,5	14	6,8	2,4	2														
XNHX130630R-L65T	H	2	10,5	14	6,8	3	1,4														
XNHX130632R-L65T	H	2	10,5	14	6,8	3,2	1,3														
XNHX130640R-L65T	H	2	10,5	14	6,8	4	0,5														



HC = Coated carbide
HW = Uncoated carbide

Tangential rhombic P44280 / P44290 Tiger-tec® Silver

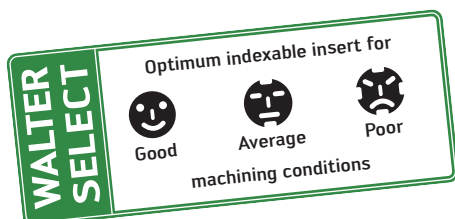


Indexable inserts

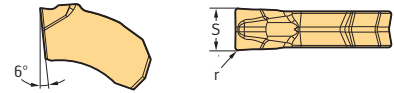
Designation	Tolerance class	Number of cutting edges	l ₂ mm	l mm	s mm	r mm	P			M		K			N		S	
							HC			HC		HC			HC	HW	HC	
							WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S
P44280-1R08-D57	H	8	9,52	12,7	5,5	0,8	☺			☺			☺					☺
P44280-1R10-D57	H	8	9,52	12,7	5,5	1	☺			☺			☺					☺
P44280-1R125-D57	H	8	9,52	12,7	5,5	1,25	☺			☺			☺					☺
P44280-1R15-D57	H	8	9,52	12,7	5,5	1,5				☺								☺
P44280-1R20-D57	H	8	9,52	12,7	5,5	2	☺			☺			☺					☺
P44280-2R25-D57	H	8	9,52	12,7	6,35	2,5	☺			☺			☺					☺
P44280-2R30-D57	H	8	9,52	12,7	6,35	3	☺			☺			☺					☺
P44280-2R40-D57	H	4	9,52	12,7	6,35	4				☺								☺
P44290-1R08-D57	M	8	9,52	12,7	5,5	0,8	☺						☺					
P44290-1R10-D57	M	8	9,52	12,7	5,5	1	☺						☺					
P44290-1R125-D57	M	8	9,52	12,7	5,5	1,25	☺						☺					
P44290-1R20-D57	M	8	9,52	12,7	5,5	2	☺						☺					
P44290-2R25-D57	M	8	9,52	12,7	6,35	2,5	☺						☺					
P44290-2R30-D57	M	8	9,52	12,7	6,35	3	☺						☺					

P44280: Tolerance class H
P44290: Tolerance class M

HC = Coated carbide
HW = Uncoated carbide



Slitting SX cutting inserts Tiger-tec® Silver

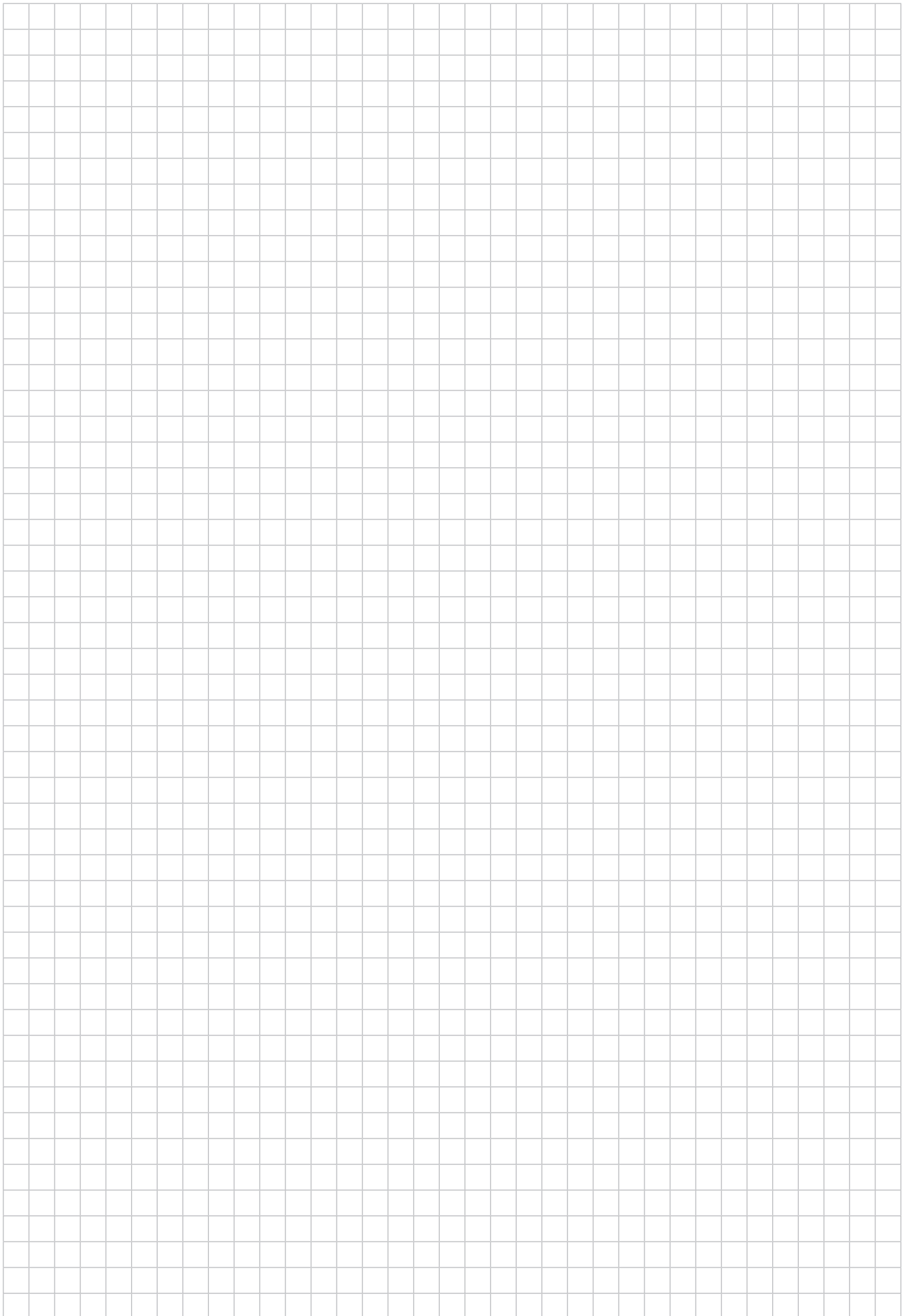


Cutting inserts

Designation	s mm	r mm	S _{Tol} mm	P					M					K				N			S				
				HC					HC					HC				HC	HW	HW	HC				
				WKP23S	WKP25S	WSM33S	WKP35S	WSM43S	WSP45S	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S	WAK15	WKP23S	WKK25S	WKP25S	WKP35S	WXN15	WK10	WK1	WSM23S	WSM33S	WSM35S
SX-1E150N01-SF5	1,5	0,15	±0,05			☺	☺	☺														☺	☺	☺	
SX-2E200N02-SF5	2	0,2	±0,05			☺	☺	☺														☺	☺	☺	
SX-3E300N02-SF5	3	0,2	±0,05			☺	☺	☺														☺	☺	☺	
SX-4E400N02-SF5	4	0,2	±0,05			☺	☺	☺														☺	☺	☺	
SX-5E500N04-SF5	5	0,4	±0,05			☺	☺	☺														☺	☺	☺	
SX-1E150N01-CE4	1,5	0,15	±0,05			☺	☺	☺														☺	☺	☺	
SX-2E200N02-CE4	2	0,2	±0,05	☺		☺	☺	☺		☺					☺							☺	☺	☺	
SX-3E300N02-CE4	3	0,2	±0,05	☺		☺	☺	☺		☺					☺							☺	☺	☺	
SX-4E400N02-CE4	4	0,2	±0,05	☺		☺	☺	☺		☺					☺							☺	☺	☺	
SX-5E500N04-CE4	5	0,4	±0,05	☺		☺	☺	☺		☺					☺							☺	☺	☺	
SX-6E600N04-CE4	6	0,4	±0,05	☺		☺	☺	☺		☺					☺							☺	☺	☺	
SX-1E150N01-CF6	1,5	0,15	±0,05			☺	☺	☺															☺	☺	
SX-2E200N02-CF6	2	0,2	±0,05			☺	☺	☺															☺	☺	
SX-3E300N02-CF6	3	0,2	±0,05			☺	☺	☺															☺	☺	
SX-1E150N01-SK8	1,5	0,1	±0,02																			☺			
SX-2E200N02-SK8	2	0,2	±0,02																			☺			
SX-3E300N02-SK8	3	0,2	±0,02																			☺			
SX-4E400N02-SK8	4	0,2	±0,02																			☺			
SX-5E500N04-SK8	5	0,4	±0,02																			☺			
SX-6E600N04-SK8	6	0,4	±0,02																			☺			

I_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ±0.05 mm

HC = Coated carbide
HW = Uncoated carbide



C2

Indexable insert milling cutters product range overview

Face milling cutters

Machining						
k	15°		45°			
Designation	F2010	M4002	F2010	M4003	M3024 Walter BLAXX	M5009 Xtra-tec® XT
Dia. range [mm]	70–305	8–102	80–315	20–160	40–160	25–100
Diameter range [inch]	2.604–11.604	0.750–4.000	3.000–12.000	0.750–6.000	1.500–6.000	1.000–4.000
Page	542	564	546	570	554	578

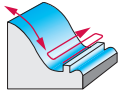

Shoulder milling cutters

Machining					
k	90°				
Designation	F2010	M2136	M2331	M4130	M5130 Xtra-tec® XT
Dia. range [mm]	80–315	50–160	32–50	16–100	10–160
Diameter range [inch]	3.000–12.000	2.000–6.000	1.500–2.000	–	0.500–6.000
Page	582	590	594	598	600

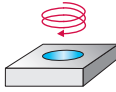




Slot milling cutters

Machining				
k	90°			
Designation	M4791	M3255 Walter BLAXX	M4258	F5055 Walter BLAXX
Dia. range [mm]	–	50–80	50–80	63–250
Diameter range [inch]	0.750–1.500	2.000–3.000	2.000–3.000	2.480–6.299
Page	616	618	622	634

Copy milling cutters

Machining	
K	–
Designation	M2471
Dia. range [mm]	32–63
Diameter range [inch]	2.000–2.500
Page	640
	

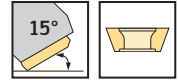
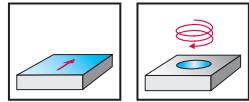
Circular interpolation cutters

Machining				
K	15°	90°		
Designation	M4002	M2331	M4130	M5130 Xtra-tec® XT
Dia. range [mm]	8–102	32–50	16–100	10–160
Diameter range [inch]	0.750–4.000	1.500–2.000	–	0.500–6.000
Page	564	594	598	600
				

Face milling cutters

F2010 mm
SDM . 1204 ..


- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _c mm	D _a * mm	d ₁ mm	l ₄ mm	L _c mm	a _r mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	F2010.B.080.Z06.08.R755M	70	93	27	50	2	11,4	6	1,3	6	SDM . 1204 ..
Parallel bore DIN 138 transverse keyway 	F2010.B.100.Z07.08.R755M	90	113	32	50	2	11,4	7	1,9	7	SDM . 1204 ..
	F2010.B.125.Z08.08.R755M	115	138	40	63	2	11,4	8	3,6	8	
Parallel bore DIN 138 transverse keyway 	F2010.B.160.Z10.08.R755M	150	173	40/40 B	63	2	11,4	10	5,6	10	SDM . 1204 ..
	F2010.B.200.Z12.08.R755M	190	213	60/50 B	63	2	11,4	12	8,3	12	
	F2010.B.250.Z12.08.R755M	240	263	60/50 B	63	2	11,4	12	14,8	12	
	F2010.B.250.Z16.08.R755M	240	263	60/50 B	63	2	11,4	16	14,6	16	
Parallel bore DIN 138 transverse keyway 	F2010.B.315.Z14.08.R755M	305	328	60/50-60 BB	80	2	11,4	14	26,3	14	SDM . 1204 ..
	F2010.B.315.Z18.08.R755M	305	328	60/50-60 BB	80	2	11,4	18	26,2	18	

* Measured against SDM.120408

Bodies and assembly parts are included in the scope of delivery.

C2

Assembly parts

	D _c [mm]	70–305
	Cartridge for tool body	FR755M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin	FS303 (Torx 20)

Accessories

	D _c [mm]	70–305
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2041 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
SDMT1204ZDR-D57	0,8	1,8	☒	☒	☒			☒			☒	☒				☒
SDMT120408-D57	0,8		☒	☒	☒	☒	☒		☒	☒	☒	☒	☒			☒
SDMT120408-F57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		☒
SDMT120425-F57	2,5			☒	☒	☒	☒				☒	☒	☒	☒		☒
SDMW120408-A57	0,8		☒	☒	☒					☒	☒	☒				☒

SD..1204... : If the corner radius is r > 0.8 mm, the corner area of the cartridge must be reworked.

HC = Coated carbide

R_(body) = r_(indexable insert)

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

😐
Moderate

●● Primary application

● Other application

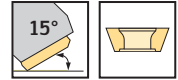
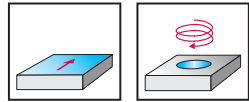
Face milling cutters

F2010 inch

SDM . 1204 ..



- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	D _a * Inch	d ₁ Inch	l ₄ Inch	L _c Inch	a _r Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	F2010.UB.076.Z06.08R755M	2,604	3,509	1,000	2,000	0,079	0,449	6	3,3	6	SDM . 1204 ..
	F2010.UB.102.Z07.08R755M	3,604	4,509	1,250	2,000	0,079	0,449	7	5,7	7	
	F2010.UB.127.Z08.08R755M	4,604	5,509	1,500	2,500	0,079	0,449	8	7,5	8	
Parallel bore DIN 138 transverse keyway 	F2010.UB.152.Z10.08R755M	5,604	6,509	1,500	2,500	0,079	0,449	10	14,6	10	SDM . 1204 ..
Parallel bore DIN 138 transverse keyway 	F2010.UB.203.Z12.08R755M	7,604	8,509	2,500	2,500	0,079	0,449	12	21,4	12	SDM . 1204 ..
	F2010.UB.254.Z12.08R755M	9,604	10,509	2,500	2,500	0,079	0,449	12	36,4	12	
	F2010.UB.254.Z16.08R755M	9,604	10,509	2,500	2,500	0,079	0,449	16	36,4	16	
Parallel bore DIN 138 transverse keyway 	F2010.UB.305.Z18.08R755M	11,604	12,509	2,500	2,500	0,079	0,449	18	45,6	18	SDM . 1204 ..

* Measured against SDM.120408

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		2,604	3,604	4,604–5,604	7,604–11,604
	Cartridge for tool body	FR755M	FR755M	FR755M	FR755M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
	Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]		2,604–11,604
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2042 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				S		
			HC				HC			HC				HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
SDMT1204ZDR-D57	0,8	1,8	☺	☺	☺	☺	☺	☺								☺
SDMT120408-D57	0,8		☺	☺	☺	☺	☺	☺			☺	☺	☺	☺	☺	☺
SDMT120408-F57	0,8		☺	☺	☺	☺	☺	☺	☺		☺	☺	☺	☺	☺	☺
SDMT120425-F57	2,5		☺	☺	☺	☺	☺	☺			☺	☺	☺	☺	☺	☺
SDMW120408-A57	0,8		☺	☺	☺	☺	☺	☺			☺	☺	☺	☺	☺	☺

SD..1204.. : If the corner radius is r > 0.8 mm, the corner area of the cartridge must be reworked.

HC = Coated carbide

R_(body) = r_(indexable insert)

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

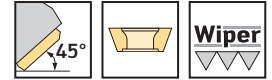
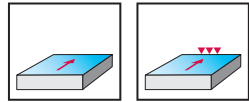
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Primary application

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Other application

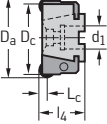
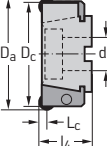
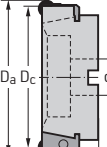
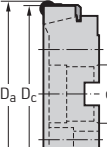
Face milling cutters

F2010
SD .. 1204AZN


- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c mm	D _a mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	F2010.B.080.Z06.06.R758M	80	94	27	50	7	6	1,2	6	SD .. 1204AZN SDHX1204AZR
Parallel bore DIN 138 transverse keyway 	F2010.B.100.Z07.06.R758M	100	114	32	50	7	7	1,8	7	SD .. 1204AZN SDHX1204AZR
	F2010.B.125.Z08.06.R758M	125	139	40	63	7	8	3,5	8	
Parallel bore DIN 138 transverse keyway 	F2010.B.160.Z10.06.R758M	160	174	40/40 B	63	7	10	5,5	10	SD .. 1204AZN SDHX1204AZR
	F2010.B.200.Z12.06.R758M	200	214	60/50 B	63	7	12	8,3	12	
	F2010.B.250.Z12.06.R758M	250	264	60/50 B	63	7	12	14,7	12	
	F2010.B.250.Z16.06.R758M	250	264	60/50 B	63	7	16	14,6	16	
Parallel bore DIN 138 transverse keyway 	F2010.B.315.Z14.06.R758M	315	329	60/50-60 BB	80	7	14	26,3	14	SD .. 1204AZN SDHX1204AZR
	F2010.B.315.Z18.06.R758M	315	329	60/50-60 BB	80	7	18	26,2	18	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		80–315
	Cartridge for tool body	FR758M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin	FS303 (Torx 20)

Accessories

D _c [mm]		80–315
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2041 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				N			S			H	O			
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC				
SDHX1204AZR-A88		7,5	WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WNN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15		
SDGT1204AZN-F57	0,3	1,8	☺	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹				☹	☹	☹				
SDGT1204AZN-G77	0,3	1,4			☹	☹		☹												☹				
SDHT1204AZN-G88	0,3	1,4												☺	☺	☺								
SDMT1204AZN-D57	0,3	1,4	☺	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹					☹		☹				
SDMT1204AZN-F57	0,3	1,8	☺	☹	☹	☹		☹	☹		☹	☹	☹							☹	☹			
SDMW1204AZN-A57	0,3	1,4	☹	☹	☹					☺	☹	☹	☹											

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

● Other application

C2

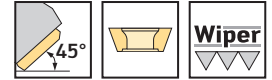
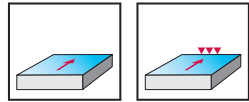
Face milling cutters

F2010 inch

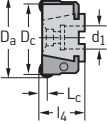
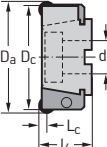
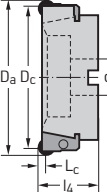
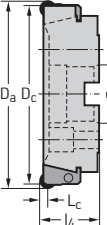
SD .. 1204AZN



- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type	
Parallel bore DIN 138 transverse keyway 	F2010.UB.076.Z06.06R758M	3,000	3,551	1,000	2,000	0,276	6	2,4	6	SD .. 1204AZN SDHX1204AZR	
	F2010.UB.102.Z07.06R758M	4,000	4,551	1,250	2,000	0,276	7	4,3	7		
	F2010.UB.127.Z08.06R758M	5,000	5,551	1,500	2,500	0,276	8	7,5	8		
Parallel bore DIN 138 transverse keyway 	F2010.UB.152.Z10.06R758M	6,000	6,551	1,500	2,500	0,276	10	13,1	10	SD .. 1204AZN SDHX1204AZR	
Parallel bore DIN 138 transverse keyway 	F2010.UB.203.Z12.06R758M	8,000	8,551	2.50/4.0	2,500	0,276	12	21,6	12	SD .. 1204AZN SDHX1204AZR	
	F2010.UB.254.Z12.06R758M	10,000	10,551	2.50/4.0	2,500	0,276	12	39,6	12		
	F2010.UB.254.Z16.06R758M	10,000	10,551	2.50/4.0	2,500	0,276	16	38,6	16		
Parallel bore DIN 138 transverse keyway 	F2010.UB.305.Z18.06R758M	12,000	12,551	2.50/4.0/7.0	2,500	0,276	18	49,5	18	SD .. 1204AZN SDHX1204AZR	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		3,000	4,000	5,000–6,000	8,000–12,000
	Cartridge for tool body	FR758M	FR758M	FR758M	FR758M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
	Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]		3,000–12,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2042 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				N			S			H	O		
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HC	HC	HC	HC	HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WNN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15	
SDHX1204AZR-A88		7,5								⊕												⊕	⊕
SDGT1204AZN-F57	0,3	1,8	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕				⊕		⊕			
SDGT1204AZN-G77	0,3	1,4				⊕			⊕											⊕			
SDHT1204AZN-G88	0,3	1,4													⊕	⊕	⊕						
SDMT1204AZN-D57	0,3	1,4	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕				⊕		⊕			
SDMT1204AZN-F57	0,3	1,8	⊕	⊕	⊕	⊕		⊕	⊕	⊕	⊕	⊕	⊕	⊕						⊕			
SDMW1204AZN-A57	0,3	1,4	⊕	⊕	⊕				⊕	⊕	⊕	⊕	⊕	⊕						⊕			

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

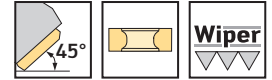
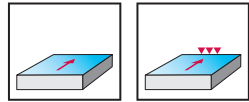
•• Primary application

• Other application

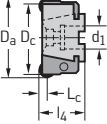
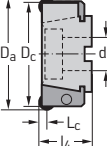
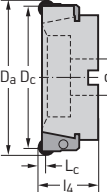
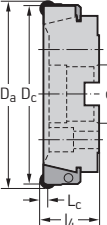
Face milling cutters

F2010 mm
XN . U0705 ..


- Adjustable runout
- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	D _a mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	F2010.B.080.Z06.04.R759M	80	90	27	50	4	6	1,2	6	XN . U0705 .. XNGX0705ANN
Parallel bore DIN 138 transverse keyway 	F2010.B.100.Z07.04.R759M	100	110	32	50	4	7	1,8	7	XN . U0705 .. XNGX0705ANN
	F2010.B.125.Z08.04.R759M	125	135	40	63	4	8	3,5	8	XN . U0705 .. XNGX0705ANN
Parallel bore DIN 138 transverse keyway 	F2010.B.160.Z10.04.R759M	160	170	40/40 B	63	4	10	5,5	10	XN . U0705 .. XNGX0705ANN
	F2010.B.200.Z12.04.R759M	200	210	60/50 B	63	4	12	8,3	12	
	F2010.B.250.Z12.04.R759M	250	260	60/50 B	63	4	12	14,7	12	
	F2010.B.250.Z16.04.R759M	250	260	60/50 B	63	4	16	14,6	16	
Parallel bore DIN 138 transverse keyway 	F2010.B.315.Z14.04.R759M	315	325	60/50-60 BB	80	4	14	26,3	14	XN . U0705 .. XNGX0705ANN
	F2010.B.315.Z18.04.R759M	315	325	60/50-60 BB	80	4	18	26,2	18	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

		D _c [mm]	80–315
	Cartridge for tool body		FR759M
	Clamping screw for cartridge		FS247 (SW 4)
	Tightening torque		8,0 Nm
	Clamping screw for insert		FS2119 (Torx 15IP)
	Tightening torque		3,0 Nm
	Adjusting pin		FS303 (Torx 20)

Accessories

		D _c [mm]	80–315
	Torque screwdriver, analogue		FS2003
	Tightening torque		1,5–5,0 Nm
	Torque screwdriver, digital		FS2248
	Tightening torque		1,0–6,0 Nm
	Interchangeable blade for screwdriver		FS2014 (Torx 15IP)
	Torque T-handle		FS2041
	Tightening torque		4,5–14 Nm
	Screwdriver for indexable insert		FS1485 (Torx 15IP)
	Screwdriver for adjusting pin		FS228 (Torx 20)
	Interchangeable blade for cartridge		FS2051 (SW 4)
	ISO 2936 Allen key for cartridge		ISO2936-4 (SW 4)

Indexable inserts

	Designation	r mm	b mm	P				M			K				N		S			H	O		
				HC	HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HC	HC	HC	HC	HC				
				WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15	
	XNGU0705ANN-F57	0,8	1,1	⊕	⊕	⊕	⊕	⊕					⊕	⊕	⊕								
	XNGU0705ANN-F67	0,8	1,1	⊕	⊕	⊕	⊕	⊕					⊕	⊕	⊕								
	XNGX0705ANN-F67		5,7								⊕											⊕	⊕
	XNMMU070508-F57	0,8		⊕	⊕	⊕	⊕	⊕					⊕	⊕	⊕			⊕					
	XNMMU0705ANN-F27	0,8	1,1	⊕	⊕	⊕	⊕	⊕				⊕	⊕	⊕	⊕			⊕					
	XNMMU0705ANN-F57	0,8	1,1	⊕	⊕	⊕	⊕	⊕				⊕	⊕	⊕	⊕			⊕					
	XNMMU0705ANN-F67	0,8	1,1	⊕	⊕	⊕	⊕	⊕				⊕	⊕	⊕	⊕			⊕	⊕				

XNGX0705ANN-F67 wiper insert only in combination with XNGU0705ANN . .

HC = Coated carbide
HW = Uncoated carbide

C2

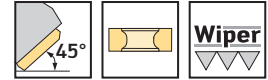
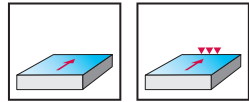
Face milling cutters

F2010 inch

XN . U0705 ..



- Adjustable runout
- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type	
Parallel bore DIN 138 transverse keyway 	F2010.UB.076.Z06.04R759M	3,000	3,394	1,000	2,000	0,157	6	2,4	6	XN . U0705 .. XNGX0705ANN	
	F2010.UB.102.Z07.04R759M	4,000	4,394	1,250	2,000	0,157	7	4,3	7		
	F2010.UB.127.Z08.04R759M	5,000	5,394	1,500	2,500	0,157	8	7,5	8		
Parallel bore DIN 138 transverse keyway 	F2010.UB.152.Z10.04R759M	6,000	6,394	1,500	2,500	0,157	10	13,1	10	XN . U0705 .. XNGX0705ANN	
Parallel bore DIN 138 transverse keyway 	F2010.UB.203.Z12.04R759M	8,000	8,394	2,50/4,0	2,500	0,157	12	21,6	12	XN . U0705 .. XNGX0705ANN	
	F2010.UB.254.Z12.04R759M	10,000	10,394	2,50/4,0	2,500	0,157	12	39,6	12		
	F2010.UB.254.Z16.04R759M	10,000	10,394	2,50/4,0	2,500	0,157	16	38,6	16		
Parallel bore DIN 138 transverse keyway 	F2010.UB.305.Z18.04R759M	12,000	12,394	2,50/4,0/7,0	2,500	0,157	18	49,5	18	XN . U0705 .. XNGX0705ANN	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		3,000	4,000	5,000–6,000	8,000–12,000
	Cartridge for tool body	FR759M	FR759M	FR759M	FR759M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
	Clamping screw for insert Tightening torque	FS2119 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm	FS2119 (Torx 15IP) 3,0 Nm
	Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
	Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]		3,000–12,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2042 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P		M		K		N		S		H	O
			HC	HW	HC	HW	HC	HW	HC	HW	HC	HW		
	XNGU0705ANN-F57	0,8	1,1	☉	☉	☉	☉	☉	☉	☉	☉	☉		
	XNGU0705ANN-F67	0,8	1,1	☉	☉	☉	☉	☉	☉	☉	☉	☉		
	XNGX0705ANN-F67		5,7					☉					☉	☉
	XNMMU070508-F57	0,8		☉	☉	☉	☉	☉	☉	☉	☉	☉		
	XNMMU0705ANN-F27	0,8	1,1	☉	☉	☉	☉	☉	☉	☉	☉	☉		
	XNMMU0705ANN-F57	0,8	1,1	☉	☉	☉	☉	☉	☉	☉	☉	☉		
	XNMMU0705ANN-F67	0,8	1,1	☉	☉	☉	☉	☉	☉	☉	☉	☉		

XNGX0705ANN-F67 wiper insert only in combination with XNGU0705ANN . .

HC = Coated carbide
HW = Uncoated carbide

C2

Heptagon face milling cutters

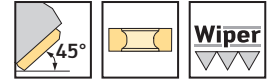
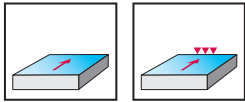
M3024

XN . U0705 ..

Walter BLAXX



- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
M3024	●	●	●	●	●	●	●

Tool	Designation	D _c mm	D _a mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	Z	kg	No. of indexable inserts	Type
ScrewFit 	M3024-040-T36-03-04	40	50	T36	40		4	3	0,4	3	XN . U0705 .. XNGX0705ANN
Shank DIN 1835 B 	M3024-040-W40-03-04	40	50	40	40	110	4	3	1,0	3	XN . U0705 .. XNGX0705ANN
Parallel bore DIN 138 transverse keyway 	M3024-040-B16-03-04	40	50	16	40		4	3	0,5	3	XN . U0705 .. XNGX0705ANN
	M3024-050-B22-04-04	50	60	22	40		4	4	0,5	4	
	M3024-050-B22-05-04	50	60	22	40		4	5	0,5	5	
	M3024-063-B22-05-04	63	73	22	40		4	5	0,8	5	
	M3024-063-B22-06-04	63	73	22	40		4	6	0,8	6	
	M3024-080-B27-06-04	80	90	27	50		4	6	1,5	6	
	M3024-080-B27-07-04	80	90	27	50		4	7	1,5	7	
	M3024-100-B32-07-04	100	110	32	50		4	7	2,7	7	
	M3024-100-B32-08-04	100	110	32	50		4	8	2,7	8	
	M3024-125-B40-08-04	125	135	40	63		4	8	4,3	8	
M3024-125-B40-10-04	125	135	40	63		4	10	4,3	10		

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		40–125
	Shim for indexable insert	AP800-XN0705 H81
	Clamping screw for shim	FS2068 (SW 3,5)
	Clamping screw for insert	FS2279 (Torx 15IP)
	Tightening torque	3,0 Nm

Accessories

D _c [mm]		40–125
	Torque screwdriver, analogue	FS2003
	Tightening torque	1,5–5,0 Nm
	Torque screwdriver, digital	FS2248
	Tightening torque	1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)
	Key for screw for shim	ISO2936-3,5 (SW 3,5)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S			H	O	
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15
	XNGU0705ANN-F57	0,8	1,1	☺	☺	☺	☺	☺	☺			☺	☺	☺							
	XNGU0705ANN-F67	0,8	1,1	☺	☺	☺	☺	☺	☺			☺	☺	☺							
	XNGX0705ANN-F67		5,7							☺										☺	☺
	XNMMU070508-F57	0,8		☺	☺	☺	☺	☺	☺			☺	☺	☺			☺				
	XNMMU0705ANN-F27	0,8	1,1	☺	☺	☺	☺	☺	☺			☺	☺	☺							
	XNMMU0705ANN-F57	0,8	1,1	☺	☺	☺	☺	☺	☺			☺	☺	☺			☺				
	XNMMU0705ANN-F67	0,8	1,1	☺	☺	☺	☺	☺	☺			☺	☺	☺			☺	☺			

XNGX0705ANN-F67 wiper insert only in combination with XNGU0705ANN . .

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●● Primary application

● Other application

C2

Heptagon face milling cutters

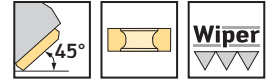
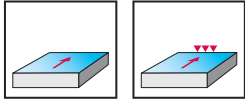
M3024

XN . U0705 ..

Walter BLAXX

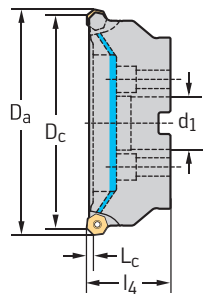


- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
M3024	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	D _a mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway	M3024-160-B40-09-04	160	170	40/40 B	63		4	9	6,5	9	XN . U0705 ..
	M3024-160-B40-12-04	160	170	40/40 B	63		4	12	6,5	12	XNGX0705ANN



Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		160
	Shim for indexable insert	AP800-XN0705 H81
	Clamping screw for shim	FS2068 (SW 3,5)
	Clamping screw for insert Tightening torque	FS2279 (Torx 15IP) 3,0 Nm

Accessories

D _c [mm]		160
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)
	Key for screw for shim	ISO2936-3,5 (SW 3,5)
	Sealing disc set (incl. gasket and screws)	FS936 COMPLETE SET
	Gasket	O-R 96X4

Indexable inserts

Designation	r mm	b mm	P		M			K			N		S			H	O
			HC	HC	HC	HC	HC	HC	HW	HC	HC	HC	HC	HC	HC		
	XNGU0705ANN-F57	0,8	1,1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	XNGU0705ANN-F67	0,8	1,1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	XNGX0705ANN-F67		5,7						☺							☺	☺
	XNMMU070508-F57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	XNMMU0705ANN-F27	0,8	1,1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	XNMMU0705ANN-F57	0,8	1,1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	XNMMU0705ANN-F67	0,8	1,1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

XNGX0705ANN-F67 wiper insert only in combination with XNGU0705ANN . .

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

•• Primary application

• Other application

Heptagon face milling cutters

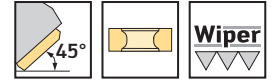
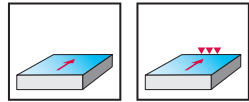
M3024 inch

XN . U0705 ..

Walter BLAXX



- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
M3024	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Shank DIN 1835 B 	M3024.038-W38-03-04	1,500	1,886	0,375	1,500	0,157	3	1,8	3	XN . U0705 .. XNGX0705ANN
Parallel bore DIN 138 transverse keyway 	M3024.038-B13-03-04	1,500	1,886	0,500	1,575	0,157	3	0,5	3	XN . U0705 .. XNGX0705ANN
	M3024.051-B19-04-04	2,000	2,386	0,750	1,575	0,157	4	1,3	4	
	M3024.064-B26-06-04	2,500	2,886	1,000	1,575	0,157	6	1,8	6	
	M3024.076-B26-07-04	3,000	3,386	1,000	1,969	0,157	7	3,0	7	
	M3024.102-B31-08-04	4,000	4,386	1,250	1,969	0,157	8	4,8	8	
	M3024.127-B38-10-04	5,000	5,386	1,500	2,480	0,157	10	9,9	10	
	M3024.152-B38-12-04	6,000	6,386	1,500	2,480	0,157	12	15,7	12	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		D _c [Inch]	1,500	2,000	2,500–3,000	4,000	5,000–6,000
	Shim for indexable insert		AP800-XN0705 H81	AP800-XN0705 H81	AP800-XN0705 H81	AP800-XN0705 H81	AP800-XN0705 H81
	Clamping screw for shim		FS2068 (SW 3,5)	FS2068 (SW 3,5)	FS2068 (SW 3,5)	FS2068 (SW 3,5)	FS2068 (SW 3,5)
	Clamping screw for insert		FS2279 (Torx 15IP)	FS2279 (Torx 15IP)	FS2279 (Torx 15IP)	FS2279 (Torx 15IP)	FS2279 (Torx 15IP)
	Tightening torque		3,0 Nm	3,0 Nm	3,0 Nm	3,0 Nm	3,0 Nm
	Clamping screw for arbour-mounted tools		FS1597	FS1523	FS1519	FS1339	FS1583

Accessories		D _c [Inch]	1,500–6,000
	Torque screwdriver, analogue		FS2004
	Tightening torque		1,5–5,0 Nm
	Torque screwdriver, digital		FS2248
	Tightening torque		1,0–6,0 Nm
	Interchangeable blade		FS2014 (Torx 15IP)
	Screwdriver		FS1485 (Torx 15IP)
	Key for screw for shim		ISO2936-3,5 (SW 3,5)

Indexable inserts		r mm	b mm	P				M			K				N		S			H	O		
Designation				HC				HC			HC				HC	HW	HC			HC	HC		
				WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15	
	XNGU0705ANN-F57	0,8	1,1	☉	☉	☉	☉	☉				☉	☉	☉									
	XNGU0705ANN-F67	0,8	1,1	☉	☉	☉	☉	☉				☉	☉	☉									
	XNGX0705ANN-F67		5,7								☉											☉	☉
	XNMU070508-F57	0,8		☉	☉	☉	☉	☉				☉	☉	☉				☉					
	XNMU0705ANN-F27	0,8	1,1	☉	☉	☉	☉	☉				☉	☉	☉				☉					
	XNMU0705ANN-F57	0,8	1,1	☉	☉	☉	☉	☉				☉	☉	☉				☉					
	XNMU0705ANN-F67	0,8	1,1	☉	☉	☉	☉	☉				☉	☉	☉				☉	☉				

XNGX0705ANN-F67 wiper insert only in combination with XNGU0705ANN . .

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

😐
Moderate

•• Primary application

• Other application

Heptagon face milling cutters

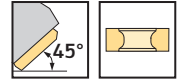
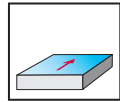
M3024

XNMU0906 ..

Walter BLAXX



- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
M3024	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	D _a mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M3024-063-B22-05-06	63	76	22	40	6	5	0,6	5	XNMU0906 ..
	M3024-080-B27-06-06	80	93	27	50	6	6	1,4	6	
	M3024-100-B32-07-06	100	113	32	50	6	7	2,7	7	
	M3024-125-B40-08-06	125	138	40	63	6	8	4,2	8	
Parallel bore DIN 138 transverse keyway 	M3024-160-B40-09-06	160	173	40/40 B	63	6	9	6,5	9	XNMU0906 ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		63–160
	Shim for indexable insert	AP800-XN0906 H81
	Clamping screw for shim	FS2091 (SW 5)
	Clamping screw for insert Tightening torque	FS2112 (Torx 20IP) 5,0 Nm

Accessories

D _c [mm]		63–125	160
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2015 (Torx 20IP)	FS2015 (Torx 20IP)
	Screwdriver	FS1486 (Torx 20IP)	FS1486 (Torx 20IP)
	Key for screw for shim	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Sealing disc set (incl. gasket and screws)		FS936 COMPLETE SET
	Gasket		O-R 96X4

Indexable inserts

Designation	r mm	b mm	P				M		K				N		S		
			HC				HC		HC				HC	HW	HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
XNMU090612-F57	1,2		☺	☺	☺	☺		☺		☺	☺	☺	☺				
XNMU0906ANN-F27	0,8	1,4	☺	☺	☺	☺			☺	☺	☺	☺					
XNMU0906ANN-F57	0,8	1,4	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺			☺		
XNMU0906ANN-F67	0,8	1,4	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺	

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

● Other application

Heptagon face milling cutters

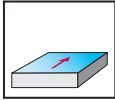
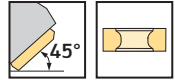
M3024 inch

XNMU0906 ..

Walter BLAXX



- 14 cutting edges per indexable insert



	P	M	K	N	S	H	O
M3024	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M3024.064-B26-05-06	2,500	3,006	1,000	1,575	0,236	5	1,8	5	XNMU0906 ..
	M3024.076-B26-06-06	3,000	3,506	1,000	1,969	0,236	6	2,9	6	
	M3024.102-B31-07-06	4,000	4,506	1,250	1,969	0,236	7	6,2	7	
	M3024.127-B38-08-06	5,000	5,506	1,500	2,480	0,236	8	9,8	8	
Parallel bore DIN 138 transverse keyway 	M3024.152-B38-09-06	6,000	6,506	1,500	2,480	0,236	9	15,7	9	XNMU0906 ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]	2,500	3,000	4,000	5,000–6,000
	AP800-XN0906 H81	AP800-XN0906 H81	AP800-XN0906 H81	AP800-XN0906 H81
	FS2091 (SW 5)	FS2091 (SW 5)	FS2091 (SW 5)	FS2091 (SW 5)
	FS2112 (Torx 20IP)	FS2112 (Torx 20IP)	FS2112 (Torx 20IP)	FS2112 (Torx 20IP)
	FS1586	FS1519	FS1339	FS1583

Accessories

D _c [Inch]	2,500–6,000
	FS2004 Tightening torque 1,5–5,0 Nm
	FS2248 Tightening torque 1,0–6,0 Nm
	FS2015 (Torx 20IP)
	FS1486 (Torx 20IP)
	ISO2936-5 (SW 5)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S		
			HC				HC			HC				HC	HW	HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X
XNMU090612-F57	1,2		☺	☺	☺	☺			☺			☺	☺	☺				
XNMU0906ANN-F27	0,8	1,4	☺	☺	☺	☺				☺	☺	☺	☺					
XNMU0906ANN-F57	0,8	1,4	☺	☺	☺	☺	☺		☺	☺	☺	☺	☺			☺		
XNMU0906ANN-F67	0,8	1,4	☺	☺	☺	☺		☺		☺	☺	☺	☺				☺	

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●● Primary application

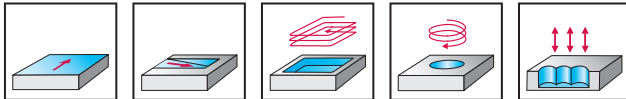
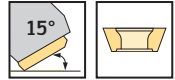
● Other application

High-feed face milling cutters

M4002 mm



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4002	●●	●●	●●	●●	●●	●	●

Tool	Designation	D _c mm	D _a * mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	a _r mm	Z	kg	No. of indexable inserts	Type
ScrewFit 	M4002-020-T18-02-01	8	20	T18	30		1	5,7	2	0,1	2	SDM . 06T2 ..
	M4002-025-T22-02-01,5	8	25	T22	40		1,5	8,4	2	0,1	2	SDM . 09T3 ..
	M4002-025-T22-03-01	13	25	T22	35		1	5,7	3	0,1	3	SDM . 06T2 ..
	M4002-032-T28-03-01,5	15	32	T28	40		1,5	8,4	3	0,2	3	SDM . 09T3 ..
	M4002-032-T28-04-01	20	32	T28	40		1	5,7	4	0,2	4	SDM . 06T2 ..
	M4002-035-T28-03-01,5	18	35	T28	40		1,5	8,4	3	0,2	3	SDM . 09T3 ..
	M4002-035-T28-03-01	23	35	T28	40		1	5,7	3	0,2	3	SDM . 06T2 ..
	M4002-035-T28-04-01	23	35	T28	40		1	5,7	4	0,2	4	SDM . 06T2 ..
	M4002-040-T36-04-01,5	23	40	T36	40		1,5	8,4	4	0,3	4	SDM . 09T3 ..
	M4002-040-T36-05-01	28	40	T36	40		1	5,7	5	0,4	5	SDM . 06T2 ..
	M4002-042-T36-03-01,5	25	42	T36	40		1,5	8,4	3	0,3	3	SDM . 09T3 ..
	M4002-042-T36-04-01	30	42	T36	40		1	5,7	4	0,4	4	SDM . 06T2 ..
	M4002-042-T36-05-01	30	42	T36	40		1	5,7	5	0,4	5	SDM . 06T2 ..
Parallel shank 	M4002-020-A20-02-01	8	20	20	30	200	1	5,7	2	0,5	2	SDM . 06T2 ..
	M4002-025-A25-03-01	13	25	25	35	200	1	5,7	3	0,8	3	
	M4002-032-A32-04-01	20	32	32	40	250	1	5,7	4	1,5	4	

* Measured using SDM.06T204, SDM.09T308, SDM.120408
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts			
Type	SDM . 06T2 ..	SDM . 09T3 ..	
Clamping screw for insert Tightening torque	FS2084 (Torx 7IP) 0,9 Nm	FS2266 (Torx 10IP) 2,0 Nm	

Accessories			
Type	SDM . 06T2 ..	SDM . 09T3 ..	
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	
Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm	
Interchangeable blade	FS2011 (Torx 7IP)	FS2268 (Torx 10IP)	
Screwdriver	FS2088 (Torx 7IP)	FS2267 (Torx 10IP)	

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP255	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
SDMT06T2ZDR-D57	0,4	1,2	☒	☒	☒			☒				☒	☒			☒
	SDMT09T3ZDR-D57	0,8	1,2	☒	☒	☒			☒			☒	☒			☒
SDMT06T204-D57	0,4		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT06T204-F57	0,4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT06T212-F57	1,2														
	SDMW06T204-A57	0,4	☒	☒	☒											
	SDMT09T308-D57	0,8	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT09T308-F57	0,8	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT09T320-F57	2														
	SDMW09T308-A57	0,8	☒	☒	☒											

For SD..120425 indexable inserts, the circumference of the body must be reworked.
 $R_{(body)} = r_{(indexable\ insert)}$

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

😐
Moderate

●●
Primary application

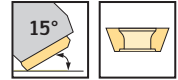
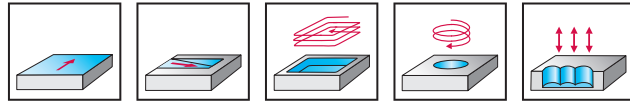
●
Other application

High-feed face milling cutters

M4002 mm



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4002	●●	●●	●●	●	●●	●	●

Tool	Designation	D _c mm	D _a * mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	a _r mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M4002-040-B16-05-01	28	40	16	40		1	5,7	5	0,2	5	SDM . 06T2 ..
	M4002-042-B16-04-01,5	25	42	16	40		1,5	8,4	4	0,2	4	SDM . 09T3 ..
	M4002-042-B16-04-01	30	42	16	40		1	5,7	4	0,2	4	SDM . 06T2 ..
	M4002-042-B16-05-01	30	42	16	40		1	5,7	5	0,2	5	SDM . 06T2 ..
	M4002-050-B22-04-02	27	50	22	40		2	11,4	4	0,5	4	SDM . 1204 ..
	M4002-050-B22-05-02	27	50	22	40		2	11,4	5	0,3	5	SDM . 1204 ..
	M4002-050-B22-05-01,5	33	50	22	40		1,5	8,4	5	0,3	5	SDM . 09T3 ..
	M4002-050-B22-07-01	38	50	22	40		1	5,7	7	0,4	7	SDM . 06T2 ..
	M4002-052-B22-03-02	29	52	22	40		2	11,4	3	0,4	3	SDM . 1204 ..
	M4002-052-B22-04-02	29	52	22	40		2	11,4	4	0,3	4	SDM . 1204 ..
	M4002-052-B22-05-02	29	52	22	40		2	11,4	5	0,4	5	SDM . 1204 ..
	M4002-052-B22-04-01,5	35	52	22	40		1,5	8,4	4	0,4	4	SDM . 09T3 ..
	M4002-052-B22-05-01,5	35	52	22	40		1,5	8,4	5	0,4	5	SDM . 09T3 ..
	M4002-052-B22-06-01	40	52	22	40		1	5,7	6	0,4	6	SDM . 06T2 ..
	M4002-052-B22-07-01	40	52	22	40		1	5,7	7	0,4	7	SDM . 06T2 ..
	M4002-063-B22-05-02	40	63	22	40		2	11,4	5	0,6	5	SDM . 1204 ..
	M4002-063-B22-06-02	40	63	22	40		2	11,4	6	0,5	6	SDM . 1204 ..
	M4002-063-B22-06-01,5	46	63	22	50		1,5	8,4	6	0,8	6	SDM . 09T3 ..
	M4002-063-B22-08-01	51	63	22	40		1	5,7	8	0,6	8	SDM . 06T2 ..
	M4002-066-B27-04-02	43	66	27	50		2	11,4	4	0,8	4	SDM . 1204 ..
	M4002-066-B27-05-02	43	66	27	50		2	11,4	5	0,8	5	SDM . 1204 ..
	M4002-066-B27-06-02	43	66	27	50		2	11,4	6	0,8	6	SDM . 1204 ..
	M4002-066-B27-05-01,5	49	66	27	50		1,5	8,4	5	0,8	5	SDM . 09T3 ..
	M4002-066-B27-06-01,5	49	66	27	50		1,5	8,4	6	0,8	6	SDM . 09T3 ..
	M4002-066-B27-07-01	54	66	27	50		1	5,7	7	0,9	7	SDM . 06T2 ..
	M4002-066-B27-08-01	54	66	27	40		1	5,7	8	0,8	8	SDM . 06T2 ..
	M4002-080-B27-06-02	57	80	27	50		2	11,4	6	1,3	6	SDM . 1204 ..
	M4002-080-B27-08-02	57	80	27	50		2	11,4	8	1,3	8	SDM . 1204 ..
	M4002-085-B27-05-02	62	85	27	50		2	11,4	5	1,5	5	SDM . 1204 ..
	M4002-085-B27-06-02	62	85	27	50		2	11,4	6	1,4	6	SDM . 1204 ..
	M4002-085-B27-08-02	62	85	27	50		2	11,4	8	1,5	8	SDM . 1204 ..
	M4002-100-B32-07-02	77	100	32	60		2	11,4	7	2,6	7	SDM . 1204 ..
	M4002-100-B32-09-02	77	100	32	60		2	11,4	9	2,6	9	SDM . 1204 ..
M4002-125-B40-08-02	102	125	40	60		2	11,4	8	3,0	8	SDM . 1204 ..	

* Measured using SDM.06T204, SDM.09T308, SDM.120408
 Bodies and assembly parts are included in the scope of delivery.

C2

Assembly parts

Type	SDM . 06T2 ..	SDM . 09T3 ..	SDM . 1204 ..
Clamping screw for insert Tightening torque	FS2084 (Torx 7IP) 0,9 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

Type	SDM . 06T2 ..	SDM . 09T3 ..	SDM . 1204 ..
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2011 (Torx 7IP)	FS2268 (Torx 10IP)	FS2014 (Torx 15IP)
Screwdriver	FS2088 (Torx 7IP)	FS2267 (Torx 10IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP255	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
SDMT06T2ZDR-D57	0,4	1,2	☉	☉	☉	☉	☉	☉								☉
	SDMT09T3ZDR-D57	0,8	1,2	☉	☉	☉	☉	☉								☉
	SDMT1204ZDR-D57	0,8	1,8	☉	☉	☉	☉	☉								☉
	SDMT06T204-D57	0,4		☉	☉	☉	☉	☉		☉	☉	☉	☉	☉	☉	☉
	SDMT06T204-F57	0,4		☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
	SDMT06T212-F57	1,2			☉	☉	☉	☉	☉			☉	☉	☉	☉	☉
	SDMW06T204-A57	0,4		☉	☉	☉					☉	☉	☉			
	SDMT09T308-D57	0,8		☉	☉	☉	☉	☉		☉	☉	☉	☉	☉		☉
	SDMT09T308-F57	0,8		☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
	SDMT09T320-F57	2			☉	☉	☉	☉	☉				☉	☉	☉	☉
	SDMW09T308-A57	0,8		☉	☉	☉					☉	☉	☉			
	SDMT120408-D57	0,8		☉	☉	☉	☉	☉		☉	☉	☉	☉	☉		☉
	SDMT120408-F57	0,8		☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉	☉
	SDMT120425-F57	2,5			☉	☉	☉	☉	☉				☉	☉	☉	☉
SDMW120408-A57	0,8		☉	☉	☉					☉	☉	☉				

For SD..120425 indexable inserts, the circumference of the body must be reworked.

R_(body) = r_(indexable insert)

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹️
Very good

😊
Good

😐
Moderate

●● Primary application

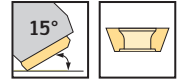
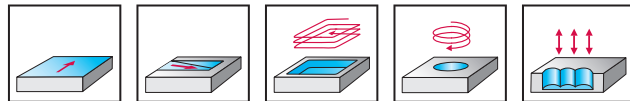
● Other application

High-feed face milling cutters

M4002 inch



– Four cutting edges per indexable insert



M4002	●	●	●	●	●	●	●
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Tool	Designation	D _c Inch	D _a * Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	a _r Inch	Z	lbs	No. of indexable inserts	Type
ScrewFit 	M4002.019-T18-02-01	0,291	0,750	0,728	1,181		0,039	0,224	2	0,1	2	SDM . 06T2 ..
	M4002.026-T22-02-01,5	0,339	1,000	0,866	1,575		0,059	0,331	2	0,0	2	SDM . 09T3 ..
	M4002.026-T22-03-01	0,543	1,000	0,866	1,378		0,039	0,224	3	0,2	3	SDM . 06T2 ..
	M4002.031-T28-03-01,5	0,593	1,250	1,102	1,575		0,059	0,331	3	0,4	3	SDM . 09T3 ..
	M4002.031-T28-04-01	0,795	1,250	1,102	1,575		0,039	0,224	4	0,5	4	SDM . 06T2 ..
	M4002.038-T36-04-01,5	0,843	1,500	1,417	1,575		0,059	0,331	4	0,6	4	SDM . 09T3 ..
Parallel shank 	M4002.019-A19-02-01	0,291	0,750	0,750	1,181	7,874	0,039	0,224	2	0,9	2	SDM . 06T2 ..
	M4002.026-A26-03-01	0,543	1,000	1,000	1,378	7,874	0,039	0,224	3	1,7	3	
	M4002.031-A31-04-01	0,795	1,250	1,250	1,575	9,843	0,039	0,224	4	3,2	4	
Parallel bore DIN 138 transverse keyway 	M4002.038-B13-05-01	1,043	1,500	0,500	1,378		0,039	0,224	5	0,4	5	SDM . 06T2 ..
	M4002.051-B19-04-02	1,094	2,000	0,750	1,575		0,079	0,449	4	0,8	4	SDM . 1204 ..
	M4002.051-B19-05-01,5	1,337	2,000	0,750	1,575		0,059	0,331	5	0,8	5	SDM . 09T3 ..
	M4002.051-B19-07-01	1,543	2,000	0,750	1,575		0,039	0,224	7	0,8	7	SDM . 06T2 ..
	M4002.064-B19-05-02	1,594	2,500	0,750	1,969		0,079	0,449	5	1,3	5	SDM . 1204 ..
	M4002.064-B19-06-01,5	1,843	2,500	0,750	1,969		0,059	0,331	6	1,8	6	SDM . 09T3 ..
	M4002.064-B26-08-01	2,043	2,500	1,000	1,969		0,039	0,224	8	1,7	8	SDM . 06T2 ..
	M4002.076-B26-06-02	2,094	3,000	1,000	1,969		0,079	0,449	6	2,6	6	SDM . 1204 ..
M4002.102-B38-07-02	3,094	4,000	1,500	2,480		0,079	0,449	7	5,8	7		

* Measured using SDM.06T204, SDM.09T308, SDM.120408
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Type D _c [Inch]	SDM . 06T2 ..				SDM . 09T3 ..			SDM . 1204 ..	
		0,291–0,795	1,043	1,543	2,043	0,339–0,843	1,337–1,843	1,094–1,594	2,094	3,094
	Clamping screw for insert	FS2084 (Torx 7IP)	FS2084 (Torx 7IP)	FS2084 (Torx 7IP)	FS2084 (Torx 7IP)	FS2266 (Torx 10IP)	FS2266 (Torx 10IP)	FS1453 (Torx 15IP)	FS1453 (Torx 15IP)	FS1453 (Torx 15IP)
	Tightening torque	0,9 Nm	0,9 Nm	0,9 Nm	0,9 Nm	2,0 Nm	2,0 Nm	3,5 Nm	3,5 Nm	3,5 Nm
	Clamping screw for arbour-mounted tools		FS1527	FS1523	FS1519		FS1523	FS1523	FS1519	FS1583

Accessories	Type	SDM . 06T2 ..	SDM . 09T3 ..	SDM . 1204 ..
			Torque screwdriver, analogue	FS2002
	Tightening torque	0,4–1,2 Nm	1,5–5,0 Nm	1,5–5,0 Nm
	Torque screwdriver, digital		FS2248	FS2248
	Tightening torque		1,0–6,0 Nm	1,0–6,0 Nm
	Interchangeable blade	FS2011 (Torx 7IP)	FS2268 (Torx 10IP)	FS2014 (Torx 15IP)
	Screwdriver	FS2088 (Torx 7IP)	FS2267 (Torx 10IP)	FS1485 (Torx 15IP)

Designation	r mm	b mm	P		M			K			S					
			HC		HC			HC			HC					
			WKP255	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
	SDMT06T2ZDR-D57	0,4	1,2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT09T3ZDR-D57	0,8	1,2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT1204ZDR-D57	0,8	1,8	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT06T204-D57	0,4		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT06T204-F57	0,4		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT06T212-F57	1,2		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMW06T204-A57	0,4		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT09T308-D57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT09T308-F57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT09T320-F57	2		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMW09T308-A57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT120408-D57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT120408-F57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	SDMT120425-F57	2,5		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
SDMW120408-A57	0,8		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	

For SD..120425 indexable inserts, the circumference of the body must be reworked.

HC = Coated carbide

R_(body) = r_(indexable insert)

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●●
Primary application

●
Other application

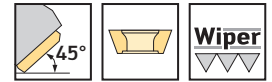
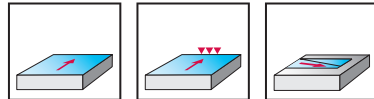
Face milling cutters

M4003 mm

SD .. 09T3AZN



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4003	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel shank 	M4003-020-A20-02-4.5	20	20	35	110	4,5	2	0,3	2	SD .. 09T3AZN SDHX09T3AZR
	M4003-025-A25-03-4.5	25	25	35	110	4,5	3	0,5	3	
	M4003-032-A32-04-4.5	32	32	35	110	4,5	4	0,7	4	
Parallel bore DIN 138 transverse keyway 	M4003-032-B16-04-4.5	32	16	40		4,5	4	0,3	4	SD .. 09T3AZN SDHX09T3AZR
	M4003-032-B16-05-4.5	32	16	40		4,5	5	0,3	5	
	M4003-040-B16-04-4.5	40	16	40		4,5	4	0,4	4	
	M4003-040-B16-06-4.5	40	16	40		4,5	6	0,3	6	
	M4003-050-B22-06-4.5	50	22	40		4,5	6	0,5	6	
	M4003-050-B22-08-4.5	50	22	40		4,5	8	0,5	8	
	M4003-063-B22-07-4.5	63	22	40		4,5	7	0,7	7	
	M4003-063-B22-10-4.5	63	22	40		4,5	10	0,7	10	
	M4003-080-B27-08-4.5	80	27	50		4,5	8	1,3	8	
	M4003-080-B27-12-4.5	80	27	50		4,5	12	1,1	12	
	M4003-100-B32-09-4.5	100	32	50		4,5	9	2,0	9	
	M4003-100-B32-14-4.5	100	32	50		4,5	14	2,0	14	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		20–100
	Clamping screw for insert Tightening torque	FS2266 (Torx 10IP) 2,0 Nm

Accessories

D _c [mm]		20–100
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2268 (Torx 10IP)
	Screwdriver	FS2267 (Torx 10IP)

Indexable inserts

Designation	r mm	b mm	P				M			K				N			S			H	O			
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC				
SDHX09T3AZR-A88		5,6	WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WNN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15		
SDGT09T3AZN-F57	0,3	1,4	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺	☺	☺				
SDGT09T3AZN-G77	0,3	1,2				☺			☺															
SDHT09T3AZN-G88	0,3	1,2												☺	☺	☺								
SDMT09T3AZN-D57	0,3	1,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺				☺	☺	☺				
SDMT09T3AZN-F57	0,3	1,4	☺	☺	☺	☺		☺	☺	☺	☺	☺	☺							☺	☺			
SDMW09T3AZN-A57	0,3	1,2	☺	☺	☺					☺	☺	☺	☺	☺										

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

•• Primary application

• Other application

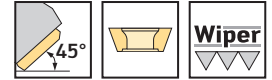
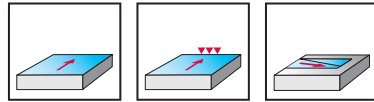
Face milling cutters

M4003 mm

SD .. 1204AZN



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4003	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel shank 	M4003-025-A25-02-6.5	25	25	35	110	6,5	2	0,5	2	SD .. 1204AZN SDHX1204AZR
	M4003-032-A32-03-6.5	32	32	35	110	6,5	3	0,7	3	
	M4003-040-A32-04-6.5	40	32	35	110	6,5	4	0,9	4	
Parallel bore DIN 138 transverse keyway 	M4003-040-B16-03-6.5	40	16	40		6,5	3	0,4	3	SD .. 1204AZN SDHX1204AZR
	M4003-040-B16-04-6.5	40	16	40		6,5	4	0,4	4	
	M4003-050-B22-04-6.5	50	22	40		6,5	4	0,5	4	
	M4003-050-B22-05-6.5	50	22	40		6,5	5	0,5	5	
	M4003-063-B22-05-6.5	63	22	40		6,5	5	0,7	5	
	M4003-063-B22-07-6.5	63	22	40		6,5	7	0,6	7	
	M4003-080-B27-06-6.5	80	27	50		6,5	6	1,2	6	
	M4003-080-B27-09-6.5	80	27	50		6,5	9	1,3	9	
	M4003-100-B32-07-6.5	100	32	50		6,5	7	2,1	7	
	M4003-100-B32-11-6.5	100	32	50		6,5	11	2,0	11	
Parallel bore DIN 138 transverse keyway 	M4003-125-B40-08-6.5	125	40	63		6,5	8	3,4	8	SD .. 1204AZN SDHX1204AZR
	M4003-125-B40-13-6.5	125	40	63		6,5	13	3,4	13	
	M4003-160-B40-09-6.5	160	40/40 B	63		6,5	9	4,3	9	
	M4003-160-B40-15-6.5	160	40/40 B	63		6,5	15	4,3	15	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		25–160
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]		25–125	160
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)
	Sealing disc set (incl. gasket and screws)		FS936 COMPLETE SET
	Gasket		O-R 96X4

Indexable inserts

Designation	r mm	b mm	P			M			K				N			S			H	O	
			HC			HC			HC				HC	HW	HC			HC	HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WNN15	WK10	WSM35S	WSM45X	WSP45S	WHH15
SDHX1204AZR-A88		7,5							⊕											⊕	⊕
SDGT1204AZN-F57	0,3	1,8	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕				⊕		⊕			
SDGT1204AZN-G77	0,3	1,4				⊕												⊕			
SDHT1204AZN-G88	0,3	1,4											⊕	⊕	⊕						
SDMT1204AZN-D57	0,3	1,4	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕				⊕		⊕			
SDMT1204AZN-F57	0,3	1,8	⊕	⊕	⊕	⊕		⊕		⊕	⊕	⊕						⊕			
SDMW1204AZN-A57	0,3	1,4	⊕	⊕	⊕				⊕	⊕	⊕	⊕									

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

• Other application

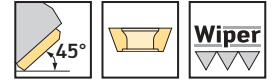
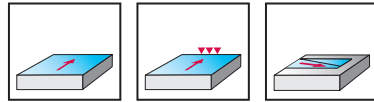
Face milling cutters

M4003 inch

SD .. 09T3AZN



– Four cutting edges per indexable insert





	P	M	K	N	S	H	O
M4003	●	●	●	●	●	●	●



Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel shank 	M4003.019-A19-02-4.5	0,750	0,750	1,378	4,331	0,177	2	0,6	2	SD .. 09T3AZN SDHX09T3AZR
	M4003.026-A26-03-4.5	1,000	1,000	1,378	4,331	0,177	3	1,1	3	
	M4003.031-A31-04-4.5	1,250	1,250	1,378	4,331	0,177	4	1,6	4	
Parallel bore DIN 138 transverse keyway 	M4003.031-B13-04-4.5	1,250	0,500	1,575		0,177	4	0,5	4	SD .. 09T3AZN SDHX09T3AZR
	M4003.038-B19-04-4.5	1,500	0,500	1,575		0,177	4	0,7	4	
	M4003.051-B19-06-4.5	2,000	0,750	1,575		0,177	6	1,1	6	
	M4003.064-B26-07-4.5	2,500	1,000	1,969		0,177	7	1,9	7	
	M4003.076-B26-08-4.5	3,000	1,000	1,969		0,177	8	2,6	8	
	M4003.102-B38-09-4.5	4,000	1,500	2,480		0,177	9	6,4	9	

Bodies and assembly parts are included in the scope of delivery.



Assembly parts

D _c [Inch]	0,750–1,000	1,250	1,500–2,000	2,500–3,000	4,000
 Clamping screw for insert Tightening torque	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm
 Clamping screw for arbour-mounted tools		FS1597	FS1523	FS1519	FS1583

Accessories

D _c [Inch]	0,750–4,000
 Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
 Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
 Interchangeable blade	FS2268 (Torx 10IP)
 Screwdriver	FS2267 (Torx 10IP)

Indexable inserts

Designation	r mm	b mm	P		M			K				N			S			H	O				
			HC		HC			HC			HC	HW	HC			HC	HC						
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WNN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15	
 SDHX09T3AZR-A88		5,6								☺												☺	☺
 SDGT09T3AZN-F57	0,3	1,4	☺	☹	☹	☹	☹		☹		☹	☹	☹					☹		☹			
SDGT09T3AZN-G77	0,3	1,2				☹														☹			
SDHT09T3AZN-G88	0,3	1,2													☺	☺	☺						
SDMT09T3AZN-D57	0,3	1,2	☺	☹	☹	☹	☹		☹		☹	☹	☹					☹		☹			
SDMT09T3AZN-F57	0,3	1,4	☺	☹	☹	☹		☹		☺	☹	☹	☹							☹			
SDMW09T3AZN-A57	0,3	1,2	☺	☹	☹				☺		☹	☹	☹							☹			

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●● Primary application

● Other application

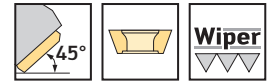
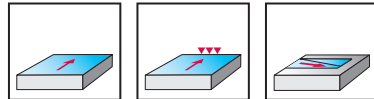
Face milling cutters

M4003 inch

SD .. 1204AZN



– Four cutting edges per indexable insert





	P	M	K	N	S	H	O
M4003	●	●	●	●	●	●	●





Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel shank 	M4003.026-A26-02-6.5	1,000	1,000	1,378	4,331	0,256	2	1,1	2	SD .. 1204AZN SDHX1204AZR
	M4003.031-A31-03-6.5	1,250	1,250	1,378	4,331	0,256	3	1,6	3	
	M4003.038-A31-04-6.5	1,500	1,250	1,378	4,331	0,256	4	1,8	4	
Parallel bore DIN 138 transverse keyway 	M4003.038-B19-03-6.5	1,500	0,500	1,575		0,256	3	0,7	3	SD .. 1204AZN SDHX1204AZR
	M4003.051-B19-04-6.5	2,000	0,750	1,575		0,256	4	1,1	4	
	M4003.064-B26-05-6.5	2,500	1,000	1,969		0,256	5	1,9	5	
	M4003.076-B26-06-6.5	3,000	1,000	1,969		0,256	6	2,7	6	
	M4003.102-B38-07-6.5	4,000	1,500	2,480		0,256	7	6,9	7	
	M4003.127-B38-08-6.5	5,000	1,500	2,480		0,256	8	8,3	8	
	M4003.152-B38-09-6.5	6,000	1,500	2,480		0,256	9	11,4	9	

Bodies and assembly parts are included in the scope of delivery.



Assembly parts

D _c [Inch]	1,000–1,250	1,500–2,000	2,500–3,000	4,000–6,000
 Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
 Clamping screw for arbour-mounted tools		FS1523	FS1519	FS1583

Accessories

D _c [Inch]	1,000–6,000
 Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
 Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
 Interchangeable blade	FS2014 (Torx 15IP)
 Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P				M			K				N			S			H	O		
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WNN15	WK10	WSM35S	WSM45X	WSP45S	WHH15	WXM15	
 SDHX1204AZR-A88		7,5								☺												☺	☺
 SDGT1204AZN-F57	0,3	1,8	☺	☹	☹	☹	☹		☹	☺	☹	☹	☹					☹		☹			
SDGT1204AZN-G77	0,3	1,4				☹			☹											☹			
SDHT1204AZN-G88	0,3	1,4													☺	☺	☺						
SDMT1204AZN-D57	0,3	1,4	☺	☹	☹	☹	☹		☹	☹	☹	☹	☹					☹		☹			
SDMT1204AZN-F57	0,3	1,8	☺	☹	☹	☹		☹	☹	☹	☹	☹	☹							☹			
SDMW1204AZN-A57	0,3	1,4	☹	☹	☹				☺		☹	☹	☹							☹			

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●●
Primary application

●
Other application

Face milling cutters

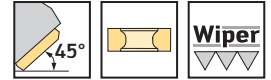
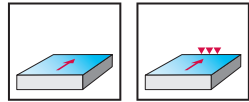
M5009

SN . X0904 ..

Xtra-tec® XT



– Eight cutting edges per indexable insert



	P	M	K	N	S	H	O
M5009	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
ScrewFit 	★ M5009-025-T22-03-05	25	T22	35	5	3	0,1	3	SN . X0904 .. XNGX0904ANN
	★ M5009-032-T28-04-05	32	T28	40	5	4	0	4	
	★ M5009-032-T28-05-05	32	T28	40	5	5	0	5	
	★ M5009-040-T36-04-05	40	T36	40	5	4	0	4	
	★ M5009-040-T36-06-05	40	T36	40	5	6	0	6	
Parallel bore DIN 138 transverse keyway 	★ M5009-040-B16-04-05	40	16	40	5	4	0,3	4	SN . X0904 .. XNGX0904ANN
	★ M5009-040-B16-06-05	40	16	40	5	6	0,3	6	
	★ M5009-050-B22-06-05	50	22	40	5	6	0,4	6	
	★ M5009-050-B22-08-05	50	22	40	5	8	0,4	8	
	★ M5009-063-B22-07-05	63	22	40	5	7	0,6	7	
	★ M5009-063-B22-10-05	63	22	40	5	10	0,6	10	
	★ M5009-080-B27-08-05	80	27	50	5	8	1,2	8	
	★ M5009-080-B27-11-05	80	27	50	5	11	1,1	11	
	★ M5009-100-B32-09-05	100	32	50	5	9	1,9	9	
★ M5009-100-B32-13-05	100	32	50	5	13	1,8	13		

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	D_c [mm]	25–100
	Clamping screw for insert Tightening torque	FS2579 (Torx 8IP) 1,2 Nm

Accessories

	D_c [mm]	25–100
	Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2012 (Torx 8IP)
	Screwdriver	FS1483 (Torx 8IP)

Indexable inserts

Designation	r mm	b mm	P		M		K				N		S		H		
			HC		HC		HC				HC	HW	HC		HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S
SNGX0904ANN-F57		1,2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	
SNGX0904ANN-F67		1,2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	
SNHX0904ANN-K88		1,5										⊕	⊕				
SNMX0904ANN-F27		1,2	⊕	⊕	⊕				⊕	⊕	⊕	⊕					
SNMX0904ANN-F57		1,2	⊕	⊕	⊕				⊕	⊕	⊕	⊕					
SNMX0904ANN-F67		1,2	⊕	⊕	⊕			⊕	⊕	⊕	⊕	⊕					
SNMX090408-F27	0,8		⊕	⊕	⊕				⊕	⊕	⊕	⊕					
SNMX090408-F57	0,8		⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕	⊕			⊕	⊕	
SNMX090408-F67	0,8		⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕	⊕			⊕	⊕	
XNGX0904ANN-F67		5						⊕									⊕

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

Primary application

Other application

Face milling cutters

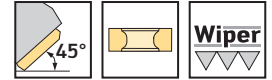
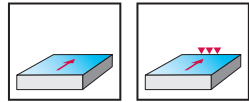
M5009 inch

SN . X0904 ..

Xtra-tec® XT



– Eight cutting edges per indexable insert



	P	M	K	N	S	H	O
M5009	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
ScrewFit 	★ M5009.026-T22-03-05	1,000	0,866	1,378	0,197	3	0,3	3	SN . X0904 .. XNGX0904ANN
	★ M5009.031-T28-04-05	1,250	1,102	1,575	0,197	4	0,5	4	
	★ M5009.031-T28-05-05	1,250	1,102	1,575	0,197	5	0,5	5	
	★ M5009.038-T36-04-05	1,500	1,417	1,575	0,197	4	0,9	4	
	★ M5009.038-T36-06-05	1,500	1,417	1,575	0,197	6	0,8	6	
Parallel bore DIN 138 transverse keyway 	★ M5009.038-B19-04-05	1,500	0,750	1,500	0,197	4	0,6	4	SN . X0904 .. XNGX0904ANN
	★ M5009.038-B19-06-05	1,500	0,750	1,500	0,197	6	0,6	6	
	★ M5009.051-B19-06-05	2,000	0,750	1,500	0,197	6	0,9	6	
	★ M5009.051-B19-08-05	2,000	0,750	1,500	0,197	8	0,9	8	
	★ M5009.064-B26-07-05	2,500	1,000	2,000	0,197	7	1,9	7	
	★ M5009.064-B26-10-05	2,500	1,000	2,000	0,197	10	1,8	10	
	★ M5009.076-B26-08-05	3,000	1,000	2,000	0,197	8	2,4	8	
	★ M5009.076-B26-11-05	3,000	1,000	2,000	0,197	11	22,2	11	
	★ M5009.102-B38-09-05	4,000	1,500	2,500	0,197	9	6,5	9	
★ M5009.102-B38-13-05	4,000	1,500	2,500	0,197	13	6,5	13		

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]	1,000–1,250	1,500–2,000	2,500–3,000	4,000
Clamping screw for insert Tightening torque	FS2579 (Torx 8IP) 1,2 Nm	FS2579 (Torx 8IP) 1,2 Nm	FS2579 (Torx 8IP) 1,2 Nm	FS2579 (Torx 8IP) 1,2 Nm
Clamping screw for arbour-mounted tools		FS1518	FS1519	FS1583

Accessories

D _c [Inch]	1,000–4,000
Torque screwdriver, analogue Tightening torque	FS2002 0,4–1,2 Nm
Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2012 (Torx 8IP)
Screwdriver	FS1483 (Torx 8IP)

Indexable inserts

Designation	r mm	b mm	P				M		K			N		S		H
			HC				HC		HC			HC	HW	HC		HC
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S
SNGX0904ANN-F57		1,2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕			⊕	⊕	
SNGX0904ANN-F67		1,2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕			⊕	⊕	
SNHX0904ANN-K88		1,5										⊕	⊕			
SNMX0904ANN-F27		1,2	⊕	⊕	⊕				⊕	⊕	⊕	⊕				
SNMX0904ANN-F57		1,2	⊕	⊕	⊕				⊕	⊕	⊕	⊕				
SNMX0904ANN-F67		1,2	⊕	⊕	⊕			⊕	⊕	⊕	⊕	⊕				
SNMX090408-F27	0,8		⊕	⊕	⊕				⊕	⊕	⊕	⊕				
SNMX090408-F57	0,8		⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕	⊕		⊕	⊕	
SNMX090408-F67	0,8		⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕	⊕		⊕	⊕	
XNGX0904ANN-F67		5						⊕								⊕

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

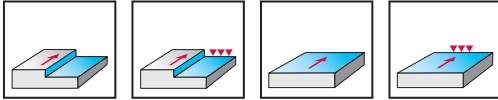
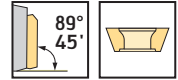
●● Primary application

● Other application

Shoulder milling cutters

F2010 mm
SD .. 09T3 ..


- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type		
Parallel bore DIN 138 transverse keyway 	F2010.B.080.Z06.08.R756M	80	27	50	8,4	6	1,3	6	SD .. 09T3 ..		
Parallel bore DIN 138 transverse keyway 	F2010.B.100.Z07.08.R756M	100	32	50	8,4	7	1,9	7	SD .. 09T3 ..		
	F2010.B.125.Z08.08.R756M	125	40	63	8,4	8	3,6	8	SD .. 09T3 ..		
Parallel bore DIN 138 transverse keyway 	F2010.B.160.Z10.08.R756M	160	40/40 B	63	8,4	10	5,6	10	SD .. 09T3 ..		
	F2010.B.200.Z12.08.R756M	200	60/50 B	63	8,4	12	8,3	12			
	F2010.B.250.Z12.08.R756M	250	60/50 B	63	8,4	12	14,8	12			
	F2010.B.250.Z16.08.R756M	250	60/50 B	63	8,4	16	14,6	16			
Parallel bore DIN 138 transverse keyway 	F2010.B.315.Z14.08.R756M	315	60/50-60 BB	80	8,4	14	26,3	14	SD .. 09T3 ..		
	F2010.B.315.Z18.08.R756M	315	60/50-60 BB	80	8,4	18	26,2	18			

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		80–315
	Cartridge for tool body	FR756M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm
	Clamping screw for insert Tightening torque	FS2266 (Torx 10IP) 2,0 Nm
	Adjusting pin	FS303 (Torx 20)

Accessories

D _c [mm]		80–315
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2268 (Torx 10IP)
	Torque T-handle Tightening torque	FS2041 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS2267 (Torx 10IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K			N		S			
			HC				HC			HC			HC	HW	HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X
SDGT09T3PDR-D57	0,8	1,2	☺	☹	☹	☹	☹	☹										
SDHT09T304-G88	0,4												☺	☺				
SDHT09T308-G88	0,8												☺	☺				
SDMT09T308-D51	0,8		☺	☹	☹	☹				☹	☹	☹						☹
SDMT09T308-D57	0,8		☺	☹	☹	☹	☹			☹	☹	☹					☹	☹
SDMT09T308-F57	0,8		☺	☹	☹	☹	☹	☹	☺	☹	☹	☹					☹	☹
SDMT09T320-F57	2			☹	☹	☹	☹	☹									☹	☹
SDMW09T308-A57	0,8		☹	☹	☹	☹				☹	☹	☹					☹	☹

SD..09T3.. : If the corner radius is $r > 0.8$ mm, the corner area of the cartridge must be reworked.
 $R(\text{body}) = r(\text{indexable insert})$

HC = Coated carbide
 HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●●
Primary application

●
Other application

C2

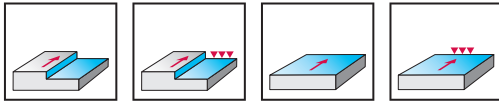
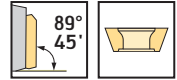
Shoulder milling cutters

F2010 inch

SD .. 09T3 ..



- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	F2010.UB.076.Z06.08R756M	3,000	1,000	2,000	0,331	6	3,3	6	SD .. 09T3 ..
	F2010.UB.102.Z07.08R756M	4,000	1.250	2,000	0,331	7	5,7	7	
	F2010.UB.127.Z08.08R756M	5,000	1.500	2,500	0,331	8	7,5	8	
Parallel bore DIN 138 transverse keyway 	F2010.UB.152.Z10.08R756M	6,000	1.500	2,500	0,331	10	14,6	10	SD .. 09T3 ..
Parallel bore DIN 138 transverse keyway 	F2010.UB.203.Z12.08R756M	8,000	2.50/4.0	2,500	0,331	12	21,4	12	SD .. 09T3 ..
	F2010.UB.254.Z12.08R756M	10,000	2.50/4.0	2,500	0,331	12	36,4	12	
	F2010.UB.254.Z16.08R756M	10,000	2.50/4.0	2,500	0,331	16	36,4	16	
Parallel bore DIN 138 transverse keyway 	F2010.UB.305.Z18.08R756M	12,000	2.50/4.0/7.0	2,500	0,331	18	45,6	18	SD .. 09T3 ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		3,000	4,000	5,000–6,000	8,000–12,000
	Cartridge for tool body	FR756M	FR756M	FR756M	FR756M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
	Clamping screw for insert Tightening torque	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS2266 (Torx 10IP) 2,0 Nm
	Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
	Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]		3,000–12,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2268 (Torx 10IP)
	Torque T-handle Tightening torque	FS2042 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS2267 (Torx 10IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S			
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HC	HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S
SDGT09T3PDR-D57	0,8	1,2	☺	☺	☺	☺	☺	☺	☺			☺	☺	☺			☺		☺
SDHT09T304-G88	0,4														☺	☺			
SDHT09T308-G88	0,8														☺	☺			
SDMT09T308-D51	0,8		☺	☺	☺	☺			☺		☺	☺	☺	☺					☺
SDMT09T308-D57	0,8		☺	☺	☺	☺			☺		☺	☺	☺	☺					☺
SDMT09T308-F57	0,8		☺	☺	☺	☺			☺	☺	☺	☺	☺	☺					☺
SDMT09T320-F57	2		☺	☺	☺	☺			☺		☺	☺	☺	☺					☺
SDMW09T308-A57	0,8		☺	☺	☺	☺			☺		☺	☺	☺	☺					☺

SD..09T3.. : If the corner radius is r > 0.8 mm, the corner area of the cartridge must be reworked.
R_(body) = r_(indexable insert)

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●●
Primary application

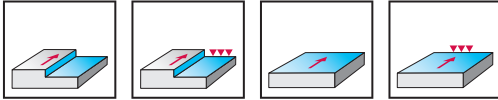
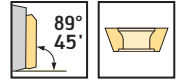
●
Other application

C2

Shoulder milling cutters

F2010 mm
SD .. 1204 ..


- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type	
Parallel bore DIN 138 transverse keyway 	F2010.B.080.Z06.08.R757M	80	27	50	11,6	6	1,3	6	SD .. 1204 ..	
Parallel bore DIN 138 transverse keyway 	F2010.B.100.Z07.08.R757M	100	32	50	11,6	7	1,9	7	SD .. 1204 ..	
	F2010.B.125.Z08.08.R757M	125	40	63	11,6	8	3,6	8	SD .. 1204 ..	
Parallel bore DIN 138 transverse keyway 	F2010.B.160.Z10.08.R757M	160	40/40 B	63	11,6	10	5,6	10	SD .. 1204 ..	
	F2010.B.200.Z12.08.R757M	200	60/50 B	63	11,6	12	8,3	12		
	F2010.B.250.Z12.08.R757M	250	60/50 B	63	11,6	12	14,8	12		
	F2010.B.250.Z16.08.R757M	250	60/50 B	63	11,6	16	14,6	16		
Parallel bore DIN 138 transverse keyway 	F2010.B.315.Z14.08.R757M	315	60/50-60 BB	80	11,6	14	26,3	14	SD .. 1204 ..	
	F2010.B.315.Z18.08.R757M	315	60/50-60 BB	80	11,6	18	26,2	18		

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		80–315
	Cartridge for tool body	FR757M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin	FS303 (Torx 20)

Accessories

D _c [mm]		80–315
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2041 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K			N		S			
			HC				HC			HC			HC	HW	HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X
SDGT1204PDR-D57	0,8	1,6	☺	☹	☹	☹	☹	☹										
SDHT120408-G88	0,8												☺	☺				
SDMT120408-D51	0,8		☺	☹	☹	☹												☹
SDMT120408-D57	0,8		☺	☹	☹	☹	☹			☹	☹	☹						☹
SDMT120408-F57	0,8		☺	☹	☹	☹	☹	☹	☺	☹	☹	☹						☹
SDMT120425-F57	2,5			☹	☹	☹	☹	☹										☹
SDMW120408-A57	0,8		☹	☹	☹					☹	☹	☹						☹

SD..1204.. : If the corner radius is $r > 0.8$ mm, the corner area of the cartridge must be reworked.
 $R_{(body)} = r_{(indexable\ insert)}$

HC = Coated carbide
 HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

••
Primary application

•
Other application

C2

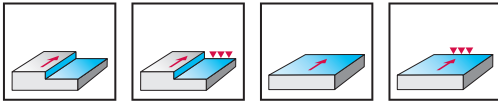
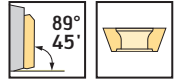
Shoulder milling cutters

F2010 inch

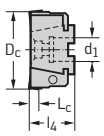
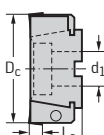
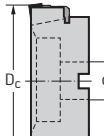
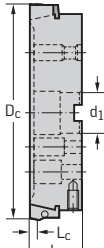
SD .. 1204 ..



- Adjustable runout
- Four cutting edges per indexable insert



	P	M	K	N	S	H	O
F2010	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	F2010.UB.076.Z06.08R757M	3,000	1,000	2,000	0,457	6	3,3	6	SD .. 1204 ..
	F2010.UB.102.Z07.08R757M	4,000	1.250	2,000	0,457	7	5,7	7	
	F2010.UB.127.Z08.08R757M	5,000	1.500	2,500	0,457	8	7,5	8	
Parallel bore DIN 138 transverse keyway 	F2010.UB.152.Z10.08R757M	6,000	1.500	2,500	0,457	10	14,6	10	SD .. 1204 ..
Parallel bore DIN 138 transverse keyway 	F2010.UB.203.Z12.08R757M	8,000	2.50/4.0	2,500	0,457	12	21,4	12	SD .. 1204 ..
	F2010.UB.254.Z12.08R757M	10,000	2.50/4.0	2,500	0,457	12	36,4	12	
	F2010.UB.254.Z16.08R757M	10,000	2.50/4.0	2,500	0,457	16	36,4	16	
Parallel bore DIN 138 transverse keyway 	F2010.UB.305.Z18.08R757M	12,000	2.50/4.0/7.0	2,500	0,457	18	45,6	18	SD .. 1204 ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		3,000	4,000	5,000–6,000	8,000–12,000
	Cartridge for tool body	FR757M	FR757M	FR757M	FR757M
	Clamping screw for cartridge Tightening torque	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm	FS247 (SW 4) 8,0 Nm
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Adjusting pin	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)	FS303 (Torx 20)
	Clamping screw for arbour-mounted tools	FS1519	FS1565	FS1566	

Accessories

D _c [Inch]		3,000–12,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade for screwdriver	FS2014 (Torx 15IP)
	Torque T-handle Tightening torque	FS2042 4,5–14 Nm
	Interchangeable blade for cartridge	FS2051 (SW 4)
	Screwdriver for indexable insert	FS1485 (Torx 15IP)
	Screwdriver for adjusting pin	FS228 (Torx 20)
	ISO 2936 Allen key for cartridge	ISO2936-4 (SW 4)

Indexable inserts

Designation	r mm	b mm	P				M			K				N		S			
			HC	HC	HC	HC	HC	HC	HC	HC	HC	HW	HC	HC	HC				
SDGT1204PDR-D57	0,8	1,6	☺	☺	☺	☺	☺	☺							☺	☺			
SDHT120408-G88	0,8		☺	☺	☺	☺									☺	☺			
SDMT120408-D51	0,8		☺	☺	☺	☺													☺
SDMT120408-D57	0,8		☺	☺	☺	☺			☺										☺
SDMT120408-F57	0,8		☺	☺	☺	☺			☺										☺
SDMT120425-F57	2,5		☺	☺	☺	☺													☺
SDMW120408-A57	0,8		☺	☺	☺	☺													☺

SD..1204.. : If the corner radius is r > 0.8 mm, the corner area of the cartridge must be reworked.
 $R_{(body)} = r_{(indexable\ insert)}$

HC = Coated carbide
 HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●● Primary application

● Other application

C2

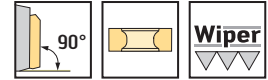
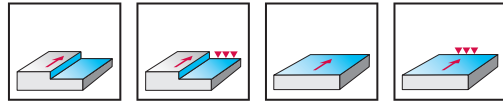
Close pitch cutter

M2136 mm

SNEF120408R



– Eight cutting edges per indexable insert



	P	M	K	N	S	H	O
M2136			●●				

Tool		Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 		M2136-050-B22-06-06	50	22	50	6,5	6	0,56	6	SNEF120408R SNEX1204PN ..
		M2136-063-B22-08-06	63	22	50	6,5	8	0,8	8	
		M2136-080-B27-12-06	80	27	50	6,5	12	1,23	12	
		M2136-100-B32-16-06	100	32	50	6,5	16	1,79	16	
		M2136-125-B40-20-06	125	40	63	6,5	20	3,42	20	
Parallel bore DIN 138 transverse keyway 		M2136-160-B40-24-06	160	40/40 B	63	6,5	24	6,05	24	SNEF120408R SNEX1204PN ..

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		50–160
	Clamping wedge	FK377
	Clamping screw for clamping wedge Tightening torque	FS2185 (Torx 10IP) 4 Nm

Accessories

D _c [mm]		50–160
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2268 (Torx 10IP)
	Screwdriver	FS2267 (Torx 10IP)

Indexable inserts

Designation	r mm	b mm	P		M		K				N		S		H			
			HC	HC	HC	HC	HC	HC	HW	HC	HC	HC	HC					
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S	WHH15
 SNEF120408R-B67 SNEF120408R-D67	0,8	2,1							⊕	⊕	⊕	⊕						
	0,8	2,1							⊕	⊕	⊕	⊕						
 SNEX1204PNR-B67	0,8	10,8							⊕									⊕
 SNEX1204PNN-A27	1,2	10,3							⊕									⊕

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

• Other application

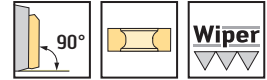
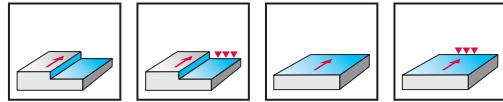
Close pitch cutter

M2136 inch

SNEF120408R



– Eight cutting edges per indexable insert



	P	M	K	N	S	H	O
M2136			●●				

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M2136.051-B19-06-06	2,000	0,750	1,969	0,256	6	1,21	6	SNEF120408R SNEX1204PN ..
	M2136.064-B19-08-06	2,500	0,750	1,969	0,256	8	2,04	8	
	M2136.076-B26-12-06	3,000	1,000	1,969	0,256	12	2,59	12	
	M2136.102-B31-16-06	4,000	1,250	1,969	0,256	16	4,23	16	
	M2136.127-B38-20-06	5,000	1,500	2,480	0,256	20	9,24	20	
	M2136.152-B38-24-06	6,000	1,500	2,480	0,256	24	13,64	24	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		D _c [Inch]	2,000–2,500	3,000	4,000	5,000–6,000
	Clamping wedge		FK377	FK377	FK377	FK377
	Clamping screw for clamping wedge		FS2185 (Torx 10IP)	FS2185 (Torx 10IP)	FS2185 (Torx 10IP)	FS2185 (Torx 10IP)
	Tightening torque		4 Nm	4 Nm	4 Nm	4 Nm
	Clamping screw for arbour-mounted tools		FS1523	FS1519	FS1339	FS1583

Accessories		D _c [Inch]	2,000–6,000
	Torque screwdriver, analogue		FS2002
	Tightening torque		0,4–1,2 Nm
	Torque screwdriver, digital		FS2248
	Tightening torque		1,0–6,0 Nm
	Interchangeable blade		FS2268 (Torx 10IP)
	Screwdriver		FS2267 (Torx 10IP)

Designation	r mm	b mm	P		M		K				N		S		H		
			HC		HC		HC				HC	HW	HC		HC		
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSP45S
SNEF120408R-B67	0,8	2,1						⊕	⊕	⊕	⊕						
SNEF120408R-D67	0,8	2,1					⊕	⊕	⊕	⊕							
SNEX1204PNR-B67	0,8	10,8					⊕										⊕
SNEX1204PNN-A27	1,2	10,3					⊕										⊕

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

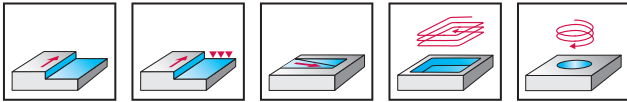
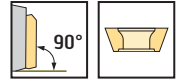
•• Primary application

• Other application

Ramping milling cutter

M2331 mm


- For pocket machining
- Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M2331				●●			●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁₆ mm	L _c mm	Z	kg	No. of indexable inserts	Type
HSK DIN 69893-1 A 	M2331-032-H80F-02-15-MA	32	HSK-A80/A63	110	65	15	2	1,5	2	ZDGT15A4 .. R
	M2331-040-H80F-02-20-MA	40	HSK-A80/A63	110	75	20	2	1,6	2	ZDGT20A5 .. R
	M2331-040-H80F-03-15-MA	40	HSK-A80/A63	110	75	15	3	1,6	3	ZDGT15A4 .. R
	M2331-050-H80F-03-20-MA	50	HSK-A80/A63	110	86	20	3	1,9	3	ZDGT20A5 .. R
	M2331-050-H80F-04-15-MA	50	HSK-A80/A63	110	86	15	4	1,9	4	ZDGT15A4 .. R
Parallel bore DIN 138 transverse keyway 	M2331-040-B16-03-15	40	16	50		15	3	0,2	3	ZDGT15A4 .. R
	M2331-050-B22-03-20	50	22	60		20	3	0,4	3	ZDGT20A5 .. R
	M2331-050-B22-04-15	50	22	50		15	4	0,3	4	ZDGT15A4 .. R
	M2331-050-B22-02-20	50	22	60		20	2	0,5	2	ZDGT20A5 .. R
	M2331-050-B22-02-15	50	22	50		15	2	0,4	2	ZDGT15A4 .. R
	M2331-050-B22-03-15	50	22	50		15	3	0,4	3	

Pre-balanced tools

For information on high-speed applications, see "Technical information/Information on high-speed applications"

Tools with HSK have a residual imbalance of 3 gmm – with chip hole, without chip

M2331-...-MA special interface for Makino (similar to HSK-A DIN 69893)

For tools with locating bores, use longer tightening screws in accordance with ISO 4762, see "Assembly parts and accessories/Other"

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		ZDGT15A4 .. R 32	ZDGT15A4 .. R 40-50	ZDGT20A5 .. R 40-50
	Type D _c [mm] Clamping screw for insert Tightening torque	FS1222 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS2281 (Torx 20IP) 5,0 Nm

Accessories		ZDGT15A4 .. R	ZDGT20A5 .. R
	Torque screwdriver, analogue Tightening torque	FS2003 1,5-5,0 Nm	FS2003 1,5-5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0-6,0 Nm	FS2248 1,0-6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
	Screwdriver	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	r mm	b mm	P		M		K		N		S		O	
			HC		HC		HC		HF		HC		HF	
			WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WKP25S	WKP35S	WMG40	WSM35S	WSP45S	WMG40	
	ZDGT15A404R-K85	0,4	1,2											
ZDGT15A408R-K85	0,8	1,2												
ZDGT15A412R-K85	1,2	1,2												
ZDGT15A416R-K85	1,6	1,2												
ZDGT15A420R-K85	2	1,2												
ZDGT15A425R-K85	2,5	1,2												
ZDGT15A430R-K85	3	1,2												
ZDGT15A440R-K85	4	1,2												
ZDGT20A508R-K85	0,8	1,2												
ZDGT20A512R-K85	1,2	1,2												
ZDGT20A516R-K85	1,6	1,2												
ZDGT20A520R-K85	2	1,2												
ZDGT20A530R-K85	3	1,2												
ZDGT20A540R-K85	4	1,2												
ZDGT20A550R-K85	5	1,2												
ZDGT20A560R-K85	6	1,2												
ZDGT20A564R-K85	6,4	1,2												

If the corner radius r = 2.0 mm or above, the corner area of the body must be reworked.
R (body) = r (indexable insert) - 1 mm

HC = Coated carbide
HF = Uncoated fine-grained carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

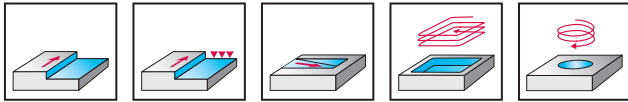
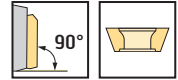
• Other application

Ramping milling cutter

M2331 inch



- For pocket machining
- Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M2331				●●			●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁₆ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
ScrewFit 	M2331.051-T45-03-15	2,000	T45	2,000		0,591	3	1,3	3	ZDGT15A4 .. R
	M2331.051-T45-03-20	2,000	T45	2,000		0,787	3	1,1	3	ZDGT20A5 .. R
HSK DIN 69893-1 A 	M2331.038-H80F-03-15-MA	1,500	80,000	4,331	2,524	0,591	3	3,5	3	ZDGT15A4 .. R
	M2331.051-H80F-03-20-MA	2,000	80,000	4,331	3,150	0,787	3	4,2	3	ZDGT20A5 .. R
	M2331.051-H80F-04-15-MA	2,000	80,000	4,331	3,150	0,591	4	4,2	4	ZDGT15A4 .. R
Parallel bore DIN 138 transverse keyway 	M2331.051-B19-03-15	2,000	0,750	2,000		0,591	3	1,0	3	ZDGT15A4 .. R
	M2331.051-B19-02-20	2,000	0,750	2,000		0,787	2	1,0	2	ZDGT20A5 .. R
	M2331.051-B19-02-15	2,000	0,750	2,000		0,591	2	1,1	2	ZDGT15A4 .. R

Pre-balanced tools

For information on high-speed applications, see "Technical information/Information on high-speed applications"

Tools with HSK have a residual imbalance of 3 gmm – with chip hole, without chip

M2331-...-MA special interface for Makino (similar to HSK-A DIN 69893)

For tools with locating bores, use longer tightening screws in accordance with ISO 4762, see "Assembly parts and accessories/Other"

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		ZDGT15A4 .. R 1,500	ZDGT15A4 .. R 2,000	ZDGT20A5 .. R 2,000
	Type D _c [Inch]			
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm	FS2281 (Torx 20IP) 5,0 Nm
	Clamping screw for arbour-mounted tools		FS1338	FS1338

Accessories		ZDGT15A4 .. R	ZDGT20A5 .. R
	Type Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)
	Screwdriver	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)

Indexable inserts

Designation	r mm	b mm	P		M		K		N		S		O	
			HC		HC		HC		HF		HC		HF	
			WKP255	WKP355	WSP455	WSM355	WSP455	WKP255	WKP355	WMG40	WSM355	WSP455	WMG40	
ZDGT15A404R-K85	0,4	1,2							☹					☹
ZDGT15A408R-K85	0,8	1,2							☹					☹
ZDGT15A412R-K85	1,2	1,2							☹					☹
ZDGT15A416R-K85	1,6	1,2							☹					☹
ZDGT15A420R-K85	2	1,2							☹					☹
ZDGT15A425R-K85	2,5	1,2							☹					☹
ZDGT15A430R-K85	3	1,2							☹					☹
ZDGT15A440R-K85	4	1,2							☹					☹
ZDGT20A508R-K85	0,8	1,2							☹					☹
ZDGT20A512R-K85	1,2	1,2							☹					☹
ZDGT20A516R-K85	1,6	1,2							☹					☹
ZDGT20A520R-K85	2	1,2							☹					☹
ZDGT20A530R-K85	3	1,2							☹					☹
ZDGT20A540R-K85	4	1,2							☹					☹
ZDGT20A550R-K85	5	1,2							☹					☹
ZDGT20A560R-K85	6	1,2							☹					☹
ZDGT20A564R-K85	6,4	1,2							☹					☹

If the corner radius r = 2.0 mm or above, the corner area of the body must be reworked.
 R (body) = r (indexable insert) - 1 mm

HC = Coated carbide
 HF = Uncoated fine-grained carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☹
Very good

☺
Good

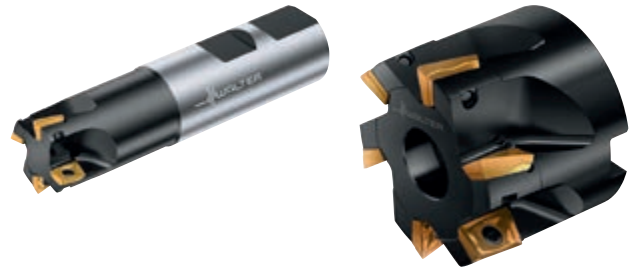
☹
Moderate

••
Primary application

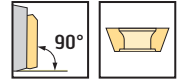
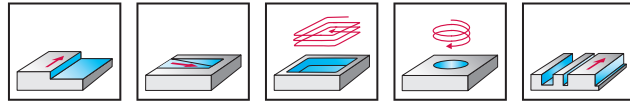
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Other application

Shoulder milling cutters

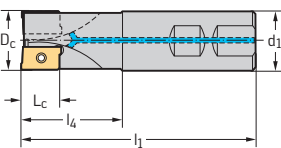
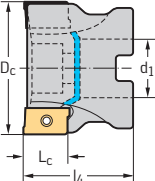
M4130



– Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M4130	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Shank DIN 1835 B 	M4130-016-W16-02-08	16	16	40	90	8	2	0,1	2	LDM . 08T204R
	M4130-020-W20-03-08	20	20	38	90	8	3	0,2	3	
	M4130-025-W25-04-08	25	25	42	100	8	4	0,3	4	
	M4130-032-W32-04-13	32	32	49	110	13	4	0,6	4	
Parallel bore DIN 138 transverse keyway 	M4130-040-B16-05-13	40	16	40		13	5	0,2	5	LDM . 14T308R
	M4130-050-B22-06-13	50	22	40		13	6	0,3	6	
	M4130-050-B22-05-16	50	22	40		16	5	0,3	5	LDM . 1704 .. R
	M4130-063-B27-06-16	63	27	50		16	6	0,6	6	
	M4130-080-B27-07-16	80	27	50		16	7	0,9	7	
	M4130-100-B32-08-16	100	32	50		16	8	1,7	8	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	LDM . 08T204R	LDM . 14T308R	LDM . 1704 .. R
Clamping screw for insert Tightening torque	FS2084 (Torx 7IP) 0,9 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

Type	LDM . 08T204R	LDM . 14T308R	LDM . 1704 .. R
Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm	FS2003 1,5–5,0 Nm	FS2003 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2011 (Torx 7IP)	FS2268 (Torx 10IP)	FS2014 (Torx 15IP)
Screwdriver	FS2088 (Torx 7IP)	FS2267 (Torx 10IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P				M		K				S	
			HC				HC		HC				HC	
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S
LDMT08T204R-D51	0,4	0,8	☺	☺	☺	☺	☺	☺			☺	☺	☺	☺
LDMT08T204R-D57	0,4	0,8	☺	☺	☺	☺	☺	☺			☺	☺	☺	☺
LDMT08T204R-F57	0,4	0,8	☺	☺	☺	☺	☺	☺	☺		☺	☺	☺	☺
LDMW08T204R-A57	0,4	0,8	☺	☺	☺	☺					☺	☺	☺	
LDMT14T308R-D51	0,8	1,2	☺	☺	☺	☺					☺	☺	☺	☺
LDMT14T308R-D57	0,8	1,2	☺	☺	☺	☺					☺	☺	☺	☺
LDMT14T308R-F57	0,8	1,2	☺	☺	☺	☺			☺		☺	☺	☺	☺
LDMW14T308R-A57	0,8	1,2	☺	☺	☺	☺					☺	☺	☺	
LDMT170408R-D51	0,8	1,6	☺	☺	☺	☺					☺	☺	☺	☺
LDMT170408R-D57	0,8	1,6	☺	☺	☺	☺					☺	☺	☺	☺
LDMT170408R-F57	0,8	1,6	☺	☺	☺	☺			☺		☺	☺	☺	☺
LDMT170412R-D51	1,2	1,6	☺	☺	☺	☺					☺	☺	☺	☺
LDMW170408R-A57	0,8	1,6	☺	☺	☺	☺					☺	☺	☺	

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

•• Primary application

• Other application

Shoulder milling cutters

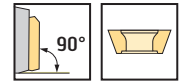
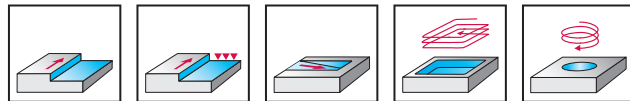
M5130

AC . T0602 .. R

Xtra-tec® XT



– Two cutting edges per indexable insert



M5130	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	l ₁ mm	Z	kg	No. of indexable inserts	Type
ScrewFit 	★ M5130-010-T09-02-05	10	T09	20	5		2	0,01	2	AC . T0602 .. R
	★ M5130-012-T09-03-05	12	T09	20	5		3	0,01	3	
	★ M5130-016-T14-03-05	16	T14	25	5		3	0,03	3	
	★ M5130-016-T14-04-05	16	T14	25	5		4	0,03	4	
	★ M5130-020-T18-04-05	20	T18	25	5		4	0,05	4	
	★ M5130-020-T18-05-05	20	T18	25	5		5	0,05	5	
	★ M5130-025-T22-05-05	25	T22	30	5		5	0,10	5	
	★ M5130-025-T22-07-05	25	T22	30	5		7	0,1	7	
	★ M5130-032-T28-06-05	32	T28	35	5		6	0,19	6	
	★ M5130-032-T28-08-05	32	T28	35	5		8	0,20	8	
★ M5130-040-T36-07-05	40	T36	35	5		7	0,34	7		
★ M5130-040-T36-10-05	40	T36	35	5		10	0,35	10		
Shank DIN 1835 B 	★ M5130-010-W10-02-05	10	10	16	5	60	2	0,03	2	AC . T0602 .. R
	★ M5130-010-W16-02-05	10	16	30	5	80	2	0,09	2	
	★ M5130-012-W12-03-05	12	12	19	5	65	3	0,05	3	
	★ M5130-012-W16-03-05	12	16	30	5	80	3	0,09	3	
	★ M5130-016-W16-03-05	16	16	21	5	70	3	0,09	3	
	★ M5130-016-W16-04-05	16	16	21	5	70	4	0,94	4	
	★ M5130-020-W20-04-05	20	20	24	5	75	4	0,16	4	
	★ M5130-020-W20-05-05	20	20	24	5	75	5	0,16	5	
★ M5130-025-W25-05-05	25	25	26	5	85	5	0,29	5		
★ M5130-025-W25-07-05	25	25	26	5	85	7	0,29	7		
Parallel shank 	★ M5130-010-A10-02-05	10	10	16	5	60	2	0,03	2	AC . T0602 .. R
	★ M5130-010-A16-02-05	10	16	30	5	80	2	0,24	2	
	★ M5130-012-A12-03-05	12	12	19	5	70	3	0,05	3	
	★ M5130-012-A16-03-05	12	12	30	5	80	3	0,09	3	
	★ M5130-014-A16-03-05	14	16	30	5	80	3	0,06	3	
	★ M5130-016-A16-03-05	16	16	21	5	90	3	0,12	3	
	★ M5130-016-A16-04-05	16	16	21	5	90	4	0,13	4	
	★ M5130-018-A16-03-05	18	16	21	5	90	3	0,13	3	
	★ M5130-020-A20-04-05	20	20	24	5	110	4	0,24	4	
	★ M5130-020-A20-05-05	20	20	24	5	110	5	0,24	5	
	★ M5130-022-A20-04-05	22	20	24	5	110	4	0,25	4	
	★ M5130-025-A25-05-05	25	25	26	5	120	5	0,42	5	
	★ M5130-025-A25-07-05	25	25	26	5	120	7	0,42	7	

Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

Assembly parts

	D_c [mm]	10–40
	Clamping screw for insert Tightening torque	FS2560 (Torx 6IP) 0,6 Nm

Accessories

	D_c [mm]	10–40
	Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm
	Interchangeable blade	SD2001-6IP
	Screwdriver	SD1001-6IP

Indexable inserts

Designation	r mm	b mm	P		M		K			N		S			
			HC		HC		HC			HC	HW	HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10
ACGT060204R-G65	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACGT060204R-M85	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060202R-G55	0,2	1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060204R-G55	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060204R-K55	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060208R-G55	0,8	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060212R-G55	1,2	0,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060216R-G55	1,6	0,1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

•• Primary application

• Other application

Shoulder milling cutters

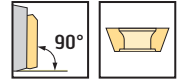
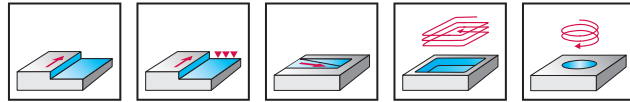
M5130

AC . T0602 .. R

Xtra-tec® XT



– Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M5130	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	l ₁ mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ M5130-032-B16-06-05	32	16	40	5		6	0,14	6	AC . T0602 .. R
	★ M5130-032-B16-08-05	32	16	40	5		8	0,14	8	
	★ M5130-040-B16-07-05	40	16	40	5		7	0,27	7	
	★ M5130-040-B16-10-05	40	16	40	5		10	0,27	10	
	★ M5130-050-B22-09-05	50	22	40	5		9	0,42	9	
	★ M5130-050-B22-12-05	50	22	40	5		12	0,42	12	
	★ M5130-063-B22-11-05	63	22	40	5		11	0,54	11	
	★ M5130-063-B22-14-05	63	22	40	5		14	0,54	14	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	D_c [mm]	32–63
	Clamping screw for insert Tightening torque	FS2560 (Torx 6IP) 0,6 Nm

Accessories

	D_c [mm]	32–63
	Torque screwdriver, analogue Tightening torque	FS2001 0,4–1,2 Nm
	Interchangeable blade	SD2001-6IP
	Screwdriver	SD1001-6IP

Indexable inserts

Designation	r mm	b mm	P		M		K			N		S			
			HC		HC		HC			HC	HW	HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10
ACGT060204R-G65	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACGT060204R-M85	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060202R-G55	0,2	1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060204R-G55	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060204R-K55	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060208R-G55	0,8	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060212R-G55	1,2	0,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060216R-G55	1,6	0,1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

••
Primary application

•
Other application

Shoulder milling cutters

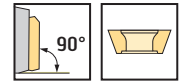
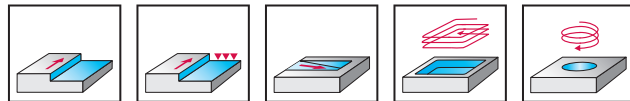
M5130 inch

AC . T0602 .. R

Xtra-tec® XT



– Two cutting edges per indexable insert



M5130	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
ScrewFit 	★ M5130.013-T09-03-05	0,500	T09	0,787		0,197	3	0,0	3	AC . T0602 .. R
	★ M5130.015-T14-03-05	0,625	T14	0,984		0,197	3	0,1	3	
	★ M5130.015-T14-04-05	0,625	T14	0,984		0,197	4	0,1	4	
	★ M5130.019-T18-04-05	0,750	T18	0,984		0,197	4	0,1	4	
	★ M5130.019-T18-05-05	0,750	T18	0,984		0,197	5	0,1	5	
	★ M5130.026-T22-05-05	1,000	T22	1,181		0,197	5	0,2	5	
	★ M5130.026-T22-07-05	1,000	T22	1,181		0,197	7	0,2	7	
	★ M5130.031-T28-06-05	1,250	T28	1,378		0,197	6	0,4	6	
	★ M5130.031-T28-08-05	1,250	T28	1,378		0,197	8	0,4	8	
	★ M5130.038-T36-07-05	1,500	T36	1,378		0,197	7	0,7	7	
★ M5130.038-T36-10-05	1,500	T36	1,378		0,197	10	0,8	10		
Shank DIN 1835 B 	★ M5130.013-W13-03-05	0,500	1/2	0,700	2,281	0,197	3	0,1	3	AC . T0602 .. R
	★ M5130.015-W15-03-05	0,625	0,625	0,750	2,656	0,197	3	0,2	3	
	★ M5130.015-W15-04-05	0,625	0,625	0,750	2,656	0,197	4	0,2	4	
	★ M5130.019-W19-04-05	0,750	0,750	0,945	2,781	0,197	4	0,3	4	
	★ M5130.019-W19-05-05	0,750	0,750	0,945	2,781	0,197	5	0,3	5	
	★ M5130.026-W26-05-05	1,000	1,000	1,000	3,281	0,197	5	0,6	5	
★ M5130.026-W26-07-05	1,000	1,000	1,000	3,281	0,197	7	0,6	7		
Parallel shank 	★ M5130.013-A13-03-05	0,500	1/2	0,750	2,531	0,197	3	0,1	3	AC . T0602 .. R
	★ M5130.015-A15-03-05	0,625	0,625	0,750	3,566	0,197	3	0,3	3	
	★ M5130.015-A15-04-05	0,625	0,625	0,750	3,566	0,197	4	0,3	4	
	★ M5130.019-A19-04-05	0,750	0,750	1,000	4,250	0,197	4	0,5	4	
	★ M5130.019-A19-05-05	0,750	0,750	1,000	4,250	0,197	5	0,5	5	
	★ M5130.026-A26-05-05	1,000	1,000	1,000	4,750	0,197	5	1,0	5	
★ M5130.026-A26-07-05	1,000	1,000	1,000	4,750	0,197	7	1,0	7		

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	D_c [Inch]	0,500–1,500
	Clamping screw for insert Tightening torque	FS2560 (Torx 6IP) 0,6 Nm

Accessories

	D_c [Inch]	0,500–1,500
	Torque screwdriver, analogue Tightening torque	FS2002 0,4–1,2 Nm
	Interchangeable blade	SD2001-6IP
	Screwdriver	SD1001-6IP

Indexable inserts

Designation	r mm	b mm	P		M		K			N		S			
			HC		HC		HC			HC	HW	HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10
ACGT060204R-G65	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACGT060204R-M85	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060202R-G55	0,2	1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060204R-G55	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060204R-K55	0,4	0,9	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060208R-G55	0,8	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060212R-G55	1,2	0,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
ACMT060216R-G55	1,6	0,1	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

•• Primary application

• Other application

Shoulder milling cutters

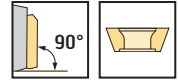
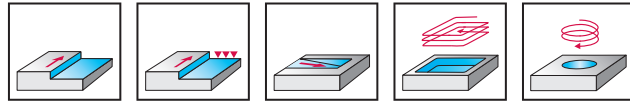
M5130 inch

AC . T0602 .. R

Xtra-tec® XT



– Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M5130	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ M5130.051-B19-09-05	0,750	0,750	1,575		0,197	9	0,9	9	AC . T0602 .. R
	★ M5130.051-B19-12-05	0,750	0,750	1,575		0,197	12	0,9	12	
	★ M5130.064-B26-11-05	1,000	1,000	1,575		0,197	11	1,4	11	
	★ M5130.064-B26-14-05	1,000	1,000	1,575		0,197	14	1,5	14	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		0,750	1,000
	Clamping screw for insert Tightening torque	FS2560 (Torx 6IP) 0,6 Nm	FS2560 (Torx 6IP) 0,6 Nm
	Clamping screw for arbour-mounted tools	FS1518	FS1519

Accessories

D _c [Inch]		0,750–1,000
	Torque screwdriver, analogue Tightening torque	FS2002 0,4–1,2 Nm
	Interchangeable blade	SD2001-6IP
	Screwdriver	SD1001-6IP

Indexable inserts

Designation	r mm	b mm	P		M		K			N		S				
			HC		HC		HC			HC	HW	HC				
			WKP255	WKP35G	WKP355	WSP455	WSM355	WSP455	WAK15	WKK255	WKP255	WKP35G	WKP355	WXN15	WK10	WSM355
ACGT060204R-G65	0,4	0,9	☺	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
ACGT060204R-M85	0,4	0,9										☺	☺			
ACMT060202R-G55	0,2	1		☹	☹	☹	☹			☹	☹					☹
ACMT060204R-G55	0,4	0,9	☺	☹	☹	☹		☺	☹	☹	☹				☹	☹
ACMT060204R-K55	0,4	0,9		☹	☹	☹				☹	☹				☹	☹
ACMT060208R-G55	0,8	0,8		☹	☹	☹				☹	☹				☹	☹
ACMT060212R-G55	1,2	0,6		☹	☹	☹				☹	☹				☹	☹
ACMT060216R-G55	1,6	0,1		☹	☹	☹				☹	☹				☹	☹

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☹
Good

☹
Moderate

●●
Primary application

●
Other application

C2

Shoulder milling cutters

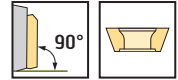
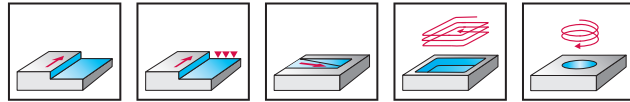
M5130

BC . T160508R

Xtra-tec® XT



– Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M5130	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	l ₁ mm	Z	kg	No. of indexable inserts	Type
ScrewFit 	★ M5130-032-T28-03-15	32	T28	40	15		3	0,16	3	BC . T160508R
	★ M5130-040-T36-03-15	40	T36	40	15		3	0,31	3	
	★ M5130-040-T36-04-15	40	T36	40	15		4	0,31	4	
	★ M5130-050-T45-03-15	50	T45	40	15		3	0,45	3	
	★ M5130-050-T45-06-15	50	T45	40	15		6	0,45	6	
Shank DIN 1835 B 	★ M5130-025-W25-02-15	25	25	43	15	100	2	0,30	2	BC . T160508R
	★ M5130-032-W32-03-15	32	32	49	15	110	3	0,56	3	
Parallel shank 	★ M5130-025-A25-02-15	25	25	38	15	200	2	0,68	2	BC . T160508R
	★ M5130-028-A25-02-15	28	25	38	15	200	2	0,70	2	
	★ M5130-032-A32-03-15	32	32	39	15	250	3	1,43	3	
	★ M5130-035-A32-03-15	35	32	39	15	250	3	1,46	3	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		25–50
	Clamping screw for insert Tightening torque	FS2300 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]		25–50
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
BCGT160508R-G55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
BCMT160508R-F55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
BCMT160508R-G55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
BCMT160508R-K55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

●● Primary application

● Other application

Shoulder milling cutters

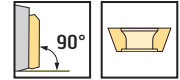
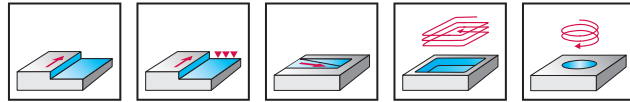
M5130 mm

BC . T160508R

Xtra-tec® XT



– Two cutting edges per indexable insert




	P	M	K	N	S	H	O
M5130	●	●	●	●	●	●	●





Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	l ₁ mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	★ M5130-040-B16-03-15	40	16	40	15		3	0,15	3	BC . T160508R
	★ M5130-040-B16-04-15	40	16	40	15		4	0,14	4	
	★ M5130-042-B16-03-15	42	16	40	15		3	0,17	3	
	★ M5130-050-B22-03-15	50	22	40	15		3	0,31	3	
	★ M5130-050-B22-06-15	50	22	40	15		6	0,31	6	
	★ M5130-052-B22-03-15	52	22	40	15		3	0,34	3	
	★ M5130-063-B22-04-15	63	22	40	15		4	0,43	4	
	★ M5130-063-B27-04-15	63	27	50	15		4	0,66	4	
	★ M5130-063-B22-07-15	63	22	40	15		7	0,45	7	
	★ M5130-063-B27-07-15	63	27	50	15		7	0,68	7	
	★ M5130-066-B27-04-15	66	22	50	15		4	0,72	4	
	★ M5130-080-B27-05-15	80	27	50	15		5	0,92	5	
	★ M5130-080-B27-08-15	80	27	50	15		8	0,97	8	
	★ M5130-085-B27-05-15	85	27	50	15		5	1,03	5	
	★ M5130-100-B32-05-15	100	32	50	15		5	1,55	5	
	★ M5130-100-B32-08-15	100	32	50	15		8	1,62	8	
	★ M5130-125-B40-07-15	125	40	63	15		7	2,47	7	
	★ M5130-125-B40-10-15	125	40	63	15		10	2,67	10	

Bodies and assembly parts are included in the scope of delivery.

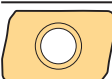
Assembly parts

D _c [mm]		40–125
	Clamping screw for insert Tightening torque	FS2300 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]		40–125
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)


Indexable inserts


Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
 BCGT160508R-G55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
BCMT160508R-F55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
BCMT160508R-G55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
BCMT160508R-K55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕


HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement


Very good


Good


Moderate

●● Primary application

● Other application

Shoulder milling cutters

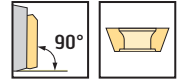
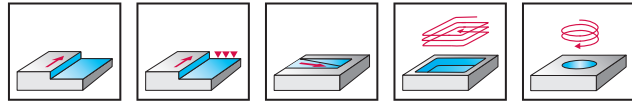
M5130

BC . T160508R

Xtra-tec® XT

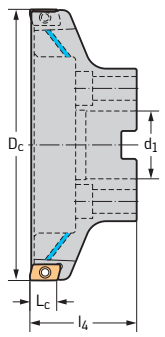


- Two cutting edges per indexable insert



	P	M	K	N	S	H	O
M5130	●	●	●	●	●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	l ₁ mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway	★ M5130-160-B40-08-15	160	40/40 B	63	15		8	2,88	8	BC . T160508R
	★ M5130-160-B40-12-15	160	40/40 B	63	15		12	3,02	12	



Bodies and assembly parts are included in the scope of delivery.

C2

Assembly parts

D _c [mm]		160
	Clamping screw for insert Tightening torque	FS2300 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]		160
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)
	Sealing disc set (incl. gasket and screws)	FS936 COMPLETE SET
	Gasket	O-R 96X4

Indexable inserts

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
BCGT160508R-G55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
BCMT160508R-F55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
BCMT160508R-G55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
BCMT160508R-K55	0,8	2	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

Primary application

Other application

Shoulder milling cutters

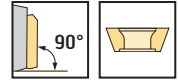
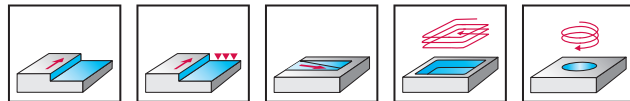
M5130 inch

BC . T160508R

Xtra-tec® XT



– Two cutting edges per indexable insert




M5130	P	M	K	N	S	H	O
	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
ScrewFit 	★ M5130.038-T36-03-15	1,500	T36	1,500		0,591	3	0,7	3	BC . T160508R
	★ M5130.038-T36-04-15	1,500	T36	1,500		0,591	4	0,7	4	
	★ M5130.051-T45-06-15	2,000	T45	1,575		0,591	6	1,0	6	
Shank DIN 1835 B 	★ M5130.026-W26-02-15	1,000	1,000	1,850	4,131	0,591	2	0,7	3	BC . T160508R
	★ M5130.031-W31-03-15	1,250	1,250	1,500	3,781	0,591	3	1,0	3	
	★ M5130.038-W31-04-15	1,500	1,250	1,730	4,008	0,591	4	1,3	3	
Parallel shank 	★ M5130.026-A26-02-15	1,000	1,000	1,850	8,350	0,591	2	1,6	2	BC . T160508R
	★ M5130.031-A31-03-15	1,250	1,250	1,500	92,547	0,591	3	3,1	3	
Parallel bore DIN 138 transverse keyway 	★ M5130.051-B19-03-15	2,000	0,750	1,575		0,591	3	0,7	3	BC . T160508R
	★ M5130.051-B19-06-15	2,000	0,750	1,575		0,591	6	0,7	6	
	★ M5130.064-B26-04-15	2,500	1,000	1,575		0,591	4	1,1	4	
	★ M5130.064-B26-07-15	2,500	1,000	1,575		0,591	7	1,1	7	
	★ M5130.076-B26-05-15	3,000	1,000	1,969		0,591	5	2,5	5	
	★ M5130.076-B26-08-15	3,000	1,000	1,969		0,591	8	2,3	8	
	★ M5130.102-B38-05-15	4,000	1,500	2,480		0,591	5	5,3	5	
	★ M5130.102-B38-08-15	4,000	1,500	2,480		0,591	8	6,0	8	
	★ M5130.127-B38-07-15	5,000	1,500	2,480		0,591	7	7,5	7	
	★ M5130.127-B38-10-15	5,000	1,500	2,480		0,591	10	8,2	10	
	★ M5130.152-B38-08-15	6,000	1,500	2,480		0,591	8	10,4	8	
	★ M5130.152-B38-12-15	6,000	1,500	2,480		0,591	12	10,2	12	





Bodies and assembly parts are included in the scope of delivery.

/ ★ New addition to the product range

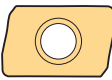
Assembly parts

D _c [Inch]	1,000–1,500	2,000	2,500–3,000	4,000–6,000
 Clamping screw for insert Tightening torque	FS2300 (Torx 15IP) 3,5 Nm	FS2300 (Torx 15IP) 3,5 Nm	FS2300 (Torx 15IP) 3,5 Nm	FS2300 (Torx 15IP) 3,5 Nm
 Clamping screw for arbour-mounted tools		FS1523	FS1519	FS1583

Accessories

D _c [Inch]	1,000–6,000
 Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
 Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
 Interchangeable blade	FS2014 (Torx 15IP)
 Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K				S			
			HC			HC			HC				HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
 BCGT160508R-G55	0,8	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
BCMT160508R-F55	0,8	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
BCMT160508R-G55	0,8	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
BCMT160508R-K55	0,8	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●● Primary application

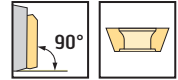
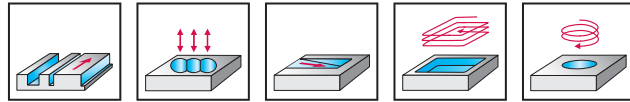
● Other application

Routing cutters

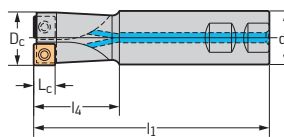
M4791 inch



– Four cutting edges per indexable insert



	P	M	K	N	S	H	O
M4791	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Shank DIN 1835 B	M4791.019-W19-01-06	0,750	0,750	1,529	3,560	0,220	1	0,3	2	SD .. 06T204
	M4791.026-W26-01-09	1,000	1,000	2,844	5,125	0,331	1	0,9	2	SD .. 09T30 ..
	M4791.031-W31-01-12	1,250	1,250	3,219	5,500	0,457	1	1,4	2	SD .. 120408
	M4791.038-W31-01-12	1,500	1,250	3,219	5,500	0,457	1	1,5	2	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	SD .. 06T204	SD .. 09T30 ..	SD .. 120408
Clamping screw for insert Tightening torque	FS2084 (Torx 7IP) 0,9 Nm	FS2266 (Torx 10IP) 2,0 Nm	FS1453 (Torx 15IP) 3,5 Nm

Accessories

Type	SD .. 06T204	SD .. 09T30 ..	SD .. 120408
Torque screwdriver, analogue Tightening torque	FS2002 0,4–1,2 Nm	FS2004 1,5–5,0 Nm	FS2004 1,5–5,0 Nm
Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm	FS2248 1,0–6,0 Nm
Interchangeable blade	FS2011 (Torx 7IP)	FS2268 (Torx 10IP)	FS2014 (Torx 15IP)
Screwdriver	FS2088 (Torx 7IP)	FS2267 (Torx 10IP)	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	P				M			K			N		S			
		HC				HC			HC			HC	HW	HC			
		WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WXN15	WK10	WSM35S	WSM45X
SDHT06T204-G88	0,4												☺	☺			
SDMT06T204-D51	0,4	☺	☺	☺	☺		☺			☺	☺	☺					☺
SDMT06T204-D57	0,4	☺	☺	☺	☺	☺	☺			☺	☺	☺			☺		☺
SDMT06T204-F57	0,4	☺	☺	☺	☺	☺	☺	☺		☺	☺	☺			☺	☺	☺
SDMW06T204-A57	0,4	☺	☺	☺						☺	☺	☺					
SDHT09T304-G88	0,4																
SDHT09T308-G88	0,8												☺	☺			
SDMT09T308-D51	0,8	☺	☺	☺	☺		☺			☺	☺	☺					☺
SDMT09T308-D57	0,8	☺	☺	☺	☺	☺	☺			☺	☺	☺			☺		☺
SDMT09T308-F57	0,8	☺	☺	☺	☺	☺	☺	☺		☺	☺	☺			☺	☺	☺
SDMW09T308-A57	0,8	☺	☺	☺						☺	☺	☺					
SDHT120408-G88	0,8												☺	☺			
SDMT120408-D51	0,8	☺	☺	☺	☺		☺			☺	☺	☺					☺
SDMT120408-D57	0,8	☺	☺	☺	☺	☺	☺			☺	☺	☺			☺		☺
SDMT120408-F57	0,8	☺	☺	☺	☺	☺	☺	☺		☺	☺	☺			☺	☺	☺
SDMW120408-A57	0,8	☺	☺	☺						☺	☺	☺					

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●●
Primary application

●
Other application

Porcupine milling cutters

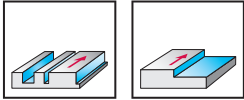
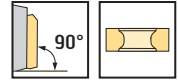
M3255 mm

XNHX1306 / LNHX1206 .. R

Walter BLAXX



- Full effective design
- Two or four cutting edges per indexable insert, tangential arrangement



	P	M	K	N	S	H	O
M3255					●●		

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M3255-050-B22-04-46	50	22	65	46	4	0,5	4 12	XNHX1306 .. R LNHX120604R
	M3255-050-B22-05-46	50	22	65	46	5	0,5	5 15	
	M3255-063-B27-05-46	63	27	70	46	5	1,0	5 15	
	M3255-063-B27-06-46	63	27	70	46	6	1,0	6 18	
	M3255-080-B32-05-58	80	32	85	58	5	2,0	5 25	
	M3255-080-B32-06-58	80	32	85	58	6	2,0	6 24	

For tools with locating bores, use longer tightening screws in accordance with ISO 4762, see "Assembly parts and accessories/Other"
 The FS2250 coolant nozzle must be secured to prevent it from coming loose.
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

		D _c [mm]	50-80
	Clamping screw for insert Tightening torque		FS2299 (Torx 15IP) 4 Nm
	Coolant nozzle		FS2250 (SW 1,5)

Accessories

		D _c [mm]	50-80
	Torque screwdriver, analogue Tightening torque		FS2003 1,5-5,0 Nm
	Torque screwdriver, digital Tightening torque		FS2248 1,0-6,0 Nm
	Interchangeable blade		FS2014 (Torx 15IP)
	Screwdriver		FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			N		S					
			HC			HC			HC			HC	HW	HC					
			WKP25S	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S		
LNHX120604R-L65T	0,4																		
XNHX130608R-L65T	0,8	2																	
XNHX130612R-L65T	1,2	2																	
XNHX130616R-L65T	1,6	2																	
XNHX130620R-L65T	2	2																	
XNHX130624R-L65T	2,4	2																	
XNHX130630R-L65T	3	1,4																	
XNHX130632R-L65T	3,2	1,3																	
XNHX130640R-L65T	4	0,5																	

XNHX1306 . . . indexable inserts can only be used as front inserts.

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

•• Primary application

• Other application

Porcupine milling cutters

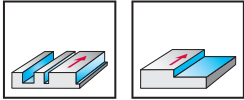
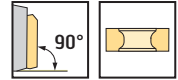
M3255 inch

XNHX1306 / LNHX1206 .. R

Walter BLAXX



- Full effective design
- Two or four cutting edges per indexable insert, tangential arrangement



	P	M	K	N	S	H	O
M3255					●●		

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	M3255.051-B19-04-46	2,000	0,750	2,559	1,811	4	1,28	4 12	XNHX1306 .. R LNHX120604R
	M3255.051-B19-05-46	2,000	0,750	2,559	1,811	5	1,11	5 15	
	M3255.051-B26-04-57	2,000	1,000	3,375	2,244	4	1,83	4 16	
	M3255.051-B26-05-57	2,000	1,000	3,375	2,244	5	1,47	5 20	
	M3255.064-B26-05-46	2,500	1,000	2,756	1,811	5	2,30	5 15	
	M3255.064-B26-06-46	2,500	1,000	2,756	1,811	6	2,29	6 18	
	M3255.064-B26-05-68	2,500	1,000	3,550	2,677	5	2,72	5 25	
	M3255.076-B31-05-58	3,000	1,250	3,346	2,283	5	4,37	5 20	
	M3255.076-B31-06-58	3,000	1,250	3,346	2,283	6	4,20	6 24	
	M3255.076-B31-05-80	3,000	1,250	4,250	3,150	5	5,07	5 30	
	M3255.076-B31-06-80	3,000	1,250	4,250	3,150	6	5,17	6 36	

The FS2250 coolant nozzle must be secured to prevent it from coming loose.
Bodies and assembly parts are included in the scope of delivery.

Assembly parts		D _c [Inch]	2,000	2,000	2,500	2,500	3,000	3,000
		L _c [Inch]	1,811	2,244	1,811	2,677	2,283	3,150
	Clamping screw for insert Tightening torque		FS2299 (Torx 15IP) 4 Nm	FS2299 (Torx 15IP) 4 Nm	FS2299 (Torx 15IP) 4 Nm	FS2299 (Torx 15IP) 4 Nm	FS2299 (Torx 15IP) 4 Nm	FS2299 (Torx 15IP) 4 Nm
	Coolant nozzle		FS2250 (SW 1,5)	FS2250 (SW 1,5)	FS2250 (SW 1,5)	FS2250 (SW 1,5)	FS2250 (SW 1,5)	FS2250 (SW 1,5)
	Clamping screw for arbour-mounted tools		FS1528	FS1614	FS1614	FS2567	FS1520	FS2568

Accessories		D _c [Inch]	2,000-3,000
	Torque screwdriver, analogue Tightening torque		FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque		FS2248 1,0–6,0 Nm
	Interchangeable blade		FS2014 (Torx 15IP)
	Screwdriver		FS1485 (Torx 15IP)

Designation	r mm	b mm	P			M			K			N		S					
			HC			HC			HC			HC	HW	HC					
			WKP25S	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S	WSM45X	WSP45S		
LNHX120604R-L65T	0,4																		
XNHX130608R-L65T	0,8	2																	
XNHX130612R-L65T	1,2	2																	
XNHX130616R-L65T	1,6	2																	
XNHX130620R-L65T	2	2																	
XNHX130624R-L65T	2,4	2																	
XNHX130630R-L65T	3	1,4																	
XNHX130632R-L65T	3,2	1,3																	
XNHX130640R-L65T	4	0,5																	

XNHX1306 . . . indexable inserts can only be used as front inserts.

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

Very good

Good

Moderate

●● Primary application

● Other application

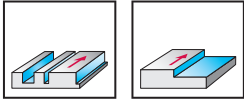
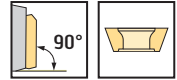
Porcupine milling cutters

M4258 modular

SDM . 120408 / LDM.1704 .. R



- Two or four cutting edges per indexable insert
- Half effective design with corner front piece



	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁₆ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Walter Capto™ in accordance with ISO 26623 	M4258-050-C6-02-75-M	50	C6	110	88	77	2	1,3	14 2	SDM . 120408 LDM . 1704 .. R
	M4258-063-C8-02-96-M	63	C8	150	115	98	2	3,1	18 2	
Walter Capto™ similar to ISO 26623 (without gripper groove) 	M4258-080-C8-03-116-M	80	C8	150	150	118	3	3,9	33 3	SDM . 120408 LDM . 1704 .. R

Body with 80 mm diameter: Adaptor without gripper groove
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		50	63–80
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Clamping screw for front piece Tightening torque	FS370 (SW 10) 40 Nm	FS373 (SW 12) 120,0 Nm

Accessories

D _c [mm]		50–80
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K				S			
			HC			HC			HC				HC			
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
	LDMT170408R-D51	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170408R-D57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170408R-F57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170412R-D51	1,2	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMW170408R-A57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-D51	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-D57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-F57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMW120408-A57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

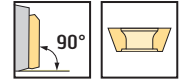
●● Primary application

● Other application

Porcupine milling cutter basic bodies

M4258 modular

SDM . 120408



- Two or four cutting edges per indexable insert
- Basic body for porcupine milling cutters

	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●	●●	●	●

Tool	Designation	D _c mm	d ₁ mm	l ₄ mm	l ₁₆ mm	L _c mm	Z	kg	No. of indexable inserts	Type
Walter Capto™ in accordance with ISO 26623 	M4258-050-C6-02-50-B	50	C6	85	62	52	2	1,2	10	SDM . 120408
	M4258-063-C8-02-60-B	63	C8	115	80	63	2	2,8	12	
Walter Capto™ similar to ISO 26623 (without gripper groove) 	M4258-080-C8-03-80-B	80	C8	115	115	83	3	3,3	25	SDM . 120408

Body with 80 mm diameter: Adaptor without gripper groove
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		50–80
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]		50–80
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	P			M			K			S					
		HC			HC			HC			HC					
		WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S
	SDMT120408-D51	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-D57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-F57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMW120408-A57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

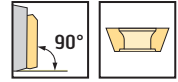
●●
Primary application

●
Other application

Porcupine milling cutter front piece

M4258 modular

SDM . 120408 / LDM.1704 .. R



- Two or four cutting edges per indexable insert
- Half effective design with corner front piece

	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c mm	L _c mm	Z	kg	No. of indexable inserts		Type
	M4258-050-P20-02-25-F	50	25	2	0,1	4	2	SDM . 120408 LDM . 1704 .. R
	M4258-063-P30-02-36-F	63	35	2	0,3	6	2	
	M4258-080-P40-03-36-F	80	35	3	0,6	9	3	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [mm]		50–80
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [mm]		50–80
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
	LDMT170408R-D51	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170408R-D57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170408R-F57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170412R-D51	1,2	1,6	☺	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
	LDMW170408R-A57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-D51	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-D57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-F57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMW120408-A57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☹
Moderate

●●
Primary application

●
Other application

C2

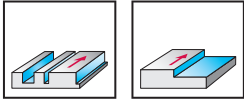
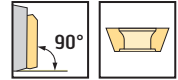
Porcupine milling cutters

M4258 modular inch

SDM . 120408 / LDM.1704 .. R



- Two or four cutting edges per indexable insert
- Half effective design with corner front piece



	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁₆ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Walter Capto™ in accordance with ISO 26623 	M4258.051-C6-02-75-M	2,000	C6	4,331	3,445	3,031	2	2,9	14 2	SDM . 120408 LDM . 1704 .. R
	M4258.064-C8-02-96-M	2,500	C8	5,906	4,528	3,858	2	7,0	18 2	
Walter Capto™ similar to ISO 26623 (without gripper groove) 	M4258.076-C8-03-116-M	3,000	C8	5,906	5,906	4,646	3	8,0	33 3	SDM . 120408 LDM . 1704 .. R

Body with 80 mm diameter: Adaptor without gripper groove
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	D _c [Inch]	2,000	2,500-3,000
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Clamping screw for front piece Tightening torque	FS370 (SW 10) 40 Nm	FS373 (SW 12) 120,0 Nm

Accessories

	D _c [Inch]	2,000-3,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5-5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0-6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

	Designation	r mm	b mm	P			M			K				S		
				HC			HC			HC				HC		
				WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S
	LDMT170408R-D51	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170408R-D57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170408R-F57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170412R-D51	1,2	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170408R-A57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMW170408R-A57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-D51	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-D57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-F57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMW120408-A57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●● Primary application

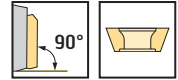
● Other application

C2

Porcupine milling cutter basic bodies

M4258 modular inch

SDM . 120408



- Two or four cutting edges per indexable insert
- Basic body for porcupine milling cutters

	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	d ₁ Inch	l ₄ Inch	l ₁₆ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Walter Capto™ in accordance with ISO 26623	M4258.051-C6-02-50-B	2,000	C6	3,346	2,441	2,047	2	2,6	10	SDM . 120408
	M4258.064-C8-02-60-B	2,500	C8	4,528	3,150	2,480	2	6,2	12	
Walter Capto™ similar to ISO 26623 (without gripper groove)	M4258.076-C8-03-80-B	3,000	C8	4,528	4,528	3,268	3	6,8	25	SDM . 120408

Body with 80 mm diameter: Adaptor without gripper groove
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		2,000-3,000
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [Inch]		2,000-3,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5-5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0-6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	P			M			K			S					
		HC			HC			HC			HC					
		WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X	WSP45S
SDMT120408-D51	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT120408-D57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMT120408-F57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SDMW120408-A57	0,8	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

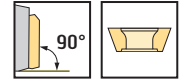
☺
Good

☺
Moderate

••
Primary application

•
Other application

Porcupine milling cutter front piece
M4258 modular inch
SDM . 120408 / LDM.1704 .. R



- Two or four cutting edges per indexable insert
- Half effective design with corner front piece

	P	M	K	N	S	H	O
M4258 modular	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _c Inch	L _c Inch	Z	lbs	No. of indexable inserts		Type
	M4258.051-P20-02-25-F	2,000	0,984	2	0,3	4	2	SDM . 120408 LDM . 1704 .. R
	M4258.064-P30-02-36-F	2,500	1,378	2	0,7	6	2	
	M4258.076-P40-03-36-F	3,000	1,378	3	1,3	9	3	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _c [Inch]		2,000–3,000
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _c [Inch]		2,000–3,000
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	r mm	b mm	P			M			K			S				
			HC			HC			HC			HC				
			WKP25S	WKP35G	WKP35S	WSP45S	WSM35S	WSM45X	WSP45S	WAK15	WKK25S	WKP25S	WKP35G	WKP35S	WSM35S	WSM45X
	LDMT170408R-D51	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170408R-D57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170408R-F57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LDMT170412R-D51	1,2	1,6	☺	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹	☹
	LDMW170408R-A57	0,8	1,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-D51	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-D57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMT120408-F57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	SDMW120408-A57	0,8		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☹
Moderate

●●
Primary application

●
Other application

C2

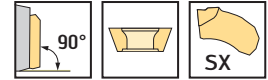
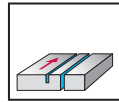
Slitting and slot milling cutters

F5055

Walter BLAXX



– One cutting edge per indexable insert



	P	M	K	N	S	H	O
F5055	●●	●	●●	●●	●		

Tool	Designation	D _c mm	d ₁ mm	SB mm	a _e mm	l ₁₀ mm	Z	kg	No. of indexable inserts	Type
Parallel bore DIN 138 longitudinal keyway	F5055.B16.063.Z05.1.5	63	16	1,5	15	1,2	5	0,05	5	SX-1
	F5055.B16.063.Z05.2.0	63	16	2	15	1,6	5	0,04	5	SX-2
	F5055.B16.063.Z04.3.0	63	16	3	15	2,4	4	0,06	4	SX-3
	F5055.B16.063.Z04.4.0	63	16	4	15	3,4	4	0,07	4	SX-4
	F5055.B16.080.Z07.1.5	80	16	1,5	19	1,2	7	0,06	7	SX-1
	F5055.B16.080.Z07.2.0	80	16	2	19	1,6	7	0,07	7	SX-2
	F5055.B16.080.Z06.3.0	80	16	3	19	2,4	6	0,09	6	SX-3
	F5055.B16.080.Z06.4.0	80	16	4	19	3,4	6	0,12	6	SX-4
	F5055.B22.100.Z09.1.5	100	22	1,5	25	1,2	9	0,10	9	SX-1
	F5055.B22.100.Z09.2.0	100	22	2	25	1,6	9	0,11	9	SX-2
	F5055.B22.100.Z09.3.0	100	22	3	25	2,4	9	0,14	9	SX-3
	F5055.B22.100.Z09.4.0	100	22	4	25	3,4	9	0,18	9	SX-4
	F5055.B32.125.Z11.1.5	125	32	1,5	33	1,2	11	0,15	11	SX-1
	F5055.B32.125.Z11.2.0	125	32	2	33	1,6	11	0,17	11	SX-2
	F5055.B32.125.Z11.3.0	125	32	3	33	2,4	11	0,23	11	SX-3
	F5055.B32.125.Z11.4.0	125	32	4	33	3,4	11	0,29	11	SX-4
	F5055.B40.160.Z14.2.0	160	40	2	38	1,6	14	0,29	14	SX-2
	F5055.B40.160.Z14.3.0	160	40	3	38	2,4	14	0,38	14	SX-3
	F5055.B40.160.Z14.4.0	160	40	4	38	3,4	14	0,5	14	SX-4
	F5055.B40.200.Z19.3.0	200	40	3	58	2,4	19	0,65	19	SX-3
F5055.B40.200.Z19.4.0	200	40	4	58	3,4	19	0,85	19	SX-4	
F5055.B40.250.Z24.3.0	250	40	3	83	2,4	24	1,07	24	SX-3	
F5055.B40.250.Z24.4.0	250	40	4	83	3,4	24	1,39	24	SX-4	
Parallel bore without longitudinal keyway	F5055.B50.500.Z40.5.0	500	50	5	120	4	40	5,7	40	SX-5

Values for a_e in combination with drive collar
For fitting the indexable insert, use the FS1494 or FS2249 mounting wrench

C2

Accessories		D _c [mm]	63	63	80	80	80	100	100	100	125	125	125	160	160	200	250	500	
		SB [mm]	1,5-2	3-4	1,5	2	3-4	1,5	2	3-4	1,5	2	3-4	2	3-4	3-4	3-4	5	
	Drive collar		FS1346	FS2291	FS1347	FS2292		FS1348			FS1349				FS1350				
	Mounting wrench		FS2249		FS1494		FS2249	FS1494	FS2249	FS1494									
	Ergonomic mounting wrench					FS2290		FS2290		FS2290						FS2290			
	Clamping screw for retaining washer																	FS966 (SW 5)	
	Tightening torque																	8,0 Nm	
	Retaining washer instead of drive collar																	FS1351	
	Key for clamping screw																	ISO2936-5 (SW 5)	

Drive collars and retaining washers should always be ordered in pairs.

Clamping screws for retaining washers are included in the scope of delivery.

Cutting inserts

Designation	s mm	r mm	P					M					K				N			S					
			HC					HC					HC				HC	HW	HC	HC					
			WKP23S	WKP25S	WSM33S	WKP35S	WSM43S	WSP45S	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S	WAK15	WKP23S	WKK25S	WKP25S	WKP35S	WXN15	WK10	WK1	WSM23S	WSM33S	WSM35S	WSM43S
SX-2E200N02-CE4	2	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-3E300N02-CE4	3	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-1E150N01-CE4	1,5	0,15		☺	☺	☺		☺	☺	☺											☺	☺	☺	☺	☺
SX-4E400N02-CE4	4	0,2	☺	☺	☺	☺		☺	☺	☺											☺	☺	☺	☺	☺
SX-5E500N04-CE4	5	0,4	☺	☺	☺	☺		☺	☺	☺											☺	☺	☺	☺	☺
SX-2E200N02-CF6	2	0,2		☺	☺	☺		☺	☺	☺												☺	☺	☺	☺
SX-3E300N02-CF6	3	0,2		☺	☺	☺		☺	☺	☺												☺	☺	☺	☺
SX-1E150N01-CF6	1,5	0,15		☺	☺	☺		☺	☺	☺												☺	☺	☺	☺
SX-5E500N04-CF5	5	0,4		☺	☺	☺		☺	☺	☺												☺	☺	☺	☺
SX-2E200N02-SF5	2	0,2		☺	☺	☺		☺	☺	☺												☺	☺	☺	☺
SX-3E300N02-SF5	3	0,2		☺	☺	☺		☺	☺	☺												☺	☺	☺	☺
SX-1E150N01-SF5	1,5	0,15		☺	☺	☺		☺	☺	☺												☺	☺	☺	☺
SX-4E400N02-SF5	4	0,2		☺	☺	☺		☺	☺	☺												☺	☺	☺	☺
SX-5E500N04-SF5	5	0,4		☺	☺	☺		☺	☺	☺												☺	☺	☺	☺
SX-2E200N02-SK8	2	0,2																			☺				
SX-3E300N02-SK8	3	0,2																			☺				
SX-1E150N01-SK8	1,5	0,1																			☺				
SX-4E400N02-SK8	4	0,2																			☺				
SX-5E500N04-SK8	5	0,4																			☺				

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

••
Primary application

•
Other application

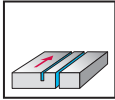
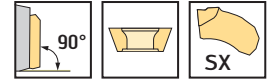
Slitting and slot milling cutters

F5055

Walter BLAXX



– One cutting edge per indexable insert



	P	M	K	N	S	H	O
F5055	●	●	●	●	●		

Tool	Designation	D _c mm	d ₁ mm	d ₆ mm	l ₄ mm	SB mm	a _e mm	Z	kg	No. of indexable inserts	Type	
ScrewFit 	F5055.T36.063.Z04.3,0R	63	36		75	3	15	4	0,6	4	SX-3	
	F5055.T45.080.Z06.3,0R	80	45		85	3	19	6	0,8	6		
	F5055.T36.063.Z04.4,0R	63	36		76	4	15	4	0,6	4	SX-4	
	F5055.T45.080.Z06.4,0R	80	45		86	4	19	6	0,8	6		
Parallel bore DIN 138 transverse keyway 	F5055.BN16.063.Z04.3,0R	63	16	35	40	3	15	4	0,03	4	SX-3	
	F5055.BN16.080.Z06.3,0R	80	16	40	40	3	19	6	0,06	6		
	F5055.BN22.100.Z09.3,0R	100	22	48	40	3	25	9	0,10	9		
	F5055.BN32.125.Z11.3,0R	125	32	58	50	3	33	11	1	11		
		F5055.BN40.160.Z14.3,0R	160	40	80	63	3	38	14	0,25	14	SX-4
		F5055.BN16.063.Z04.4,0R	63	16	35	41	4	15	4	0,05	4	
		F5055.BN16.080.Z06.4,0R	80	16	40	41	4	19	6	0,46	6	
		F5055.BN22.100.Z09.4,0R	100	22	48	41	4	25	9	0,14	9	
		F5055.BN32.125.Z11.4,0R	125	32	58	51	4	33	11	0,24	11	
		F5055.BN40.160.Z14.4,0R	160	40	80	64	4	38	14	0,40	14	

For fitting the indexable insert, use the FS1494 or FS2249 mounting wrench
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type D _c [mm]	SX-3/SX-4 63	SX-3/SX-4 80	SX-3/SX-4 100	SX-3/SX-4 125	SX-3/SX-4 160
	Bore adaptor part		AA704-B16-G16-040-A	AA704-B16-G16-040-B	AA704-B22-G22-040-B	AA704-B32-G32-050-B	AA704-B40-G40-063-B
	NCT ScrewFit adaptor		AA766-T36-G16-040	AA766-T45-G16-050			

Accessories		Type D _c [mm]	SX-3/SX-4 63	SX-3/SX-4 80-100	SX-3/SX-4 125	SX-3/SX-4 160
	Clamping screw for adaptor		FS938 (SW 6)	FS938 (SW 6)	FS938 (SW 6)	FS938 (SW 6)
	Clamping screw for milling cutter		FS2270 (Torx 15IP)	FS2270 (Torx 15IP)	FS2271 (Torx 20IP)	FS2272 (Torx 30IP)
	Tightening torque		6,5 Nm	6,5 Nm	7 Nm	8 Nm
	Mounting wrench for cutting insert		FS2249	FS1494	FS1494	FS1494
	Ergonomic mounting wrench			FS2290	FS2290	FS2290
	Torque T-handle		FS2041	FS2041	FS2041	FS2041
	Tightening torque		4,5-14 Nm	4,5-14 Nm	4,5-14 Nm	4,5-14 Nm
	Screwdriver		FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1175 (Torx 30)
	Adaptor clamping screw Allen key		ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)
	Interchangeable blade		FS2047 (Torx 15IP)	FS2047 (Torx 15IP)	FS2048 (Torx 20IP)	FS2046 (Torx 30)

Designation	s mm	r mm	P						M					K				N			S				
			HC						HC					HC				HC			HC				
			WKP23S	WKP25S	WSM33S	WKP35S	WSM43S	WSP45S	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S	WAK15	WKP23S	WKK25S	WKP25S	WKP35S	WXN15	WK10	WK1	WSM23S	WSM33S	WSM35S	WSM43S
SX-3E300N02-CE4	3	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-4E400N02-CE4	4	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-3E300N02-CF6	3	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-3E300N02-SF5	3	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-4E400N02-SF5	4	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-3E300N02-SK8	3	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-4E400N02-SK8	4	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●●
Primary application

●
Other application

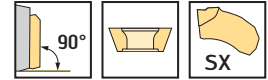
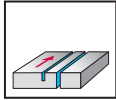
Slitting and slot milling cutters

F5055 inch

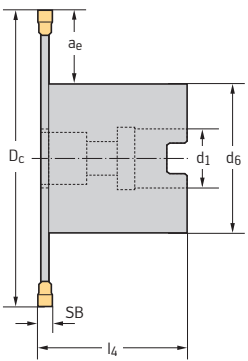
Walter BLAXX



– One cutting edge per indexable insert



	P	M	K	N	S	H	O
F5055	●	●	●	●	●	●	●

Tool	Designation	D _c Inch	d ₁ Inch	d ₆ Inch	l ₄ Inch	SB Inch	a _e Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore DIN 138 transverse keyway 	F5055.UBN16.063.Z04.3,0R	2,480	0,500	1,378	1,575	0,118	0,591	4	0,6	4	SX-3
	F5055.UBN16.080.Z06.3,0R	3,150	0,500	1,575	1,575	0,118	0,748	6	0,9	6	
	F5055.UBN22.100.Z09.3,0R	3,937	0,750	1,575	1,575	0,118	0,984	9	1,3	9	
	F5055.UBN32.125.Z11.3,0R	4,921	1,000	3,150	1,969	0,118	1,299	11	2,3	11	
	F5055.UBN40.160.Z14.3,0R	6,299	1,500	2,283	2,480	0,118	1,496	14	4,8	14	
	F5055.UBN16.063.Z04.4,0R	2,480	0,500	1,378	1,614	0,157	0,591	4	0,6	4	SX-4
	F5055.UBN16.080.Z06.4,0R	3,150	0,500	3,150	1,614	0,157	0,748	6	1,0	6	
	F5055.UBN22.100.Z09.4,0R	3,937	0,750	1,890	1,614	0,157	0,984	9	1,4	9	
	F5055.UBN32.125.Z11.4,0R	4,921	1,000	1,890	2,008	0,157	1,299	11	4,4	11	
	F5055.UBN40.160.Z14.4,0R	6,299	1,500	2,283	2,520	0,157	1,496	14	5,1	14	

Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Type D _c [Inch]	SX-3/SX-4 2,480	SX-3/SX-4 3,150	SX-3/SX-4 3,937	SX-3/SX-4 4,921	SX-3/SX-4 6,299
	Bore adaptor part		AA704.B13-G16-040-A	AA704.B13-G16-040-B	AA704.B19-G22-040-B	AA704.B26-G32-050-B	AA704.B38-G40-062-B

Accessories		Type D _c [Inch]	SX-3/SX-4 2,480	SX-3/SX-4 3,150	SX-3/SX-4 3,937	SX-3/SX-4 4,921	SX-3/SX-4 6,299
	Clamping screw for adaptor		FS938 (SW 6)	FS938 (SW 6)	FS939 (SW 8)	FS941 (SW 14)	FS942 (SW 17)
	Clamping screw for milling cutter		FS2270 (Torx 15IP)	FS2270 (Torx 15IP)	FS2270 (Torx 15IP)	FS2271 (Torx 20IP)	FS2272 (Torx 30IP)
	Tightening torque		6,5 Nm	6,5 Nm	6,5 Nm	7 Nm	8 Nm
	Mounting wrench for cutting insert		FS2249	FS1494	FS1494	FS1494	FS1494
	Ergonomic mounting wrench			FS2290	FS2290	FS2290	FS2290
	Adaptor clamping screw Allen key		ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)	ISO2936-6 (SW 6)
	Torque T-handle		FS2041	FS2041	FS2041	FS2041	FS2041
	Tightening torque		4,5–14 Nm	4,5–14 Nm	4,5–14 Nm	4,5–14 Nm	4,5–14 Nm
	Screwdriver		FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1485 (Torx 15IP)	FS1486 (Torx 20IP)	FS1175 (Torx 30)
	Interchangeable blade		FS2047 (Torx 15IP)	FS2047 (Torx 15IP)	FS2047 (Torx 15IP)	FS2048 (Torx 20IP)	FS2046 (Torx 30)

Designation	s mm	r mm	P						M					K				N			S				
			HC						HC					HC				HC			HC				
			WKP23S	WKP25S	WSM33S	WKP35S	WSM43S	WSP45S	WSM23S	WSM33S	WSM35S	WSM43S	WSP45S	WAK15	WKP23S	WKK25S	WKP25S	WKP35S	WXN15	WK10	WK1	WSM23S	WSM33S	WSM35S	WSM43S
SX-3E300N02-CE4	3	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-4E400N02-CE4	4	0,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
SX-3E300N02-CF6	3	0,2			☺	☺			☺	☺											☺	☺	☺	☺	☺
SX-3E300N02-SF5	3	0,2			☺	☺			☺	☺											☺	☺	☺	☺	☺
SX-4E400N02-SF5	4	0,2			☺	☺			☺	☺											☺	☺	☺	☺	☺
SX-3E300N02-SK8	3	0,2																	☺						
SX-4E400N02-SK8	4	0,2																	☺						

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

☺
Good

☺
Moderate

●● Primary application

● Other application

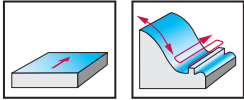
Copy milling cutters with round inserts

M2471 mm

RNMX1206M0



- For roughing turbine blades
- Eight cutting edges per indexable insert




	P	M	K	N	S	H	O
M2471	●●	●●	●	●	●●	●	●





Tool	Designation	R mm	D _a mm	d ₁ mm	l ₄ mm	L _c mm	Z	kg	No. of indexable inserts	Type
ScrewFit 	M2471-032-T28-03-06	6	32	T28	40	6	3	0,2	3	RNMX1206M0
	M2471-040-T36-04-06	6	40	T36	40	6	4	0,3	4	
Parallel bore DIN 138 transverse keyway 	M2471-050-B22-05-06	6	50	22	40	6	5	0,5	5	RNMX1206M0
	M2471-052-B22-05-06	6	52	22	40	6	5	0,4	5	
	M2471-063-B22-07-06	6	63	22	40	6	7	0,4	7	

Bodies and assembly parts are included in the scope of delivery.








Assembly parts

D _a [mm]		32–63
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm

Accessories

D _a [mm]		32–63
	Torque screwdriver, analogue Tightening torque	FS2003 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)


Indexable inserts


Designation	d mm	P		M		K			N		S		
		HC		HC		HC			HC	HW	HC		
		WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S
 RNMX1206M0-D57	12												
RNMX1206M0-F67	12												


HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement


Very good


Good


Moderate

•• Primary application

• Other application

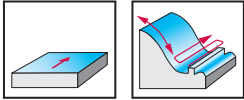
Copy milling cutters with round inserts

M2471 inch

RNMX1206M0

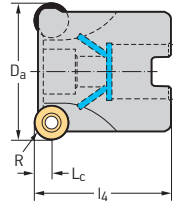


- For roughing turbine blades
- Eight cutting edges per indexable insert



	P	M	K	N	S	H	O
M2471	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	R Inch	D _a Inch	d ₁ Inch	l ₄ Inch	L _c Inch	Z	lbs	No. of indexable inserts	Type
Parallel bore	M2471.051-B19-05-06	0,236	2,000	0,750	1,500	0,236	5	0,6	5	RNMX1206M0
DIN 138 transverse keyway	M2471.064-B26-07-06	0,236	2,500	1,000	1,750	0,236	7	1,3	7	



Bodies and assembly parts are included in the scope of delivery.

Assembly parts

D _a [Inch]		2,000	2,500
	Clamping screw for insert Tightening torque	FS1453 (Torx 15IP) 3,5 Nm	FS1453 (Torx 15IP) 3,5 Nm
	Clamping screw for arbour-mounted tools	FS1523	FS1586

Accessories

D _a [Inch]		2,000–2,500
	Torque screwdriver, analogue Tightening torque	FS2004 1,5–5,0 Nm
	Torque screwdriver, digital Tightening torque	FS2248 1,0–6,0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)
	Screwdriver	FS1485 (Torx 15IP)

Indexable inserts

Designation	d mm	P		M		K			N		S		
		HC		HC		HC			HC	HW	HC		
		WKP25S	WKP35S	WSP45S	WSM35S	WSP45S	WAK15	WKK25S	WKP25S	WKP35S	WXN15	WK10	WSM35S
	RNMX1206M0-D57			☒	☒								☒
	RNMX1206M0-F67			☒	☒								☒

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

☺
Very good

😊
Good

😐
Moderate

●●
Primary application

●
Other application

Cutting data for roughing WKP35G/WMP45G

Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R_m N/mm ²	Machining group ¹	= Cutting data for wet machining = Dry machining is possible		Cutting material grades	
						Starting values for cutting speed v_c [m/min]		HC	
						Face/shoulder milling WKP35G		a_e / D_c^*	
							1/1 1/2	1/5	
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	428	P1	● ●●	250	300
		C > 0.25 ... ≤ 0.55%	Annealed	190	639	P2	● ●●	220	260
		C > 0.25 ... ≤ 0.55%	Heat-treated	210	708	P3	● ●●	215	250
		C > 0.55%	Annealed	190	639	P4	● ●●	220	260
		C > 0.55%	Heat-treated	300	1013	P5	● ●●	160	180
	Free-machining steel (short-chipping)	Annealed	220	745	P6	● ●●	210	240	
	Low-alloy steel	Annealed	175	591	P7	● ●●	220	270	
		Heat-treated	300	1013	P8	● ●●	170	190	
		Heat-treated	380	1282	P9	● ●●	130	150	
		Heat-treated	430	1477	P10	● ●●	110	130	
	High-alloyed steel and high-alloyed tool steel	Annealed	200	675	P11	● ●●	130	160	
		Hardened and tempered	300	1013	P12	● ●●	80	90	
		Hardened and tempered	400	1361	P13	● ●●	70	80	
	Stainless steel	Ferritic/martensitic, annealed	200	675	P14	● ●●	140	160	
		Martensitic, heat-treated	330	1114	P15	● ●●	90	110	
M	Stainless steel	Austenitic, quench hardened	200	675	M1	●● ●			
		Austenitic, precipitation hardened (PH)	300	1013	M2	●● ●			
		Austenitic/ferritic, duplex	230	778	M3	●● ●			
K	Malleable cast iron	Ferritic	200	675	K1	● ●●	160	190	
		Pearlitic	260	867	K2	● ●●	140	170	
	Grey cast iron	Low tensile strength	180	602	K3	● ●●	300	330	
		High tensile strength/austenitic	245	825	K4	● ●●	190	220	
	Cast iron with spheroidal graphite	Ferritic	155	518	K5	● ●●	200	220	
		Pearlitic	265	885	K6	● ●●	130	150	
	GGV (CGI)		200	675	K7	● ●●	130	160	
N	Wrought aluminium alloys	Not hardenable	30	-	N1	●●			
		Hardenable, hardened	100	343	N2	●●			
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3	●●			
		≤ 12% Si, hardenable, hardened	90	314	N4	●●			
		> 12% Si, not hardenable	130	447	N5	●●			
	Magnesium-based alloys ³		70	250	N6	●●			
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	343	N7	●●			
		Brass, bronze, red brass	90	314	N8	●●			
		Cu alloys, short-chipping	110	382	N9	●●			
		High-tensile, Ampco	300	1013	N10	●●			
S	Heat-resistant alloys	Fe-based	Annealed	200	675	S1	●●		
			Hardened	280	943	S2	●●		
		Ni- or Co-based	Annealed	250	839	S3	●●		
			Hardened	350	1177	S4	●●		
			Cast	320	1076	S5	●●		
	Titanium alloys	Pure titanium	200	675	S6	●●			
		α and β alloys, hardened	375	1262	S7	●●			
		β alloys	410	1396	S8	●●			
	Tungsten alloys		300	1013	S9	●●			
	Molybdenum alloys		300	1013	S10	●●			
H	Hardened steel	Hardened and tempered	50 HRC	-	H1	●●			
		Hardened and tempered	55 HRC	-	H2	●●			
		Hardened and tempered	60 HRC	-	H3	●●			
	Hardened cast iron	Hardened and tempered	55 HRC	-	H4	●●			
O	Thermoplastics	Without abrasive fillers			O1	●● ●	400	400	
	Thermosets	Without abrasive fillers			O2	●● ●	300	300	
	Plastic, glass-fibre-reinforced	GFRP			O3				
	Plastic, carbon-fibre-reinforced	CFRP			O4				
	Plastic, aramid-fibre-reinforced	AFRP			O5				
	Graphite (technical)		80 Shore		O6	●●			

- Recommended application (the specified cutting data is regarded as starting values for the recommended application)
- Possible application, reduce cutting data by 30–50% (increase by approx. 70–80% for ISO M)

¹ The classification of the machining groups can be found from page C 671 onwards in the Walter General Catalogue 2017.

² Cutting data can also be used without coolant.

* $a_e / D_c = 1 / 10$, $v_c = 10\%$ higher than 1 / 5

³ Water-miscible coolants must not be used when machining magnesium alloys.

Feed determination (starting values)

Cutter type		M3024	M4003	M5009		
Material group	<p>Feed per tooth f_{z0} for $a_e = D_c$ $a_p = a_{p \max} = L_c$</p>					
	Lead angle κ	90°	45°			
	Tool diameter or diameter range [mm]	f_{z0} [mm]	f_{z0} [mm]	f_{z0} [mm]	f_{z0} [mm]	
	Maximum depth of cut $a_{p \max} = L_c$ [mm]	63–160	20–100	25–160	25–100	
		6.0	4.5	6.5	5.0	
P	Non-alloyed steel ¹	0,45	0,20	0,25	0,19	
	Low-alloy steel	0,40	0,15	0,20	0,15	
	High-alloyed steel and tool steel	0,32	0,15	0,20	0,15	
	Stainless steel	0,22	0,12	0,15	0,11	
M	Stainless steel ²	0,17	0,10	0,12	0,09	
K	Malleable cast iron	0,32	0,20	0,25	0,19	
	Grey cast iron	0,55	0,25	0,30	0,23	
	Cast iron with spheroidal graphite	0,45	0,20	0,25	0,19	
	GGV (CGI)	0,27	0,17	0,20	0,15	
N	Wrought aluminium alloys		0,12	0,15	0,11	
	Cast aluminium alloys		0,12	0,15	0,11	
	Magnesium alloys		0,10	0,12	0,09	
	Copper and copper alloys (bronze/brass)		0,10	0,12	0,09	
S	Heat-resistant alloys		0,10	0,12	0,09	
	Titanium alloys		0,10	0,12	0,09	
	Tungsten alloys		0,10	0,12	0,09	
	Molybdenum alloys		0,10	0,12	0,09	
H	Hardened steel				0,09	
	Hardened cast iron				0,11	
O	Thermoplastics		0,10	0,15	0,11	
	Plastic, carbon-fibre-reinforced			0,15		
	Graphite (technical)		0,10		0,11	
Indexable insert types		XNMLJ0906..	SD..09T3AZN..	SD..1204AZN..	SN.X0904..	
Correction factor K_{a_e}	$a_e / D_c = 1/1-1/2$	1,0	1,0	1,0	1,0	
	$1/5$	1,1	1,1	1,1	1,1	
	for the feed per tooth depending on the ratio of width of cut a_e to milling cutter diameter D_c	$1/10$	1,2	1,2	1,2	1,2
	$1/20$	1,3	1,3	1,3	1,3	
Correction factor K_{a_p}	$a_p = 1$					
	for the feed per tooth depending on the depth of cut a_p	2				
	3					
	4					
	6					
$f_z = f_{z0} \cdot K_{a_e} \cdot K_{a_p}$	8					
	$a_{p \max} = L_c$					

¹ and steel casting

² and austenitic/ferritic

* only possible if $a_p < 0.75 \times D_c$

** only with $a_e/D_c < 1/5$

The specified feed rates are average standard values.
For specific applications, adjustment is recommended.

	M2136		M2331				M4130					
	90°		90°		90°		90°			90°		
	f _{Z0} [mm]		f _{Z0} [mm]		f _{Z0} [mm]		f _{Z0} [mm]	f _{Z0} [mm]	f _{Z0} [mm]	f _{Z0} [mm]	f _{Z0} [mm]	f _{Z0} [mm]
	50-160		32-50	40-50	32-50	40-50	16-25	32-50	50-100	16-20	25-50	50-100
	6,5		15	20	15	20	8	13	16	8	13	16
							0,15	0,20	0,25	0,13	0,17	0,22
							0,10	0,15	0,17	0,09	0,13	0,17
							0,10	0,15	0,17	0,09	0,13	0,17
							0,08	0,12	0,15	0,07	0,10	0,13
							0,08	0,10	0,12	0,07	0,09	0,10
	0,20						0,12	0,20	0,25	0,10	0,17	0,22
	0,25						0,15	0,25	0,30	0,13	0,22	0,27
	0,20						0,12	0,20	0,25	0,10	0,17	0,22
	0,15						0,10	0,15	0,17	0,10	0,17	0,22
			0,15	0,20	0,13	0,18						
			0,12	0,15	0,13	0,18						
			0,12	0,12	0,13	0,18						
			0,10	0,10	0,11	0,13						
							0,08	0,12	0,15	0,07	0,10	0,13
							0,08	0,12	0,15	0,07	0,10	0,13
							0,08	0,12	0,15	0,07	0,10	0,13
							0,08	0,12	0,15	0,07	0,10	0,13
			0,15	0,15			0,12	0,17	0,20	0,12	0,17	0,20
			0,12	0,12			0,10	0,15	0,15	0,10	0,15	0,15
	SNEF1204..	ZDGT15A4..	ZDGT20A..	ZDGT15A4..	ZDGT20A5..	LD..08T2..	LD..14T3..	LD..1704..	LD..08T2..	LD..14T3..	LD..1704..	
	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	
	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	
	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	
	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	

Feed determination (starting values)

Material group	Cutter type	M5130		M5130		M2471	
	Feed per tooth f_{z0} for $a_e = D_c$ $a_p = a_{p \max} = L_c$	For shoulder milling operations		For circular interpolation milling operations			
	Lead angle κ	90°		90°		90°	
						f_{z0} (mm)	
	Tool diameter or diameter range (mm)	f_{z0} [mm]	f_{z0} [mm]	f_{z0} [mm]	f_{z0} [mm]	32–40	40–63
	Maximum depth of cut $a_{p \max} = L_c$ (mm)	10–63	25–160	10–63	25–160	6	6
P	Non-alloyed steel ¹	0.12	0.26	0.10	0.23	0.17	0.22
	Low-alloy steel	0.08	0.19	0.07	0.17	0.17	0.15
	High-alloyed steel and tool steel	0.08	0.19	0.07	0.17	0.13	0.15
	Stainless steel	0.06	0.16	0.06	0.14	0.09	0.11
M	Stainless steel ²	0.06	0.13	0.06	0.11	0.09	0.11
K	Malleable cast iron	0.10	0.26	0.08	0.23		
	Grey cast iron	0.12	0.32	0.10	0.28		
	Cast iron with spheroidal graphite	0.10	0.26	0.08	0.23		
	GGV (CGI)	0.08	0.19	0.08	0.23		
N	Wrought aluminium alloys	0.08		0.08			
	Cast aluminium alloys	0.10		0.08			
	Magnesium alloys	0.08		0.07			
	Copper and copper alloys (bronze/brass)	0.06		0.07			
S	Heat-resistant alloys	0.06	0.16	0.06	0.14	0.09	0.11
	Titanium alloys	0.06	0.16	0.06	0.14	0.09	0.11
	Tungsten alloys	0.06	0.16	0.06	0.14	0.09	0.11
	Molybdenum alloys	0.06	0.16	0.06	0.14	0.09	0.11
H	Hardened steel	0.06	0.13				
	Hardened cast iron	0.08	0.15				
O	Thermoplastics	0.10		0.10			
	Plastic, carbon-fibre-reinforced						
	Graphite (technical)	0.08	0.16	0.08	0.16		
Indexable insert types		AC.0602..	BC.1605..	AC.0602..	BC.1605..	RNM.X1206..	RNM.X1206..
Correction factor K_{a_e}	$a_e / D_c =$	1.0	1.0	1.0	1.0	1.0	1.0
	1/1–1/2						
	1/5	1.1	1.1	1.1	1.1	1.2	1.2
for the feed per tooth depending on the ratio of width of cut a_e to milling cutter diameter D_c	1/10	1.2	1.2	1.2	1.2	1.5	1.5
	1/20	1.3	1.3	1.3	1.3	1.8	1.8
	1/50					2.0	2.0
	$a_p =$					1.5	1.6
	2					1.2	1.3
Correction factor K_{a_p} for the feed per tooth depending on the depth of cut a_p	3					1.0	1.1
	4					1.0	1.0
	6						
	8						
$f_z = f_{z0} \cdot K_{a_e} \cdot K_{a_p}$	$a_{p \max} = L_c$						

¹ and steel casting

² and austenitic/ferritic

* only possible if $a_p < 0.75 \times D_c$

** only with $a_e/D_c < 1/5$

The specified feed rates are average standard values.
For specific applications, adjustment is recommended.

Cutter type		F5055				
Material group	Feed per tooth f_{z0} for plunging, central positioning					
	Lead angle κ					
		f_{z0} [mm]				
	Tool diameter or diameter range [mm]	63-125	63-160	63-250	63-250	500
	Maximum cutting width SB [mm]	1,5	2,0	3,0	4,0	5,0
P	Non-alloyed steel ¹	0,06	0,08	0,10	0,12	0,12
	Low-alloy steel	0,06	0,07	0,09	0,11	0,10
	High-alloy steel and tool steel	0,06	0,07	0,09	0,11	0,10
	Stainless steel	0,05	0,06	0,08	0,09	0,05
M	Stainless steel ²	0,05	0,06	0,08	0,09	0,05
K	Malleable cast iron	0,06	0,07	0,09	0,11	0,12
	Grey cast iron	0,06	0,08	0,10	0,12	0,14
	Cast iron with spheroidal graphite GGV (CGI)	0,06	0,07	0,09	0,11	0,12
						0,10
N	Wrought aluminium alloys					0,12
	Cast aluminium alloys					0,10
	Magnesium-based alloys ³					0,10
	Copper and copper alloys (bronze/brass)					0,10
S	Heat-resistant alloys	0,05	0,06	0,08	0,09	0,05
	Titanium alloys	0,05	0,06	0,08	0,09	0,05
	Tungsten alloys	0,05	0,06	0,08	0,09	0,05
	Molybdenum alloys	0,05	0,06	0,08	0,09	0,05
H	Hardened steel					
	Hardened cast iron					
O	Thermoplastics					
	Plastic, carbon-fibre-reinforced					
	Graphite (technical)					
Indexable insert types		SX-1E15..	SX-2E20..	SX-3E30..	SX-4E40..	SX-5E50..
Correction factor K_{ae} for the feed per tooth depending on the ratio of depth of cut a_e to milling cutter diameter D_c	central	1,5	1,5	1,5	1,5	
	$a_e / D_c = 1/3$	1,8	1,8	1,8	1,8	1,0
	$1/5$	2,5	2,5	2,5	2,5	1,2
	$1/10$	3,3	3,3	3,3	3,3	1,4
	$1/20$	5,8	5,8	5,8	5,8	1,5
$f_z = f_{z0} \cdot K_{ae}$	$1/50$	5,8	5,8	5,8	5,8	5,8

¹ and steel casting

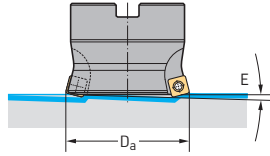
² and austenitic/ferritic

³ Water-miscible coolants must not be used when machining magnesium-based alloys

Please note: The feed per tooth f_z should not exceed 0.6 mm

Application information for M4002/F2010 high-feed face milling cutters

Ramping



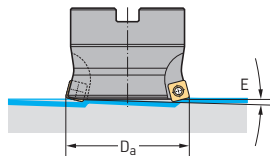
Maximum feed angle E [°]

D _a [mm]	SD..06T2..						ZDR
	r = 0,4	r = 0,8	r = 1,2	r = 1,6	r = 2,0	r = 2,5	
20	3,7	2,9	2,2				1,5
25	2,2	1,8	1,4				0,6
32	1,3	1	0,7				0,4
35	1,2	1	0,7				0,5
40	1,1	0,9	0,7				0,3
42	0,8	0,7	0,5				0,3
50	0,8	0,7	0,5				0,3
52	0,7	0,6	0,5				0,3
63	0,6	0,4	0,3				0,2
66	0,5	0,4	0,3				0,2

D _a [mm]	SD..09T3..						ZDR
	r = 0,4	r = 0,8	r = 1,2	r = 1,6	r = 2,0	r = 2,5	
25	4,3	3,5	2,8	2,3	1,2		1,2
32	3,6	3,1	2,7	2,3	1,9		1,8
35	2,9	2,5	2,2	1,9	1,5		1,6
40	2,2	1,9	1,6	1,4	1,2		1,2
42	2	1,7	1,5	1,3	1		1
50	1,5	1,3	1,1	1	0,8		0,8
52	1,3	1,2	1	0,8	0,7		0,7
63	1	0,8	0,7	0,6	0,5		0,5
66	0,9	0,8	0,7	0,6	0,4		0,4

D _a [mm]	SD..120408..						ZDR
	r = 0,4	r = 0,8	r = 1,2	r = 1,6	r = 2,0	r = 2,5	
50		1,9	1,7	1,5	1,3	1	1
52		1,8	1,6	1,4	1,2	0,9	0,9
63		1,2	1,1	0,9	0,8	0,6	0,6
66		1,1	1	0,9	0,7	0,6	0,6
80		0,8	0,7	0,6	0,5	0,4	0,4
85		0,7	0,7	0,6	0,5	0,4	0,3
100		0,5	0,4	0,4	0,3	0,2	0,2
125		0,4	0,4	0,3	0,3	0,2	0,2

Ramping



Maximum feed angle E [°]

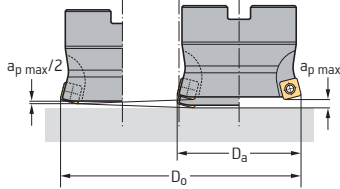
D _a [inch]	SD..06T2..						ZDR
	r = 0.016	r = 0.031	r = 0.047	r = 0.063	r = 0.079	r = 0.098	
0.750	4,2	3,3	2,5				1,5
1.000	2,2	1,6	1,2				0,7
1.250	1,4	1,1	0,8				0,5
1.500	1,2	0,9	0,7				0,3
2.000	0,7	0,6	0,4				0,3
2.500	0,4	0,3	0,2				0,1

D _a [inch]	SD..09T3..						ZDR
	r = 0.016	r = 0.031	r = 0.047	r = 0.063	r = 0.079	r = 0.098	
1.000	4	3,3	2,6	1,9	1,3		1,2
1.250	3,6	3,2	2,8	2,3	2		2
1.500	2,4	2,1	1,8	1,5	1,3		1,3
2.000	1,4	1,2	1	0,9	0,7		0,7
2.500	1	0,8	0,7	0,6	0,5		0,5

D _a [inch]	SD..1204..						ZDR
	r = 0.0157	r = 0.0315	r = 0.0472	r = 0.0623	r = 0.0787	r = 0.0984	
2.000		1,9	1,6	1,4	1,2	1,0	1,0
2.500		1,2	1,1	0,9	0,8	0,6	0,6
3.000		0,9	0,8	0,7	0,6	0,5	0,4
4.000		0,5	0,4	0,3	0,3	0,2	0,2

Application information for M4002/F2010 high-feed face milling cutters

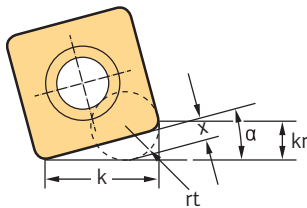
Circular interpolation of a hole into solid material



Diameter range for milling a hole in one pass [mm]/[inch]

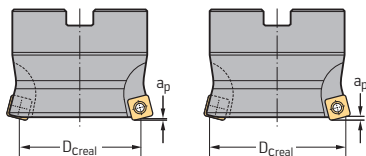
D _A [mm]	Indexable insert					
	SD..06T204		SD..09T308		SD..120408	
	D _{0 min} [mm]	D _{0 max} [mm]	D _{0 min} [mm]	D _{0 max} [mm]	D _{0 min} [mm]	D _{0 max} [mm]
20	28.6	40				
25	38.6	50	33.26	50		
32	52.6	64	47.26	64		
35	58.6	70	53.26	70		
40	68.6	80	63.26	80		
42	72.6	84	67.26	84		
50	88.6	100	83.26	100	77.12	100
52	92.6	104	87.26	104	81.12	104
63	114.6	126	109.26	126	103.12	126
66	120.6	132	115.26	132	109.12	132
80					137.12	160
85					147.12	170
100					177.12	200
125					227.12	250
D _a [inch]	D _{0 min} [inch]	D _{0 max} [inch]	D _{0 min} [inch]	D _{0 max} [inch]	D _{0 min} [inch]	D _{0 max} [inch]
0.75	1.051	1.500				
1.00	1.551	2.000	1.341	2.000		
1.25	2.051	2.500	1.841	2.500		
1.50	2.551	3.000	2.341	3.000		
2.00	3.551	4.000	3.341	4.000	3.099	4.000
2.50	4.551	5.000	4.341	5.000	4.099	5.000
3.00					5.099	6.000
4.00					7.099	8.000

Programming information



Indexable insert	α [°]	rt		x		kr		k	
		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]
SD..06T212	15	2,1	0.083	0,68	0.027	2,2	0.087	4,86	0.191
SD..06T2ZDR	15	1,3	0.051	0,72	0.028	2,63	0.104	4,29	0.169
SD..06T204	15	1,7	0.067	1	0.039	1,83	0.072	5,7	0.224
SD..09T320	15	3,3	0.130	0,94	0.037	3,41	0.134	7,07	0.278
SD..09T3ZDR	15	2,4	0.094	1,09	0.043	3,65	0.144	6,9	0.272
SD..09T308	15	2,7	0.106	1,43	0.056	2,83	0.111	8,37	0.330
SD..120425	15	4,3	0.169	1,32	0.052	4,46	0.176	9,61	0.378
SD..1204ZDR	15	3,1	0.122	1,58	0.062	4,85	0.191	9,31	0.367
SD..120408	15	3,5	0.138	2,02	0.080	3,65	0.144	11,44	0.450

Increase in productivity

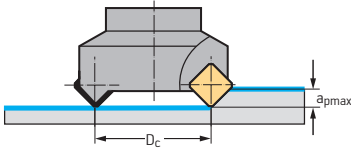


$$D_{c \text{ real}} \approx D_c + 8 \cdot a_p$$

- In order to achieve an increase in productivity, it is recommended to use the $D_{c \text{ real}}$ when calculating the cutting data.
- The $D_{c \text{ real}}$ depends on the depth of cut a_p (see figure).

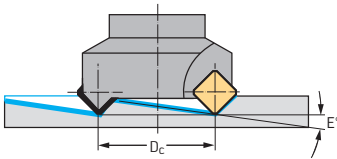
Application information for M4003/F2010 face milling cutters

Face milling

 Maximum milling depth a_p [mm]


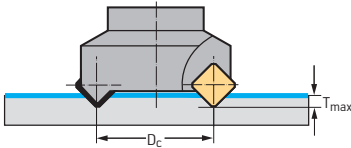
	SD .. 09T3AZN	SD .. 1204AZN
a_p	4,5	6,5

Ramping

 Maximum feed angle E [°]


D_c [mm]	Metric		Inch			
	SD..09T3AZN..	SD..1204AZN..	D_c [mm]	D_c [inch]	SD..09T3AZN..	SD..1204AZN..
20	23,2		19,05	0,75	25,0	
25	16,9	25,9	25,4	1	16,5	25,3
32	12,1	17,9	31,75	1,25	12,3	18,1
40	9,1	13,2	38,1	1,5	9,7	14,0
50	7,0	9,8	50,8	2	6,8	9,6
63	5,3	7,4	63,5	2,5	5,3	7,3
80	4,0	5,6	76,2	3	4,3	5,9
100	3,1	4,3	101,6	4	3,1	4,2
125		3,4	127	5		3,3
160	6,8	2,6	152,4	6		2,7

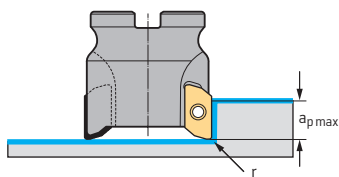
Vertical plunging

 Maximum plunging depth T_{max} [mm]


	SD..09T3AZN..	SD..1204AZN..
T_{max}	4,5	6,0

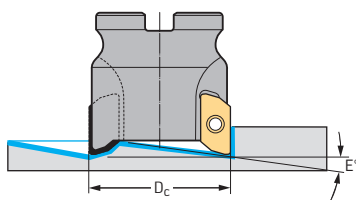
Application information for M2331 ramping milling cutters

Shoulder milling



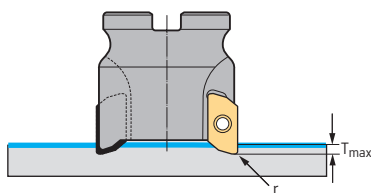
Corner radius r [mm]	Maximum milling depth $a_{p \max}$ [mm]	
	ZDGT15A4..	ZDGT20A5..
0,4	16,0	21,3
0,8	16,0	21,3
1,2	15,9	21,2
1,6	15,8	21,0
2,0	15,7	20,9
2,5	15,5	20,8
3,0	15,4	20,6
4,0	15,1	20,3
5,0		20,0
6,0		19,8
6,4		19,7

Ramping



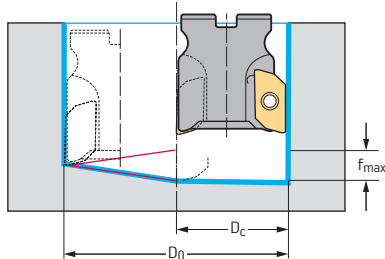
D_c [mm]	Maximum feed angle E [°]	
	ZDGT15A4..	ZDGT20A5..
32	11	
40	7	12
50	5	8
D_c [inch]		
1.500	8	
2.000	5,4	8,6

Vertical plunging



Corner radius r [mm]	Maximum plunging depth T_{\max} [mm]	
	ZDGT15A4..	ZDGT20A5..
0,4	4,5	6,0
0,8	4,5	6,0
1,2	4,4	5,9
1,6	4,2	5,7
2,0	4,1	5,6
2,5	4,0	5,5
3,0	3,8	5,3
4,0	3,5	5,0
5,0		4,7
6,0		4,5
6,4		4,4

Circular interpolation of a hole into solid material



Milling cutter dia.	Possible hole diameters and axial feeds [mm]/[inch]					
	ZDGT15A4..			ZDGT20A5..		
D_c [mm]	$D_{0 \min}$ [mm]	$D_{0 \max}$ [mm]	f_{\max} [mm]	$D_{0 \min}$ [mm]	$D_{0 \max}$ [mm]	f_{\max} [mm]
32	45	64	7,9			
40	61	80	8,1	54	80	9,3
50	81	100	8,5	74	100	10,6
D_c [inch]	$D_{0 \min}$ [inch]	$D_{0 \max}$ [inch]	f_{\max} [inch]	$D_{0 \min}$ [inch]	$D_{0 \max}$ [inch]	f_{\max} [inch]
1.500	2.244	3.000	0.325			
2.000	3.244	4.000	0.368	2.968	4.000	0.455

Designation

Tightening screw for adaptor

M2331-040-B16-03-15	M8 × 40 (SW6)
M2331-050-B22-02-15	M10 × 35 (SW8)
M2331-050-B22-03-15	M10 × 35 (SW8)

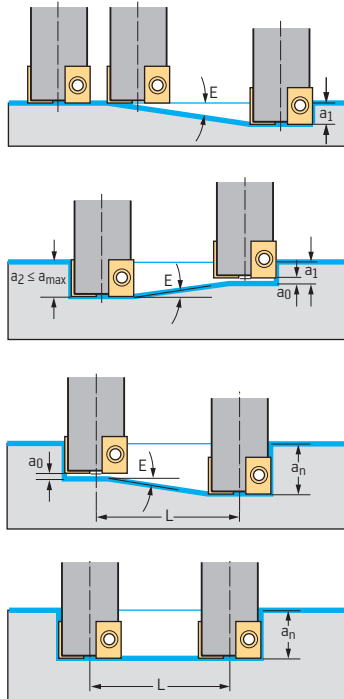
Designation

Tightening screw for adaptor

M2331-050-B22-04-15	M10 × 35 (SW8)
M2331-050-B22-02-20	M10 × 40 (SW8)
M2331-050-B22-03-20	M10 × 40 (SW8)

Application information for M4130 shoulder milling cutter

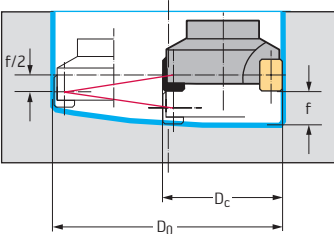
Ramping and circular plunging into solid material



Maximum feed angle E [°]

D _c [mm]	LD..08T204R..	LD..14T308R..	LD..170408R
16	4,6		
20	2,7		
25	1,9	5,5	
32		2,9	
40		1,9	
50		1,4	1,9
63		1,0	1,3
80			1
100			0,7

Circular interpolation of a hole into solid material



Max. axial feed per tool revolution ("thread pitch") f [mm]

Premachined hole diameter		Max. axial feed per tool revolution ("thread pitch") f [mm]														
D _{0 min} [mm]	D _{0 max} [mm]	LD..08T204R.. D _c [mm]			LD..14T308R.. D _c [mm]					LD..170408R.. D _c [mm]						
		16	20	25	25	32	40	50	63	40	50	63	80	100	125	
20,6	32	5,7														
28,6	40	5,7	5,7													
38,6	50	5,7	5,7	5,7												
31,6	50	5,7	5,7	5,7	9,2											
45,6	64	5,7	5,7	5,7	9,2	9,2										
61,6	80	5,7	5,7	5,7	9,2	9,2	9,2									
81,6	100	5,7	5,7	5,7	9,2	9,2	9,2	9,2								
107,6	126	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2							
57,6	80	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2						
77,6	100	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2					
103,6	126	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2	11,2				
137,6	160	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2	11,2	11,2			
177,6	200	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2	11,2	11,2	11,2		
227,6	250	5,7	5,7	5,7	9,2	9,2	9,2	9,2	9,2	11,2	11,2	11,2	11,2	11,2	11,2	

Application information for M5130 shoulder milling cutter

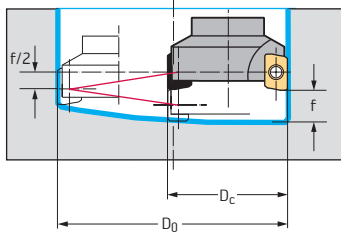
Ramping and circular plunging into solid material		Plunging with M5130 shoulder milling cutter/plunging angle E_{max} [°]							
Milling cutter diameter D_c [mm]		AC..0602..				BC..1605..			
		$a_{p\ max} = 5\ mm$				$a_{p\ max} = 15\ mm$			
		E_{max} [°]	$D_{0\ min}$ [mm]	$D_{0\ max}$ [mm]	a_0 [mm]	E_{max} [°]	$D_{0\ min}$ [mm]	$D_{0\ max}$ [mm]	a_0 [mm]
10		6,7	15	20	0,58				
12		4,8	18	24	0,57				
14		3,7	21	28	0,57				
16		3,0	25	32	0,56				
18		2,5	29	36	0,56				
20		2,1	33	40	0,55				
22		1,9	37	44	0,55				
25		1,6	43	50	0,55	8,8	32	50	2
28						7,1	38	56	2
32		1,2	57	64	0,55	5,8	46	64	2
35						5,0	52	70	2
40		0,9	73	80	0,55	4,1	62	80	2
42						3,8	66	84	2
50		0,7	93	100	0,55	3,0	82	100	2
52						2,9	86	104	2
63		0,5	119	126	0,55	2,3	108	126	2
66						2,1	114	132	2
80						1,7	142	160	2
85						1,6	152	170	2
100						1,3	182	200	2
125						1,0	232	250	2
160						0,8	302	320	2

Ramping and circular plunging into solid material		Plunging with M5130 shoulder milling cutter/plunging angle E_{max} [°]							
Milling cutter diameter D_c [inch]		AC..0602..				BC..1605..			
		$a_{p\ max} = 5\ mm$				$a_{p\ max} = 15\ mm$			
		E_{max} [°]	$D_{0\ min}$ [inch]	$D_{0\ max}$ [inch]	a_0 [inch]	E_{max} [°]	$D_{0\ min}$ [inch]	$D_{0\ max}$ [inch]	a_0 [inch]
0.500		4,4	0,709	1,00	0,022				
0.625		3,0	0,974	1,25	0,022				
0.750		2,3	1,224	1,50	0,022				
1.000		1,6	1,724	2,00	0,022	8,5	1,291	2,00	0,079
1.250		1,2	2,224	2,50	0,022	5,8	1,791	2,50	0,079
1.500		1,0	2,724	3,00	0,022	4,4	2,291	3,00	0,079
2.000		0,7	3,724	4,00	0,022	3,0	3,291	4,00	0,079
2.500		0,5	4,724	5,00	0,022	2,2	4,291	5,00	0,079
3.000						1,8	5,291	6,00	0,079
4.000						1,3	7,291	8,00	0,079
5.000						1,0	9,291	10,00	0,079
6.000						0,8	11,291	12,00	0,079

C2

Application information for M5130 shoulder milling cutter

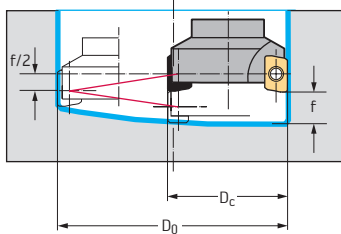
Circular interpolation of a hole into solid material



Max. axial feed per tool revolution ("thread pitch") f [mm]

Machined hole diameter D ₀ [mm]	AC..0602.. D _c [mm]											
	10	12	14	16	18	20	22	25	32	40	50	63
15	1,8											
20	3,7	2,1										
30	5,0	4,7	3,3	2,3	1,6							
40	5,0	5,0	5,0	4,0	3,0	2,3	1,9					
50	5,0	5,0	5,0	5,0	4,4	3,5	2,9	2,2				
60	5,0	5,0	5,0	5,0	5,0	4,6	4,0	3,1	1,8			
70	5,0	5,0	5,0	5,0	5,0	5,0	5,0	3,9	2,5			
80	5,0	5,0	5,0	5,0	5,0	5,0	5,0	4,8	3,2	2,0		
90	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	3,8	2,5		
100	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	4,5	3,0	1,9	
120	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	3,9	2,7	1,6
150	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	3,8	2,4
180	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	3,2
200	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	3,8
250	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0

Circular interpolation of a hole into solid material



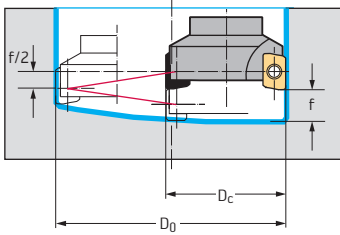
Max. axial feed per tool revolution ("thread pitch") f [inch]

Machined hole diameter D ₀ [inch]	AC..0602.. D _c [inch]							
	0,500	0,625	0,750	1,000	1,500	2,000	2,500	3,000
0,591								
0,787	0,069							
1,181	0,165	0,092						
1,575	0,197	0,156	0,104					
1,969	0,197	0,197	0,154	0,085				
2,362	0,197	0,197	0,197	0,120	0,073			
2,756	0,197	0,197	0,197	0,154	0,099	0,069		
3,150	0,197	0,197	0,197	0,189	0,125	0,090		
3,543	0,197	0,197	0,197	0,197	0,151	0,112	0,059	
3,937	0,197	0,197	0,197	0,197	0,177	0,134	0,074	
4,724	0,197	0,197	0,197	0,197	0,197	0,177	0,105	0,061
5,906	0,197	0,197	0,197	0,197	0,197	0,197	0,150	0,093
7,087	0,197	0,197	0,197	0,197	0,197	0,197	0,195	0,126
7,874	0,197	0,197	0,197	0,197	0,197	0,197	0,197	0,147
9,843	0,197	0,197	0,197	0,197	0,197	0,197	0,197	0,197

Application information for M5130 shoulder milling cutter

Circular interpolation of a hole into solid material

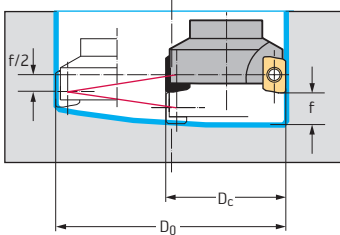
Max. axial feed per tool revolution ("thread pitch") f [mm]



Machined hole diameter D ₀ [mm]	BC..1605.. D _c [mm]															
	25	28	32	35	40	42	50	52	63	66	80	85	100	125	160	
15																
20																
30																
40	7,3	4,7														
50	12,2	8,6	5,7	4,1												
60	15,0	12,5	8,9	6,9												
70	15,0	15,0	12,1	9,6	6,8	5,8										
80	15,0	15,0	15,0	12,4	9,0	7,9										
90	15,0	15,0	15,0	15,0	11,3	10,0	6,6	6,0								
100	15,0	15,0	15,0	15,0	13,5	12,1	8,2	7,6								
120	15,0	15,0	15,0	15,0	15,0	15,0	11,5	10,8	7,2	6,2						
150	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	11,0	9,7	6,5	5,7				
180	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	14,8	13,1	9,3	8,3				
200	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	11,2	10,1	7,1			
250	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	14,5	10,7	6,9		
300	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	14,3	9,6		
350	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	12,3	8,3	
400	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	10,5	
450	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	12,7	
500	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	15,0	14,9	

Circular interpolation of a hole into solid material

Max. axial feed per tool revolution ("thread pitch") f [inch]



Machined hole diameter D ₀ [inch]	BC..1605.. D _c [inch]									
	1,000	1,250	1,500	2,000	2,500	3,000	4,000	5,000	6,000	
0.591										
0.787										
1.181	0,085									
1.575	0,270	0,104								
1.969	0,455	0,229	0,113							
2.362	0,591	0,355	0,208							
2.756	0,591	0,481	0,304	0,124						
3.150	0,591	0,591	0,399	0,189						
3.543	0,591	0,591	0,494	0,254	0,126					
3.937	0,591	0,591	0,589	0,319	0,173					
4.724	0,591	0,591	0,591	0,448	0,268	0,170				
5.906	0,591	0,591	0,591	0,591	0,411	0,287	0,136			
7.087	0,591	0,591	0,591	0,591	0,554	0,404	0,220			
7.874	0,591	0,591	0,591	0,591	0,591	0,481	0,276	0,158		
9.843	0,591	0,591	0,591	0,591	0,591	0,591	0,417	0,266	0,169	
11.811	0,591	0,591	0,591	0,591	0,591	0,591	0,557	0,373	0,255	
13.780	0,591	0,591	0,591	0,591	0,591	0,591	0,591	0,481	0,341	
15.748	0,591	0,591	0,591	0,591	0,591	0,591	0,591	0,589	0,428	
17.717	0,591	0,591	0,591	0,591	0,591	0,591	0,591	0,591	0,514	
19.685	0,591	0,591	0,591	0,591	0,591	0,591	0,591	0,591	0,591	

C2

Information on high-speed applications

- Maximum permissible speeds:
The limit values specified in the tables should not be exceeded. Otherwise correct operation and/or reliability are no longer guaranteed.
- Only use original Walter indexable inserts and assembly parts (screws, etc.). New screws should be used after having replaced the indexable inserts five times at the most.
- Observe the torques specified in the catalogue.
- Balancing:
Balancing in two steps is required when milling at fast speeds (> 6000 rpm) or at circumferential speeds of > 1000 m/min:
 - Basic balancing of the tool body including indexable inserts (can be carried out by Walter if required). In this case, tool adaptors that have been balanced separately beforehand must be used.
 - Fine balancing of the tool when fully mounted on the adaptor. The fine balancing operation is strongly recommended, as even the smallest concentricity fault can seriously affect the balance status.
- Short projection lengths reduce concentricity faults, and increase spindle service life. The specified speeds only apply to the use of tools without additional extensions and for tools with a neck length of $\leq 2.2 \times D_c$. For tools with longer neck lengths, the speeds must be reduced upon consultation with Walter.

Metric

Tool	Safety-related parts	In relation to	n_{\max} [1/min] with D										
			Ø 10	Ø 12	Ø 14	Ø 16	Ø 18	Ø 20	Ø 22	Ø 25	Ø 28	Ø 32	Ø 35
M3024	XN.U0705...	D _c											
	XN.U0906...	D _c											
M4002	SD..06T2...	D _a						28.300		25.300		22.400	
	SD..09T3...	D _a								34.900		30.800	29.500
	SD..1204...	D _a											
M4003	SD..09T3...	D _c						40.000		38.000		33.600	
	SD..1204...	D _c								33.300		29.400	
M2331	ZD..15A4..	D _c										40.000	
	ZD..20A5..	D _c											
M4130	LD..08T204...	D _c				40000		34.300		29.400			
	LD..14T308...	D _c								40.000		33.600	
	LD..170408...	D _c											
M5130	AC.T0602..	D _c	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000		36.600	
	BC.T1605..	D _c								22.300	20.900	19.300	18.300
M2136	SNEF...	D _c											
M4258	SD..1204..	D _c											
	LD..1704..	D _c											
M2471	RNMX12...	D _c										26.600	

Inch

Tool	Safety-related parts	In relation to	n_{\max} [1/min] with D									
			Ø 0,375	Ø 0,5	Ø 0,625	Ø 0,750	Ø 1,000	Ø 1,250	Ø 1,500			
M3024	XN.U0705...	D _c									12,800	
	XN.U0906...	D _c										
M4002	SD..06T2...	D _a	28,300						25,300	22,400	20,000	
	SD..09T3...	D _a							34,900	30,800	27,600	
	SD..1204...	D _a										
M4003	SD..09T3...	D _c	40,000						37,700	33,800	30,800	
	SD..1204...	D _c							33,000	29,500	27,000	
M2331	ZD..15A4..	D _c									40,000	
	ZD..20A5..	D _c										
M2136	SNEF...	D _c										
M5130	AC.T0602..	D _c		40.000	40.000	40.000	40.000	40.000	36.800		33.400	
	BC.T1605..	D _c							22.100	19.300	17.400	
M4258	SD..1204..	D _c										
	LD..1704..	D _c										
M2471	RNMX12...	D _c										

6. Safety guard:
Appropriate safety guards or machine encapsulations must be used to safely collect particles which spin off, such as chips or cutting edge parts that are broken as a result of collisions.
7. Damaged tools:
The operating speed must be specified for the repair of an HSC tool. The table values only apply to tools with a condition equivalent to new condition following repair.

8. Application of standards:
Walter recommends using the balancing standard DIN 69888, which describes the balancing of tools and the requirements in the cutting area. DIN 69888 is tailored to the needs of the cutting area, and describes the tool balancing requirements in a practical way. DIN ISO 1940, which was previously often used, describes balancing for all areas of mechanical engineering.
The requirements when working at circumferential speeds of >1000 m/min are described in DIN ISO 15641.

 n_{\max} [1/min] with D

	Ø 40	Ø 42	Ø 50	Ø 52	Ø 63	Ø 66	Ø 80	Ø 85	Ø 100	Ø 125	Ø 160	Ø 200	Ø 250	Ø 315
	12.500		11.200		10.000		8.800		7.900	7.000	6.200	4.200	3.800	3.350
					8.500		7.400		6.500	5.200	4.100			
	20.000		17.900	17.600	16.000	15.600								
	27.600		24.600	24.200	22.000	21.400								
			17.900	17.600	16.000	15.600	14.100		12.600	11.300		4.200	3.800	3.350
	30.100		26.900		24.000		21.200		19.000			4.200	3.800	3.350
	26.300		23.500		21.000		18.600		16.600	14.900	13.100	4.200	3.800	3.350
	39.800		34.400											
	40.000		34.000											
	28.800		25.000											
			17.300		15.000		12.900		11.400	10.000				
	32.500		28.900		25.700									
	16.900	16.500	14.900	14.600	13.200	12.800	11.600	11.200	10.300	9.100	8.000			
			11.200		10.000		8.800		7.900	7.000	6.200			
			17.300		15.000		12.900							
			17.300		15.000		12.900							
	23.300		20.400	20.000	18.000									

 n_{\max} [1/min] with D

	Ø 2,000	Ø 2,500	Ø 3,000	Ø 4,000	Ø 5,000	Ø 6,000	Ø 8,000	Ø 10,000	Ø 12,000
	11,100	9,900	9,000	7,800	7,000	6,400	4,200	3,800	3,350
		8,400	7,600	6,500	5,100	4,300			
	17,900	16,000							
	24,600	22,000							
	17,900	16,000	14,100	12,600			4,200	3,800	3,350
	26,700	23,900	21,800	18,800			4,200	3,800	3,350
	23,300	20,900	19,000	16,500	14,700	13,500	4,200	3,800	3,350
	34,100								
	33,600								
	11,100	9,900	9,000	7,800	7,000	6,400			
	28,700	25,500							
	14,800	13,100	11,900	10,200	9,100	8,200			
	17,100	14,900	13,300						
	17,100	14,900	13,300						
	20,300	17,900							

Torque screwdriver with interchangeable blades

Torque screwdriver



Designation	Size		Scale range
FS2001	1	4	0,4–1,2 Nm
FS2003	3	4	1,5–5,0 Nm
FS2002	1	4	3,5–10,6 in lbs
FS2004	3	4	13,3–44 in lbs



Designation	Size		Scale range
FS2248	3	4	1,0–6,0 Nm

Interchangeable blades	Designation	Torx	
 Torx interchangeable blades Blade length 175 mm	FS2005	6	4
	FS2006	7	
	FS2007	8	
	FS2008	10	
	FS2009	15	
	FS2010	20	
 Torx Plus interchangeable blades Blade length 175 mm	FS2085	6IP	4
	FS2011	7IP	
	FS2012	8IP	
	FS2013	9IP	
	FS2268	10IP	
	FS2014	15IP	
	FS2015	20IP	
 Torx Plus interchangeable blades with retaining function Blade length 175 mm	★ SD2001-6IP	6IP	4
	Complete blade set (FS2005–FS2016) Blade length 175 mm	FS2017	

IP = Torx Plus

Torque T-handle



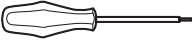
Designation		Scale range
FS2041	6	4,5–14 Nm
FS2042	6	40–123 in lbs

Interchangeable blades	Designation	Torx/WAF	
 Torx interchangeable blades Blade length 130 mm	FS2043	15	6
	FS2044	20	
	FS2045	25	
	FS2046	30	
 Torx Plus interchangeable blades Blade length 130 mm	FS2047	15IP	6
	FS2048	20IP	
	FS2049	25IP	
	FS2109	30IP	
 Hexagonal interchangeable blades Blade length 130 mm	FS2050	SW3	6
	FS2566	★ SW3,5	
	FS2051	SW4	
Complete blade set (FS2043–FS2052) Blade length 130 mm	FS2052	SW5	6
	Complete blade set (FS2043–FS2052) Blade length 130 mm	FS2053	


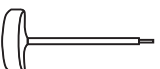
IP = Torx Plus


/ ★ New addition to the product range

Screwdriver


Screwdriver types	Designation	Torx
 Screwdriver	FS1063	6
	FS2086	6IP
	★ SD1001-6IP *	6IP
	FS309	7
	FS2088	7IP
	FS230	8
	FS1483	8IP
	FS1128	9
	FS1484	9IP
	FS2267	10IP
	FS229	15
	FS1485	15IP
	FS228	20
	FS1486	20IP
	FS2167	25
	FS1487	25IP
	FS396	30
	FS2109	30IP

* with retaining function/IP = Torx Plus

Screwdriver types	Designation	Torx
 Handle key, small	FS1047	15
	FS1048	20
	FS1049	25
 Handle key, large	FS1172	15
	FS1173	20
	FS1174	25
	FS1175	30

Screwdriver types	Designation	Torx	WAF	
 Torx key	FS2146	6IP	–	
	FS2087	6IP	–	
	FS325	7	–	
	FS1490	7IP	–	
	FS257	8	–	
	FS1466	9IP	–	
	FS1050	10	–	
	FS255	15	–	
	FS1465	15IP	3,5	
	FS1496	15IP	4,0	
	FS256	20	–	
	FS1154	–	2,0	
	FS1155	–	2,5	

IP = Torx Plus

Allen key	Designation	Torx	WAF
	ISO 2936-1,3	–	1,3
	ISO 2936-1,5	–	1,5
	ISO 2936-2	–	2
	ISO 2936-2,5	–	2,5
	ISO 2936-3	–	3
	ISO 2936-3,5	–	3,5
	ISO 2936-4	–	4
	ISO 2936-5	–	5
	ISO 2936-6	–	6
	FS1464	20IP	–
	FS1592	25IP	–

IP = Torx Plus

D – Adaptors

Stationary adaptors – D1

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Rotating adaptors – D2

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Technical information – D3


Stationary adaptors	Assembly parts and accessories	684
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Product range overview of Walter Capto™ adaptors

Designation	A2120-C...-P	A2121-C...-P
Alignment	Straight	Angled
Shanks/blades	Shanks	Shanks
Page	665	665
		

Product range overview for VDI adaptors

Designation	A2120-V...-P	A2110-V...-P
Alignment	Straight	Straight
Shanks/blades	Shanks	Blades
Page	666	668
		

Designation	A2120-D0...-P	A2120-BT...-P	A2121-D0...-P	A2110-NA...-P
Alignment	Straight	Straight	Angled	Straight
Shanks/blades	Shanks	Shanks	Shanks	Blades
Page	666	667	667	670
				

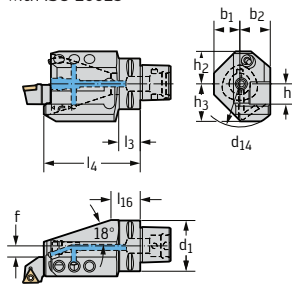
Walter Capto™ – Axial adaptor

A2120-C...-P



- Precision cooling
- For star turrets

Tool	Machining	Size	h mm	b ₁ mm	b ₂ mm	d ₁₄ mm	f mm	h ₂ mm	h ₃ mm	l ₃ mm	l ₄ mm	kg
Walter Capto™ in accordance with ISO 26623	A2120-C5-20R/L-095-P	C5	20	26	30	85	10	32	37	20	95	1,6
	A2120-C6-20R/L-105-P	C6	20	32	30	85	10	32	37	22	105	2,3
	A2120-C6-25R/L-122-P	C6	25	38	32	100	13	32	46	22	122	3



Important: Adaptors are designed for machines with an automatic tool changing system.
 The maximum recommended coolant pressure is 80 bar (1160 psi)
 Coolant outlet to the nozzle can be set by turning a valve to the left/right
 Ordering example, right-hand tool: A2120-C5-20R-095-P/ordering example, left-hand tool: A2120-C5-20L-095-P

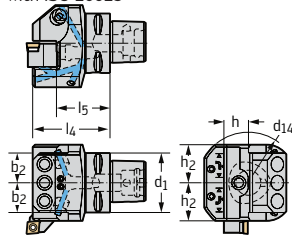
Walter Capto™ – Radial adaptor

A2121-C...-P



- Precision cooling
- For disc turrets

Tool	Designation	Size	h mm	b ₂ mm	h ₂ mm	d ₁₄ mm	l ₄ mm	l ₅ mm	kg
Walter Capto™ in accordance with ISO 26623	A2121-C5-20N-064-P	C5	20	25	32	85	65	45	1,4
	A2121-C6-25N-076-P	C6	25	32	38	100	80	55	2,5



Important: Adaptors are designed for machines with an automatic tool changing system.
 The maximum recommended coolant pressure is 80 bar (1160 psi)
 Coolant outlet to the nozzle can be set by turning a valve to the left/right

VDI adaptor – DIN 69880 shank tools

A2120-V...-P



- Precision cooling
- For star turrets

Tool	Designation	d ₁	h mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
Shank DIN 1835 E	A2120-V25-20N-055-P	VDI25	20	39	30	20	19	70	35	35	35	1,3
	A2120-V30-20N-070-P	VDI30	20	55,5	30	39,5	35,5	70	48	35	35	1,7
	A2120-V40-25N-085-P	VDI40	25	50,5	42	45	25,5	85	45	44	44	3,2
	★ A2120-V50-25N-100-P	VDI50	25	55,5	50	50	30,5	100	70	44	44	3,2

The maximum recommended coolant pressure is 80 bar (1160 psi)

Doosan adaptor – DIN 69880 shank tools

A2120-D0...-P



- Precision cooling
- For Doosan star turrets

Tool	Designation	d ₁	h mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
Shank DIN 1835 E	A2120-D0-25N-072-P	D0	25	51	35	31	26	72	47	51	51	3

The maximum recommended coolant pressure is 80 bar (1160 psi)

/ ★ New addition to the product range

BMT adaptor – DIN 69880 shank tools

A2120-BT...-P



- Precision cooling
- For BMT star turrets

Tool	Designation	d ₁	h	b ₁	b ₂	b ₃	f	l ₄	l ₆	h ₂	h ₃	kg
	A2120-BT45-20N-063-P	BT45	20	62	40	42	34	63	38	38	38	2,2
	★ A2120-BT55-25N-060-P	BT55	25	81	44	56	56	60	35	49	49	3,9

The maximum recommended coolant pressure is 80 bar (1160 psi)

Doosan adaptor – DIN 69880 shank tools

A2121-DO...-P



- Precision cooling
- For Doosan disc turrets

Tool	Designation	d ₁	h	b ₁	b ₂	l ₄	l ₅	h ₂	h ₃	kg
	A2121-DO-25N-050-P	DO	25	50	7	57	32	51	51	3,1

The maximum recommended coolant pressure is 80 bar (1160 psi)

🚨 / ★ New addition to the product range

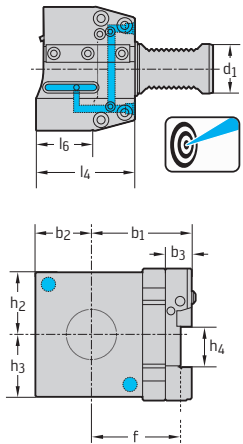
VDI adaptor – DIN 69880 parting blades

A2110-V...-P



- Precision cooling
- For star turrets

Tool		Designation	d ₁	h ₄ mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	
Shank DIN 1835 E		A2110-V25-26R/L-083-P	VDI25	26	43	30	17	38	83	52	37	37	1,2



The maximum recommended coolant pressure is 80 bar (1160 psi)
 Ordering example, right-hand tool: A2110-V25-26R-083-P/ordering example, left-hand tool: A2110-V25-26L-083-P
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts		d ₁	VDI25
	Screw 1		M05X010 ISO14579 8.8
	Screw 2		M08X016 ISO4762 12.9
	Wedge		FK383
	Coolant nozzle		FS1477
	Parallel pin		06,0M6X012 DIN7
	Eccentric pin		FS2275
	O-ring 1		O-RING 23.52X1.78 70/75
	O-ring 2		O-RING 24X2 70/80

Accessories		d ₁	VDI25
	Key		FS1592 (Torx 25IP)
	ISO 2936-4 key		ISO2936-4 (SW 4)
	ISO 2936-5 key		ISO2936-5 (SW 5)

D1

Nakamura adaptor – Parting blades

A2110-NA...-P




- Precision cooling
- For Nakamura star turrets

Tool	Designation	d ₁	h ₄ mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
	A2110-NA55-32R/L-076-P	NA55A	32	56	41,5	17,5	51	76	56	43	43	1,4
	A2110-NA65-32R/L-065-P	NA65A	32	55	48,5	13,5	50	65	56	43	43	1,2


The maximum recommended coolant pressure is 80 bar (1160 psi)
 Ordering example, right-hand tool: A2110-NA55-32R-076-P/ordering example, left-hand tool: A2110-NA55-32L-076-P

Product range overview of:



Walter Capto™ adaptors

Designation	AB035
Tool type	Synchronous thread cutting adaptor
Machine-side	Walter Capto™
Tool-side	ER11 + ER20 + ER25 + ER40
Page	672
	





Walter NCT adaptors

Designation	AB035
Tool type	Synchronous thread cutting adaptor
Machine-side	Walter NCT
Tool-side	ER20 + ER32
Page	673
	

Walter ScrewFit adaptors

Designation	AK530	AK580
Tool type	ScrewFit adaptor	ScrewFit adaptor
Machine-side	Walter HSK	Walter Capto™
Tool-side	T09 – T45	T09 – T45
Page	674	675
		

Walter HSK and SK adaptors

Designation	AB035	AB035	AB035	AB035
Tool type	Synchronous thread cutting adaptor	Synchronous thread cutting adaptor	Synchronous thread cutting adaptor	Synchronous thread cutting adaptor
Machine-side	Walter HSK	Weldon	Walter SK	Walter MAS-BT
Tool-side	ER20 + ER25 + ER40	ER11 + ER20 + ER25	ER20 + ER25 + ER40	ER11 + ER20 + ER25 + ER40
Page	676	677	678	679
				

Synchronous tapping adaptor

AB035-C


- Integrated minimum compensation in axial and radial directions
- ISO 26623

Tool	Designation	d ₁	d ₁₁ mm	d ₁₂ mm	l ₄ mm	Collets	kg
Walter Capto™ in accordance with ISO 26623 	AB035-C4-ER11-080	C4	M4-M5	24	80	ER11	0,4
	AB035-C4-ER20-102	C4	M4-M12	34	102	ER20	0,7
	AB035-C4-ER25-122	C4	M8-M20	42	122	ER25	1,0
	AB035-C5-ER20-103	C5	M4-M12	34	103	ER20	0,9
	AB035-C5-ER25-122	C5	M8-M20	42	122	ER25	1,2
	AB035-C5-ER40-154	C5	M16-M30	63	154	ER40	2,7
	AB035-C6-ER20-105	C6	M4-M12	34	105	ER20	1,2
	AB035-C6-ER25-124	C6	M8-M20	42	124	ER25	1,6
	AB035-C6-ER40-154	C6	M16-M30	63	154	ER40	2,9

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used. The clamping nut can be damaged if the chuck is used without a sealing disc. For collets, see "Assembly parts and accessories". Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Collets	ER11	ER11	ER20	ER25	ER40
	Clamping nut for internal coolant supply	FS2556	FS2557	FS1359	FS1449	FS1450
	Tensioning key	FS2554		FS2553	FS1544	FS1546

FS2556 corresponds to ER11-4.5

FS2557 corresponds to ER11-6

Synchronous tapping adaptor

AB035-N



– Integrated minimum compensation in axial and radial directions

Tool	Designation	d ₁	d ₁₁ mm	d ₁₂ mm	l ₄ mm	Collets	kg	
	Modular NCT adaptor	AB035-N40-ER20-105	NCT 40	4-10	35	105	ER20	0,7
		AB035-N50-ER25-125	NCT 50	8-16	42	125	ER32	1,2

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used
 The clamping nut can be damaged if the chuck is used without a sealing disc.
 For collets, see "Assembly parts and accessories"
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Collets	ER20	ER32
	Clamping nut for internal coolant supply	FS1359	FS1449
	Tensioning key	FS2553	FS1544

DIN 69893-1 A adaptor

AK530



– For ScrewFit front pieces

Tool	Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₆ mm	l ₁₈ mm	kg
	★ AK530.H100A.T09.055	HSK-A100	T09	9,7	55	15	10	2,06
	★ AK530.H100A.T14.055	HSK-A100	T14	14,5	55	15	10	2,09
	★ AK530.H100A.T18.055	HSK-A100	T18	18,5	55	15	10	2,12
	AK530.H100A.T22.100	HSK-A100	T22	22	100	61	10	2,31
	AK530.H100A.T22.150	HSK-A100	T22	22	150	113	10	2,63
	AK530.H100A.T22.200	HSK-A100	T22	22	200	163	10	3,02
	AK530.H100A.T22.055CO	HSK-A100	T22	22	55	16	10	2,16
	AK530.H100A.T28.110	HSK-A100	T28	28	110	73	10	2,49
	AK530.H100A.T28.160	HSK-A100	T28	28	160	123	10	2,96
	AK530.H100A.T28.210	HSK-A100	T28	28	210	173	10	3,49
	AK530.H100A.T28.260	HSK-A100	T28	28	260	223	10	4,17
	AK530.H100A.T28.060CO	HSK-A100	T28	28	60	23	10	2,17
	AK530.H100A.T36.120	HSK-A100	T36	36	120	83	10	2,84
	AK530.H100A.T36.170	HSK-A100	T36	36	170	133	10	3,53
	AK530.H100A.T36.220	HSK-A100	T36	36	220	183	10	4,32
	AK530.H100A.T36.270	HSK-A100	T36	36	270	233	10	5,31
	AK530.H100A.T36.070CO	HSK-A100	T36	36	70	33	10	2,33
	AK530.H100A.T45.120	HSK-A100	T45	45	120	83	10	3,30
	AK530.H100A.T45.170	HSK-A100	T45	45	170	133	10	4,28
	AK530.H100A.T45.220	HSK-A100	T45	45	220	183	10	5,40
AK530.H100A.T45.270	HSK-A100	T45	45	270	233	10	6,72	
AK530.H100A.T45.070CO	HSK-A100	T45	45	70	33	10	2,53	

Balance class: G6.3 where n = 16,000 rpm

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.

For accessories for HSK, see "Assembly parts and accessories"


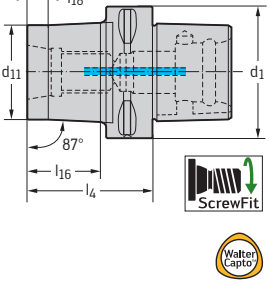
For the tightening torques of screw-fit front pieces, see "Rotating adaptors/Assembly parts and accessories"

Walter Capto™ adaptor

AK580.C



– For ScrewFit front pieces
– ISO 26623

Tool	Designation	d ₁	d ₁₁	l ₄ mm	l ₁₆ mm	l ₁₈ mm	
<p>Walter Capto™ in accordance with ISO 26623</p> 	AK580.C3.T09.30	C3	T09	30	12,2	10	0,14
	AK580.C3.T14.45CO	C3	T14	45	27	10	0,16
	AK580.C3.T18.45CO	C3	T18	45	27	10	0,18
	AK580.C3.T22.45CO	C3	T22	45	27	10	0,2
	AK580.C3.T28.55CO	C3	T28	55	40	10	0,28
	AK580.C4.T09.30	C4	T09	30	10	7	0,28
	AK580.C4.T14.45CO	C4	T14	45	22	10	0,3
	AK580.C4.T18.45CO	C4	T18	45	22	10	0,31
	AK580.C4.T22.45CO	C4	T22	45	22	10	0,32
	AK580.C4.T28.55CO	C4	T28	55	32	10	0,39
	AK580.C4.T36.55CO	C4	T36	55	35	10	0,46
	AK580.C4.T45.55CO	C4	T45	55		35	0,6
	AK580.C5.T09.35	C5	T09	35	12	10	0,46
	AK580.C5.T14.45	C5	T14	45	22	10	0,48
	AK580.C5.T18.45	C5	T18	45	22	10	0,49
	AK580.C5.T22.45	C5	T22	45	22	10	0,51
	AK580.C5.T28.55	C5	T28	55	32	10	0,58
	AK580.C5.T36.55	C5	T36	55	32	10	0,65
	AK580.C5.T45.55	C5	T45	55	35	10	0,81
	★ AK580.C6.T09.48	C6	T09	48	23	10	0,77
	AK580.C6.T14.50	C6	T14	50	25	10	0,84
	AK580.C6.T18.50	C6	T18	50	25	10	0,85
	AK580.C6.T22.50	C6	T22	50	25	10	0,87
	AK580.C6.T28.60	C6	T28	60	35	10	0,94
	AK580.C6.T36.60	C6	T36	60	35	10	1,01
	AK580.C6.T45.60CO	C6	T45	60	35	10	1,19
	★ AK580.C8.T09.56	C8	T09	56	23	10	1,75
	★ AK580.C8.T14.56	C8	T14	56	23	10	1,76
	★ AK580.C8.T18.56	C8	T18	56	23	10	1,77
	★ AK580.C8.T22.56	C8	T22	56	23	10	1,78
	★ AK580.C8.T28.60	C8	T28	60	27	10	1,82
	★ AK580.C8.T36.60	C8	T36	60	27	10	1,87
	★ AK580.C8.T45.60CO	C8	T45	60	27	10	2

For the tightening torques of screw-fit front pieces, see "Rotating adaptors/Assembly parts and accessories"
...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.

Synchronous tapping adaptor

AB035-H



– Integrated minimum compensation in axial and radial directions

Tool	Designation	d_1	d_{11} mm	d_{12} mm	l_4 mm	Collets	kg	
	HSK DIN 69893-1 A	AB035-H63-ER20-108	HSK-A63	M4-M12	35	108	ER20	1,1
		AB035-H63-ER25-128	HSK-A63	M8-M20	44	128	ER25	1,5
		AB035-H63-ER40-160	HSK-A63	M16-M30	62	160	ER40	3,8
		AB035-H100-ER20-115	HSK-A100	M4-M12	35	145	ER20	2,5
		AB035-H100-ER25-134	HSK-A100	M8-M20	44	134	ER25	2,9
		AB035-H100-ER40-164	HSK-A100	M16-M30	62	163	ER40	4,4

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used. The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see "Assembly parts and accessories"

Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Collets	ER20	ER25	ER40
	Clamping nut for internal coolant supply	FS1359	FS1449	FS1450
	Tensioning key	FS2553	FS1544	FS1546

Synchronous tapping adaptor

AB035-W



– Integrated minimum compensation in axial and radial directions

Tool	Designation	d ₁	d ₁₁ mm	d ₁₂ mm	l ₄ mm	Collets	kg
DIN 6535 HE, turned 180° DIN 6535 HB	AB035-W25-ER11-052	25	M2-M5	19	52	ER11	0,5
	AB035-W25-ER20-069	25	M4-M12	34	69	ER20	0,8
	AB035-W25-ER25-088	25	M8-M20	42	88	ER25	1,3

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used
 The clamping nut can be damaged if the chuck is used without a sealing disc.
 For collets, see "Assembly parts and accessories"
 Bodies and assembly parts are included in the scope of delivery.

Assembly parts	Collets	ER11	ER11	ER20	ER25
	Clamping nut for internal coolant supply	FS2556	FS2557	FS1359	FS1449
	Tensioning key	FS2554		FS2553	FS1544

FS2556 corresponds to ER11-4.5

FS2557 corresponds to ER11-6

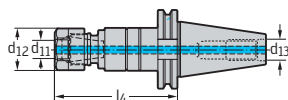
Synchronous tapping adaptor

AB035-S



- Integrated minimum compensation in axial and radial directions
- ISO 7388-1

Tool	Designation	d ₁	d ₁₁ mm	d ₁₂ mm	d ₁₃ mm	l ₄ mm	Collets	kg
SK DIN 69871	AB035-S40-ER20-102	SK40	M4-M12	35	M16	102	ER20	1,3
	AB035-S40-ER25-122	SK40	M8-M20	44	M16	122	ER25	1,6
	AB035-S50-ER20-106	SK50	M4-M12	35	M24	106	ER20	3,1
	AB035-S50-ER25-126	SK50	M8-M20	44	M24	126	ER25	3,5
	AB035-S50-ER40-155	SK50	M16-M30	62	M24	155	ER40	4,9





If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used

The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see "Assembly parts and accessories"

Bodies and assembly parts are included in the scope of delivery.

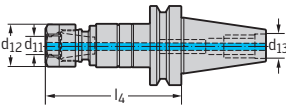
Assembly parts	Collets	ER20	ER25	ER40
	Clamping nut for internal coolant supply	FS1359	FS1449	FS1450
	Tensioning key	FS2553	FS1544	FS1546

Synchronous tapping adaptor

AB035-J



- Integrated minimum compensation in axial and radial directions
- ISO 7388-2



Tool	Designation	d ₁	d ₁₁ mm	d ₁₂ mm	d ₁₃ mm	l ₄ mm	Collets	kg	
	JIS B 6339	AB035-J30-ER11-082	BT30	M2-M5	24	M12	82	ER11	0,6
		AB035-J30-ER20-105	BT30	M4-M12	35	M12	105	ER20	0,9
		AB035-J30-ER25-125	BT30	M8-M20	44	M12	125	ER25	1,2
		AB035-J40-ER20-110	BT40	M4-M12	35	M16	110	ER20	1,4
		AB035-J40-ER25-130	BT40	M8-M20	44	M16	130	ER25	1,8
		AB035-J50-ER20-125	BT50	M4-M12	35	M24	125	ER20	4,1
		AB035-J50-ER25-145	BT50	M8-M20	44	M24	145	ER25	4,5
		AB035-J50-ER40-174	BT50	M16-M30	62	M24	174	ER40	5,9

If collet chucks are used for the internal coolant supply, the sealing discs under "Assembly parts and accessories" must be used

The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see "Assembly parts and accessories"




Bodies and assembly parts are included in the scope of delivery.

Assembly parts		Collets	ER11	ER11	ER20	ER25	ER40
	Clamping nut for internal coolant supply		FS2556	FS2557	FS1359	FS1449	FS1450
	Tensioning key		FS2554		FS2553	FS1544	FS1546

FS2556 corresponds to ER11-4.5

FS2557 corresponds to ER11-6

Product range overview of adaptor accessories

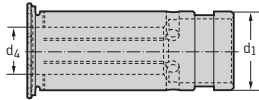
Designation	C340	SL00..	GL00..
Tool type	Tapping collet	Adaptor sleeve	Cooling nozzle
Adaptor-side	ER11 – ER40	Hydro-expansion	ER collets
Tool-side	2,8–22 mm	3,0–25 mm	3,0–16 mm
Page	682	681	683
			

Adaptor sleeves for peripheral cooling

inch



Tool	Designation	d ₁ Inch	d ₄ Inch	kg
For tools with shank in accordance with DIN 1835 Form A	SL0017	0,472	0,125	0,02
	SL0018	0,472	0,188	0,02
	SL0019	0,472	0,250	0,1
	SL0020	0,472	0,375	0,02
	SL0021	0,787	0,125	0,08
	SL0022	0,787	0,188	0,1
	SL0023	0,787	0,250	0,08
	SL0024	0,787	0,375	0,1
	SL0025	0,787	0,500	0,08
	SL0026	0,787	0,625	0,05
	SL0027	1,260	0,500	0,26
	SL0028	1,260	0,625	0,25
	SL0029	1,260	0,750	0,22
	SL0030	1,260	1,000	0,14

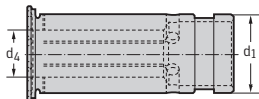


Adaptor sleeves for internal cooling

inch



Tool	Designation	d ₁ Inch	d ₄ Inch	kg
For tools with shank in accordance with DIN 1835 Form A	SL0001	0,472	0,125	0,03
	SL0002	0,472	0,188	0,03
	SL0003	0,472	0,250	0,1
	SL0004	0,472	0,375	0,1
	SL0005	0,787	0,125	0,1
	SL0006	0,787	0,188	0,1
	SL0007	0,787	0,250	0,1
	SL0008	0,787	0,375	0,08
	SL0009	0,787	0,500	0,06
	SL0010	0,787	0,625	0,04
	SL0011	1,260	0,250	0,28
	SL0012	1,260	0,375	0,3
	SL0013	1,260	0,500	0,3
	SL0014	1,260	0,625	0,25
	SL0015	1,260	0,750	0,3
	SL0016	1,260	1,000	0,3



ER tapping collets DIN 6499

C340 mm



– ER – GB in accordance with DIN 6499

Tool	Designation	Collets	d ₁₁ mm	l ₁ mm	SW mm	kg
DIN 6499 	C340.11.028	ER11	2,8	18	2,1	0,01
	C340.11.035	ER11	3,5	18	2,7	0,01
	C340.11.045	ER11	4,5	18	3,4	0,01
	C340.11.060	ER11	6	18	4,9	0,01
	C340.20.045	ER20	4,5	31,5	3,4	0,05
	C340.20.060	ER20	6	31,5	4,9	0,04
	C340.20.070	ER20	7	31,5	5,5	0,04
	C340.20.080	ER20	8	31,5	6,2	0,04
	C340.20.090	ER20	9	31,5	7	0,04
	C340.20.100	ER20	10	31,5	8	0,04
	C340.25.045	ER25	4,5	34	3,4	0,01
	C340.25.060	ER25	6	34	4,9	0,01
	C340.25.070	ER25	7	34	5,5	0,01
	C340.25.080	ER25	8	34	6,2	0,08
	C340.25.090	ER25	9	34	7	0,08
	C340.25.100	ER25	10	34	8	0,07
	C340.25.110	ER25	11	34	9	0,07
	C340.25.120	ER25	12	34	9	0,07
	C340.25.140	ER25	14	34	11	0,06
	C340.25.160	ER25	16	34	12	0,05
	C340.32.045	ER32	4,5	40	3,4	0,16
	C340.32.060	ER32	6	40	4,9	0,15
	C340.32.070	ER32	7	40	5,5	0,15
	C340.32.080	ER32	8	40	6,2	0,16
	C340.32.090	ER32	9	40	7	0,15
	C340.32.100	ER32	10	40	8	0,15
	C340.32.110	ER32	11	40	9	0,15
	C340.32.120	ER32	12	40	9	0,15
	C340.32.140	ER32	14	40	11	0,14
	C340.32.160	ER32	16	40	12	0,13
	C340.40.120	ER40	12	46	9	0,28
	C340.40.140	ER40	14	46	11	0,28
	C340.40.160	ER40	16	46	12	0,26
	C340.40.180	ER40	18	46	14,5	0,25
C340.40.200	ER40	20	46	16	0,23	
C340.40.220	ER40	22	46	18	0,21	

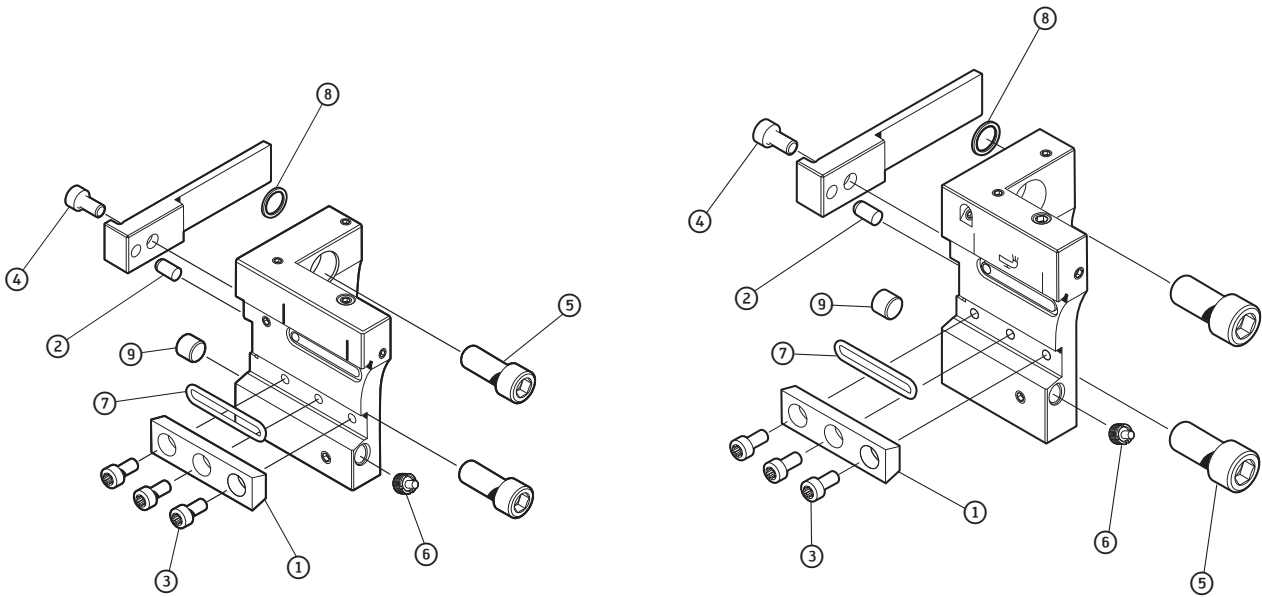
Cooling nozzles for ER collets

GL00..



Tool	Designation	Collets	d ₁₁ mm	l ₁ mm	kg
	★ GL0001	ER16	3	15	0,01
	★ GL0002	ER16	4	15	0,01
	★ GL0003	ER16	5	15	0,01
	★ GL0004	ER16	6	15	0,01
	★ GL0005	ER16	7	15	0,01
	★ GL0006	ER16	8	15	0,01
	★ GL0007	ER16	9	6	0,01
	★ GL0008	ER16	10	6	0,01
	★ GL0009	ER20	6	15	0,01
	★ GL0010	ER20	7	15	0,01
	★ GL0011	ER20	8	15	0,01
	★ GL0012	ER20	9	15	0,01
	★ GL0013	ER20	10	15	0,01
	★ GL0014	ER20	12	6	0,01
	★ GL0015	ER25	6	15	0,01
	★ GL0016	ER25	7	15	0,01
	★ GL0017	ER25	8	15	0,01
	★ GL0018	ER25	9	15	0,01
	★ GL0019	ER25	10	15	0,01
	★ GL0020	ER25	12	15	0,01
	★ GL0021	ER25	14	15	0,01
	★ GL0022	ER25	16	15	0,01
	★ GL0023	ER32	6	15	0,01
	★ GL0024	ER32	7	15	0,01
	★ GL0025	ER32	8	15	0,01
	★ GL0026	ER32	9	15	0,01
	★ GL0027	ER32	10	15	0,01
	★ GL0028	ER32	12	15	0,01
	★ GL0029	ER32	14	15	0,01
	★ GL0030	ER32	16	15	0,01

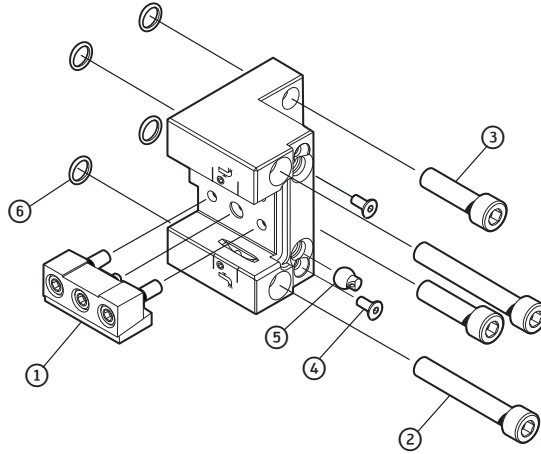
Assembly parts and accessories for Nakamura Type A2110-NA55-32R-076-P



Assembly parts

	55/32	65/32
① Wedge	FK383	FK383
② Parallel pin	06,0M6x012 DIN7	06,0M6x012 DIN7
③ Screw	M05x010 ISO14579 14.9	M05x010 ISO14579 14.9
④ Screw	M06x012 ISO4762 12.9	M06x012 ISO4762 12.9
⑤ Screw	M10x025 ISO4762 12.9	M10x025 ISO4762 12.9
⑥ Nozzle	FS1477	FS1477
⑦ O-ring	O-ring 27x2 70 / 80	O-ring 27x2 70 / 80
⑧ Gasket	FS2563	FS2563
⑨ Plug	R1/8 DIN906	R1/8 DIN906

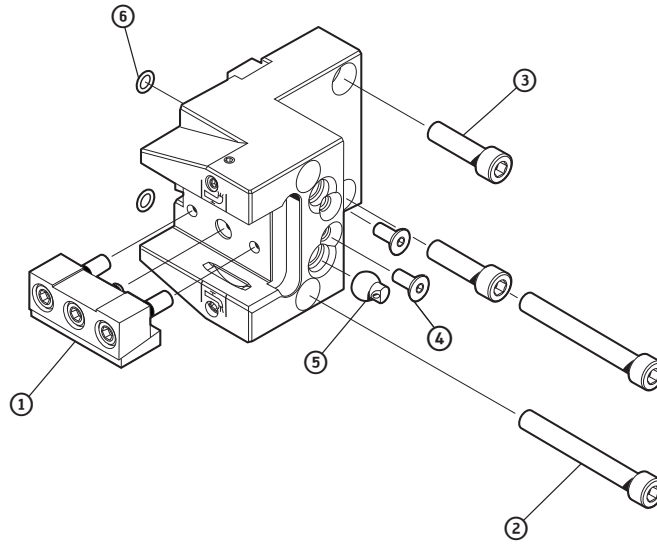
Assembly parts and accessories for Doosan A2120-DO-25N-072-P



Assembly parts

Assembly parts		Do
①	Wedge	FK393
②	Screw	M12x075 ISO4762 12.9
③	Screw	M12x040 ISO4762 12.9
④	Screw	M06x012 DIN7991 10.9
⑤	Nozzle	FS2561
⑥	O-ring	10x1,5-NBR 70

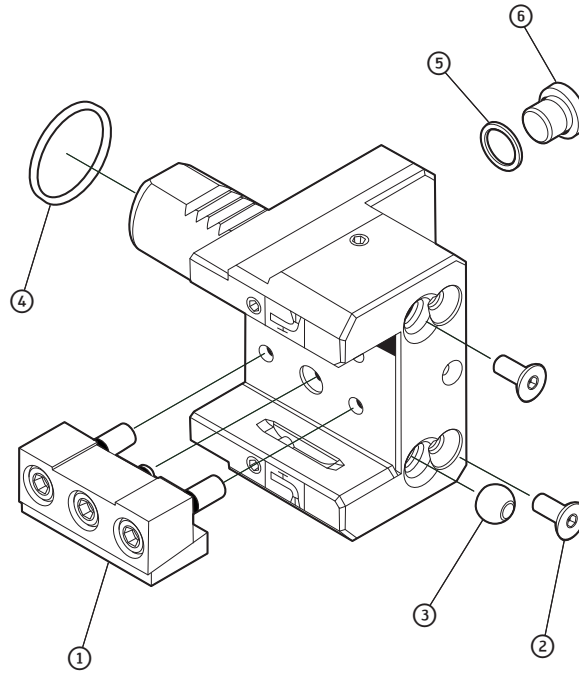
Assembly parts and accessories for BMT A2120-BT45-20N-063-P



Assembly parts

		BT45
①	Wedge	FK392
②	Screw	M08x065 ISO4762 12.9
③	Screw	M08x030 ISO4762 12.9
④	Screw	M06x012 DIN7991 10.9
⑤	Nozzle	FS2561
⑥	O-ring	6x1,5-NBR 70

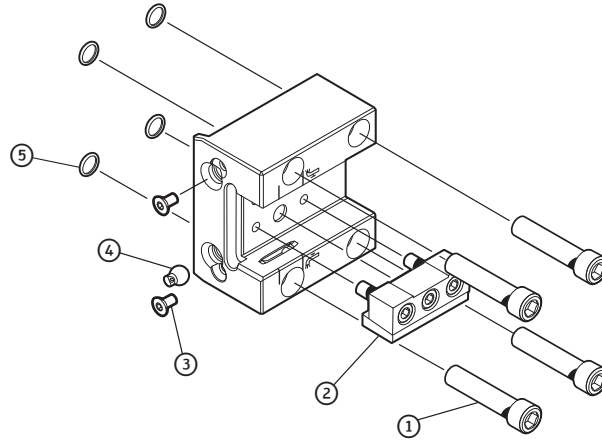
Assembly parts and accessories for VDI A2120-V25-20N-055-P



Assembly parts

Assembly parts		V25
①	Wedge	FK385
②	Screw	M05x012 DIN7991 10.9
③	Nozzle	FS2562
④	O-ring	23,52x1,78
⑤	Gasket	FS2564
⑥	Plug	G1/8 DIN908

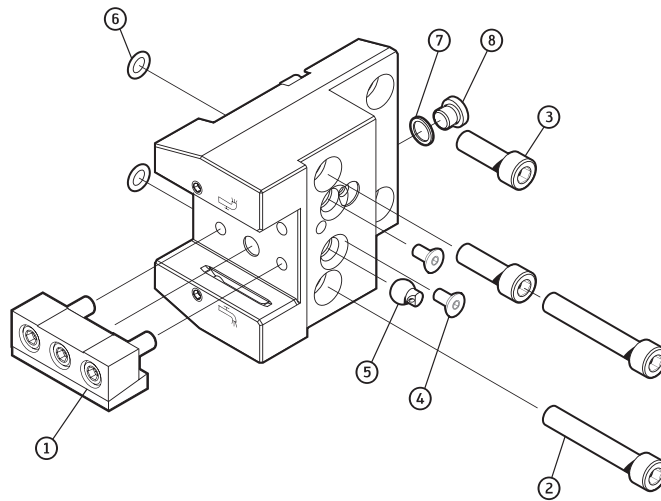
Assembly parts and accessories for Doosan A2121-DO-25N-050-P



Assembly parts

		Do
①	Wedge	FK393
②	Screw	M12x055 ISO4762 12.9
③	Screw	M06x012 DIN7991 10.9
④	Nozzle	FS2561
⑤	O-ring	10x1,5-NBR 70

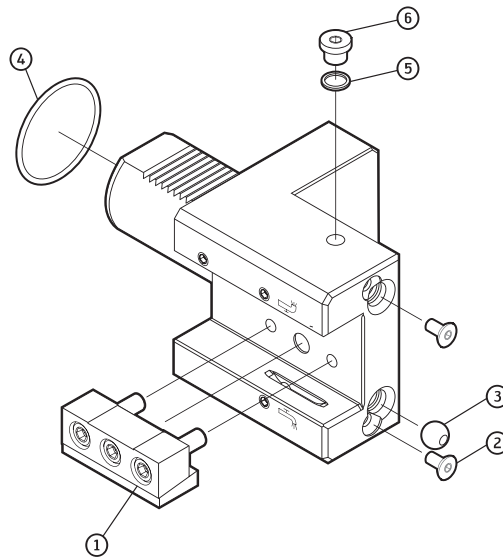
Assembly parts and accessories for BMT A2120-BT55-25N-060-P



Assembly parts

		BT55
①	Wedge	FK393
②	Screw	M10x60 ISO4762 12.9
③	Screw	M10x30 ISO4762 12.9
④	Screw	M06x012 DIN7991 10.9
⑤	Nozzle	FS2561
⑥	O-ring	8.00x2.00 NBR 70
⑦	Gasket	FS2564
⑧	Plug	M10x1 DIN908

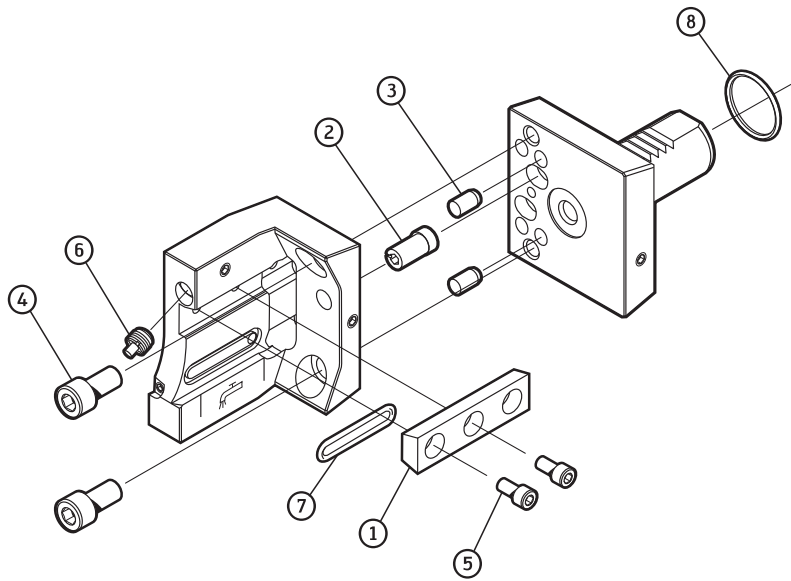
Assembly parts and accessories for VDI A2120-V50-25N-100-P



Assembly parts

		V50
①	Wedge	FK393
②	Screw	M06x012 DIN7991 10.9
③	Nozzle	FS2562
④	O-ring	O-ring 47.29x2.62 70/75
⑤	Gasket	FS2564
⑥	Plug	G1/8 DIN908

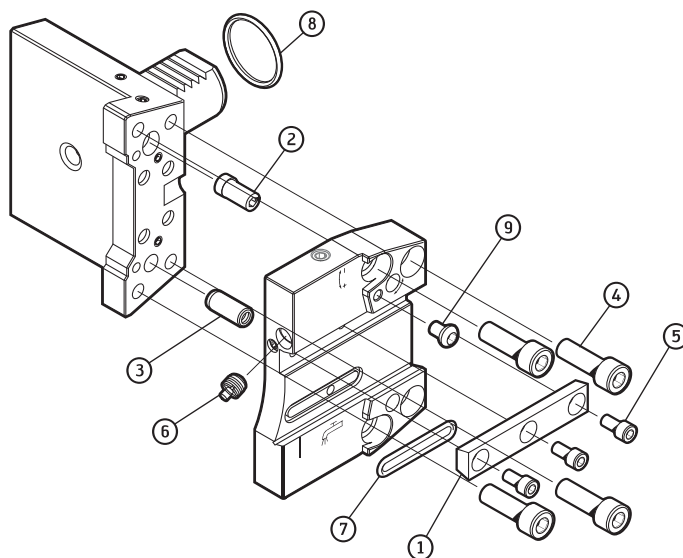
Assembly parts and accessories for Traub VDI A2110-V25T-26R/L-083-P



Assembly parts

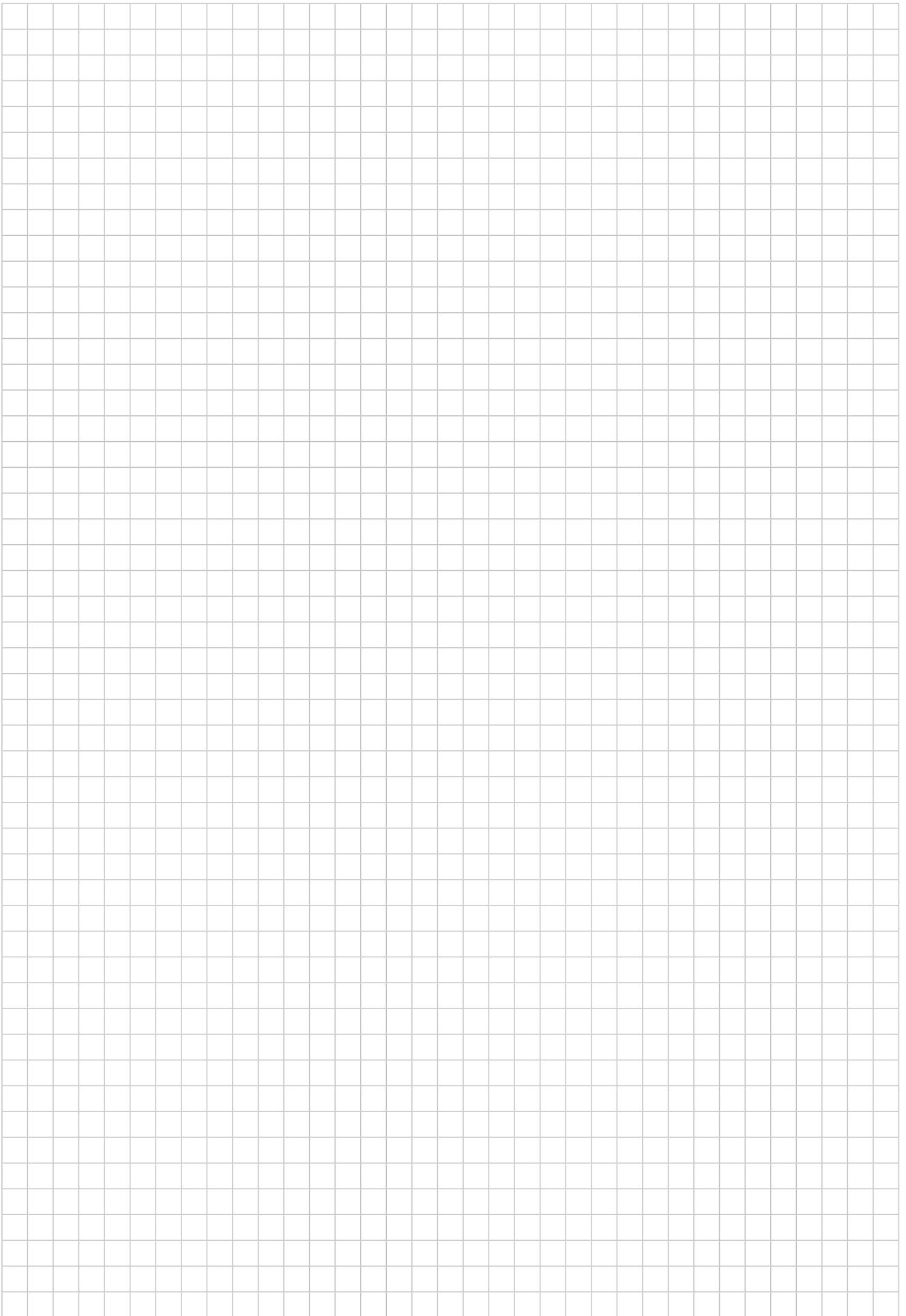
		V25T
①	Wedge	FK383
②	Eccentric pin	FS2275
③	Parallel pin	06,0M6X012 ISO8734
④	Screw	M08X016 ISO4762 12.9
⑤	Screw	M05X010 ISO14579 8.8
⑥	Nozzle	FS1477
⑦	O-ring	O-ring 24X2 70 / 80
⑧	O-ring	O-ring 23.52X1.78 70/75

Assembly parts and accessories for Traub VDI A2110-V30-32R/L-080-P



Assembly parts

		V30
①	Wedge	FK384
②	Eccentric pin	FS2275
③	Parallel pin	08,0M6X20 ISO8735
④	Screw	M08X025 ISO4762 12.9
⑤	Screw	M05X010 ISO14579 8.8
⑥	Nozzle	FS1477
⑦	O-ring	O-ring 24X2 70 / 80
⑧	O-ring	O-ring 28.3X1.78 70/75
⑨	Plug	M05X08 ISO7380 10.9-Torx



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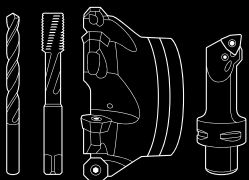
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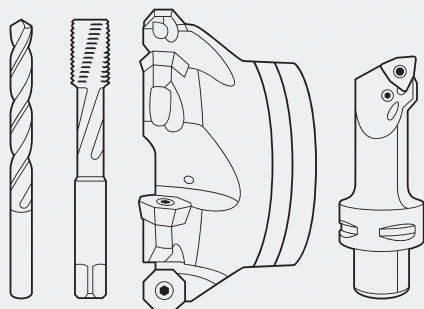
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