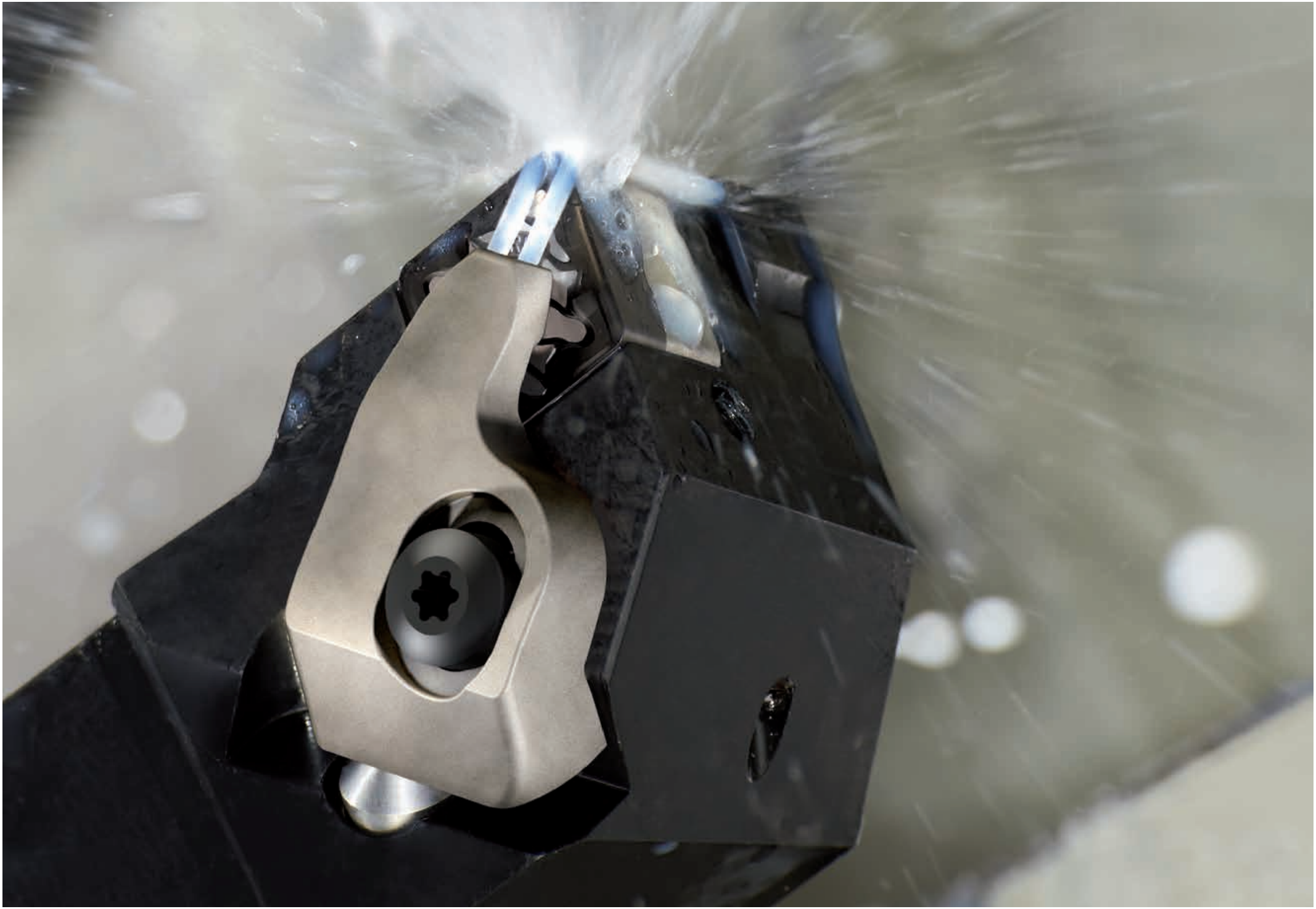


Now with precision coolant: Direct, efficient – straight to the point.

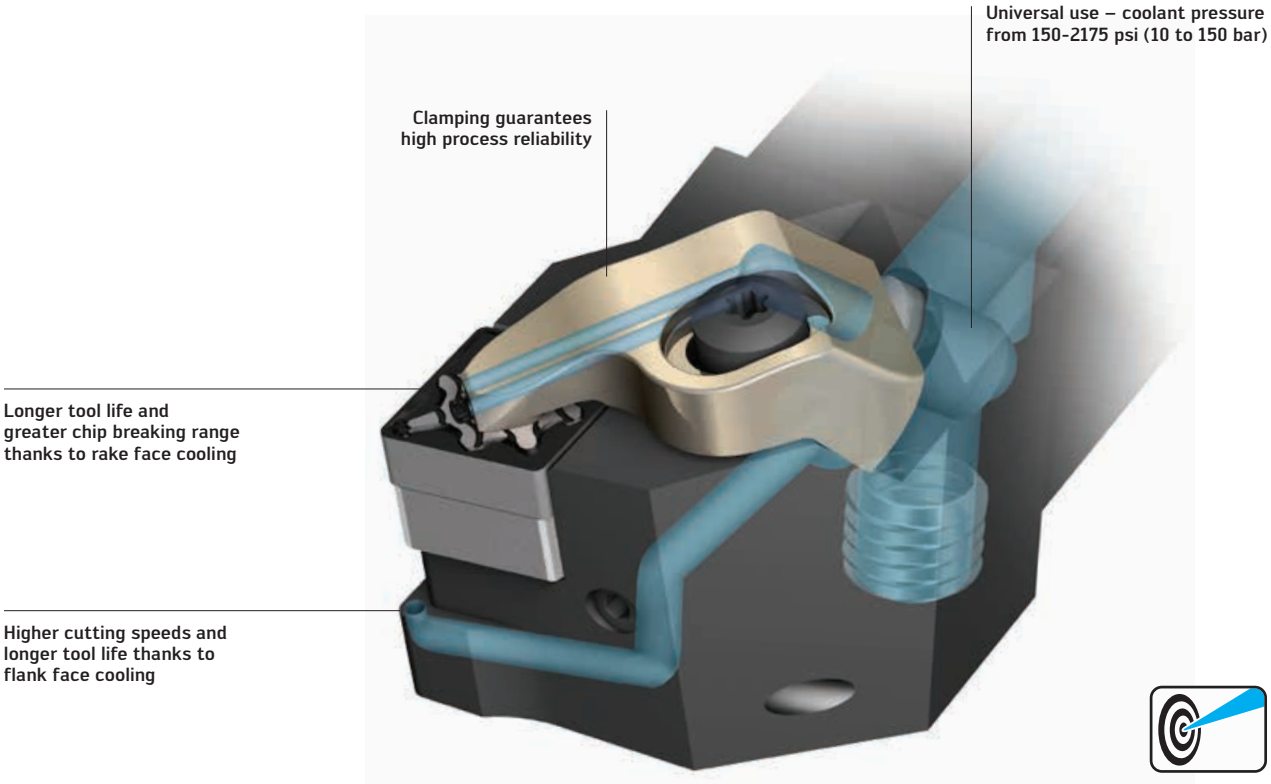
NEW TECHNOLOGY

THE APPLICATION

- Machining stainless material (ISO M), high-temperature alloys (ISO S) and steel (ISO P)
- Can be used starting from 150 psi (10 bar) up to a maximum coolant pressure of 2175 psi (150 bar) (pressures higher than 2175 psi (150 bar) also possible following technical clarification)
- Improved chip breaking, especially at pressures above 550 psi (40 bar)
- Multiple machine operation, e.g. multi-spindle machines, because the chips are removed by the optimal cooling system

THE TOOL

- Internal coolant supply runs directly through the clamp and also along the flank face
- Flexible square-shank coolant connection: Direct coolant transfer from adaptor to shank tool (A2120-P/A2121-P); Coolant hose set with G1/8" thread (K601)
- Tool variants: Square shank 3/4 and 1 inch (20/25 mm); Walter Capto™ C4–C8



Powered by Tiger·tec® Silver

Shank tool with precision coolant

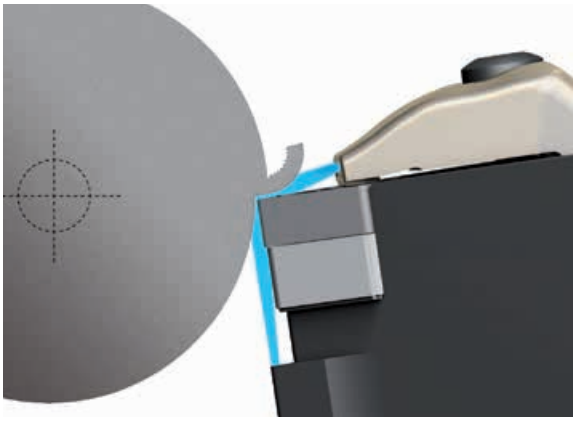
Fig.: DCLNL2525X12-P

BENEFITS FOR YOU

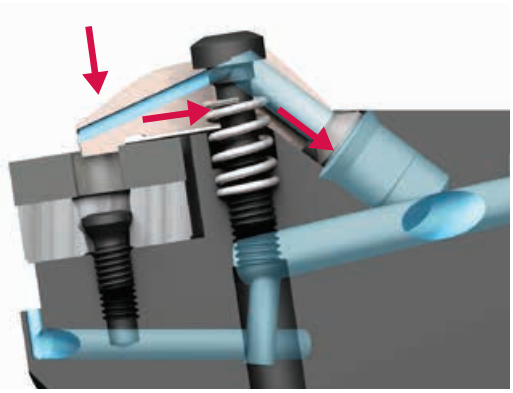
- Increase in tool life of 30–150 % on stainless materials, high-temperature alloys and steel
- The "plug and play" design allows for use in existing machines, as it can be used starting from a coolant pressure of 150 psi (10 bar) and without obstructions on the tool
- Increase in cutting speed by up to 100 %, while maintaining the same tool life

THE TECHNOLOGY

Precision coolant:
In tools with precision coolant, the adaptor, the turning toolholder and the indexable insert geometry are designed to ensure ideal cooling.



At the effective working area:
Precision Coolant brings the coolant as close and flatly angled as possible to the effective working area underneath the chip. As a result, significant advantages can be achieved starting from a coolant pressure of just 150 psi (10 bar).



Process reliability:
The clamp presses the insert down and back into the insert seat. Consequently, the insert idoes not move in its seat even during heavy roughing operations and the component dimensions are consistently maintained with complete accuracy.

THE SYSTEM

Jet guiding geometry:
The new FM5, RM5 and MS3 jet guiding geometries direct the coolant beneath the chip and thereby even closer to the cutting edge.

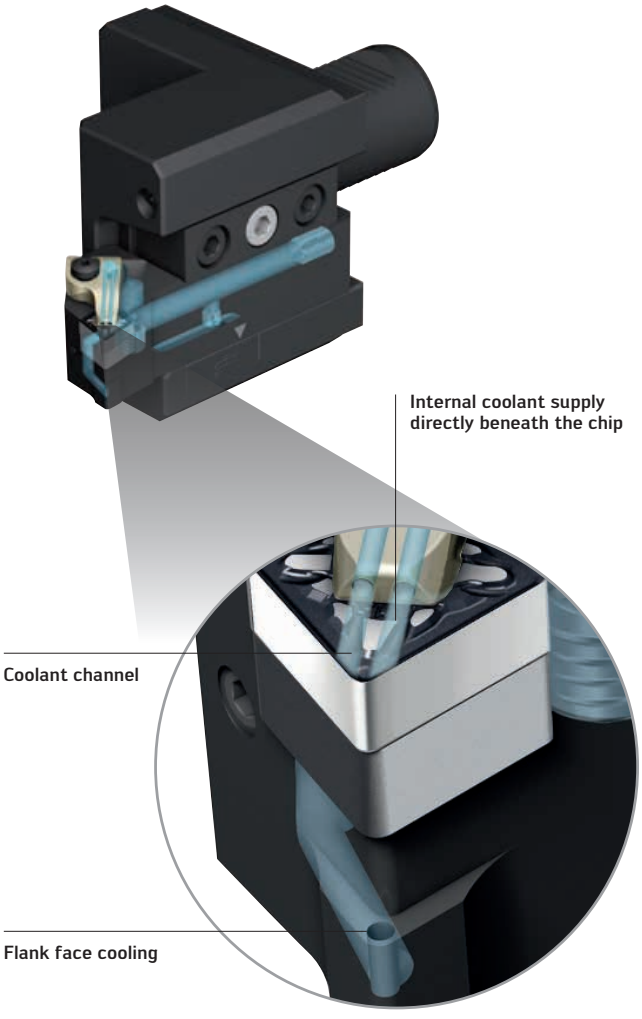


Fig.: DCLN-P shank tool, A2120-P VDI adaptor and RM5 jet guiding geometry

Watch product animation:
Scan this QR code or go directly to
http://goo.gl/glbwEc

Maximum cooling and tool life with ISO M and ISO S thanks to jet guiding geometry.

NEW

THE APPLICATION

- ISO M stainless steels:
  Austenitic (e.g. AISI 316),
  Duplex steels (e.g. 2205, 2507),
  Super austenite (e.g. AISI 904L)
- ISO S high-temperature alloys

THE GEOMETRIES

FM5 jet guiding geometry
- For optimal chip breaking
- Machining parameters for finishing operations:
  f: 0.001–0.010 inch (0.03–0.25 mm)
  a_p: 0.004–0.079 inch (0.1–2.0 mm)

RM5 jet guiding geometry
- For optimal internal coolant supply beneath the chip
- Machining parameters for roughing operations:
  f: 0.008–0.024 inch (0.20–0.60 mm)
  a_p: 0.039–0.197 inch (1.0–5.0 mm)

THE GRADES

- Tiger·tec® Silver PVD-Al_2O_3 grades:
  WSM10S, WSM20S, WSM30S
- Tiger·tec® Silver CVD grade: WMP20S

THE TOOL

- Walter Turn turning toolholder with rigid clamping, lever type clamping or wedge-type clamping system
- Walter Turn turning toolholder with precision coolant

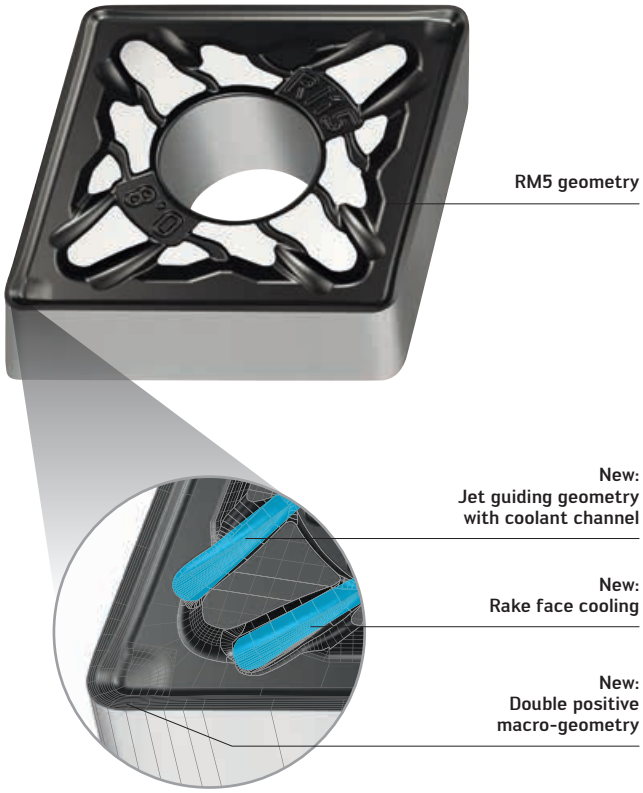
Grades: WSM10S, WSM20S, WSM30S, WMP20S

Fig.: FM5 and RM5 geometries

BENEFITS FOR YOU

- Optimal cooling and maximum productivity
- The design of the cutting edge reduces notch formation and crater wear
- Improved chip breaking thanks to jet guiding geometry
- Maximum tool life thanks to Tiger·tec® Silver coating with PVD Al_2O_3 heat shield
- Can be used universally in standard ISO turning toolholders or tools with precision coolant

Ordering information
from page 26.



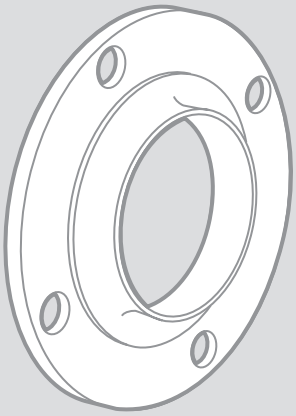
Powered by
Tiger·tec® Silver

Grades: WSM10S, WSM20S, WSM30S, WMP20S

Fig.: RM5 geometry

APPLICATION EXAMPLE

Roughing – flange outer contour, forged

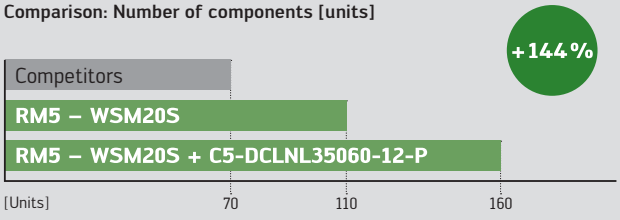


Material: 316L
Machine: Index C200
Operation: Roughing, outer contour
Insert: CNMG433-RM5
Grade: WSM20S Tiger·tec® Silver

Cutting data:

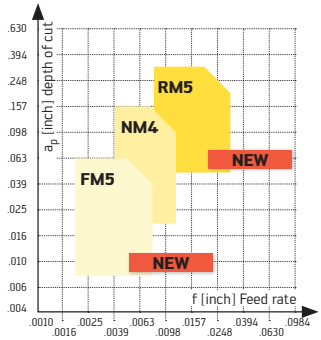
	Competitors	Walter Test 1	Walter Test 2
Toolholder	C5-PCLNL35060-12 Standard turning toolholder	C5-PCLNL35060-12 Standard turning toolholder	C5-DCLNL35060-12-P Precision coolant
Geometry	R	RM5	RM5
Grade	ISO M10	WSM20S	WSM20S
Cutting speed v_c	590 SFM	590 SFM	590 SFM
Feed f	0.014 inch	0.014 inch	0.014 inch
Depth of cut a_p	0.040–0.150 inch	0.040–0.150 inch	0.040–0.150 inch
Tool life	70 units	110 units	160 units

Comparison: Number of components [units]



GEOMETRY OVERVIEW: ISO M

Negative basic shape M



Watch product animation:
Scan this QR code or go directly to
http://goo.gl/4lcgr1

_MS3 GEOMETRY

The ideal combination of low cutting pressure and long tool life.

NEW

THE APPLICATION

- Ideal for long overhangs and unstable or thin-walled components
- Prevents vibration thanks to low cutting pressures

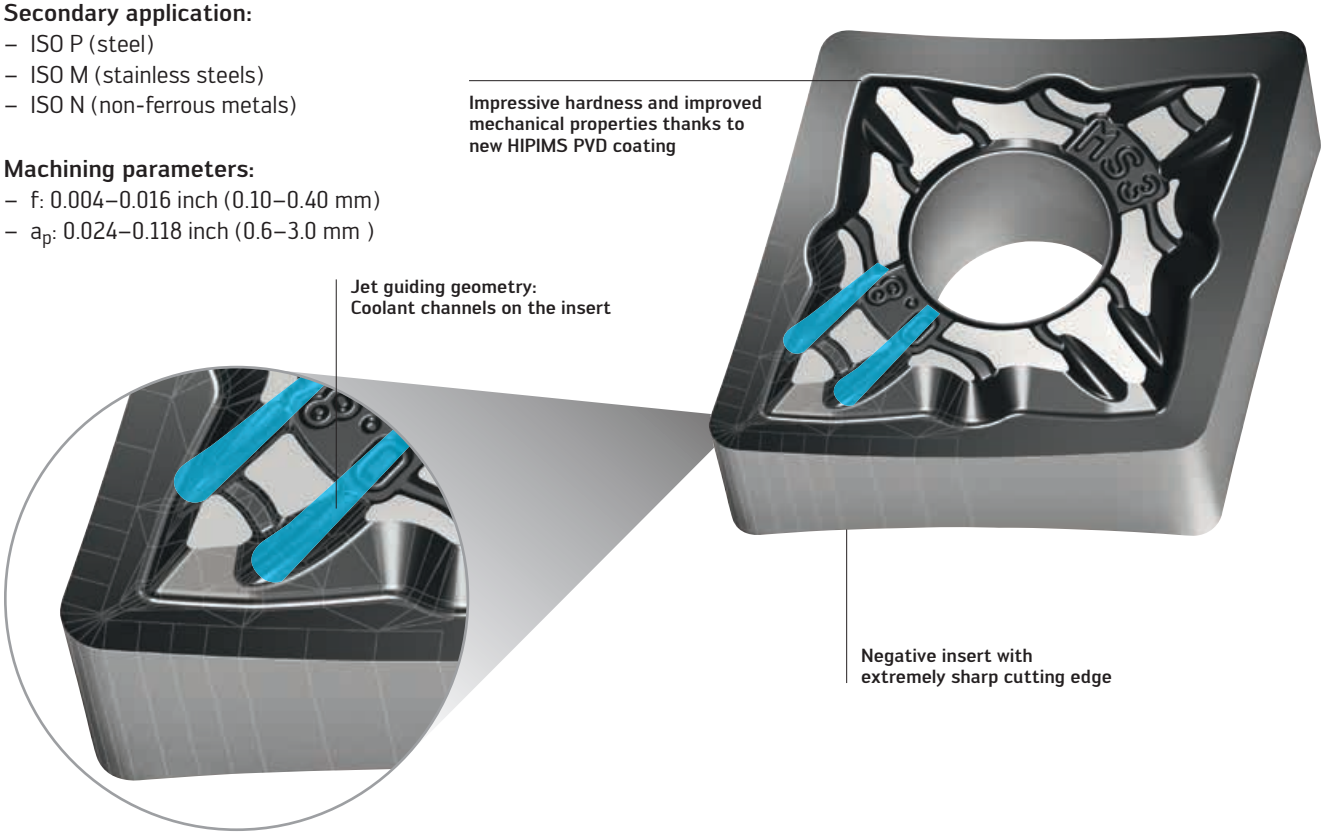
Primary application:
- ISO S: High-temperature alloys, nickel-based alloys (e.g. Inconel 718), cobalt-based alloys

Secondary application:
- ISO P (steel)
- ISO M (stainless steels)
- ISO N (non-ferrous metals)

Machining parameters:
- f: 0.004–0.016 inch (0.10–0.40 mm)
- a_p: 0.024–0.118 inch (0.6–3.0 mm)

THE INDEXABLE INSERTS

- Negative circumference-sintered and circumference fully ground design with chip breaker groove
- Basic shapes: CNMG, CNGG, DNMG, DNGG, TNMG, VNMG, VNGG, WNMG
- Corner radii: 0.004, 0.008, 0.016, 0.031 inch (0.1, 0.2, 0.4 and 0.8 mm)



Grades: WS10, WSM10, WSM10S, WSM20S, WPP10S, WPP20S

Fig.: MS3 geometry

BENEFITS FOR YOU

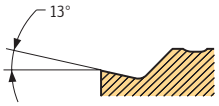
- Burr-free components
- Less build up on the edge thanks to sharp cutting edges
- Machines unstable components with no problems owing to lower cutting pressure
- Direct cooling on the cutting edge due to the jet guiding geometry
- Coating and substrate remain hard even at high machining temperatures
- Ideal for copy turning thanks to the curved design of the cutting edge

Ordering information from page 26.

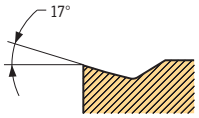
THE GEOMETRY

- For medium and semi finish machining
- Areas of use: Aerospace, Energy, General mechanical engineering, automotive industry, etc.
- Nickel-based alloys (e.g. Inconel 718)
- Duplex steels

Main cutting edge



Radius



THE GRADES

HIPIMS PVD grades: WSM01

- High-temperature alloys
- Austenitic stainless steels (such as AISI 316 and 304)

PVD-Al_2O_3 grades: WSM10S, WSM20S

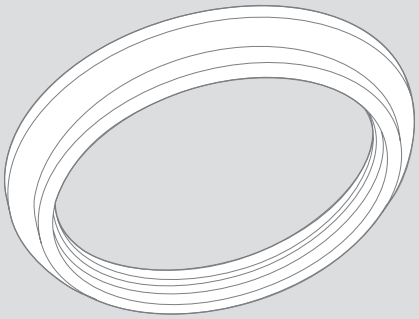
- High-temperature alloys
- Austenitic stainless steels
- Machining operations on automatic bar machines and multi-spindle machines

CVD grades: WPP10S, WPP20S

- Free machining steels
- Long cutting times
- Maximum wear resistance

APPLICATION EXAMPLES

V ring – medium machining

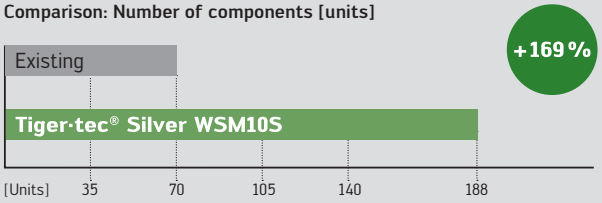


Material:	304 stainless forged part
Machine:	Scherer VDZ 220DS
Tool:	DCLNL2525M12
Insert:	CNMG432–MS3
Grade:	WSM10S Tiger·tec® Silver

Cutting data:

	Existing	PVD WSM10S
Cutting speed v_c	720 SFM	720 SFM
Feed f	0.010 inch	0.010 inch
Depth of cut a_p	0.080 inch	0.080 inch
Tool life	70 units	188 units

Comparison: Number of components [units]



Grades: WSM01, WSM10S, WSM20S, WPP10S, WPP20S

Fig.: DNMG, TNMG, VNMG, WNMG basic shapes

Watch product video:
Scan this QR code or go directly to
http://goo.gl/H8NEyP

Perfect performance thanks to the new HIPIMS grades.

NEW

WNN10

Primary application – roughing and finishing:
- ISO N alloys
- Aluminum alloys (e.g. 6061, 7075)
- Copper alloys
- Magnesium alloys (e.g. MgMn2)

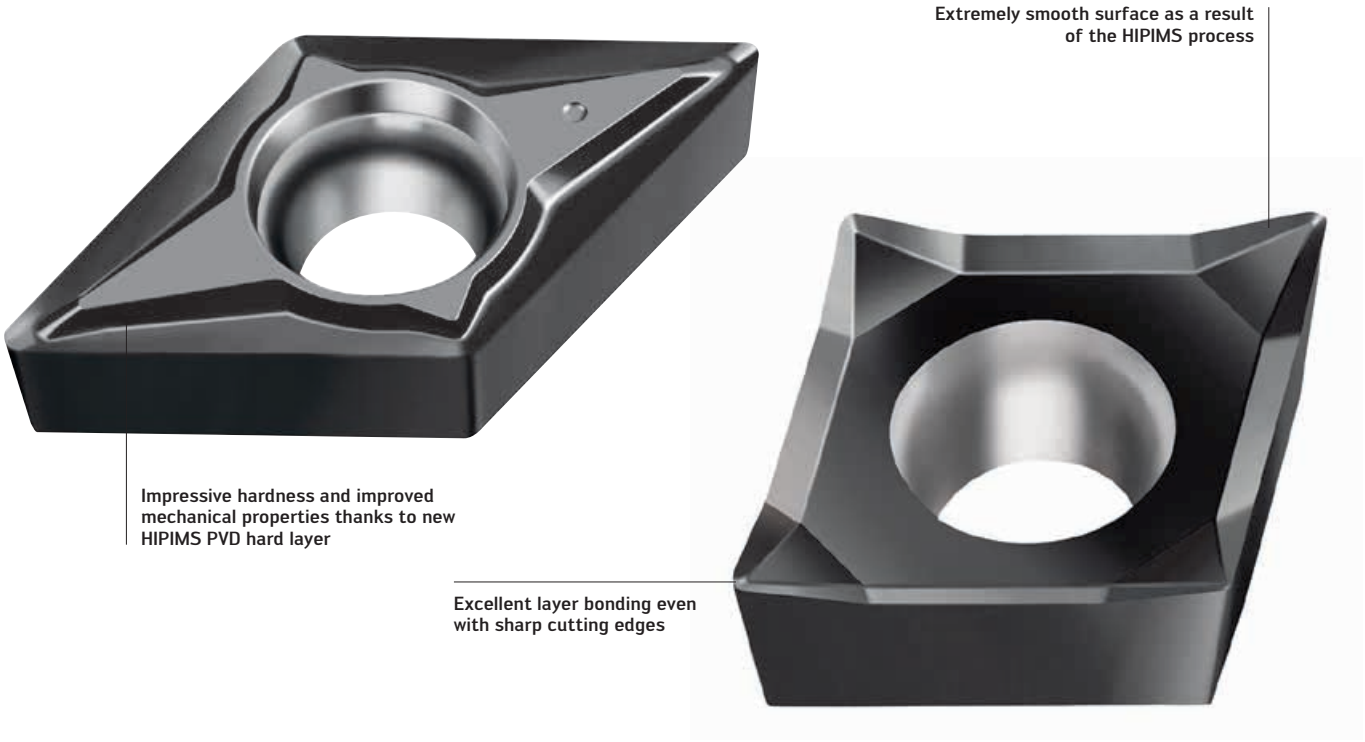
Secondary application – fine finishing of small components made from:
- ISO P (steel)
- ISO M (stainless steels)
- ISO S (high-temperature alloys)

Finishing and roughing of:
- ISO O (thermosets and thermoplastics)

WSM01

Primary application – finishing to medium machining:
- ISO S High Temp Alloys
- ISO M Stainless steels

Secondary application – finishing components made from:
- ISO P (steel)
- ISO N (non-ferrous)
- ISO O (thermosets and thermoplastics)



Grade: WNN10/WSM01

Fig.: FN2, MN2 geometries

BENEFITS FOR YOU

- Excellent surface quality and dimensional accuracy
- High process reliability thanks to the new WNN10/WSM01 grades
- No layer flaking and even wear development due to excellent layer bonding
- Longer tool life on materials with a tendency to form edge build-up (adhesion) thanks to reduced surface roughness
- Machines unstable components as well as components with long overhangs

Ordering information from page 35.

THE GEOMETRIES

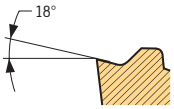
FN2 – positive indexable inserts for finishing ISO N:

- Finishing insert with fully ground circumference
- For low cutting forces
- Polished rake face
- For long, small-diameter shafts with a tendency to vibrate

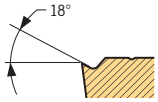
MN2 – positive indexable inserts for medium machining of ISO N:

- Universal use for non-ferrous metallic materials
- Sharp cutting edge with fully ground circumference
- Polished rake face
- Precision finishing on steel and stainless materials

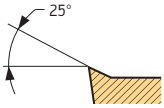
Main cutting edge



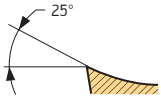
Radius



Main cutting edge

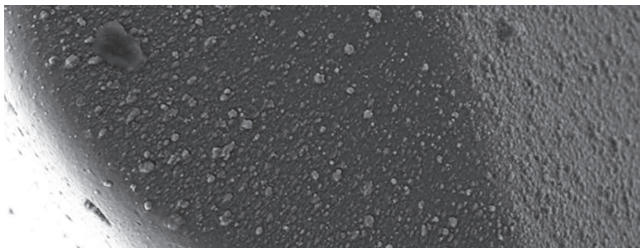


Radius

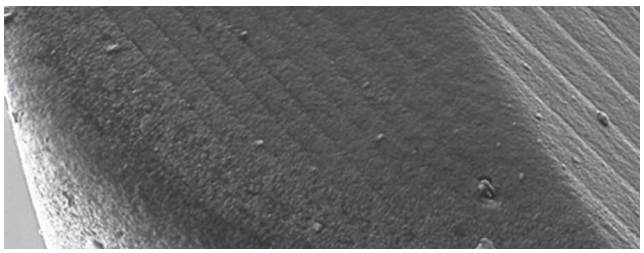


SURFACE COMPARISON:

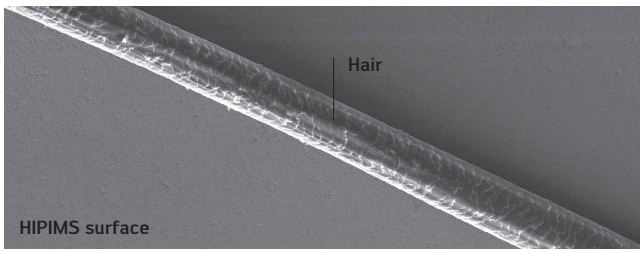
Standard PVD process: Increased droplet formation



HIPIMS PVD process (WNN10/WSM01): Extremely smooth surface

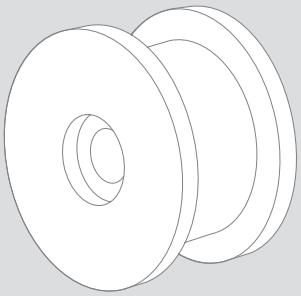


HIPIMS surface and structure of a hair as a direct comparison



APPLICATION EXAMPLES

Blade wheel – finishing

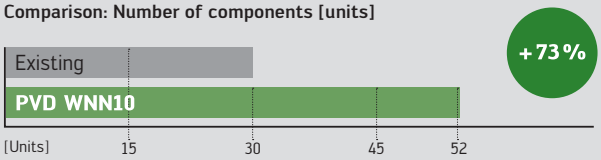


Material: Red brass
Machine: DMG Mori NEF 400
Tool: C5-SDJCL-35060-11
Insert: DCGT3(2.5)1-MN2
Grade: WNN10

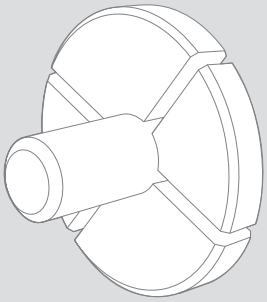
Cutting data:

	Existing	PVD WNN10
Cutting speed v_c	820 SFM	820 SFM
Feed f	0.003 inch	0.003 inch
Depth of cut a_p	0.012 inch	0.012 inch
Tool life	30 units	52 units

Comparison: Number of components [units]



Anchor – finishing

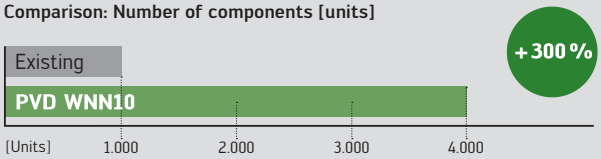


Material: 52100
Machine: Schütte SCX-32
Tool: C5-SDJCL-35060-11
Insert: DCGT3(2.5)0.5-MN2
Grade: WNN10

Cutting data:

	Existing	PVD WNN10
Cutting speed v_c	390 SFM	390 SFM
Feed f	0.002 inch	0.002 inch
Depth of cut a_p	0.004 inch	0.004 inch
Tool life	1000 units	4000 units

Comparison: Number of components [units]



Strong new grades: Tiger·tec® Silver with PVD-Al_2O_3.

NEW TO THE RANGE

NEW ADDITION TO THE PRODUCT RANGE

- Positive geometries:
  FM2, FM4, FM6, MM4, RM4
- Negative geometries:
  FM5, RM5, NMS, NRS, NFT, NMT, NRT
- Wiper geometries:
  Positive – PF, PM
  Negative – NF, NM

THE GRADES

- Tiger·tec® Silver
  PVD-Al_2O_3 grades:
  WSM10S, WSM20S,
  WSM30S

THE APPLICATION

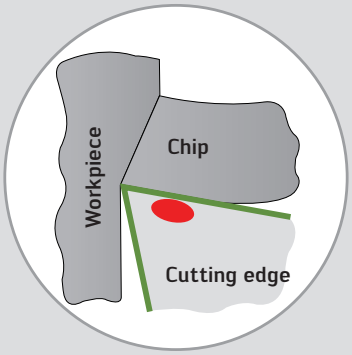
Primary application
ISO M – stainless steels
- Austenitic stainless steels
  (e.g. AISI 316)
- Duplex steels

ISO S – high-temperature alloys
- Nickel-based alloys (e.g. Inconel 718)
- Cobalt-based alloys

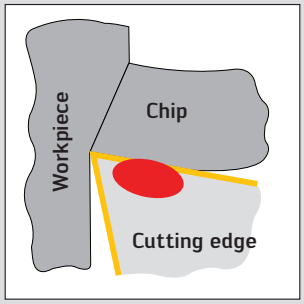
Secondary application
ISO P – steel

THE TECHNOLOGY

Tiger·tec® Silver PVD
Low transfer of heat into the carbide thanks to Al_2O_3 heat shield



Competitors
High transfer of heat into the carbide due to conventional PVD layer



= Temperature
= Aluminum oxide (Al_2O_3)
= Conventional PVD coating

Geometries available in the new Tiger·tec® Silver PVD-Al_2O_3 grades: WSM10S, WSM20S, WSM30S

Powered by
Tiger·tec®Silver


FM5


RM5

Feed f

Negative indexable inserts: ISO M/S machining

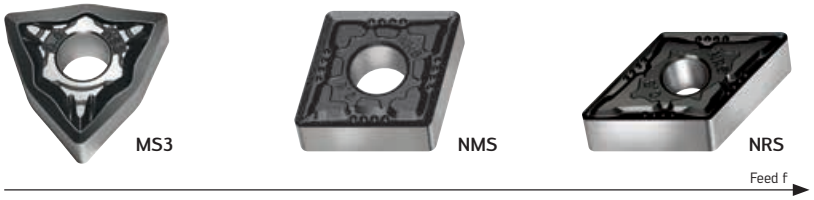
BENEFITS FOR YOU

- Wide variety of geometries
- High wear resistance from the optimized Al_2O_3
- Maximum toughness due to minimal thermal loads with the new coating process
- Reduced friction do to the extremely smooth coating surface
- Excellent chip breaking
- Burr-free components and reduced build up on the edge

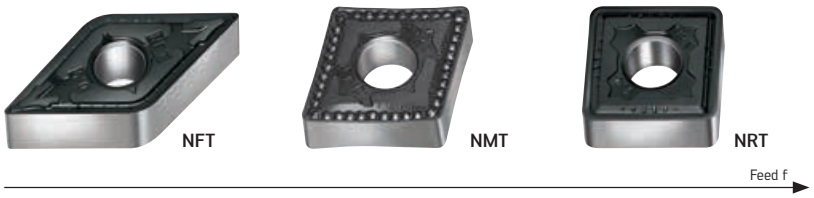
Overview of the geometries of the new Tiger·tec® Silver PVD-Al_2O_3 grades:

Powered by
Tiger·tec®Silver

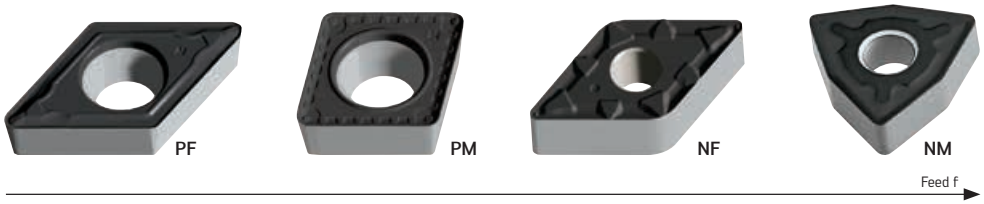
Positive indexable inserts: ISO M/S machining



Negative indexable inserts: ISO S machining (high-temperature alloys, e.g. Inconel)



Negative indexable inserts: Titanium machining



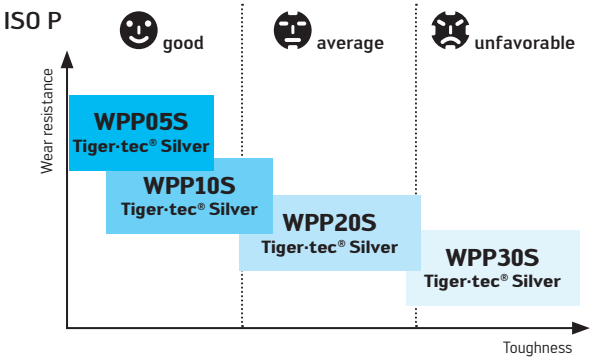
Wiper **Positive and negative indexable inserts**

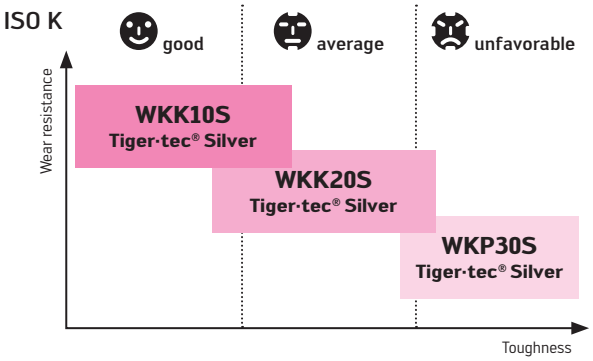
Ordering information
from page 26.

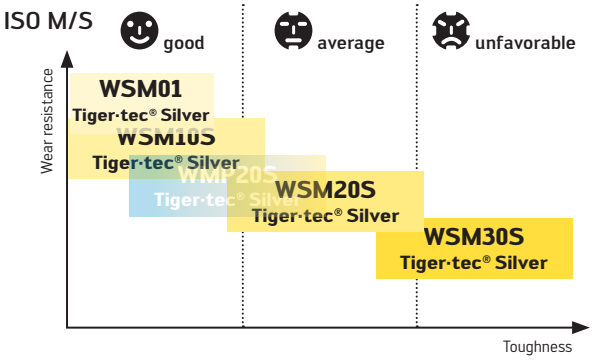
Watch product video:
Scan this QR code or go directly to
http://goo.gl/SPD024

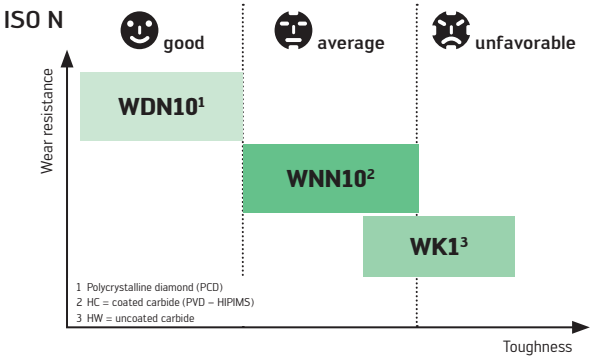
Walter Tiger·tec® Silver: Overview of grades and geometries.

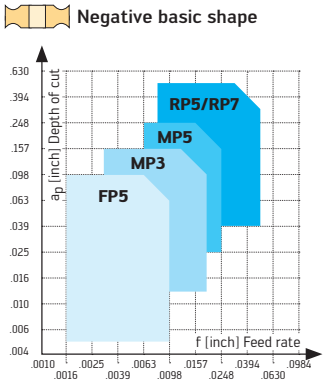
PRODUCT RANGE OVERVIEW

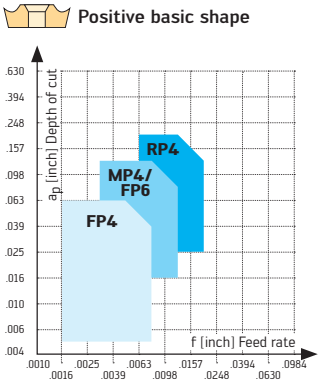


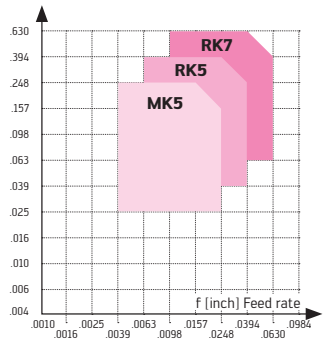


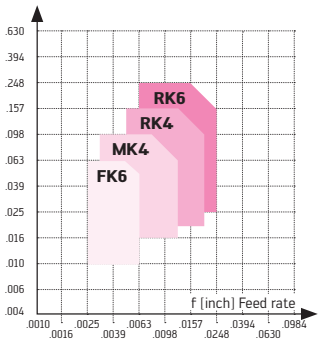


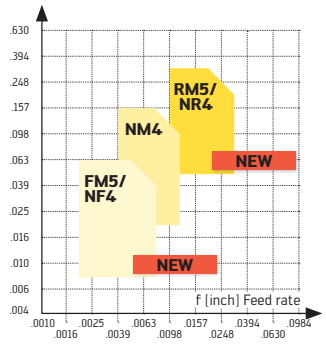


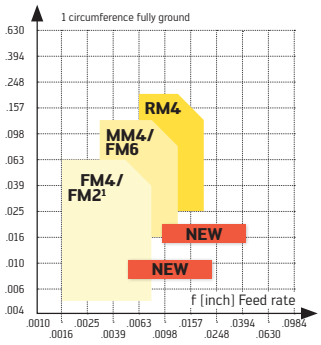


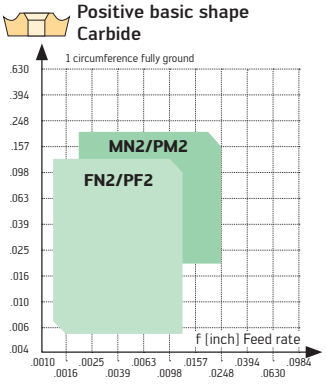


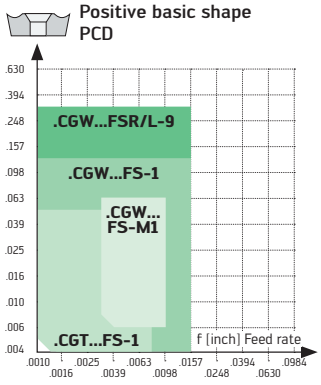












Ordering information
from page 26.

Internal grooving with cool precision.

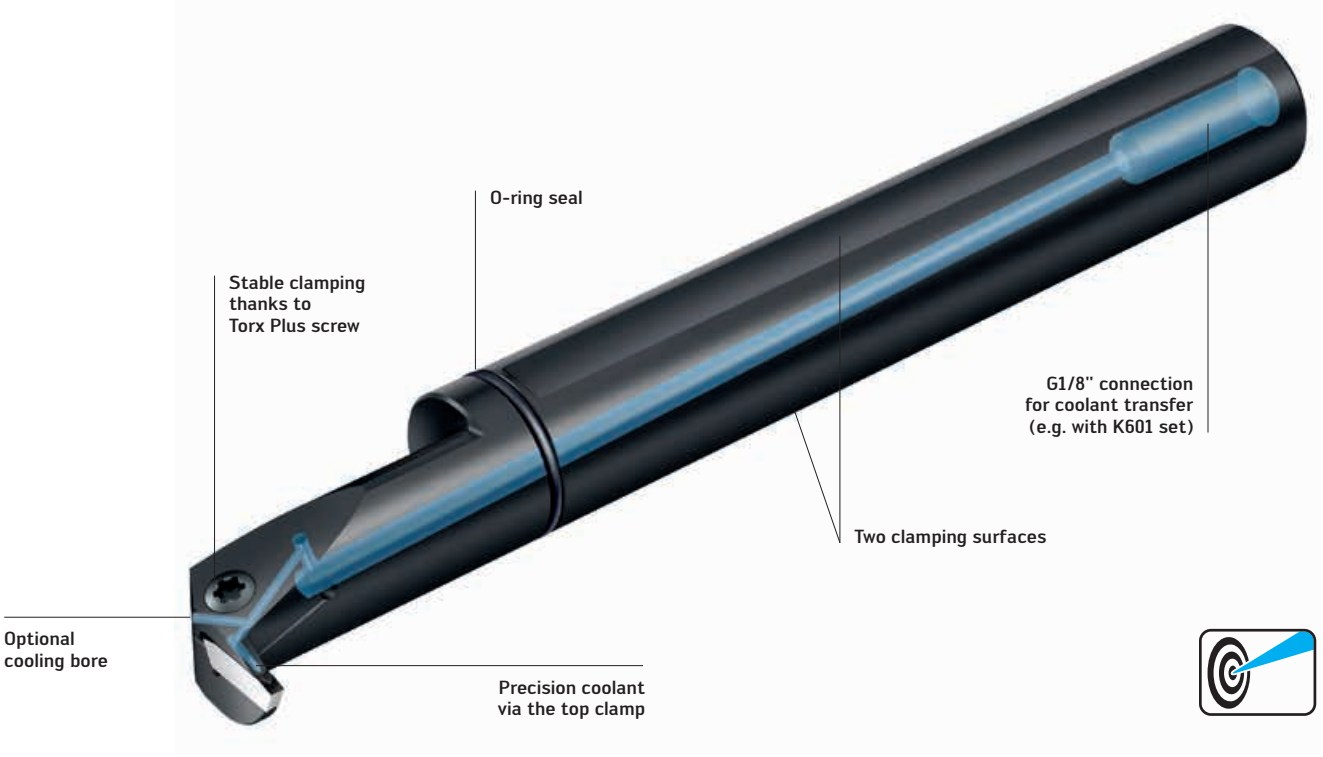
NEW

THE APPLICATION

- First choice for internal grooving and recessing
- For all ISO material groups
- Internal grooves with a diameter starting from D_{min} = 0.625 inch (16 mm)
- Grooving to a depth of T_{max} = 0.375 inch (9.5 mm)
- Insert widths of 0.079, 0.118, 0.157 inch (2, 3 and 4 mm)
- For use with all lathes
- Can be used up to a maximum coolant pressure of 1160 psi (80 bar)

THE TOOL

- Grooving boring bar G1221-P
- Precision coolant via the top clamp
- Re-sealable axial coolant bore for blind-hole machining
- Connection using K601 coolant set (G1/8" thread on shank) or installation, e.g. using a Weldon type adaptor
- Flexible O-ring seal for leakage-free coolant transfer between the tool and base adaptor
- Two clamping surfaces
- Right-hand and left-hand versions available



G1221-P grooving boring bar with precision coolant

Fig.: G1221-25RR-3T08-GX16-P

BENEFITS FOR YOU

- Interface between base adaptor and tool free from pressure loss due to O-ring seal
- Optimal surface quality, process reliability and chip evacuation
- Tool can be used in normal or overhead position
- Superior machining results due to optimal L×D ratio

Ordering information from page 74.

Watch product video:
Scan this QR code or go directly to http://goo.gl/8B4ZFv

Multiply your success – with four cutting edges.

NEW

THE INDEXABLE INSERTS

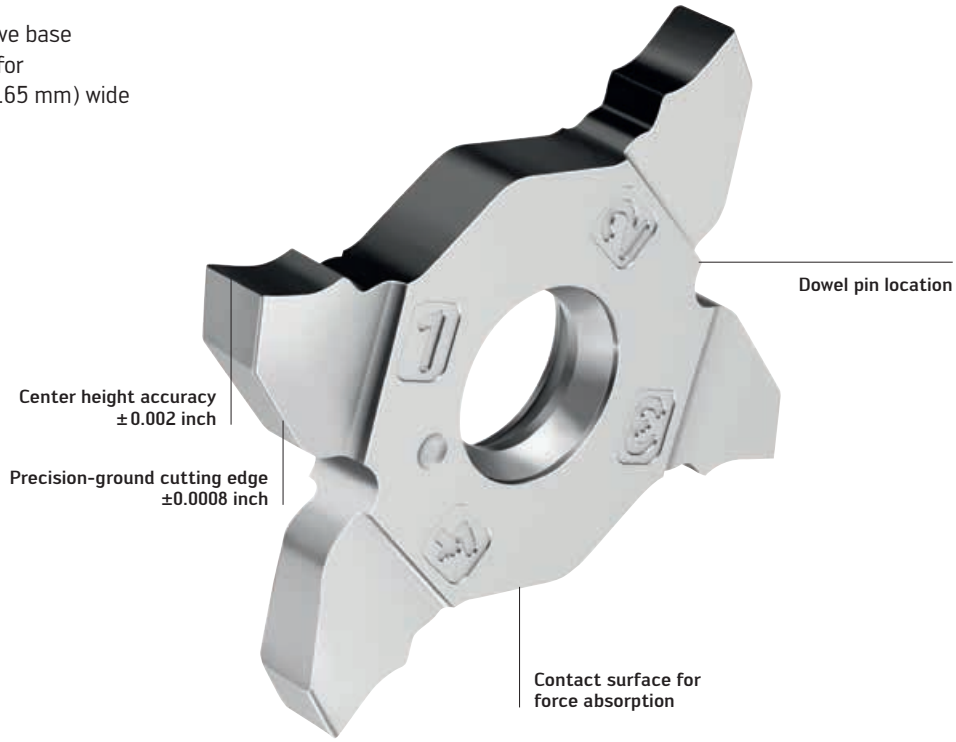
- Four precision-ground cutting edges
- Three contact points in the tool, tangentially mounted, screw fastened
- Insert widths of 0.039–0.128 inch (1.00–3.25 mm)
- Cutting depth of up to 0.236 inch (6 mm) (depending on the width of the cutting insert)
- One cutting insert for left and right tool holders

THE GEOMETRY

- GD8: Positive rake angle geometry for reduced cutting forces
- Straight cutting edge for flat groove base
- Chip formation particularly suited for special shapes up to 0.222 inch (5.65 mm) wide

THE APPLICATION

- For grooving, parting off and chamfering with four cutting edges
- For retaining ring grooves
- Use on all types of lathes
- Ideal for precise grooves and small diameters (very precise center height and precision-ground cutting edge)
- Can be used from 150 psi (10 bar) up to a maximum coolant pressure of 2175 psi (150 bar)



MX grooving insert with four cutting edges **Fig.:** MX22...-GD8

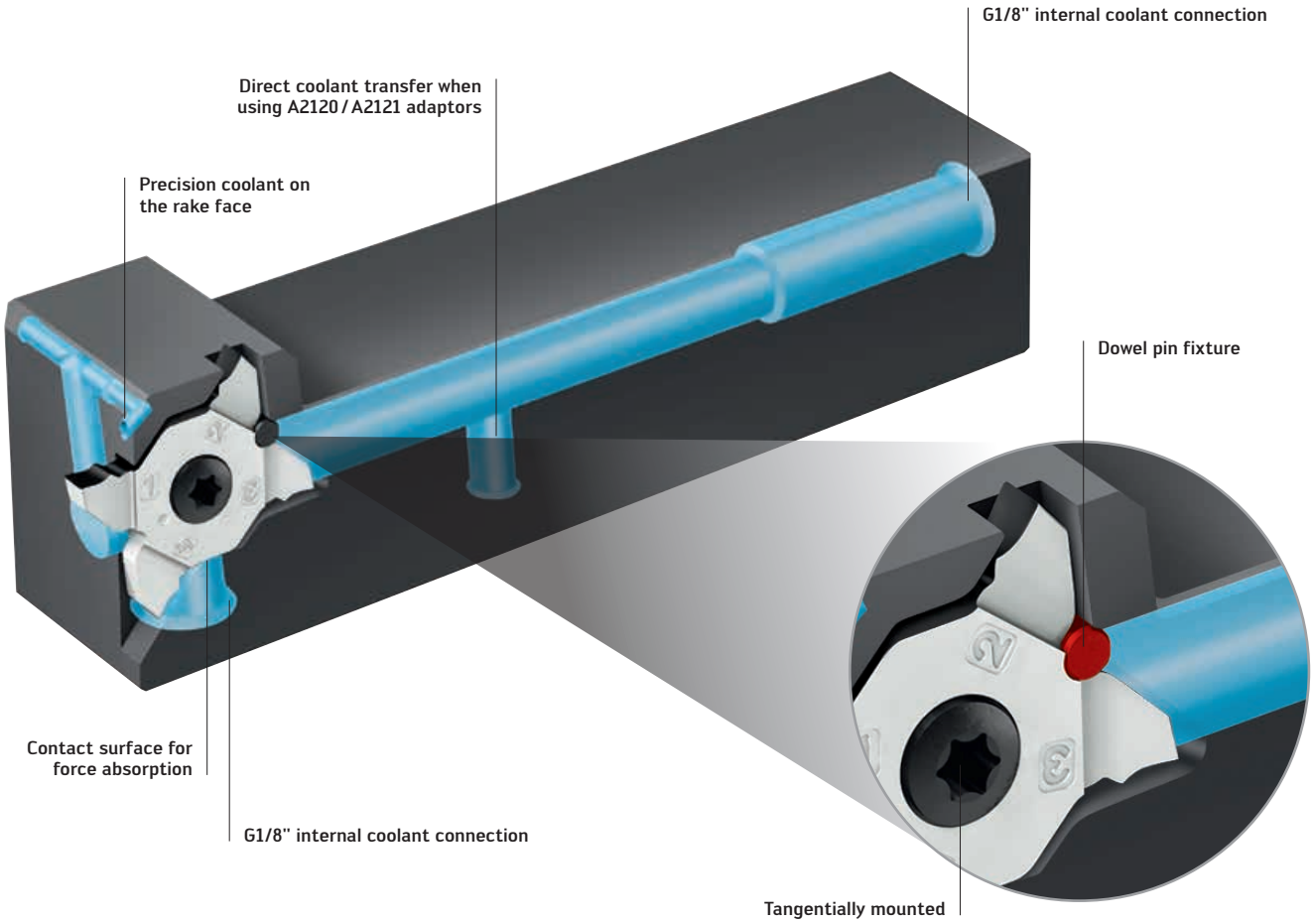
BENEFITS FOR YOU

- Tangential arrangement enables outstanding flatness and surface quality
- Very user friendly due to self-aligning tangential clamping
- Maximum indexing accuracy thanks to dowel pin location in insert seat
- Safe and easy to use: Cutting edge cannot be fitted incorrectly
- If one cutting edge breaks, the other cutting edges remain usable
- Maximum tool life thanks to the newest Tiger·tec® Silver PVD cutting tool material

Ordering information from page 69.

THE TOOL

- Grooving and parting off tool with precision coolant
- Toolholder protected by the insert core
  (insert seat is not damaged if a cutting edge breaks)
- Very strong tangential insert clamping for optimal force absorption



MX monoblock tool with precision coolant **Fig.:** G3011-P

Watch product video:
Scan this QR code or go directly to
http://goo.gl/dRWff7

_WALTER CUT UF8 GEOMETRY – PRECISION-GROUND

All in one: Grooving, parting off and recessing.

NEW

NEW ADDITION TO THE PRODUCT RANGE

- UF8 - the new universal geometry for grooving operations
- Fully ground circumference for maximum precision and indexing accuracy
- For GX16, GX24 and GX30 insert sizes
- Cutting insert widths of 0.063–0.315 inch (1.6–8.0 mm)
- WSM23S Tiger·tec® Silver PVD cutting grade.

THE APPLICATION

- For all grooving, parting off and recessing operations
- For retaining ring grooves
- Ideal for machining ISO M and ISO S materials thanks to sharp, precision-ground cutting edge and excellent chip control

Grade: WSM23S

Fig.: UF8 geometry

BENEFITS FOR YOU

- Optimum chip breaking for all grooving applications
- Short chips when radial and axial machining
- No production downtime caused by long chips
- Maximum tool life due to the newest Tiger·tec® Silver PVD cutting tool material

Ordering information from page 65.

THE GEOMETRIES

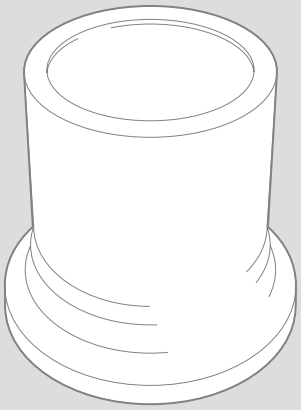
UF8
- Good chip control in all grooving operations
- Low to moderate feed range
- Smooth cutting behavior due to ground cutting edge

UF4
- All grooving operations
- Good chip control
- Average feed range
- Positive cut

UD4
- Large chip breaking range
- Optimum chip breaking when machining forged parts
- Stable cutting edge
- For moderate to high feeds

APPLICATION EXAMPLE

Parting off – bearing bushing

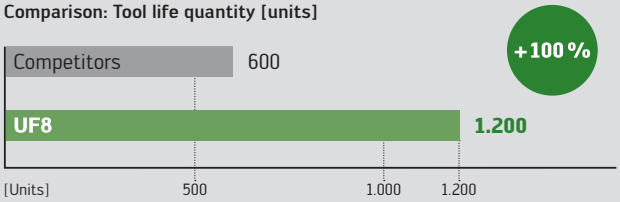


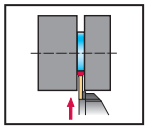
Material: 1144 manganese steel
Tool: G1011.2020R-3T21GX24
Insert: GX24-2E300N02-UF8
Grade: WSM23S

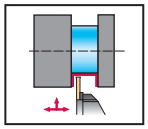
Cutting data:

	Competitors Single-edged grooving insert	**Walter** Double-edged grooving insert
Cutting speed v_c	650 SFM	650 SFM
Feed f	0.010 inch	0.010 inch
Depth of cut a_p	0.690 inch	0.690 inch
Tool life	600 units	1200 units
Comment:	Poor Chip control	Outstanding chip control

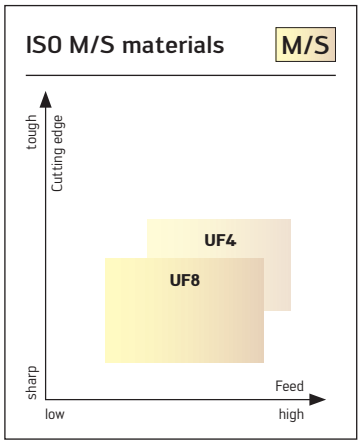
Comparison: Tool life quantity [units]

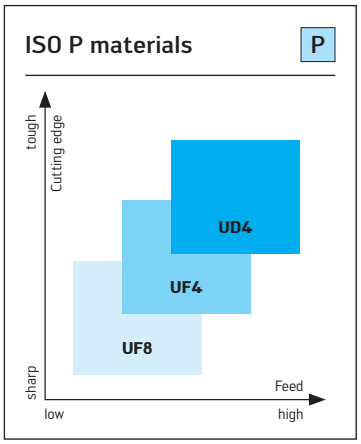






Recessing geometry overview





_G1041-P WALTER CUT REINFORCED PARTING BLADE

Double the cooling in the groove.

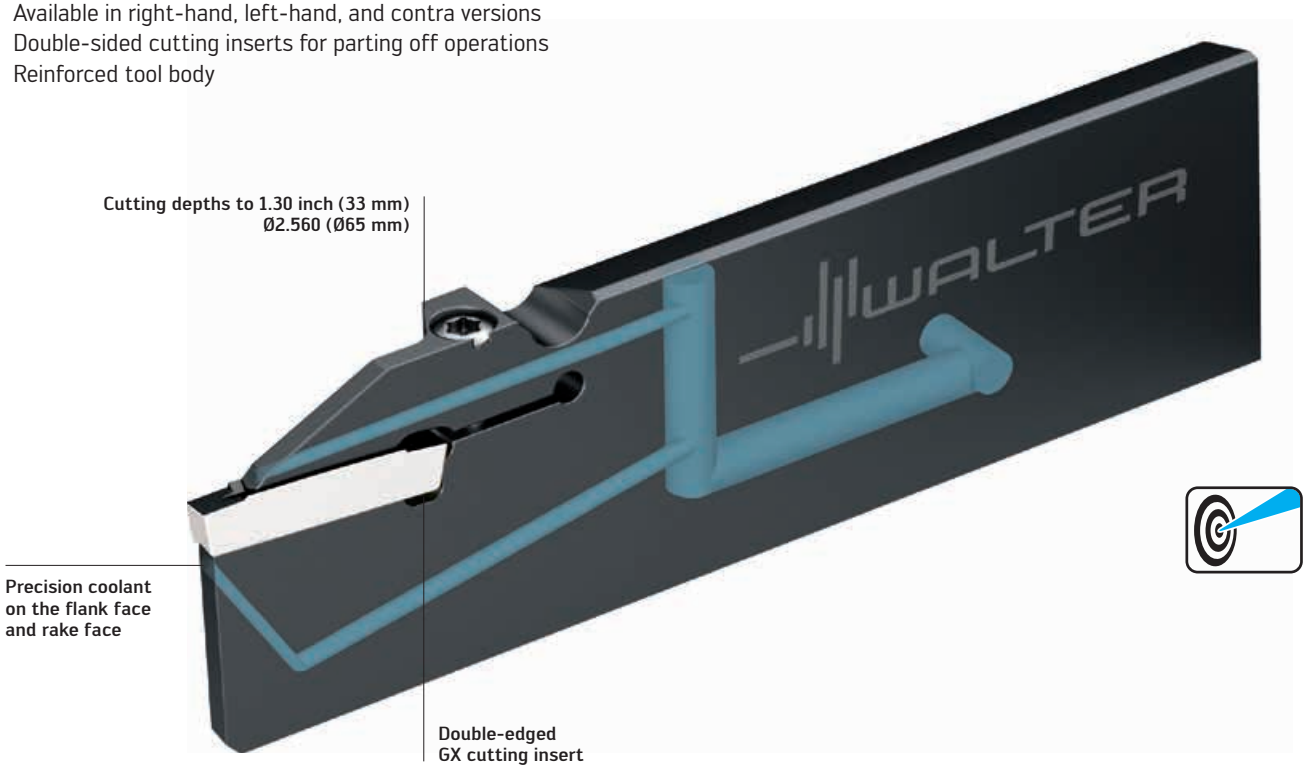
NEW

THE TOOL

- G1041..R/L-P parting blades with reinforced shank and precision coolant on rake face and flank face
- Blade heights 1.024–1.1.260 inch (26–32 mm)
- Insert widths 0.079–0.157 inch (2–4 mm)
- Grooving to a cutting depth of 1.30 inch (33mm) and parting off up to a diameter of 2.560 inch (65mm)
- Available in right-hand, left-hand, and contra versions
- Double-sided cutting inserts for parting off operations
- Reinforced tool body

THE APPLICATION

- Parting off operations where space is limited
- Parting off using long tool projections
- First choice when using parting blades
- Coolant pressure from 150 psi (10 bar) up to a maximum of 1160 psi (80 bar)



Reinforced blade with precision coolant **Fig.:** G1041 . . R/L-P

Right-hand version

Standard
E.g.: G1041 . 32R-3T32GX24-P

Contra
E.g.: G1041 . 32R-3T32GX24C-P

Ordering information from page 73.

BENEFITS FOR YOU

- Long tool life and high productivity
- Optimum cooling directly in the cutting zone starting from a coolant pressure as low as 150 psi
- Perfect chip control through precision coolant
- Reduced vibration tendency due to reinforced shank
- Little deflection due to reinforced tool body
- High cost efficiency thanks to two cutting edges

Short and sweet – extreme stability.

NEW TO THE RANGE

NEW ADDITION TO THE PRODUCT RANGE

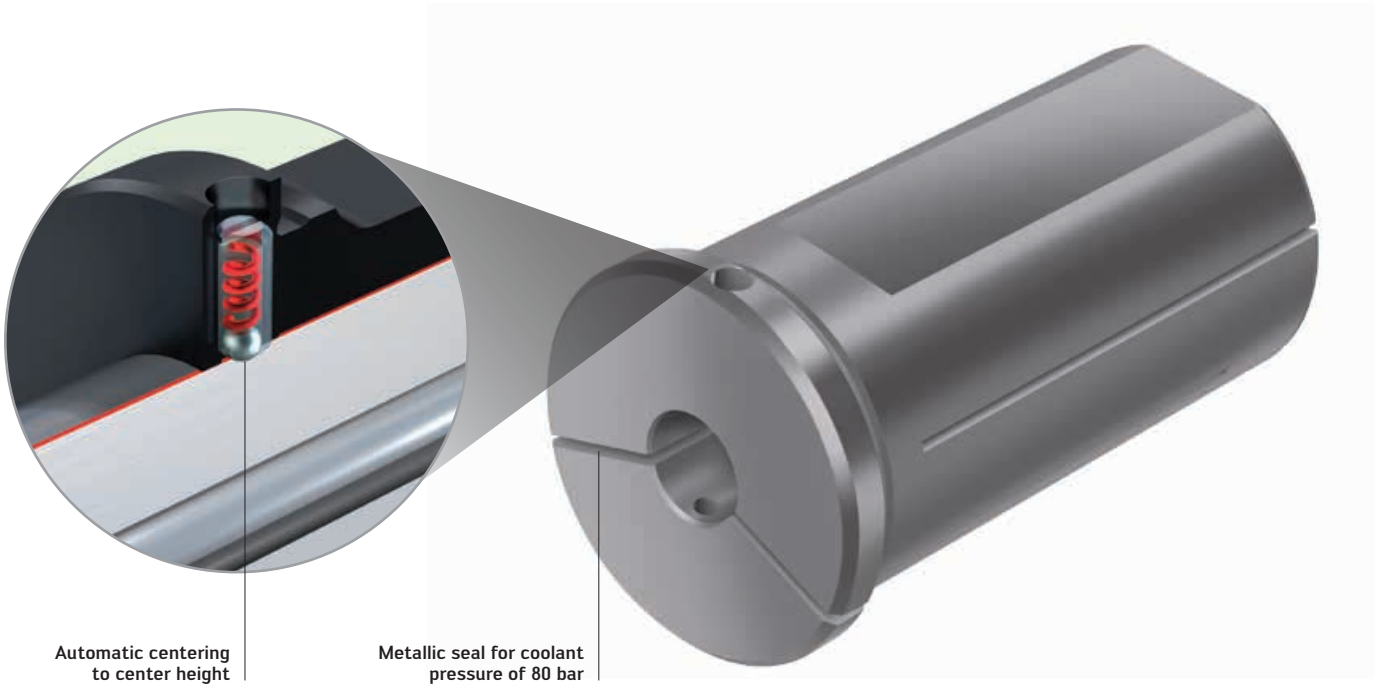
– AK600... is being replaced by A2140-...

THE TOOL

– A2140... adaptor for round shank boring bars using a spring-loaded ball to automatically set the center height
– Completely enclosed cylindrical shank boring bars (-R) for maximum stability
– Lengths adjusted for VDI boring bar adaptors
– External diameter of 25, 32 or 40 mm
– Internal diameter of 6, 8, 10, 12, 16 or 20 mm

THE APPLICATION

– Internal turning
– Simple, stable boring bar clamping for cylindrical shank without flat
– For machining operations with a risk of vibration
– Can be used up to a coolant pressure of 80 bar (1160 psi) thanks to metallic seal



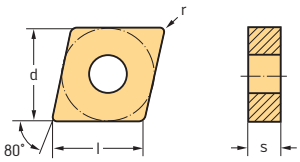
Boring bar adaptor **Fig.:** A2140

BENEFITS FOR YOU

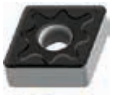
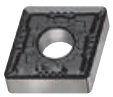
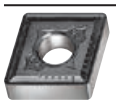
– Outstanding workpiece surfaces are achieved thanks to precise center height adjustment for vibration-free machining
– Automatic alignment of the center height saves time during tool changes
– Solid carbide boring bars and steel boring bars can be clamped in the same adaptor

Ordering information from page 63.

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



Indexable inserts

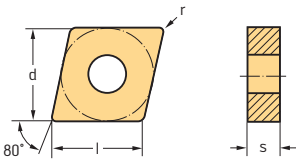
	ANSI Designation	Designation	r inch	f inch	a_p inch	P HC WPP01	P HC WPP05S	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	K HC WKP30S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S	HW WS10
 Wiper	CNMG431-NF	CNMG120404-NF	0.016	0.004–0.016	0.016–0.079	●		●	●						●							●		
	CNMG432-NF	CNMG120408-NF	0.031	0.006–0.022	0.020–0.118	●		●	●						●							●		
	CNMG431-NFT	CNMG120404-NFT	0.016	0.003–0.007	0.016–0.059										●							●		●
	CNMG432-NFT	CNMG120408-NFT	0.031	0.004–0.008	0.020–0.079										●							●		●
	CNMG4(3)0.5-FM5	CNMG120402-FM5	0.008	0.001–0.004	0.004–0.039									●	●						●	●		
	CNMG431-FM5	CNMG120404-FM5	0.016	0.002–0.006	0.008–0.059						●	●		●	●						●	●		
	CNMG432-FM5	CNMG120408-FM5	0.031	0.003–0.008	0.016–0.059						●	●		●	●						●	●		
	CNMG433-FM5	CNMG120412-FM5	0.047	0.004–0.010	0.020–0.079										●							●		
 Wiper	CNMG432-NM	CNMG120408-NM	0.031	0.008–0.022	0.031–0.118			●	●						●		●	●				●		
	CNMG433-NM	CNMG120412-NM	0.047	0.010–0.028	0.059–0.157			●	●						●		●	●				●		
	CNMG431-MS3	CNMG120404-MS3	0.016	0.005–0.010	0.024–0.118								●	●	●					●	●	●		●
	CNMG432-MS3	CNMG120408-MS3	0.031	0.006–0.012	0.031–0.118			●	●				●	●	●					●	●	●		
	CNGG4(3)0.2-MS3	CNGG120401-MS3	0.004	0.001–0.002	0.008–0.098								●							●				
	CNGG4(3)0.5-MS3	CNGG120402-MS3	0.008	0.002–0.005	0.016–0.098								●							●				
	CNGG431-MS3	CNGG120404-MS3	0.016	0.004–0.010	0.024–0.118								●							●				
	CNGG432-MS3	CNGG120408-MS3	0.031	0.005–0.012	0.031–0.118								●							●				
	CNMG432-NMT	CNMG120408-NMT	0.031	0.005–0.012	0.031–0.157										●							●		●
	CNMG433-NMT	CNMG120412-NMT	0.047	0.006–0.013	0.039–0.157										●							●		●
	CNMG431-NMS	CNMG120404-NMS	0.016	0.004–0.009	0.024–0.098								●	●	●	✱				●	●	●	✱	
	CNMG432-NMS	CNMG120408-NMS	0.031	0.005–0.013	0.031–0.138								●	●	●	✱				●	●	●	✱	
	CNMG433-NMS	CNMG120412-NMS	0.047	0.006–0.014	0.039–0.138									●	●						●	●		
	CNMG432-NRT	CNMG120408-NRT	0.031	0.007–0.014	0.039–0.236										●							●		●
	CNMG433-NRT	CNMG120412-NRT	0.047	0.008–0.016	0.047–0.236										●							●		●
	CNMG543-NRT	CNMG160612-NRT	0.047	0.011–0.022	0.059–0.295										●							●		●
	CNMG644-NRT	CNMG190616-NRT	0.063	0.014–0.028	0.079–0.354										●							●		●

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide
HW = Uncoated carbide

● ● ✱ / ★ New addition to the product range

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

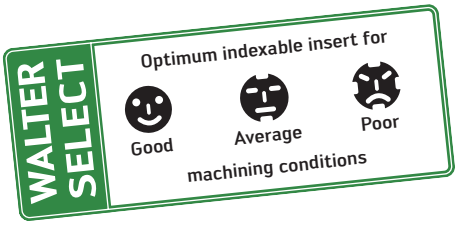


Indexable inserts

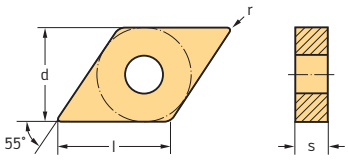
	ANSI Designation	Designation	r inch	f inch	a_p inch	P HC WPP01	P HC WPP05S	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	K HC WKP30S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S	HW WS10
	CNMG432-NRS	CNMG120408-NRS	0.031	0.006–0.014	0.039–0.157								☺	☺	☺	☹				☺	☺	☺	☹	
	CNMG433-NRS	CNMG120412-NRS	0.047	0.007–0.016	0.047–0.157									☺	☺	☹					☺	☺	☹	
	CNMG543-NRS	CNMG160612-NRS	0.047	0.008–0.018	0.047–0.256									☺	☺	☹					☺	☺	☹	
	CNMG544-NRS	CNMG160616-NRS	0.063	0.009–0.020	0.059–0.256									☺	☺						☺	☺		
	CNMG642-NRS	CNMG190608-NRS	0.031	0.008–0.018	0.039–0.315									☺	☺						☺	☺		
	CNMG643-NRS	CNMG190612-NRS	0.047	0.009–0.020	0.047–0.335									☺	☺						☺	☺		
	CNMG432-RM5	CNMG120408-RM5	0.031	0.008–0.016	0.047–0.197			☺	☺		☹	☹		☺	☹	☹					☺	☹	☹	
	CNMG433-RM5	CNMG120412-RM5	0.047	0.010–0.020	0.059–0.197			☺	☺		☹	☹		☺	☹	☹					☺	☹	☹	
	CNMG434-RM5	CNMG120416-RM5	0.063	0.012–0.022	0.079–0.197										☹	☹						☹	☹	
	CNMA431-RK5	CNMA120404-RK5	0.016	0.006–0.010	0.024–0.197												☺	☹						
	CNMA432-RK5	CNMA120408-RK5	0.031	0.010–0.020	0.031–0.197								☺				☺	☹		☺				
	CNMA433-RK5	CNMA120412-RK5	0.047	0.012–0.020	0.047–0.197												☺	☹						
	CNMA434-RK5	CNMA120416-RK5	0.063	0.014–0.028	0.059–0.197												☺	☹						
	CNMA543-RK5	CNMA160612-RK5	0.047	0.014–0.028	0.047–0.276												☺	☹						
	CNMA544-RK5	CNMA160616-RK5	0.063	0.014–0.031	0.059–0.276												☺	☹						
	CNMA643-RK5	CNMA190612-RK5	0.047	0.012–0.026	0.047–0.315												☺	☹						
	CNMA644-RK5	CNMA190616-RK5	0.063	0.014–0.031	0.059–0.315												☺	☹						
	CNMA646-RK5	CNMA190624-RK5	0.094	0.016–0.035	0.098–0.315													☹						

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide
HW = Uncoated carbide



Negative rhombic 55°
DNMG / DNGG
Tiger·tec® Silver



Indexable inserts

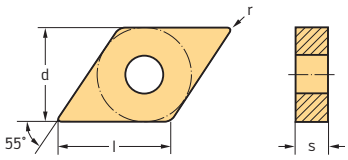
	ANSI Designation	Designation	r inch	f inch	a_p inch	P HC WPP01	P HC WPP05S	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	K HC WKP30S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S	HW WS10
	DNMG332-NF	DNMG110408-NF	0.031	0.006–0.020	0.020–0.079	●		●							●							●		
	DNMG432-NF	DNMG150408-NF	0.031	0.006–0.020	0.020–0.118	●		●																
	DNMG442-NF	DNMG150608-NF	0.031	0.006–0.020	0.020–0.118	●		●							●							●		
	DNMG431-NFT	DNMG150404-NFT	0.016	0.002–0.006	0.016–0.059										●							●		●
	DNMG432-NFT	DNMG150408-NFT	0.031	0.003–0.007	0.020–0.079																			●
	DNMG441-NFT	DNMG150604-NFT	0.016	0.002–0.006	0.016–0.059										●							●		●
	DNMG442-NFT	DNMG150608-NFT	0.031	0.003–0.007	0.020–0.079										●							●		●
	DNMG331-FM5	DNMG110404-FM5	0.016	0.002–0.006	0.008–0.039						●	●		●	●						●	●		
	DNMG332-FM5	DNMG110408-FM5	0.031	0.003–0.008	0.016–0.059						●	●		●	●						●	●		
	DNMG431-FM5	DNMG150404-FM5	0.016	0.002–0.006	0.008–0.059									●	●						●	●		
	DNMG432-FM5	DNMG150408-FM5	0.031	0.003–0.008	0.016–0.059									●	●						●	●		
	DNMG4(4)0.5-FM5	DNMG150602-FM5	0.008	0.001–0.004	0.004–0.039									●	●						●	●		
	DNMG441-FM5	DNMG150604-FM5	0.016	0.002–0.006	0.008–0.059						●	●		●	●						●	●		
	DNMG442-FM5	DNMG150608-FM5	0.031	0.003–0.008	0.016–0.059						●	●		●	●						●	●		
	DNMG431-MS3	DNMG150404-MS3	0.016	0.005–0.010	0.024–0.098								●	●						●	●			
	DNMG432-MS3	DNMG150408-MS3	0.031	0.006–0.012	0.031–0.098								●	●						●	●			
	DNMG441-MS3	DNMG150604-MS3	0.016	0.005–0.010	0.024–0.098								●							●				
	DNMG442-MS3	DNMG150608-MS3	0.031	0.006–0.012	0.031–0.098				●				●							●				
	DNGG4(3)0.5-MS3	DNGG150402-MS3	0.008	0.002–0.005	0.016–0.079								●							●				
	DNGG431-MS3	DNGG150404-MS3	0.016	0.004–0.010	0.024–0.098								●							●				
	DNGG432-MS3	DNGG150408-MS3	0.031	0.005–0.012	0.031–0.098								●							●				
	DNMG331-NMT	DNMG110404-NMT	0.016	0.003–0.009	0.016–0.098										●							●		●
	DNMG332-NMT	DNMG110408-NMT	0.031	0.005–0.011	0.024–0.126										●							●		●
	DNMG432-NMT	DNMG150408-NMT	0.031	0.005–0.011	0.024–0.157										●							●		●
	DNMG442-NMT	DNMG150608-NMT	0.031	0.005–0.011	0.024–0.157									●	●						●	●		●
	DNMG443-NMT	DNMG150612-NMT	0.047	0.006–0.012	0.031–0.157																			●

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide
HW = Uncoated carbide

● / ★ New addition to the product range

Negative rhombic 55°
DNMG / DNGG
Tiger·tec® Silver

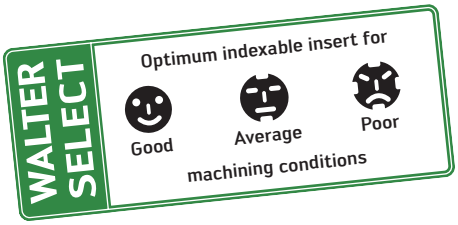


Indexable inserts

	ANSI Designation	Designation	r inch	f inch	a_p inch	P HC WPP01	P HC WPP05S	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	K HC WKP30S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S	HW WS10
	DNMG431-NMS	DNMG150404-NMS	0.016	0.004–0.009	0.024–0.098									☺	😠						☺	😠		
	DNMG432-NMS	DNMG150408-NMS	0.031	0.004–0.012	0.031–0.138								☺	☺	😠					☺	☺	😠		
	DNMG441-NMS	DNMG150604-NMS	0.016	0.004–0.009	0.024–0.098									☺	😠						☺	😠		
	DNMG442-NMS	DNMG150608-NMS	0.031	0.004–0.012	0.031–0.138									☺	😠	😡					☺	😠	😡	
	DNMG432-NRS	DNMG150408-NRS	0.031	0.005–0.013	0.039–0.157									☺	😠						☺	😠		
	DNMG442-NRS	DNMG150608-NRS	0.031	0.005–0.013	0.039–0.157									☺	😠						☺	😠		
	DNMG443-NRS	DNMG150612-NRS	0.047	0.006–0.014	0.047–0.157									☺	😠						☺	😠		
	DNMG332-RM5	DNMG110408-RM5	0.031	0.008–0.016	0.047–0.138						😠	😠			😠	😡						😠	😡	
	DNMG333-RM5	DNMG110412-RM5	0.047	0.010–0.020	0.059–0.138						😠	😠			😠	😡						😠	😡	
	DNMG432-RM5	DNMG150408-RM5	0.031	0.008–0.016	0.047–0.157						😠	😠			😠	😡						😠	😡	
	DNMG442-RM5	DNMG150608-RM5	0.031	0.008–0.016	0.047–0.157						😠	😠		☺	😠	😡					☺	😠	😡	
	DNMG443-RM5	DNMG150612-RM5	0.047	0.010–0.020	0.059–0.157						😠	😠			😠	😡						😠	😡	

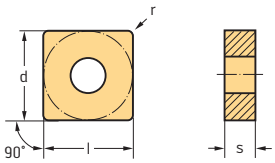
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide
HW = Uncoated carbide



Negative square
SNMG

Tiger·tec® Silver



Indexable inserts

	ANSI Designation	Designation	r inch	f inch	a_p inch	P HC WPP05S	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	K HC WKP30S	S HC WSM10S	S HC WSM20S	S HC WSM30S	HW WS10
	SNMG432-FM5	SNMG120408-FM5	0.031	0.003–0.008	0.016–0.059							☻	☻					☻	☻		
	SNMG433-FM5	SNMG120412-FM5	0.047	0.004–0.010	0.020–0.079							☻	☻					☻	☻		
	SNMG433-NRT	SNMG120412-NRT	0.047	0.010–0.020	0.031–0.236								☻						☻		☻
	SNMG443-NRT	SNMG150612-NRT	0.047	0.012–0.024	0.039–0.295								☻						☻		☻
	SNMG444-NRT	SNMG150616-NRT	0.063	0.014–0.028	0.047–0.295								☻						☻		
	SNMG644-NRT	SNMG190616-NRT	0.063	0.016–0.031	0.059–0.354																☻
	SNMG432-NRS	SNMG120408-NRS	0.031	0.008–0.016	0.031–0.197							☻	☻	☹				☻	☻	☹	
	SNMG433-NRS	SNMG120412-NRS	0.047	0.009–0.018	0.039–0.197							☻	☻	☹				☻	☻	☹	
	SNMG444-NRS	SNMG150616-NRS	0.063	0.009–0.022	0.047–0.276							☻	☻					☻	☻		
	SNMG643-NRS	SNMG190612-NRS	0.047	0.009–0.022	0.039–0.354							☻	☻					☻	☻		
	SNMG644-NRS	SNMG190616-NRS	0.063	0.011–0.024	0.047–0.354							☻	☻					☻	☻		

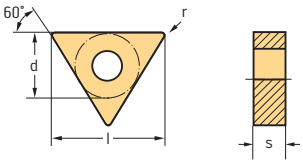
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide
HW = Uncoated carbide

☻☻☹ / ★ New addition to the product range

60° triangular negative
TNMG

Tiger·tec® Silver



Indexable inserts

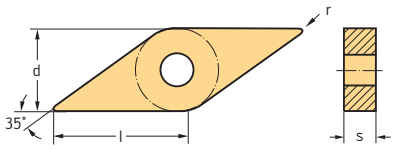
	ANSI Designation	Designation	r inch	f inch	a_p inch	P HC WPP05S	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	K HC WKP30S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S	HW WS10
	TNMG331-FM5	TNMG160404-FM5	0.016	0.002–0.006	0.008–0.039					●	●		●	●						●	●		
	TNMG332-FM5	TNMG160408-FM5	0.031	0.003–0.008	0.016–0.059					●	●		●	●						●	●		
	TNMG331-MS3	TNMG160404-MS3	0.016	0.005–0.010	0.024–0.118			●				●							●				
	TNMG332-MS3	TNMG160408-MS3	0.031	0.006–0.012	0.031–0.118		●	●				●							●				
	TNMG431-MS3	TNMG220404-MS3	0.016	0.005–0.010	0.024–0.118							●							●				
	TNMG432-MS3	TNMG220408-MS3	0.031	0.006–0.012	0.031–0.118			●				●	●						●	●			
	TNMG331-NMT	TNMG160404-NMT	0.016	0.003–0.008	0.024–0.118									●							●		●
	TNMG332-NMT	TNMG160408-NMT	0.031	0.005–0.012	0.039–0.157									●							●		●
	TNMG331-NMS	TNMG160404-NMS	0.016	0.004–0.009	0.024–0.098							●	●	●	✖				●	●	●	✖	
	TNMG332-NMS	TNMG160408-NMS	0.031	0.004–0.012	0.031–0.138								●	●	✖					●	●	✖	
	TNMG333-NRS	TNMG160412-NRS	0.047	0.010–0.020	0.059–0.177								●	●						●	●		
	TNMG332-RM5	TNMG160408-RM5	0.031	0.008–0.016	0.047–0.157					●	●		●	●	✖					●	●	✖	
	TNMG333-RM5	TNMG160412-RM5	0.047	0.010–0.020	0.059–0.157					●	●			●	✖						●	✖	

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide
HW = Uncoated carbide

WALTER SELECT
Optimum indexable insert for
Good
Average
Poor
machining conditions

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



Indexable inserts

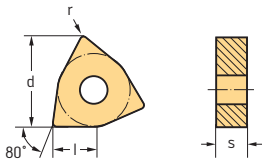
	ANSI Designation	Designation	r inch	f inch	a_p inch	P HC WPP05S	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	K HC WKP30S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S	HW WS10
	VNMG331-NFT	VNMG160404-NFT	0.016	0.002–0.006	0.008–0.059									★									★
	VNMG332-NFT	VNMG160408-NFT	0.031	0.003–0.007	0.012–0.079									★									★
	VNMG3(3)0.5-FM5	VNMG160402-FM5	0.008	0.001–0.004	0.004–0.039								★	★						★	★		
	VNMG331-FM5	VNMG160404-FM5	0.016	0.002–0.006	0.008–0.039								★	★						★	★		
	VNMG332-FM5	VNMG160408-FM5	0.031	0.003–0.008	0.016–0.059								★	★						★	★		
	VNMG331-MS3	VNMG160404-MS3	0.016	0.004–0.008	0.024–0.098							★	★						★	★			
	VNMG332-MS3	VNMG160408-MS3	0.031	0.005–0.010	0.031–0.098							★	★						★	★			
	VNGG3(3)0.2-MS3	VNGG160401-MS3	0.004	0.001–0.002	0.008–0.079							★							★				
	VNGG3(3)0.5-MS3	VNGG160402-MS3	0.008	0.002–0.005	0.016–0.079							★							★				
	VNGG331-MS3	VNGG160404-MS3	0.016	0.004–0.008	0.024–0.079							★							★				
	VNMG331-NMS	VNMG160404-NMS	0.016	0.003–0.006	0.020–0.059								★	★						★	★		
	VNMG332-NMS	VNMG160408-NMS	0.031	0.004–0.009	0.031–0.087								★	★						★	★		

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

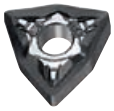
HC = Coated carbide
HW = Uncoated carbide

★ / ★ New addition to the product range

Negative Trigon 80°
WNMG
Tiger·tec® Silver

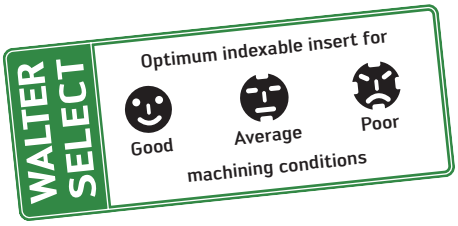


Indexable inserts

	ANSI Designation	Designation	r inch	f inch	a_p inch	P HC WPP01	P HC WPP05S	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	K HC WKP30S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S	HW WS10
	WNMG331-NF	WNMG060404-NF	0.016	0.004–0.016	0.016–0.079	☺		☺							☹							☹		
	WNMG332-NF	WNMG060408-NF	0.031	0.006–0.020	0.020–0.118	☺		☺							☹							☹		
	WNMG431-NF	WNMG080404-NF	0.016	0.008–0.016	0.016–0.079	☺		☺							☹							☹		
	WNMG432-NF	WNMG080408-NF	0.031	0.010–0.022	0.020–0.118	☺		☺							☹							☹		
	WNMG433-NF	WNMG080412-NF	0.047	0.010–0.028	0.031–0.118			☺																
	WNMG331-FM5	WNMG060404-FM5	0.016	0.002–0.006	0.008–0.039									☺	☹						☺	☹		
	WNMG332-FM5	WNMG060408-FM5	0.031	0.003–0.008	0.016–0.059									☺	☹						☺	☹		
	WNMG431-FM5	WNMG080404-FM5	0.016	0.002–0.006	0.008–0.059						☹	☹		☺	☹						☺	☹		
	WNMG432-FM5	WNMG080408-FM5	0.031	0.003–0.008	0.016–0.059						☹	☹		☺	☹						☺	☹		
	WNMG433-FM5	WNMG080412-FM5	0.047	0.004–0.010	0.020–0.079									☺	☹						☺	☹		
	WNMG332-NM	WNMG060408-NM	0.031	0.008–0.022	0.031–0.118			☺									☺							
	WNMG333-NM	WNMG060412-NM	0.047	0.010–0.022	0.059–0.157			☺									☺							
	WNMG432-NM	WNMG080408-NM	0.031	0.008–0.022	0.031–0.118			☺	☹						☹		☺	☹				☹		
	WNMG433-NM	WNMG080412-NM	0.047	0.010–0.028	0.059–0.157			☺	☹						☹		☺	☹				☹		
	WNMG431-MS3	WNMG080404-MS3	0.016	0.005–0.010	0.024–0.118								☺							☺				
	WNMG432-MS3	WNMG080408-MS3	0.031	0.006–0.012	0.031–0.118								☺	☺						☺	☺			
	WNMG432-NMT	WNMG080408-NMT	0.031	0.005–0.012	0.031–0.157										☹							☹		☹
	WNMG433-NMT	WNMG080412-NMT	0.047	0.006–0.013	0.039–0.157																			☹
	WNMG332-NMS	WNMG060408-NMS	0.031	0.004–0.012	0.031–0.118									☺	☹						☺	☹		
	WNMG431-NMS	WNMG080404-NMS	0.016	0.004–0.009	0.024–0.098								☺	☺	☹	☠				☺	☺	☹	☠	
	WNMG432-NMS	WNMG080408-NMS	0.031	0.005–0.013	0.031–0.138								☺	☺	☹	☠				☺	☺	☹	☠	
	WNMG432-NRS	WNMG080408-NRS	0.031	0.006–0.014	0.039–0.157									☺	☹						☺	☹		
	WNMG433-NRS	WNMG080412-NRS	0.047	0.007–0.016	0.047–0.157									☺	☹						☺	☹		

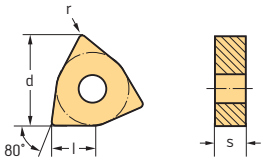
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide
HW = Uncoated carbide



Negative Trigon 80°
WNMG

Tiger·tec® Silver



Indexable inserts

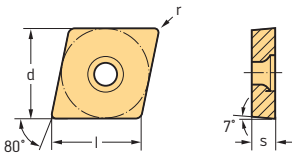
	ANSI Designation	Designation	r inch	f inch	a_p inch	P HC WPP01	P HC WPP05S	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	K HC WKP30S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S	HW WS10
	WNMG332-RM5	WNMG060408-RM5	0.031	0.008–0.016	0.047–0.138						●	●			●	●						●	●	
	WNMG432-RM5	WNMG080408-RM5	0.031	0.008–0.016	0.047–0.177			●	●		●	●		●	●	●					●	●	●	
	WNMG433-RM5	WNMG080412-RM5	0.047	0.010–0.020	0.059–0.177			●	●		●	●		●	●	●					●	●	●	
	WNMG432-RP7	WNMG080408-RP7	0.031	0.006–0.018	0.039–0.197			●	●	●														
	WNMG433-RP7	WNMG080412-RP7	0.047	0.008–0.018	0.059–0.197			●	●	●														
	WNMG542-RP7	WNMG100608-RP7	0.031	0.012–0.020	0.031–0.236				●	●														
	WNMG543-RP7	WNMG100612-RP7	0.047	0.014–0.024	0.047–0.236			●	●	●														
	WNMG544-RP7	WNMG100616-RP7	0.063	0.016–0.024	0.059–0.236				●	●														

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

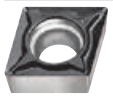
HC = Coated carbide
HW = Uncoated carbide

● / ★ New addition to the product range

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

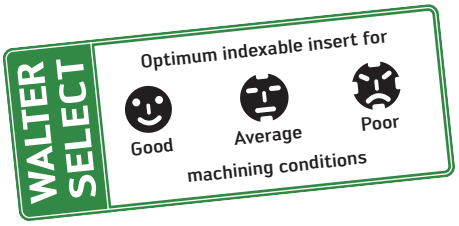


Indexable inserts

	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP01	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	N HC WNN10	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	CCMT2(1.5)1-PF	CCMT060204-PF	0.254	0.016	0.002–0.012	0.012–0.079	☺	☺	😐						😐	☹						😐	☹
	CCMT2(1.5)2-PF	CCMT060208-PF	0.254	0.031	0.004–0.014	0.012–0.079		☺	😐						😐							😐	
	CCMT3(2.5)1-PF	CCMT09T304-PF	0.381	0.016	0.003–0.012	0.012–0.118	☺	☺	😐						😐	☹						😐	☹
	CCMT3(2.5)2-PF	CCMT09T308-PF	0.381	0.031	0.005–0.018	0.012–0.118	☺	☺	😐						😐	☹						😐	☹
	CCGT2(1.5)0.5-FN2	CCGT060202-FN2	0.254	0.008	0.002–0.005	0.008–0.079													☺				
	CCGT2(1.5)1-FN2	CCGT060204-FN2	0.254	0.016	0.003–0.010	0.008–0.098													☺				
	CCGT3(2.5)0.5-FN2	CCGT09T302-FN2	0.381	0.008	0.002–0.005	0.008–0.079													☺				
	CCGT3(2.5)1-FN2	CCGT09T304-FN2	0.381	0.016	0.003–0.010	0.008–0.098													☺				
	CCGT3(2.5)2-FN2	CCGT09T308-FN2	0.381	0.031	0.004–0.012	0.012–0.118													☺				
	CCGT2(1.5)0.2-FM2	CCGT060201-FM2	0.254	0.004	0.001–0.002	0.004–0.059									😐							😐	
	CCGT2(1.5)0.5-FM2	CCGT060202-FM2	0.254	0.008	0.002–0.005	0.008–0.079									😐							😐	
	CCGT2(1.5)1-FM2	CCGT060204-FM2	0.254	0.016	0.003–0.010	0.008–0.098									😐							😐	
	CCGT3(2.5)0.2-FM2	CCGT09T301-FM2	0.381	0.004	0.001–0.002	0.004–0.059									😐							😐	
	CCGT3(2.5)0.5-FM2	CCGT09T302-FM2	0.381	0.008	0.002–0.005	0.008–0.079									😐							😐	
	CCGT3(2.5)1-FM2	CCGT09T304-FM2	0.381	0.016	0.003–0.010	0.008–0.098								☺	😐						☺	😐	
	CCGT3(2.5)2-FM2	CCGT09T308-FM2	0.381	0.031	0.004–0.012	0.012–0.118								☺	😐						☺	😐	
	CCGT431-FM2	CCGT120404-FM2	0.508	0.016	0.003–0.010	0.008–0.118									😐							😐	
	CCGT432-FM2	CCGT120408-FM2	0.508	0.031	0.004–0.012	0.012–0.138									😐							😐	
	CCMT2(1.5)1-FM6	CCMT060204-FM6	0.254	0.016	0.003–0.010	0.012–0.063									😐	☹						😐	☹
	CCMT2(1.5)2-FM6	CCMT060208-FM6	0.254	0.031	0.005–0.012	0.020–0.063									😐							😐	
	CCMT3(2.5)1-FM6	CCMT09T304-FM6	0.381	0.016	0.003–0.010	0.012–0.079									😐	☹						😐	☹
	CCMT3(2.5)2-FM6	CCMT09T308-FM6	0.381	0.031	0.005–0.013	0.020–0.079									😐	☹						😐	☹
	CCMT432-FM6	CCMT120408-FM6	0.508	0.031	0.005–0.013	0.020–0.098									😐	☹						😐	☹

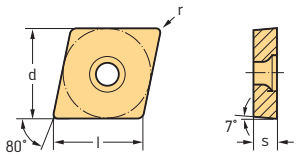
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide



102

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



Indexable inserts

	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP01	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	N HC WNN10	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	CCGT2(1.5).5-MN2	CCGT060202-MN2	0.254	0.008	0.002–0.005	0.020–0.079							☺						☺	☺			
	CCGT2(1.5)1-MN2	CCGT060204-MN2	0.254	0.016	0.003–0.010	0.024–0.118							☺						☺	☺			
	CCGT3(2.5)0.5-MN2	CCGT09T302-MN2	0.381	0.008	0.002–0.005	0.020–0.079							☺						☺	☺			
	CCGT3(2.5)1-MN2	CCGT09T304-MN2	0.381	0.016	0.003–0.010	0.024–0.157							☺						☺	☺			
	CCGT3(2.5)2-MN2	CCGT09T308-MN2	0.381	0.031	0.004–0.014	0.031–0.157							☺						☺	☺			
	CCGT431-MN2	CCGT120404-MN2	0.508	0.016	0.003–0.010	0.024–0.197													☺				
	CCGT432-MN2	CCGT120408-MN2	0.508	0.031	0.004–0.014	0.031–0.197													☺				
	CCMT2(1.5)1-MM4	CCMT060204-MM4	0.254	0.016	0.003–0.008	0.016–0.079					😐	😐		☺	😐	★					☺	😐	★
	CCMT2(1.5)2-MM4	CCMT060208-MM4	0.254	0.031	0.005–0.010	0.020–0.079					😐	😐			😐							😐	
	CCMT3(2.5)1-MM4	CCMT09T304-MM4	0.381	0.016	0.003–0.010	0.016–0.118					😐	😐		☺	😐	★					☺	😐	★
	CCMT3(2.5)2-MM4	CCMT09T308-MM4	0.381	0.031	0.005–0.013	0.020–0.118					😐	😐		☺	😐	★					☺	😐	★
	CCMT431-MM4	CCMT120404-MM4	0.508	0.016	0.005–0.010	0.016–0.138					😐	😐			😐							😐	
	CCMT432-MM4	CCMT120408-MM4	0.508	0.031	0.005–0.013	0.020–0.138					😐	😐		☺	😐						☺	😐	
	CCGT2(1.5)1-MM4	CCGT060204-MM4	0.254	0.016	0.003–0.008	0.016–0.079							☺		😐					☺		😐	
	CCGT2(1.5)2-MM4	CCGT060208-MM4	0.254	0.031	0.005–0.010	0.020–0.079							☺		😐					☺		😐	
	CCGT3(2.5)1-MM4	CCGT09T304-MM4	0.381	0.016	0.003–0.010	0.016–0.118							☺		😐					☺		😐	
	CCGT3(2.5)2-MM4	CCGT09T308-MM4	0.381	0.031	0.005–0.013	0.020–0.118							☺		😐					☺		😐	
	CCGT432-MM4	CCGT120408-MM4	0.508	0.031	0.005–0.013	0.020–0.138									😐							😐	

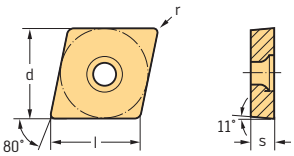
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide

☺ 😐 ★ / ★ New addition to the product range

Vc 102

Positive rhombic 80°
CPMT / CPGT / CPMW
Tiger·tec® Silver

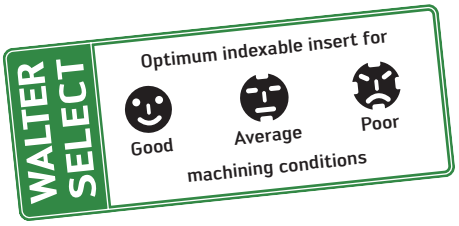


Indexable inserts

	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	CPMT1.8(1.5)1-FM4	CPMT050204-FM4	0.219	0.016	0.002–0.006	0.004–0.059				☹	☹			☹						☹	
	CPMT2(1.5)1-FM4	CPMT060204-FM4	0.254	0.016	0.002–0.006	0.004–0.059				☹	☹			☹						☹	
	CPMT3(2.5)1-FM4	CPMT09T304-FM4	0.381	0.016	0.002–0.006	0.004–0.059				☹	☹			☹						☹	
	CPMT3(2.5)2-FM4	CPMT09T308-FM4	0.381	0.031	0.003–0.008	0.004–0.059				☹	☹			☹						☹	
	CPMT1.8(1.5)1-FP4	CPMT050204-FP4	0.219	0.016	0.002–0.006	0.004–0.059	☺														
	CPMT2(1.5)1-FP4	CPMT060204-FP4	0.254	0.016	0.002–0.006	0.004–0.059	☺														
	CPMT3(2.5)1-FP4	CPMT09T304-FP4	0.381	0.016	0.002–0.006	0.004–0.059	☺														
	CPMT3(2.5)2-FP4	CPMT09T308-FP4	0.381	0.031	0.003–0.008	0.004–0.059	☺														
	CPGT1.8(1.5)1-MM4	CPGT050204-MM4	0.219	0.016	0.003–0.008	0.016–0.059								☹						☹	
	CPGT2(1.5)0.2-MM4	CPGT060201-MM4	0.254	0.004	0.002–0.005	0.004–0.079						☺						☺			
	CPGT2(1.5)0.5-MM4	CPGT060202-MM4	0.254	0.008	0.002–0.006	0.008–0.079						☺						☺			
	CPGT2(1.5)1-MM4	CPGT060204-MM4	0.254	0.016	0.003–0.008	0.016–0.079						☺		☹				☺		☹	
	CPGT2(1.5)2-MM4	CPGT060208-MM4	0.254	0.031	0.005–0.010	0.020–0.079						☺		☹				☺		☹	
	CPGT3(2.5)0.2-MM4	CPGT09T301-MM4	0.381	0.004	0.002–0.008	0.004–0.118						☺						☺			
	CPGT3(2.5)1-MM4	CPGT09T304-MM4	0.381	0.016	0.003–0.010	0.016–0.118						☺		☹				☺		☹	
	CPGT3(2.5)2-MM4	CPGT09T308-MM4	0.381	0.031	0.005–0.013	0.020–0.118						☺		☹				☺		☹	
	CPMW1.8(1.5)1-RK6	CPMW050204-RK6	0.219	0.016	0.005–0.010	0.016–0.098											☹				
	CPMW2(1.5)1-RK6	CPMW060204-RK6	0.254	0.016	0.005–0.010	0.016–0.098											☹				
	CPMW3(2.5)1-RK6	CPMW09T304-RK6	0.381	0.016	0.005–0.010	0.016–0.118											☹				
	CPMW3(2.5)2-RK6	CPMW09T308-RK6	0.381	0.031	0.006–0.014	0.020–0.157											☹				

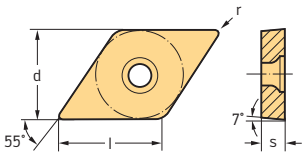
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide

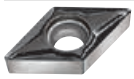


Vc 102

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



Indexable inserts

	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP01	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	N HC WNN10	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	DCMT2(1.5)1-PF	DCMT070204-PF	0.305	0.016	0.002–0.010	0.012–0.079	☻	☻	☻						☻	☻						☻	☻
	DCMT2(1.5)2-PF	DCMT070208-PF	0.305	0.031	0.002–0.010	0.012–0.079									☻	☻						☻	☻
	DCMT3(2.5)1-PF	DCMT11T304-PF	0.458	0.016	0.003–0.012	0.012–0.118	☻	☻	☻						☻	☻						☻	☻
	DCMT3(2.5)2-PF	DCMT11T308-PF	0.458	0.031	0.005–0.016	0.012–0.118	☻	☻	☻						☻	☻						☻	☻
	DCGT2(1.5)0.5-FN2	DCGT070202-FN2	0.305	0.008	0.002–0.005	0.008–0.079													☻				
	DCGT2(1.5)1-FN2	DCGT070204-FN2	0.305	0.016	0.003–0.010	0.008–0.098													☻				
	DCGT3(2.5)0.5-FN2	DCGT11T302-FN2	0.458	0.008	0.002–0.005	0.008–0.079													☻				
	DCGT3(2.5)1-FN2	DCGT11T304-FN2	0.458	0.016	0.003–0.010	0.008–0.098													☻				
	DCGT3(2.5)2-FN2	DCGT11T308-FN2	0.458	0.031	0.004–0.012	0.012–0.118													☻				
	DCGT2(1.5)0.2-FM2	DCGT070201-FM2	0.305	0.004	0.001–0.002	0.004–0.059									☻							☻	
	DCGT2(1.5)0.5-FM2	DCGT070202-FM2	0.305	0.008	0.002–0.005	0.008–0.079									☻							☻	
	DCGT2(1.5)1-FM2	DCGT070204-FM2	0.305	0.016	0.003–0.010	0.008–0.098									☻							☻	
	DCGT3(2.5)0.2-FM2	DCGT11T301-FM2	0.458	0.004	0.001–0.002	0.004–0.059									☻							☻	
	DCGT3(2.5)0.5-FM2	DCGT11T302-FM2	0.458	0.008	0.002–0.005	0.008–0.079									☻							☻	
	DCGT3(2.5)1-FM2	DCGT11T304-FM2	0.458	0.016	0.003–0.010	0.008–0.098								☻	☻						☻	☻	
	DCGT3(2.5)2-FM2	DCGT11T308-FM2	0.458	0.031	0.004–0.012	0.012–0.118								☻	☻						☻	☻	
	DCMT2(1.5)1-FM6	DCMT070204-FM6	0.305	0.016	0.003–0.010	0.012–0.063									☻	☻						☻	☻
	DCMT3(2.5)1-FM6	DCMT11T304-FM6	0.458	0.016	0.003–0.010	0.012–0.079									☻	☻						☻	☻
	DCMT3(2.5)2-FM6	DCMT11T308-FM6	0.458	0.031	0.005–0.013	0.024–0.079									☻	☻						☻	☻
	DCMT3(2.5)1-PM	DCMT11T304-PM	0.458	0.016	0.005–0.016	0.020–0.157		☻	☻						☻		☻	☻				☻	
	DCMT3(2.5)2-PM	DCMT11T308-PM	0.458	0.031	0.006–0.020	0.020–0.157		☻	☻						☻		☻	☻				☻	
	DCGT2(1.5)0.2-MN2	DCGT070201-MN2	0.305	0.004	0.001–0.002	0.020–0.059													☻				
	DCGT2(1.5).5-MN2	DCGT070202-MN2	0.305	0.008	0.002–0.005	0.020–0.079							☻						☻	☻			
	DCGT2(1.5)1-MN2	DCGT070204-MN2	0.305	0.016	0.003–0.010	0.024–0.098							☻						☻	☻			
	DCGT3(2.5)0.5-MN2	DCGT11T302-MN2	0.458	0.008	0.002–0.005	0.020–0.079							☻						☻	☻			
	DCGT3(2.5)1-MN2	DCGT11T304-MN2	0.458	0.016	0.003–0.010	0.024–0.118							☻						☻	☻			
	DCGT3(2.5)2-MN2	DCGT11T308-MN2	0.458	0.031	0.004–0.012	0.031–0.138							☻						☻	☻			

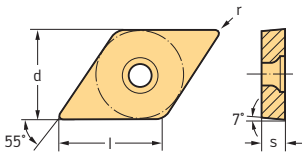
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide

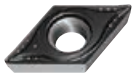
☻☻☻ / ★ New addition to the product range

Vc 102

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

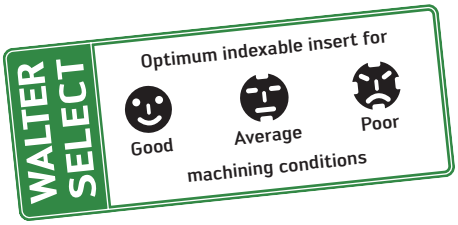


Indexable inserts

	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP01	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	N HC WNN10	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	DCMT2(1.5)1-MM4	DCMT070204-MM4	0.305	0.016	0.003–0.008	0.016–0.079					😐	😐		🙂	😐	☹					🙂	😐	☹
	DCMT2(1.5)2-MM4	DCMT070208-MM4	0.305	0.031	0.005–0.010	0.020–0.079					😐	😐		🙂	😐						🙂	😐	
	DCMT3(2.5)1-MM4	DCMT11T304-MM4	0.458	0.016	0.003–0.010	0.016–0.118					😐	😐		🙂	😐	☹					🙂	😐	☹
	DCMT3(2.5)2-MM4	DCMT11T308-MM4	0.458	0.031	0.005–0.013	0.020–0.118					😐	😐		🙂	😐	☹					🙂	😐	☹
	DCMT3(2.5)3-MM4	DCMT11T312-MM4	0.458	0.047	0.006–0.014	0.020–0.118									😐							😐	
	DCGT2(1.5)1-MM4	DCGT070204-MM4	0.305	0.016	0.003–0.008	0.016–0.079							🙂		😐					🙂		😐	
	DCGT3(2.5)1-MM4	DCGT11T304-MM4	0.458	0.016	0.003–0.010	0.016–0.118							🙂		😐					🙂		😐	
	DCGT3(2.5)2-MM4	DCGT11T308-MM4	0.458	0.031	0.005–0.013	0.020–0.118							🙂		😐					🙂		😐	

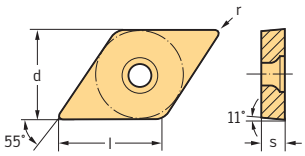
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide

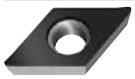


Vc 102

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

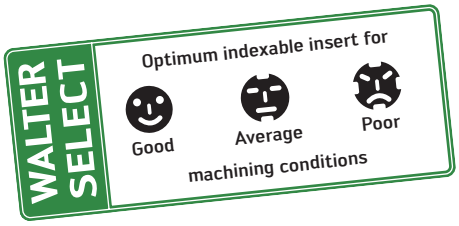


Indexable inserts

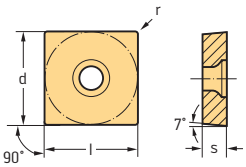
	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	DPMT2(1.5)1-FM4	DPMT070204-FM4	0.305	0.016	0.002–0.006	0.004–0.059				☹	☹			☹						☹	
	DPMT3(2.5)1-FM4	DPMT11T304-FM4	0.458	0.016	0.002–0.006	0.004–0.059				☹	☹			☹						☹	
	DPMT3(2.5)2-FM4	DPMT11T308-FM4	0.458	0.031	0.003–0.008	0.004–0.059				☹	☹			☹						☹	
	DPMT2(1.5)1-FP4	DPMT070204-FP4	0.305	0.016	0.002–0.006	0.004–0.059	☺														
	DPMT3(2.5)1-FP4	DPMT11T304-FP4	0.458	0.016	0.002–0.006	0.004–0.059	☺														
	DPMT3(2.5)2-FP4	DPMT11T308-FP4	0.458	0.031	0.003–0.008	0.004–0.059	☺														
	DPGT2(1.5)1-MM4	DPGT070204-MM4	0.305	0.016	0.003–0.008	0.016–0.079						☺		☹				☺		☹	
	DPGT3(2.5)1-MM4	DPGT11T304-MM4	0.458	0.016	0.003–0.010	0.016–0.118						☺		☹				☺		☹	
	DPGT3(2.5)2-MM4	DPGT11T308-MM4	0.458	0.031	0.005–0.013	0.020–0.118						☺		☹				☺		☹	
	DPMW3(2.5)2-RK6	DPMW11T308-RK6	0.458	0.031	0.006–0.014	0.020–0.157											☹				

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide



Positive square
SCGT / SCMT
Tiger·tec® Silver



Indexable inserts

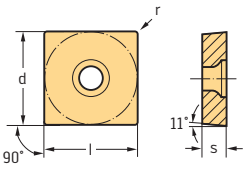
	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	N HC WNN10	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	SCGT3(2,5)1-FM2	SCGT09T304-FM2	0.375	0.016	0.003–0.010	0.008–0.098								●							●	
	SCGT3(2.5)2-FM2	SCGT09T308-FM2	0.375	0.031	0.004–0.012	0.012–0.118								●							●	
	SCGT432-FM2	SCGT120408-FM2	0.500	0.031	0.004–0.012	0.012–0.118								●							●	
	SCMT2(1.5)1-FM4	SCMT060204-FM4	0.250	0.016	0.002–0.006	0.004–0.059				●	●			●							●	
	SCMT3(2.5)1-FM4	SCMT09T304-FM4	0.375	0.016	0.002–0.006	0.004–0.059				●	●			●	●						●	●
	SCMT3(2.5)2-FM4	SCMT09T308-FM4	0.375	0.031	0.002–0.007	0.004–0.071				●	●			●	●						●	●
	SCMT432-FM4	SCMT120408-FM4	0.500	0.031	0.002–0.007	0.004–0.071								●	●						●	●
	SCMT2(1.5)1-FP4	SCMT060204-FP4	0.250	0.016	0.002–0.006	0.004–0.059	●															
	SCMT3(2.5)1-FP4	SCMT09T304-FP4	0.375	0.016	0.002–0.006	0.004–0.059	●	●														
	SCMT3(2.5)2-FP4	SCMT09T308-FP4	0.375	0.031	0.002–0.007	0.004–0.071	●	●														
	SCMT431-FP4	SCMT120404-FP4	0.500	0.016	0.002–0.006	0.004–0.059	●	●														
	SCMT432-FP4	SCMT120408-FP4	0.500	0.031	0.002–0.007	0.004–0.071	●	●														
	SCMT433-FP4	SCMT120412-FP4	0.500	0.047	0.005–0.013	0.012–0.071	●	●														
	SCMT3(2.5)1-FM6	SCMT09T304-FM6	0.375	0.016	0.003–0.010	0.012–0.079									●							●
	SCMT3(2.5)2-FM6	SCMT09T308-FM6	0.375	0.031	0.005–0.012	0.020–0.079								●	●						●	●
	SCMT432-FM6	SCMT120408-FM6	0.500	0.031	0.005–0.013	0.020–0.098								●	●						●	●
	SCGT3(2,5)1-MN2	SCGT09T304-MN2	0.375	0.016	0.003–0.010	0.024–0.157						●						●	●			
	SCGT3(2.5)2-MN2	SCGT09T308-MN2	0.375	0.031	0.004–0.014	0.028–0.157						●						●	●			
	SCGT432-MN2	SCGT120408-MN2	0.500	0.031	0.004–0.016	0.031–0.236												●				
	SCMT3(2.5)1-MM4	SCMT09T304-MM4	0.375	0.016	0.003–0.010	0.016–0.118				●	●		●	●	●					●	●	●
	SCMT3(2.5)2-MM4	SCMT09T308-MM4	0.375	0.031	0.005–0.013	0.020–0.118				●	●		●	●	●					●	●	●
	SCMT432-MM4	SCMT120408-MM4	0.500	0.031	0.005–0.013	0.002–0.138				●	●			●							●	
	SCGT3(2,5)1-MM4	SCGT09T304-MM4	0.375	0.016	0.003–0.010	0.016–0.118						●		●					●		●	
	SCGT3(2.5)2-MM4	SCGT09T308-MM4	0.375	0.031	0.005–0.013	0.020–0.118						●		●					●		●	
	SCGT432-MM4	SCGT120408-MM4	0.500	0.031	0.005–0.013	0.020–0.138						●		●					●		●	

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide

Vc 102

Positive square
SPMW
Tiger·tec® Silver

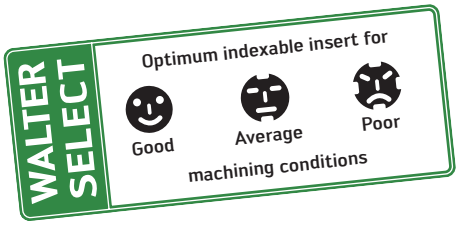


Indexable inserts

	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	S HC WSM10S	S HC WSM20S	S HC WSM30S
	SPMW3(2.5)1-RK6	SPMW09T304-RK6	0.375	0.016	0.005–0.010	0.016–0.118										☹			
	SPMW3(2.5)2-RK6	SPMW09T308-RK6	0.375	0.031	0.006–0.014	0.024–0.157										☹			
	SPMW432-RK6	SPMW120408-RK6	0.500	0.031	0.006–0.016	0.024–0.197										☹			

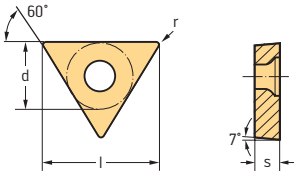
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide



102

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



Indexable inserts

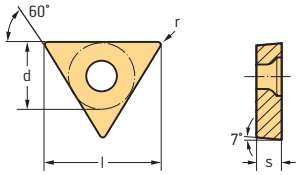
	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC				M HC						K HC		N HC	S HC			
							WPP10S	WPP20S	WPP30S	WMP20S	WMP20S	WSM01	WSM10S	WSM20S	WSM21	WSM30S	WKK10S	WKK20S	WNN10	WSM01	WSM10S	WSM20S	WSM30S
	TCGT2(1.5)0.5-FN2	TCGT110202-FN2	0.423	0.008	0.002–0.005	0.008–0.079													☺				
	TCGT2(1.5)1-FN2	TCGT110204-FN2	0.423	0.016	0.003–0.010	0.008–0.098													☺				
	TCGT3(2.5)1-FN2	TCGT16T304-FN2	0.650	0.016	0.003–0.010	0.008–0.098													☺				
	TCGT3(2.5)2-FN2	TCGT16T308-FN2	0.650	0.031	0.004–0.012	0.012–0.118													☺				
	TCGT1.2(1.2)0.2-FM2	TCGT06T101-FM2	0.261	0.004	0.001–0.002	0.004–0.059									😠								
	TCGT1.2(1.2)0.5-FM2	TCGT06T102-FM2	0.261	0.008	0.002–0.005	0.008–0.079									😠								
	TCGT1.2(1.2)1-FM2	TCGT06T104-FM2	0.261	0.016	0.003–0.010	0.008–0.098									😠								
	TCGT1.8(1.5)0.5-FM2	TCGT090202-FM2	0.369	0.008	0.002–0.005	0.008–0.079								😐								😐	
	TCGT1.8(1.5)1-FM2	TCGT090204-FM2	0.369	0.016	0.003–0.010	0.008–0.098								😐								😐	
	TCGT2(1.5)0.2-FM2	TCGT110201-FM2	0.423	0.004	0.001–0.002	0.004–0.059								😐								😐	
	TCGT2(1.5)0.5-FM2	TCGT110202-FM2	0.423	0.008	0.002–0.005	0.008–0.079								😐								😐	
	TCGT2(1.5)1-FM2	TCGT110204-FM2	0.423	0.016	0.003–0.010	0.008–0.098								😐								😐	
	TCGT3(2.5)0.5-FM2	TCGT16T302-FM2	0.650	0.008	0.002–0.005	0.008–0.079								😐								😐	
	TCGT3(2.5)1-FM2	TCGT16T304-FM2	0.650	0.016	0.003–0.010	0.008–0.098								😐								😐	
	TCGT3(2.5)2-FM2	TCGT16T308-FM2	0.650	0.031	0.004–0.012	0.012–0.118								😐								😐	
	TCMT2(1.5)1-FM6	TCMT110204-FM6	0.423	0.016	0.003–0.010	0.012–0.063								😐		😠						😐	😠
	TCMT2(1.5)2-FM6	TCMT110208-FM6	0.423	0.031	0.005–0.012	0.020–0.063								😐		😠						😐	😠
	TCMT3(2.5)1-FM6	TCMT16T304-FM6	0.650	0.016	0.003–0.010	0.012–0.079								😐		😠						😐	😠
	TCMT3(2.5)2-FM6	TCMT16T308-FM6	0.650	0.031	0.005–0.013	0.020–0.098								😐								😐	
	TCGT2(1.5)0.5-MN2	TCGT110202-MN2	0.423	0.008	0.002–0.005	0.024–0.079													☺				
	TCGT2(1.5)1-MN2	TCGT110204-MN2	0.423	0.016	0.003–0.010	0.024–0.118						☺							☺	☺			
	TCGT3(2.5)0.5-MN2	TCGT16T302-MN2	0.650	0.008	0.002–0.005	0.020–0.079													☺				
	TCGT3(2.5)1-MN2	TCGT16T304-MN2	0.650	0.016	0.003–0.010	0.024–0.157						☺							☺	☺			
	TCGT3(2.5)2-MN2	TCGT16T308-MN2	0.650	0.031	0.004–0.014	0.031–0.157						☺							☺	☺			

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide

☺ 😐 😠 / ★ New addition to the product range

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



Indexable inserts

	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM21	M HC WSM30S	K HC WKK10S	K HC WKK20S	N HC WNN10	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	TCGT1.8(1.5)1-MM4	TCGT090204-MM4	0.369	0.016	0.003–0.008	0.016–0.079								●								●	
	TCGT2(1.5)1-MM4	TCGT110204-MM4	0.423	0.016	0.003–0.008	0.016–0.079						★		●						★		●	
	TCGT2(1.5)2-MM4	TCGT110208-MM4	0.423	0.031	0.005–0.012	0.020–0.079						★		●						★		●	
	TCGT3(2.5)1-MM4	TCGT16T304-MM4	0.650	0.016	0.003–0.010	0.016–0.118								●								●	
	TCGT3(2.5)2-MM4	TCGT16T308-MM4	0.650	0.031	0.005–0.013	0.020–0.118								●								●	
	TCMT1.8(1.5)1-MP4	TCMT090204-MP4	0.369	0.016	0.003–0.008	0.016–0.079	●	●															
	TCMT1.8(1.5)2-MP4	TCMT090208-MP4	0.369	0.031	0.005–0.010	0.020–0.079	●	●															
	TCMT2(1.5)1-MP4	TCMT110204-MP4	0.423	0.016	0.003–0.008	0.016–0.079	●	●															
	TCMT2(1.5)2-MP4	TCMT110208-MP4	0.423	0.031	0.005–0.012	0.020–0.079	●	●															
	TCMT3(2.5)1-MP4	TCMT16T304-MP4	0.650	0.016	0.003–0.010	0.016–0.118	●	●															
	TCMT3(2.5)2-MP4	TCMT16T308-MP4	0.650	0.031	0.005–0.013	0.020–0.118	●	●															
	TCMT432-MP4	TCMT220408-MP4	0.866	0.031	0.005–0.013	0.020–0.138		★															

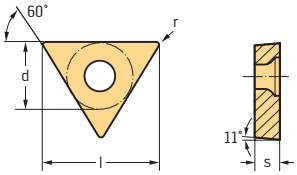
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide

● ● ● / ★ New addition to the product range

Vc 102

Positive triangular 60°
TPMT / TPGT / TPMW
Tiger·tec® Silver



Indexable inserts

	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	TPMT2(1.5)1-FM4	TPMT110204-FM4	0.433	0.016	0.002–0.006	0.004–0.059				☹	☹			☹						☹	
	TPMT3(2.5)1-FM4	TPMT16T304-FM4	0.650	0.016	0.002–0.006	0.004–0.059				☹	☹			☹						☹	
	TPMT2(1.5)1-FP4	TPMT110204-FP4	0.433	0.016	0.002–0.006	0.004–0.059	☺														
	TPMT3(2.5)1-FP4	TPMT16T304-FP4	0.650	0.016	0.002–0.006	0.004–0.059	☺														
	TPGT2(1.5)1-MM4	TPGT110204-MM4	0.433	0.016	0.003–0.008	0.016–0.079						☺		😐				☺		😐	
	TPGT2(1.5)2-MM4	TPGT110208-MM4	0.433	0.031	0.005–0.012	0.020–0.079						☺		😐				☺		😐	
	TPGT3(2.5)1-MM4	TPGT16T304-MM4	0.650	0.016	0.003–0.010	0.016–0.118						☺		😐				☺		😐	
	TPGT3(2.5)2-MM4	TPGT16T308-MM4	0.650	0.031	0.005–0.013	0.020–0.118						☺		😐				☺		😐	
	TPMT1.8(1.5)1-MK4	TPMT090204-MK4	0.390	0.016	0.003–0.008	0.016–0.079											😐				
	TPMT1.8(1.5)2-MK4	TPMT090208-MK4	0.390	0.031	0.005–0.008	0.020–0.079											😐				
	TPMT2(1.5)1-MK4	TPMT110204-MK4	0.433	0.016	0.003–0.008	0.016–0.079											😐				
	TPMT2(1.5)2-MK4	TPMT110208-MK4	0.433	0.031	0.005–0.012	0.020–0.079											😐				
	TPMT3(2.5)1-MK4	TPMT16T304-MK4	0.650	0.016	0.003–0.010	0.016–0.118											😐				
	TPMT3(2.5)2-MK4	TPMT16T308-MK4	0.650	0.031	0.005–0.013	0.020–0.118											😐				
	TPMW2(1.5)1-RK6	TPMW110204-RK6	0.433	0.016	0.005–0.010	0.016–0.098											☹				
	TPMW2(1.5)2-RK6	TPMW110208-RK6	0.433	0.031	0.006–0.012	0.024–0.118											☹				
	TPMW3(2.5)1-RK6	TPMW16T304-RK6	0.650	0.016	0.005–0.010	0.016–0.118											☹				
	TPMW3(2.5)2-RK6	TPMW16T308-RK6	0.650	0.031	0.006–0.014	0.024–0.157											☹				

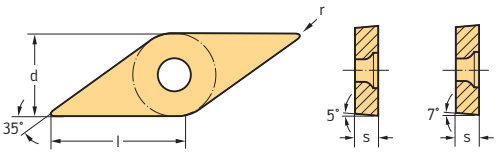
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide

WALTER SELECT
Optimum indexable insert for
Good ☺ Average 😐 Poor ☹
machining conditions

Vc 102

Positive rhombic 35°
VCGT / VBMT
Tiger·tec® Silver



Indexable inserts

	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM01	M HC WSM10S	M HC WSM20S	M HC WSM30S	K HC WKK10S	K HC WKK20S	N HC WNN10	S HC WSM01	S HC WSM10S	S HC WSM20S	S HC WSM30S
	VCGT2(2)0.5-FN2	VCGT110302-FN2	0.436	0.008	0.002–0.005	0.008–0.079												☺				
	VCGT221-FN2	VCGT110304-FN2	0.436	0.016	0.003–0.010	0.008–0.098												☺				
	VCGT3(3)0.5-FN2	VCGT160402-FN2	0.654	0.008	0.002–0.005	0.008–0.079												☺				
	VCGT331-FN2	VCGT160404-FN2	0.654	0.016	0.003–0.010	0.008–0.098												☺				
	VCGT332-FN2	VCGT160408-FN2	0.654	0.031	0.004–0.012	0.012–0.118												☺				
	VCGT2(2)0.2-FM2	VCGT110301-FM2	0.436	0.004	0.001–0.002	0.004–0.059								😐							😐	
	VCGT2(2)0.5-FM2	VCGT110302-FM2	0.436	0.008	0.002–0.005	0.008–0.079								😐							😐	
	VCGT221-FM2	VCGT110304-FM2	0.436	0.016	0.003–0.010	0.008–0.098							☺	😐						☺	😐	
	VCGT3(3)0.5-FM2	VCGT160402-FM2	0.654	0.008	0.002–0.005	0.008–0.079								😐							😐	
	VCGT331-FM2	VCGT160404-FM2	0.654	0.016	0.003–0.010	0.008–0.098							☺	😐						☺	😐	
	VCGT332-FM2	VCGT160408-FM2	0.654	0.031	0.004–0.012	0.012–0.118							☺	😐						☺	😐	
	VBMT221-FM6	VBMT110304-FM6	0.436	0.016	0.003–0.008	0.012–0.063							☺	😐	😵					☺	😐	😵
	VBMT222-FM6	VBMT110308-FM6	0.436	0.031	0.005–0.012	0.020–0.063							☺	😐	😵					☺	😐	😵
	VBMT331-FM6	VBMT160404-FM6	0.654	0.016	0.003–0.010	0.012–0.079							☺	😐	😵					☺	😐	😵
	VBMT332-FM6	VBMT160408-FM6	0.654	0.031	0.005–0.012	0.024–0.098							☺	😐	😵					☺	😐	😵
	VBMT333-FM6	VBMT160412-FM6	0.654	0.047	0.006–0.012	0.039–0.098							☺	😐	😵					☺	😐	😵
	VCGT2(2)0.5-MN2	VCGT110302-MN2	0.436	0.008	0.002–0.005	0.020–0.079												☺				
	VCGT221-MN2	VCGT110304-MN2	0.436	0.016	0.003–0.010	0.024–0.098												☺				
	VCGT331-MN2	VCGT160404-MN2	0.654	0.016	0.003–0.010	0.024–0.138						☺						☺	☺			
	VCGT332-MN2	VCGT160408-MN2	0.654	0.031	0.004–0.014	0.031–0.138						☺						☺	☺			
	VBMT221-MM4	VBMT110304-MM4	0.436	0.016	0.003–0.008	0.016–0.059				😐	😐		☺	😐						☺	😐	
	VBMT222-MM4	VBMT110308-MM4	0.436	0.031	0.005–0.010	0.020–0.059							☺	😐						☺	😐	
	VBMT331-MM4	VBMT160404-MM4	0.654	0.016	0.003–0.008	0.016–0.079				😐	😐		☺	😐	😵					☺	😐	😵
	VBMT332-MM4	VBMT160408-MM4	0.654	0.031	0.005–0.012	0.020–0.079				😐	😐		☺	😐	😵					☺	😐	😵
	VBMT333-FP6	VBMT160412-MM4	0.654	0.047	0.005–0.013	0.020–0.079							☺	😐						☺	😐	
	VBMT221-MK4	VBMT110304-MK4	0.436	0.016	0.003–0.008	0.016–0.059										☺	😐					
	VBMT222-MK4	VBMT110308-MK4	0.436	0.031	0.005–0.010	0.020–0.059										☺	😐					
	VBMT331-MK4	VBMT160404-MK4	0.654	0.016	0.003–0.008	0.016–0.079										☺	😐					
	VBMT332-MK4	VBMT160408-MK4	0.654	0.031	0.005–0.012	0.020–0.079										☺	😐					
	VBMT333-MK4	VBMT160412-MK4	0.654	0.047	0.005–0.013	0.020–0.079										☺	😐					

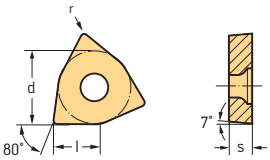
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

HC = Coated carbide

☺ 😐 😵 / ★ New addition to the product range

VC 102

Positive Trigon 80°
WCGT
Tiger·tec®

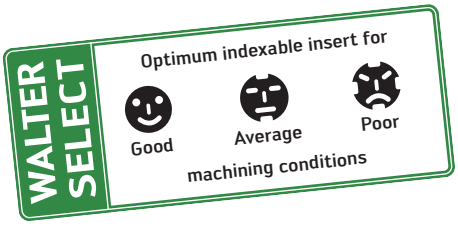


Indexable inserts

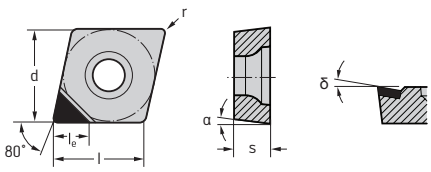
	ANSI Designation	Designation	l inch	r inch	f inch	a_p inch	P HC WPP10S	P HC WPP20S	P HC WPP30S	P HC WMP20S	M HC WMP20S	M HC WSM10S	M HC WSM20S	M HC WSM21	M HC WSM30S	K HC WKK10S	K HC WKK20S	S HC WSM10S	S HC WSM20S	S HC WSM30S
	WCGT1.8(1.5)0.5-FM2	WCGT030202-FM2	0.154	0.008	0.002–0.005	0.008–0.079								★						
	WCGT1.8(1.5)1-FM2	WCGT030204-FM2	0.154	0.016	0.003–0.010	0.008–0.098								★						
	WCGT2(1.5)0.5-FM2	WCGT040202-FM2	0.171	0.008	0.002–0.005	0.008–0.079								★						
	WCGT2(1.5)1-FM2	WCGT040204-FM2	0.171	0.016	0.003–0.010	0.008–0.098								★						

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

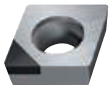
HC = Coated carbide



PCD – positive rhombic 80°
CPGW



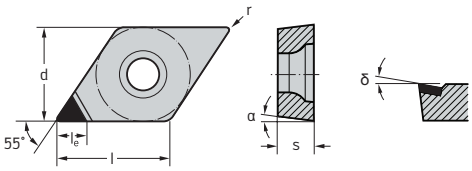
Indexable inserts

	ANSI Designation	Designation	Number of cutting edges	l_e inch	r inch	α	δ	f inch	a_p inch	K BH WCB80	K CN WSN10	N DP WDN10	S CN WIS10	S CR WWS20	H BL WCB30	H BH WCB50	O DP WDN10
	CPGW1.8(1.5)1FS-1	CPGW050204FS-1	1	0.118	0.016	11°	0°	0.001–0.010	0.004–0.098			☺					☺
	CPGW2(1.5)1FS-1	CPGW060204FS-1	1	0.138	0.016	11°	0°	0.001–0.010	0.004–0.118			☺					☺
	CPGW3(2.5)1FS-1	CPGW09T304FS-1	1	0.157	0.016	11°	0°	0.001–0.010	0.004–0.138			☺					☺
	CPGW3(2.5)2FS-1	CPGW09T308FS-1	1	0.157	0.031	11°	0°	0.001–0.015	0.004–0.138			☺					☺
	CPGW432FS-1	CPGW120408FS-1	1	0.157	0.031	11°	0°	0.001–0.015	0.004–0.138			☺					☺

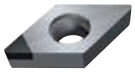
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

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

PCD – positive rhombic 55°
DPGW



Indexable inserts

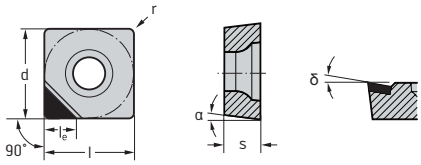
	ANSI Designation	Designation	Number of cutting edges	l_e inch	r inch	α	δ	f inch	a_p inch	K BH WCB80	K CN WSN10	N DP WDN10	S CN WIS10	S CR WWS20	H BL WCB30	H BH WCB50	O DP WDN10
	DPGW2(1.5)1FS-1	DPGW070204FS-1	1	0.138	0.016	11°	0°	0.001–0.010	0.004–0.118			☺					☺
	DPGW3(2.5)1FS-1	DPGW11T304FS-1	1	0.157	0.016	11°	0°	0.001–0.010	0.004–0.138			☺					☺
	DPGW3(2.5)2FS-1	DPGW11T308FS-1	1	0.157	0.031	11°	0°	0.001–0.015	0.004–0.138			☺					☺

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

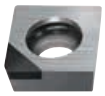
BH = CBN with high CBN content
CN = Silicon nitride Si_3N_4
DP = Polycrystalline diamond
CR = Reinforced ceramic
BL = CBN with low CBN content

☺☺☺ / ★ New addition to the product range

PCD – positive square
SPGW



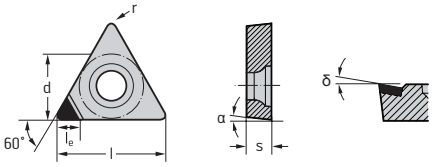
Indexable inserts

	ANSI Designation	Designation	Number of cutting edges	l_e inch	r inch	α	δ	f inch	a_p inch	K BH WCB80	K CN WSN10	N DP WDN10	S CN WIS10	S CR WWS20	H BL WCB30	H BH WCB50	O DP WDN10
	SPGW3(2.5)2FS-1	SPGW09T308FS-1	1	0.157	0.031	11°	0°	0.001–0.015	0.004–0.138			☺					☺

For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

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

PCD – positive triangular 60°
TPGW

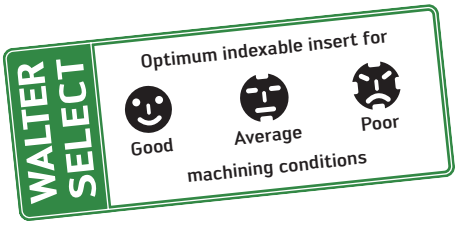


Indexable inserts

	ANSI Designation	Designation	Number of cutting edges	l_e inch	r inch	α	δ	f inch	a_p inch	K BH WCB80	K CN WSN10	N DP WDN10	S CN WIS10	S CR WWS20	H BL WCB30	H BH WCB50	O DP WDN10
	TPGW2(1.5)1FS-1	TPGW110204FS-1	1	0.165	0.016	11°	0°	0.001–0.010	0.004–0.138			☺					☺
	TPGW2(1.5)2FS-1	TPGW110208FS-1	1	0.157	0.031	11°	0°	0.001–0.015	0.004–0.138			☺					☺
	TPGW3(2.5)1FS-1	TPGW16T304FS-1	1	0.165	0.016	11°	0°	0.001–0.010	0.004–0.138			☺					☺
	TPGW3(2.5)2FS-1	TPGW16T308FS-1	1	0.157	0.031	11°	0°	0.001–0.015	0.004–0.138			☺					☺

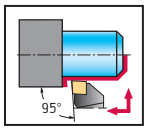
For dimensions, see the designation key from page A4 onwards in the Walter Supplementary Catalog 2014

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



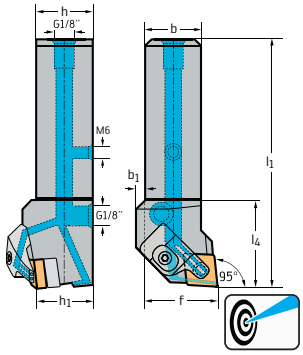
Shank tool – D-style clamping
DCLN...-P inch
Walter Turn

– Precision coolant



CN . .

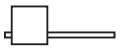
Tool



Designation		h = h1 inch	b inch	b1 inch	f inch	l1 inch	l4 inch	γ	λs	Type
★ DCLNR/L124B-P	12	0.750	0.750	0.394	1.000	4.500	1.575	-6°	-6°	CN .. 43 .. CN .. 1204 ..
DCLNR/L164D-P	12	1.000	1.000	0.157	1.250	6.000	1.516	-6°	-6°	

Measured with master insert: CN .. 120408
For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – Turning"
For the connection set for internal 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 ..
	Shim	AP301-CN12
	Screw for shim Tightening torque	FS1461 (Torx 15IP) 22 in lb
	Left clamp	PK261L
	Right clamp	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 35 in lb
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP / SW 3.5)

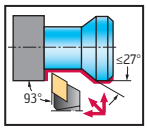
Accessories

	Type	CN .. 1204 ..
	Left clamp set (standard assembly parts)	PK261L SET
	Right clamp set (standard assembly parts)	PK261R SET

/ ★ New addition to the product range

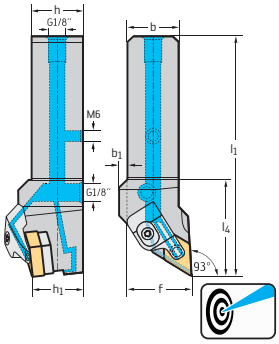
Shank tool – D-style clamping
DDJN...-P inch
Walter Turn

– Precision coolant



DN . .

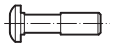
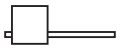
Tool



Designation		h = h1 inch	b inch	b1 inch	f inch	l1 inch	l4 inch	γ	λs	Type
DDJNR/L163D-P	11	1.000	1.000	0.118	1.250	6.000	1.909	-6°	-7°	DN .. 33 .. DN .. 1104 ..
★ DDJNR/L124B-P	15	0.750	0.750	0.276	1.000	4.500	1.969	-6°	-7°	DN .. 43 .. DN .. 1504 ..
DDJNR/L164D-P	15	1.000	1.000	0.118	1.250	6.000	1.909	-6°	-7°	

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 – Turning"
For the connection set for internal 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

	Type	DN .. 1104 ..	DN .. 1504 ..
	Shim	AP305-DN11	AP304-DN1504
	Screw for shim Tightening torque	FS1462 (Torx 9IP) 13 in lb	FS1461 (Torx 15IP) 22 in lb
	Left clamp	PK261L	PK261L
	Right clamp	PK261R	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 35 in lb	FS1473 (Torx 15IP) 35 in lb
	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 / SW 3.5)	FS1465 (Torx 15IP / SW 3.5)

Accessories

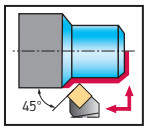
	Type	DN .. 1104 ..	DN .. 1504 ..
	Left clamp set (standard assembly parts)	PK261L SET	PK261L SET
	Right clamp set (standard assembly parts)	PK261R SET	PK261R SET
	Shim for DN . . 1506 . .		AP304-DN15

28 100

Shank tool – D-style clamping
DSSN...-P

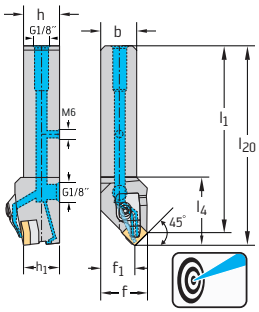
Walter Turn

– Precision coolant



SN . .

Tool



Designation		h = h1 mm	b mm	b1 mm	f mm	f1 mm	l1 mm	l4 mm	γ	λs	Type
★ DSSNR/L2525X12-P	12	25	25	0	32	23.7	138.7	48	-8°	0°	SN .. 1204 ..

Measured with master insert: SN .. 120408
For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – Turning"
For the connection set for internal 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: DSSNR2525X12-P / ordering example, left-hand tool: DSSNL2525X12-P
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

Type	SN .. 1204 ..
Shim	AP308-SN12
Screw for shim Tightening torque	FS1461 (Torx 15IP) 2.5 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 / SW 3.5)

Accessories

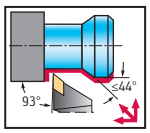
Type	SN .. 1204 ..
Left clamp set (standard assembly parts)	PK261L SET
Right clamp set (standard assembly parts)	PK261R SET

/ ★ New addition to the product range

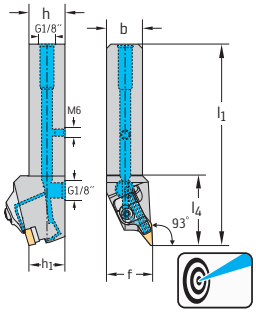
30 100

Shank tool – D-style clamping
DVJN...-P
Walter Turn

– Precision coolant



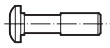
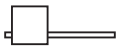
Tool



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 – Turning"
For the connection set for internal 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: DVJNR2020X16-P / ordering example. left-hand tool: DVJNL2020X16-P
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

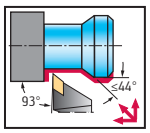
	Type	VN .. 1604 ..
	Shim	AP312-VN16
	Screw for shim Tightening torque	FS1467 (Torx 15IP) 3.0 Nm
	Left clamp	PK261L
	Right clamp	PK261R
	Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3.9 Nm
	Pressure spring	FS2188
	G 1/8" threaded plug	FS2258 (SW 5)
	M6 threaded plug	FS2288 (SW 3)
	Torx key	FS1465 (Torx 15IP / SW 3.5)

Accessories

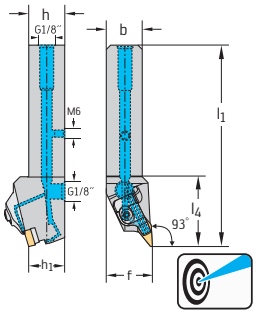
	Type	VN .. 1604 ..
	Left clamp set (standard assembly parts)	PK261L SET
	Right clamp set (standard assembly parts)	PK261R SET

Shank tool – D-style clamping
DVJN...-P inch
Walter Turn

– Precision coolant



Tool



Designation		h = h_1 inch	b inch	b_1 inch	f inch	l_1 inch	l_4 inch	γ	$λ_s$	Type
★ DVJNR/L123B-P	16	0.750	0.750	0.157	1.000	4.496	1.906	-4°	-13°	VN .. 33 .. VN .. 1604 ..
★ DVJNR/L163D-P	16	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 – Turning"
For the connection set for internal 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) 27 in lb
Left clamp	PK261L
Right clamp	PK261R
Screw for clamp Tightening torque	FS1473 (Torx 15IP) 35 in lb
Pressure spring	FS2188
G 1/8" threaded plug	FS2258 (SW 5)
M6 threaded plug	FS2288 (SW 3)
Torx key	FS1465 (Torx 15IP / SW 3.5)

Accessories

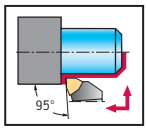
Type	VN .. 1604 ..
Left clamp set (standard assembly parts)	PK261L SET
Right clamp set (standard assembly parts)	PK261R SET

/ ★ New addition to the product range

32 100

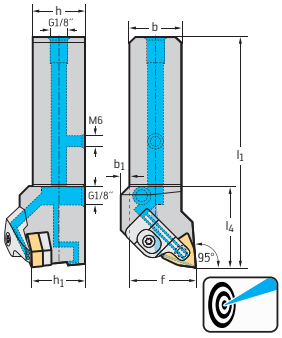
Shank tool – D-style clamping
DWLN...-P
Walter Turn

– Precision coolant



WN . .

Tool



Designation		h = h1 mm	b mm	b1 mm	f mm	l1 mm	l4 mm	γ	λs	Type
★ DWLNR/L2020X08-P	8	20	20	0	25.01	120.0	43.5	-7°	-6°	WN .. 43 ..
★ DWLNR/L2525X08-P	8	25	25	0	39.5	135.0	43.5	-7°	-6°	WN .. 0804 ..

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 – Turning"
For the connection set for internal 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: DWLNR2020X08-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 / SW 3.5)

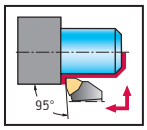
Accessories

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

33 100

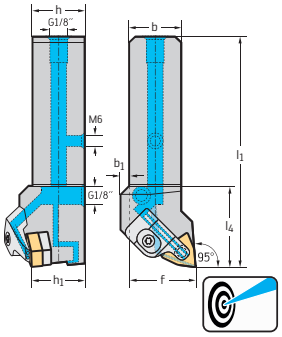
Shank tool – D-style clamping
DWLN...-P inch
Walter Turn

– Precision coolant



WN . .

Tool



Designation		h = h1 inch	b inch	b1 inch	f inch	l1 inch	l4 inch	γ	λs	Type
★ DWLNR/L164D-P	8	1.000	1.000	0.000	1.250	6.000	1.713	-7°	-6°	WN .. 0804 ..

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 – Turning"
The maximum recommended coolant pressure is 150 bar (2175 psi)
For the connection set for internal coolant supply with G1/8" thread, see "Assembly parts and accessories"
Ordering example, right-hand tool: DWLNR164D-P / ordering example, left-hand tool: DWLNL164D-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) 22 in lb
Left clamp	PK266L
Right clamp	PK266R
Screw for clamp Tightening torque	FS1473 (Torx 15IP) 35 in lb
Pressure spring	FS2188
G 1/8" threaded plug	FS2258 (SW 5)
M6 threaded plug	FS2288 (SW 3)
Torx key	FS1465 (Torx 15IP / SW 3.5)

Accessories

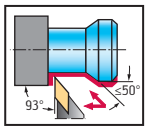
Type	WN .. 0804 ..
Left clamp set (standard assembly parts)	PK266L SET
Right clamp set (standard assembly parts)	PK266R SET

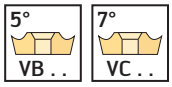
/ ★ New addition to the product range

33 100

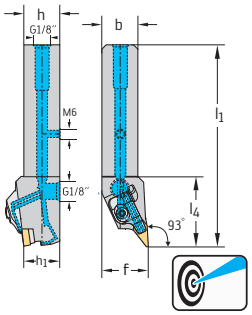
Shank tool – D-style clamping
DVJB...-P
Walter Turn

– Precision coolant





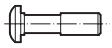
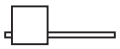
Tool



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	48.5	-2°	-7°	VB .. 1604 .. VC .. 1604 ..
★ DVJBR/L2525X16-P	16	25	25	0	32	140	48.5	-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 – Turning"
For the connection set for internal 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 / SW 3.5)

Accessories

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

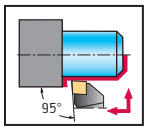
46 102

★ New addition to the product range

Turning toolholders – Claw clamping system C...-DCLN...-P

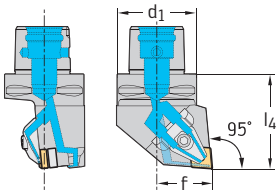
Walter Turn

– Precision coolant
– Walter Capto™



Tool

Walter Capto™ in acc. with ISO 26623



Designation		d_1	f mm	l_4 mm	γ	λ_s	Type
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°	

Measured with master insert: CN .. 120408
For information on the rake angle γ (for indexable inserts without chip groove) and on the inclination angle λ_s, see "Technical information – 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 ..
Shim	AP301-CN12
Screw for shim Tightening torque	FS1461 (Torx 15IP) 2.5 Nm
Clamp	PK255
Screw for clamp Tightening torque	FS1473 (Torx 15IP) 3.9 Nm
Pressure spring	FS2188
Torx key	FS1465 (Torx 15IP / SW 3.5)

Accessories

Type	CN .. 1204 ..
Clamp set (standard assembly parts)	PK255 SET

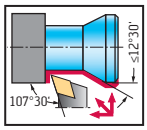
26 102

★ New addition to the product range

Turning toolholders – Claw clamping system C...-DDHN...-P

Walter Turn

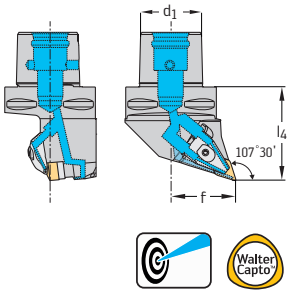
– Precision coolant
– Walter Capto™



DN . .

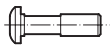
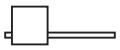
Tool

Designation		d_1	f mm	l_4 mm	γ	λ_s	Type
Walter Capto™ in acc. 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 – 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 / SW 3.5)

Accessories

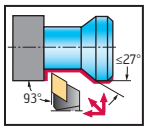
	Type	DN .. 1506 ..
	Clamp set (standard assembly parts)	PK256 SET

28 102

Turning toolholders – Claw clamping system C...-DDJN...-P

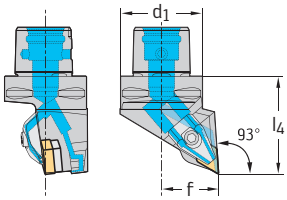
Walter Turn

– Precision coolant
– Walter Capto™



Tool

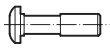
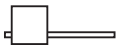
Walter Capto™ in acc. with ISO 26623



Designation		d_1	f mm	l_4 mm	γ	λ_s	Type
C4-DDJNR/L-27055-11-P	11	C4	27	55	-6°	-7°	DN .. 1104 ..
C5-DDJNR/L-35060-15-P	15	C5	35	60	-6°	-7°	
C6-DDJNR/L-45065-15-P	15	C6	45	65	-6°	-7°	DN .. 1506 ..
★ 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 – 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 / SW 3.5)	FS1465 (Torx 15IP / SW 3.5)

Accessories

	Type	DN .. 1104 ..	DN .. 1506 ..
	Clamp set (standard assembly parts)	PK255 SET	PK256 SET

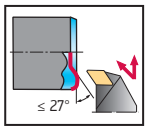
28 102

★ New addition to the product range

Turning toolholders – Claw clamping system C...-DDUN...-P

Walter Turn

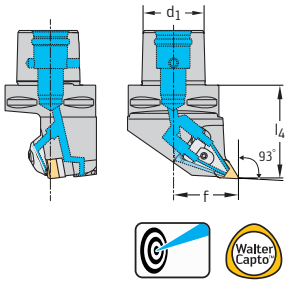
– Precision coolant
– Walter Capto™



DN . .

Tool

Designation		d_1	f mm	l_4 mm	γ	λ_s	Type
Walter Capto™ in acc. 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 – 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 / SW 3.5)

Accessories

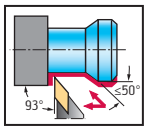
Type	DN .. 1506 ..
Clamp set (standard assembly parts)	PK256 SET

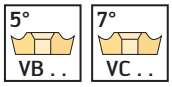
28 102

Turning toolholders – Claw clamping system
C...-DVJB...-P

Walter Turn

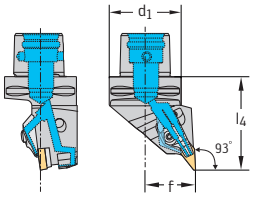
– Precision coolant
– Walter Capto™





Tool

Walter Capto™ in acc. with ISO 26623



Designation		d_1	f mm	l_4 mm	γ	λ_s	Type
★ C4-DVJBR/L-27062-16-P	16	C4	30	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 recess) and on the inclination angle λ_s, see "Technical information – 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 / SW 3.5)

Accessories

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

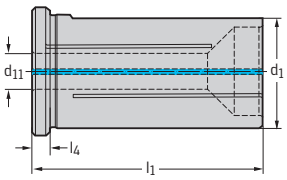
★ New addition to the product range

46 102

Boring bar adaptor
A2140-W

Walter Turn

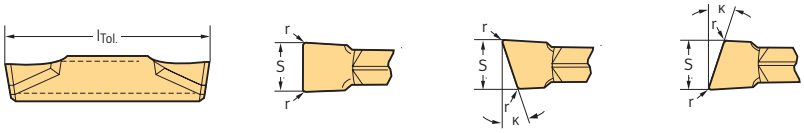
– With Weldon shank in accordance with DIN 9766
– Self-centring for cylindrical round shank

Tool	Designation	d_1 mm	d_{11} mm	l_1 mm	l_4 mm	kg
Parallel shank with surface in acc. 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	0.2
	★ A2140-W32-R06-065	32	6	65	5	0.3
	★ A2140-W32-R08-065	32	8	65	5	0.4
	★ A2140-W32-R10-065	32	10	65	5	0.4
	★ 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 cylindrical shank (-R) Ø 6–25 mm.

★ New addition to the product range

Grooving and parting off
GX cutting inserts



Cutting inserts

	Designation	s inch	r inch	κ	l inch	f inch	S_{Tol} inch	l_{Tol} inch	P HC WKP23S	P HC WSM33S	P HC WSM43S	M HC WSM33S	M HC WSM43S	K HC WKP23S	N HW WK1	S HC WSM33S	S HC WSM43S
	GX16-1E200N02-CK8	0.079	0.008		0.654	0.002–0.005	±0.001	±0.001							☻		
	GX16-2E300N02-CK8	0.118	0.008		0.654	0.003–0.008	±0.001	±0.001							☻		
	GX24-2E300N02-CK8	0.118	0.008		0.969	0.003–0.008	±0.001	±0.001							☻		
	GX24-3E400N02-CK8	0.157	0.008		0.969	0.004–0.009	±0.001	±0.001							☻		

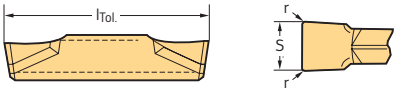
l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.002 inch (0.05 mm)

HC = Coated carbide
HW = Uncoated carbide

☻☻☻ / ★ New addition to the product range

Grooving and recessing
GX cutting inserts
Tiger·tec® Silver

GX...N

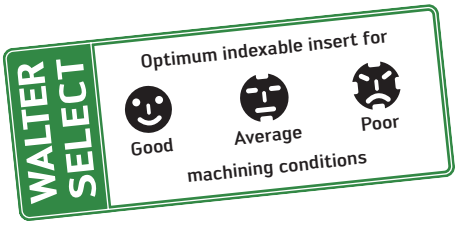


Cutting inserts

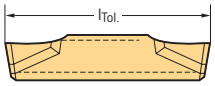
	Designation	s inch	r inch	l inch	f inch	a_p inch	S_{Tol} inch	l_{Tol} inch	P HC WKP23S	P HC WSM23S	P HC WSM33S	P HC WSM43S	M HC WSM23S	M HC WSM33S	M HC WSM43S	K HC WKP23S	S HC WSM23S	S HC WSM33S	S HC WSM43S
	GX16-0E160N01-UF8	0.063	0.004	0.630	0.002–0.007	0.012–0.039	±0.001	±0.001		☺			☺				☺		
	GX16-0E170N01-UF8	0.067	0.004	0.630	0.002–0.007	0.012–0.039	±0.001	±0.001		☺			☺				☺		
	GX16-0E185N01-UF8	0.073	0.004	0.630	0.002–0.009	0.012–0.039	±0.001	±0.001		☺			☺				☺		
	GX16-1E200N02-UF8	0.079	0.008	0.630	0.002–0.009	0.012–0.047	±0.001	±0.001		☺			☺				☺		
	GX16-1E225N01-UF8	0.089	0.004	0.630	0.002–0.009	0.012–0.051	±0.001	±0.001		☺			☺				☺		
	GX16-1E275N01-UF8	0.108	0.004	0.630	0.002–0.009	0.012–0.051	±0.001	±0.001		☺			☺				☺		
	GX16-2E300N02-UF8	0.118	0.008	0.630	0.003–0.009	0.016–0.059	±0.001	±0.001		☺			☺				☺		
	GX16-2E318N02-UF8	0.125	0.008	0.630	0.003–0.009	0.016–0.063	±0.001	±0.001		☺			☺				☺		
	GX16-2E325N01-UF8	0.128	0.004	0.630	0.003–0.009	0.016–0.063	±0.001	±0.001		☺			☺				☺		
	GX16-3E400N04-UF8	0.157	0.016	0.630	0.004–0.012	0.035–0.087	±0.001	±0.001		☺			☺				☺		
	GX24-1E239N02-UF8	0.094	0.008	0.945	0.002–0.009	0.012–0.051	±0.001	±0.001		☺			☺				☺		
	GX24-1E275N01-UF8	0.108	0.004	0.945	0.002–0.009	0.012–0.051	±0.001	±0.001		☺			☺				☺		
	GX24-2E300N02-UF8	0.118	0.008	0.945	0.003–0.009	0.016–0.059	±0.001	±0.001		☺			☺				☺		
	GX24-2E300N04-UF8	0.118	0.016	0.945	0.003–0.009	0.016–0.059	±0.001	±0.001		☺			☺				☺		
	GX24-2E318N02-UF8	0.125	0.008	0.945	0.003–0.009	0.016–0.063	±0.001	±0.001		☺			☺				☺		
	GX24-2E325N01-UF8	0.128	0.004	0.945	0.003–0.009	0.016–0.063	±0.001	±0.001		☺			☺				☺		
	GX24-3E400N02-UF8	0.157	0.008	0.945	0.004–0.012	0.012–0.087	±0.001	±0.001		☺			☺				☺		
	GX24-3E400N04-UF8	0.157	0.016	0.945	0.004–0.012	0.020–0.087	±0.001	±0.001		☺			☺				☺		
	GX24-3E475N05-UF8	0.187	0.020	0.945	0.004–0.012	0.024–0.094	±0.001	±0.001		☺			☺				☺		
	GX24-3E500N02-UF8	0.197	0.008	0.945	0.004–0.014	0.012–0.102	±0.001	±0.001		☺			☺				☺		
	GX24-3E500N04-UF8	0.197	0.016	0.945	0.004–0.014	0.024–0.102	±0.001	±0.001		☺			☺				☺		
	GX24-3E500N08-UF8	0.197	0.031	0.945	0.004–0.014	0.035–0.102	±0.001	±0.001		☺			☺				☺		
	GX24-3E556N05-UF8	0.219	0.020	0.945	0.004–0.014	0.024–0.110	±0.001	±0.001		☺			☺				☺		
	GX24-4E600N02-UF8	0.236	0.008	0.945	0.004–0.014	0.012–0.126	±0.001	±0.001		☺			☺				☺		
	GX24-4E600N04-UF8	0.236	0.016	0.945	0.004–0.014	0.024–0.126	±0.001	±0.001		☺			☺				☺		
	GX24-4E600N08-UF8	0.236	0.031	0.945	0.004–0.014	0.035–0.126	±0.001	±0.001		☺			☺				☺		
	GX24-4E635N04-UF8	0.250	0.016	0.945	0.004–0.014	0.024–0.134	±0.001	±0.001		☺			☺				☺		
	GX24-4E635N08-UF8	0.250	0.031	0.945	0.004–0.014	0.035–0.134	±0.001	±0.001		☺			☺				☺		
	GX30-5E800N08-UF8	0.315	0.031	1.181	0.005–0.016	0.039–0.165	±0.001	±0.001		☺			☺				☺		

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.002 inch (0.05 mm)

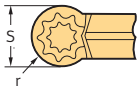
HC = Coated carbide



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



GX...N



Cutting inserts

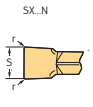
	Designation	s inch	r inch	l inch	f inch	a_p inch	S_{Tol} inch	l_{Tol} inch	P HC WKP23S	P HC WSM13S	P HC WSM23S	P HC WSM33S	P HC WSM43S	M HC WSM13S	M HC WSM23S	M HC WSM33S	M HC WSM43S	K HC WKP23S	S HC WSM13S	S HC WSM23S	S HC WSM33S	S HC WSM43S
	GX09-1E200N10-RF8	0.079	0.039	0.354	0.002–0.007	0.004–0.039	±0.001	±0.001			★				★					★		
	GX16-1E200N10-RF8	0.079	0.039	0.630	0.003–0.010	0.004–0.039	±0.001	±0.001		●	●			●	●				●	●		
	GX16-2E300N15-RF8	0.118	0.059	0.630	0.004–0.012	0.004–0.059	±0.001	±0.001		●	●			●	●				●	●		
	GX16-3E400N20-RF8	0.157	0.079	0.630	0.005–0.018	0.004–0.079	±0.001	±0.001			★				★					★		
	GX16-3E500N25-RF8	0.197	0.098	0.630	0.006–0.004	0.008–0.098	±0.001	±0.001			★				★					★		
	GX16-4E600N30-RF8	0.236	0.118	0.630	0.006–0.022	0.004–0.118	±0.001	±0.001			★				★					★		
	GX24-2E300N15-RF8	0.118	0.059	0.945	0.004–0.012	0.004–0.059	±0.001	±0.001		●	●			●	●				●	●		
	GX24-2E318N16-RF8	0.125	0.063	0.945	0.004–0.012	0.004–0.059	±0.001	±0.001			●				●					●		
	GX24-3E400N20-RF8	0.157	0.079	0.945	0.005–0.018	0.004–0.079	±0.001	±0.001		●	●			●	●				●	●		
	GX24-3E475N24-RF8	0.187	0.094	0.945	0.006–0.020	0.004–0.091	±0.001	±0.001			●				●					●		
	GX24-3E500N25-RF8	0.197	0.098	0.945	0.006–0.020	0.004–0.098	±0.001	±0.001		●	●			●	●				●	●		
	GX24-4E600N30-RF8	0.236	0.118	0.945	0.006–0.022	0.004–0.118	±0.001	±0.001		●	●			●	●				●	●		
	GX24-4E635N32-RF8	0.250	0.125	0.945	0.006–0.022	0.004–0.118	±0.001	±0.001			●				●					●		
	GX30-5E800N40-RF8	0.315	0.157	1.181	0.007–0.024	0.008–0.157	±0.001	±0.001		●	●			●	●				●	●		

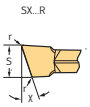
l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.002 inch (0.05 mm)

HC = Coated carbide

● ● ● / ★ New addition to the product range

Grooving and parting off
SX cutting inserts



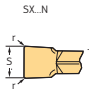
Cutting inserts

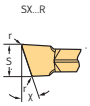
	Designation	s inch	r inch	κ	f inch	S_{Tol} inch	l_{Tol} inch	P HC WKP23S	P HC WSM33S	P HC WSM43S	M HC WSM33S	M HC WSM43S	K HC WKP23S	N HW WK1	S HC WSM33S	S HC WSM43S
	SX-2E200N02-CK8	0.079	0.008		0.002–0.005	±0.001	±0.002							☻		
	SX-3E300N02-CK8	0.118	0.008		0.003–0.008	±0.001	±0.002							☻		
	SX-4E400N02-CK8	0.157	0.008		0.004–0.009	±0.001	±0.002							☻		
	SX-5E500N04-CK8	0.197	0.016		0.004–0.010	±0.001	±0.002							☻		
	SX-6E600N04-CK8	0.236	0.016		0.004–0.012	±0.001	±0.002							☻		

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.002 inch (0.05 mm)

HC = Coated carbide
HW = Uncoated carbide

Grooving and recessing
SX cutting inserts
Tiger·tec® Silver



Cutting inserts

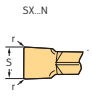
	Designation	s inch	r inch	l inch	f inch	a_p inch	S_{Tol} inch	l_{Tol} inch	P HC WKP23S	P HC WSM33S	P HC WSM43S	M HC WSM33S	M HC WSM43S	K HC WKP23S	S HC WSM33S	S HC WSM43S
	SX-8E800N08-UF4	0.315	0.031	0.685	0.007–0.022	0.035–0.157	±0.002	±0.0004	☻	☻	☻	☻	☻	☻	☻	☻

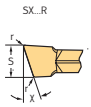
l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.002 inch (0.05 mm)

HC = Coated carbide

☻☻☻ / ★ New addition to the product range

Slitting
SX cutting inserts



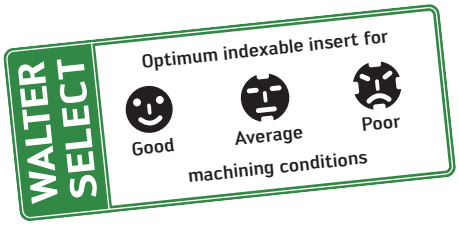


Cutting inserts

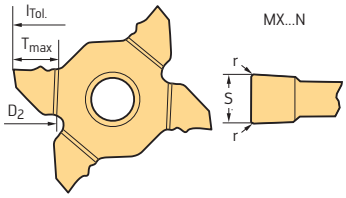
	Designation	s inch	r inch	κ	f inch	S_{Tol} inch	l_{Tol} inch	P HC WKP23S	P HC WSM33S	P HC WSM43S	M HC WSM33S	M HC WSM43S	K HC WKP23S	N HW WK1	S HC WSM33S	S HC WSM43S
	SX-1E150N01-SK8	0.059	0.004		0.001–0.003	±0.001	±0.002							☺		
	SX-2E200N02-SK8	0.079	0.008		0.002–0.004	±0.001	±0.002							☺		
	SX-3E300N02-SK8	0.118	0.008		0.002–0.006	±0.001	±0.002							☺		
	SX-4E400N02-SK8	0.157	0.008		0.002–0.008	±0.001	±0.002							☺		
	SX-5E500N04-SK8	0.197	0.016		0.002–0.010	±0.001	±0.002							☺		
	SX-6E600N04-SK8	0.236	0.016		0.002–0.012	±0.001	±0.002							☺		

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.002 inch (0.05 mm)

HC = Coated carbide
HW = Uncoated carbide



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



Cutting inserts

	Designation	s inch	r inch	T_{max} inch	D_2 inch	l inch	f inch	S_{Tol} inch	l_{Tol} inch	P HC WKP23S	P HC WSM33S	P HC WSM43S	M HC WSM23S	M HC WSM33S	M HC WSM43S	K HC WKP23S	S HC WSM23S	S HC WSM33S	S HC WSM43S
	MX22-2E100N01-GD8	0.039	0.004	0.138	5.118	0.866	0.001–0.002	±0.001	±0.001				☺				☺		
	MX22-2E120N01-GD8	0.047	0.004	0.138	5.118	0.866	0.001–0.003	±0.001	±0.001				☺				☺		
	MX22-2E140N01-GD8	0.055	0.004	0.157	5.118	0.866	0.001–0.003	±0.001	±0.001				☺				☺		
	MX22-2E150N01-GD8	0.059	0.004	0.157	5.118	0.866	0.001–0.004	±0.001	±0.001				☺				☺		
	MX22-2E157N02-GD8	0.062	0.008	0.177	5.118	0.866	0.001–0.004	±0.001	±0.001				☺				☺		
	MX22-2E170N02-GD8	0.067	0.008	0.197	5.118	0.866	0.001–0.004	±0.001	±0.001				☺				☺		
	MX22-2E185N02-GD8	0.073	0.008	0.217	5.118	0.866	0.002–0.004	±0.001	±0.001				☺				☺		
	MX22-2E196N02-GD8	0.077	0.008	0.236	3.937	0.866	0.002–0.004	±0.001	±0.001				☺				☺		
	MX22-2E200N02-GD8	0.079	0.008	0.236	3.937	0.866	0.002–0.004	±0.001	±0.001				☺				☺		
	MX22-2E224N02-GD8	0.088	0.008	0.236	3.937	0.866	0.002–0.005	±0.001	±0.001				☺				☺		
	MX22-2E239N02-GD8	0.094	0.008	0.236	3.937	0.866	0.002–0.006	±0.001	±0.001				☺				☺		
	MX22-2E275N02-GD8	0.108	0.008	0.236	3.937	0.866	0.002–0.006	±0.001	±0.001				☺				☺		
	MX22-2E300N02-GD8	0.118	0.008	0.236	3.937	0.866	0.002–0.006	±0.001	±0.001				☺				☺		
	MX22-2E318N02-GD8	0.125	0.008	0.236	3.937	0.866	0.002–0.006	±0.001	±0.001				☺				☺		
	MX22-2E325N02-GD8	0.128	0.008	0.236	3.937	0.866	0.002–0.006	±0.001	±0.001				☺				☺		

l_{Tol} = Repeat accuracy when changing indexable insert
Radius tolerance r_{Tol} = ± 0.002 inch (0.05 mm)
For information on T_{max} with diameters larger than D_2, see “Technical information – Grooving”

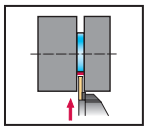
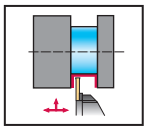
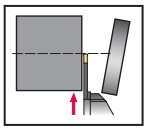
HC = Coated carbide

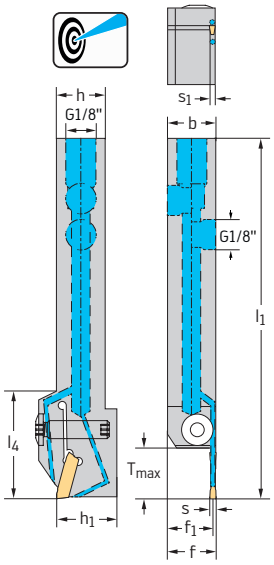
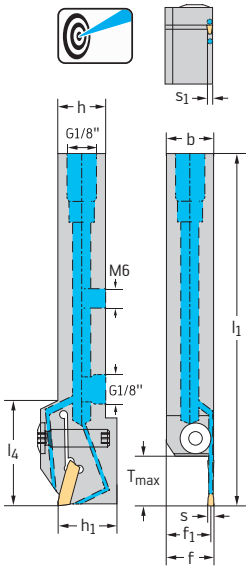
☺☺☺ / ★ New addition to the product range

Shank tool – Radial grooving
G1011...-P

Walter Cut

– Screw clamping
– Precision coolant

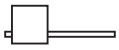





Tool	Designation	s mm	T_{max} mm	$h = h_1$ mm	b mm	f_1 mm	l_1 mm	l_4 mm	s_1 mm	Type
	G1011.1616R/L-2T15GX16-P	2	15	16	16	15.2	120	35.5	1.6	GX16-1E2 .. GX16-1F2 ..
	G1011.1616R/L-2T21GX24-P		21	16	16	15.3	120	40	1.6	GX24-1E2 ..
	★ G1011.1616R/L-3T15GX16-P	3	15	16	16	14.9	120	35.5	2.2	GX16-2E3 ..
	G1011.1616R/L-3T21GX24-P		21	16	16	14.8	120	40	2.4	GX24-2E3 .. GX24-2F3 ..
	G1011.2020R/L-2T15GX16-P	2	15	20	20	19.2	120	35.5	1.6	GX16-1E2 .. GX16-1F2 ..
	G1011.2020R/L-2T21GX24-P		21	20	20	19.2	125	40	1.6	GX24-1E2 ..
	★ G1011.2020R/L-3T15GX16-P	3	15	20	20	18.9	120	35.5	2.2	GX16-2E3 ..
	G1011.2020R/L-3T21GX24-P		21	20	20	18.8	125	40	2.4	GX24-2E3 .. GX24-2F3 ..
	G1011.2525R/L-3T21GX24-P		21	25	25	23.8	130	40	2.4	
	G1011.2020R/L-4T12GX24-P	4	12	20	20	18.3	120	35	3.4	GX24-3E4 .. GX24-3F4 ..
	G1011.2020R/L-4T21GX24-P		21	20	20	18.3	125	40	3.4	
	G1011.2525R/L-4T12GX24-P		12	25	25	23.3	125	35	3.4	
	G1011.2525R/L-4T21GX24-P		21	25	25	23.3	130	40	3.4	
	G1011.2525R/L-4T32GX24-P		32	25	25	23.3	145	55	3.4	
	G1011.2020R/L-5T12GX24-P	5	12	20	20	17.9	120	35	4.2	GX24-3E5 .. GX24-3F5 ..
	G1011.2020R/L-5T21GX24-P		21	20	20	17.9	125	40	4.2	
	G1011.2525R/L-5T12GX24-P		12	25	25	22.9	125	35	4.2	
	G1011.2525R/L-5T21GX24-P		21	25	25	22.9	130	40	4.2	
	G1011.2525R/L-5T32GX24-P		32	25	25	22.9	145	55	4.2	
	G1011.2525R/L-6T12GX24-P	6	12	25	25	22.4	125	35	5.2	GX24-4E6 ..
	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 ..
	G1011.3225R/L-8T28GX30-P		28	32	25	22	145	55	6.1	

$f = f_1 + s/2$
For the connection set for internal 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: G1011.1616R-2T15GX16-P / ordering example, left-hand tool: G1011.1616L-2T15GX16-P
Bodies and assembly parts are included in the scope of delivery.

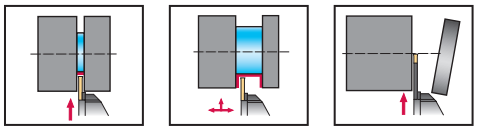
/ ★ New addition to the product range

Assembly parts

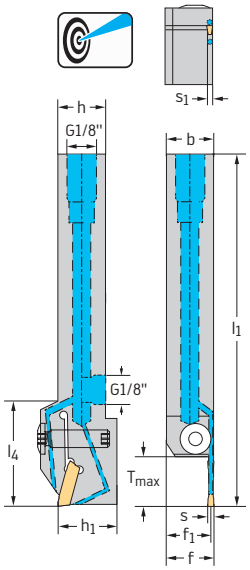
	$h = h_1$ [mm]	16	20-32
	Clamping screw for grooving insert Tightening torque	FS2118 (Torx 20IP) 5.0 Nm	FS2118 (Torx 20IP) 5.0 Nm
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug		FS2288 (SW 3)
	Torx key	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)

Shank tool – Radial grooving
G1011...-P inch
Walter Cut

– Screw clamping
– Precision coolant



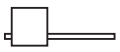
Tool



Designation	s inch	T_{max} 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 .. GX16-1F2 ..
G1011.16R/L-2T15GX16-P		0.591	1.000	1.000	0.969	5.906	1.398	0.063	
★ 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	0.750	0.750	0.701	5.906	1.575	0.094	GX24-2E3 .. GX24-2F3 ..
G1011.16R/L-3T21GX24-P		0.827	1.000	1.000	0.953	5.906	1.575	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 .. GX24-3F4 ..
G1011.12R/L-4T21GX24-P		0.827	0.750	0.750	0.685	5.906	1.575	0.134	
G1011.16R/L-4T12GX24-P		0.472	1.000	1.000	0.933	5.709	1.378	0.134	
G1011.16R/L-4T21GX24-P		0.827	1.000	1.000	0.933	5.906	1.575	0.134	
G1011.12R/L-5T21GX24-P	0.197	0.827	0.750	0.750	0.669	5.906	1.575	0.165	GX24-3E5 .. GX24-3F5 ..
G1011.16R/L-5T12GX24-P		0.472	1.000	1.000	0.917	5.709	1.378	0.165	
G1011.16R/L-5T21GX24-P		0.827	1.000	1.000	0.917	5.906	1.575	0.165	
G1011.16R/L-5T32GX24-P		1.260	1.000	1.000	0.917	5.906	2.165	0.165	
G1011.16R/L-6T12GX24-P	0.236	0.472	1.000	1.000	0.898	5.709	1.378	0.205	GX24-4E6 ..
G1011.16R/L-6T21GX24-P		0.827	1.000	1.000	0.898	5.906	1.575	0.205	
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 internal 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

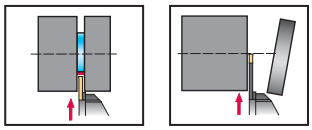
	$h = h_1$ [inch]	0.750-1.000
	Clamping screw for grooving insert Tightening torque	FS2118 (Torx 20IP) 44 in lb
	G 1/8" threaded plug	FS2258 (SW 5)
	Torx key	FS1464 (Torx 20IP)

/ ★ New addition to the product range

Reinforced parting blade G1041...-P

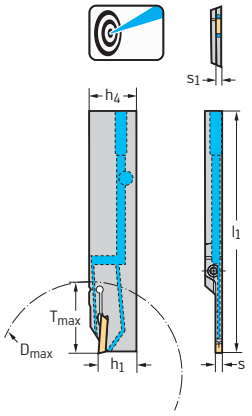
Walter Cut

– Screw clamping
– Precision coolant



GX..E.. GX..F..

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	GX24-2E3 .. 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-4T32GX24-P	4	32	65	32	110	24.6	3.1	GX24-3E4 .. GX24-3F4 ..

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

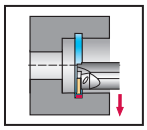
Accessories

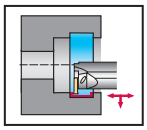
	h_4 [mm]	26-32
	Screwdriver for grooving insert	FS1485 (Torx 15IP)

Boring bar – Internal grooving
G1221...-P

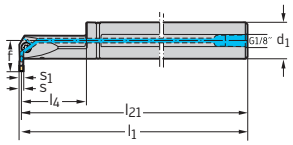
Walter Cut

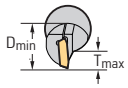
– Screw clamping
– Precision coolant





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	40	179.3	1.4	GX09-1E2 ..
★ G1221-20QR/L-2T06-GX09-P		6	20	20	16.6	47	179.3	1.4	
★ G1221-25RR/L-2T08-GX16-P		8	25	25	21.1	56	199.3	1.5	
★ G1221-20QR/L-3T06-GX09-P	3	6	20	20	16.6	47	179.0	2.1	GX09-2E3 ..
★ G1221-25RR/L-3T08-GX16-P		8	25	25	21.1	56	199.0	2.1	GX16-2E3 ..
★ G1221-32SR/L-3T10-GX16-P		10	32	32	26.6	69	249.0	2.1	
★ G1221-32SR/L-4T10-GX16-P	4–5	10	32	32	26.6	69	248.5	3.1	GX16-3E ..

$l_1 = l_{21} + s/2$
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
	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) 6.0 Nm
	Threaded plug	M02X002 ISO 4026	M03X003 ISO 4026 (SW 1.6)	M03X003 ISO 4026 (SW 1.6)	M03X003 ISO 4026 (SW 1.6)
	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

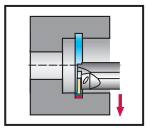
	D_{min} [mm]	16-20	25	32
	Torque screwdriver. analogue Tightening torque	FS2003 1.5–5.0 Nm	FS2003 1.5–5.0 Nm	FS2003 1.5–5.0 Nm
	Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2016 (Torx 25IP)

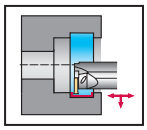
★ New addition to the product range

Boring bar – Internal grooving
G1221...-P inch

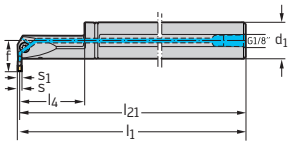
Walter Cut

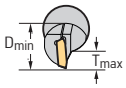
– Screw clamping
– Precision coolant





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	0.157	0.625	0.625	0.492	1.575	7.059	0.055	GX09-1E2 ..
★ G1221.12QR/L-2T06-GX09-P		0.236	0.750	0.750	0.634	1.850	7.059	0.055	
★ G1221.16RR/L-2T08-GX16-P		0.315	1.000	1.000	0.839	2.205	7.844	0.059	GX16-1E2 .. GX16-1F2 ..
★ G1221.12QR/L-3T06-GX09-P	0.118	0.236	0.750	0.750	0.634	1.850	7.045	0.083	GX09-2E3 ..
★ G1221.16RR/L-3T08-GX16-P		0.315	1.000	1.000	0.839	2.205	7.833	0.083	GX16-2E3 ..
★ G1221.20SR/L-3T10-GX16-P		0.394	1.250	1.250	1.043	2.717	9.801	0.083	
★ G1221.20SR/L-4T10-GX16-P	0.157–0.197	0.394	1.250	1.250	1.043	2.717	9.781	0.122	GX16-3E ..

$l_1 = l_{21} + s/2$
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) 31 in lb	FS2081 (Torx 15IP) 35 in lb	FS1495 (Torx 20IP) 44 in lb	FS2089 (Torx 25IP) 53 in lb
	Threaded plug	M02X002 ISO 4026	M03X003 ISO 4026 (SW 1.6)	M03X003 ISO 4026 (SW 1.6)	M03X003 ISO 4026 (SW 1.6)
	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)

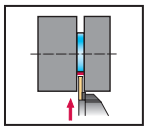
Accessories

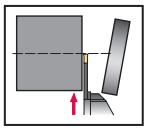
	D_{min} [inch]	0.625-0.750	1.000	1.250
	Torque screwdriver, analogue	FS2004	FS2004	FS2004
	Interchangeable blade	FS2014 (Torx 15IP)	FS2015 (Torx 20IP)	FS2016 (Torx 25IP)

Shank tool – Radial grooving
G2012

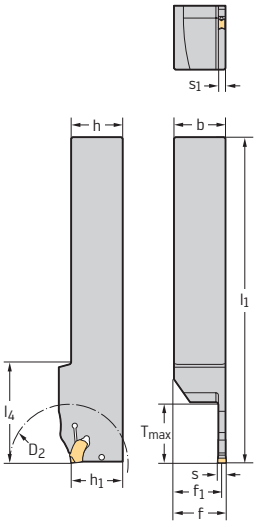
Walter Cut

– Self-clamping system





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
G2012.1212R/L-1.5T15SX	1.5	15	38	12	12	11.4	120	25	1.2	SX-1E1 ..
G2012.1616R/L-1.5T15SX		15	38	16	16	15.4	120	25	1.2	
G2012.2020R/L-1.5T15SX		15	38	20	20	19.4	120	25	1.2	
★ G2012.2525R/L-2T26SX	2	26	52	25	25	24.2	146	36	1.6	SX-2E2 ..
★ G2012.2525R/L-3T33SX	3	33	65	25	25	23.8	150	43	2.5	SX-3E3 ..

$f = f_1 + s/2$

Ordering example. right-hand tool: G2012.1212R-1.5T15SX/ordering example. left-hand tool: G2012.1212L-1.5T15SX

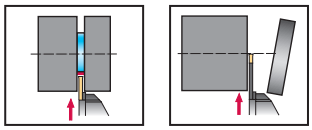
Accessories

	$h = h_1$ [mm]	12-20	25
	Mounting wrench for grooving insert	FS2249	FS1494

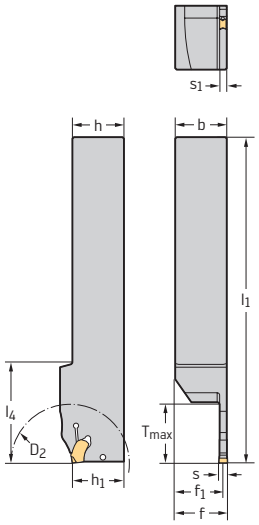
/ ★ New addition to the product range

Shank tool – Radial grooving
G2012 inch
Walter Cut

– Self-clamping system



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
G2012.08R/L-1.5T15SX		0.591	1.496	0.500	0.500	0.476	4.724	0.984	0.047	
G2012.10R/L-1.5T15SX	0.059	0.591	1.496	0.625	0.625	0.602	4.724	0.984	0.047	SX-1E1 ..
G2012.12R/L-1.5T15SX		0.591	1.496	0.750	0.750	0.726	4.724	0.984	0.047	
★ G2012.16R/L-2T26SX	0.079	1.024	2.047	1.000	1.000	0.969	5.748	1.417	0.061	SX-2E2 ..
★ G2012.16R/L-3T33SX	0.118	1.299	2.559	1.000	1.000	0.952	5.906	1.693	0.096	SX-3E3 ..

$f = f_1 + s/2$

Ordering example. right-hand tool: G2012.08R-1.5T15SX/ordering example. left-hand tool: G2012.08L-1.5T15SX

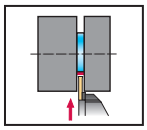
Accessories

	$h = h_1$ [inch]	0.500-0.750	1.000
	Mounting wrench for grooving insert	FS2249	FS1494

Reinforced parting blade G2042...R/L...-P

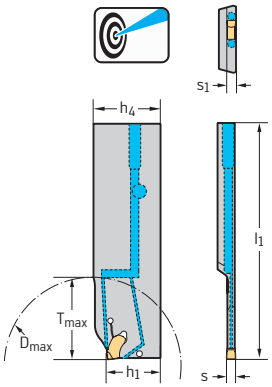
Walter Cut

– Self-clamping system
– Precision coolant



SX

Tool



Designation	s mm	T_{max} mm	D_{max} mm	h_4 mm	l_1 mm	h_1 mm	s_1 mm	Type
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

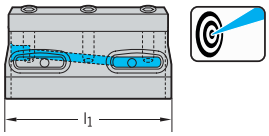
/ ★ New addition to the product range

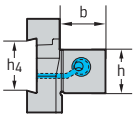
Clamping block with internal coolant channels G2661...-P

Walter Cut

– Precision coolant
– Clamping block for parting blades

Tool





Designation	h_4 mm	h mm	b mm	l_1 mm
G2661-1616N-26-P	26	16	16	95
G2661-2020N-26-P	26	20	20	95
G2661-2020N-32-P	32	20	20	95
G2661-2525N-32-P	32	25	25	95
G2661-3225N-32-P	32	32	25	95
★ G2661-3225N-52-P	52	32	25	140
★ G2661-4032N-52-P	52	40	32	140

For the connection set for internal coolant supply with G1/8" thread, see "Assembly parts and accessories"
The maximum recommended coolant pressure is 80 bar (1160 psi)
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

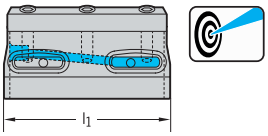
h_4 [mm]	26–32	52
Clamping wedge	PK260	PK263
Clamping screw	M06X020 ISO4762 12.9 (SW 5)	M08X025 ISO4762 12.9 (SW 6)
O-ring	O-RING 20X2	O-RING 27X2
G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
ISO 2936 key	ISO2936-5 (SW 5)	ISO2936-6 (SW 6)

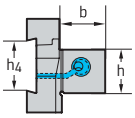
Clamping block with internal coolant channels
G2661...-P inch

Walter Cut

– Precision coolant
– Clamping block for parting blades

Tool





Designation	h_4 inch	h_4 mm	h_1 inch	b inch	l_1 inch
G2661.12N-26-P	1.024	26	0.750	0.750	3.740
★ G2661.16N-26-P	1.024	26	1.000	1.000	3.740
G2661.12N-32-P	1.260	32	0.750	0.750	3.740
G2661.16N-32-P	1.260	32	1.000	1.000	3.740
G2661.20N-32-P	1.260	32	1.250	1.250	3.740
★ G2661.20N-52-P	2.070	52	1.250	1.250	5.512
★ G2661.24N-52-P	2.070	52	1.500	1.500	5.512

For the connection set for internal coolant supply with G1/8" thread. see "Assembly parts and accessories"
The maximum recommended coolant pressure is 80 bar (1160 psi)
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

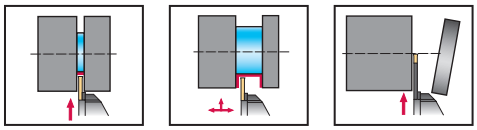
	h_4 [inch]	1.024–1.260	2.047
	Clamping wedge	PK260	PK263
	Clamping screw	M06X020 ISO4762 12.9 (SW 5)	M08X025 ISO4762 12.9 (SW 6)
	O-ring	O-RING 20X2	O-RING 27X2
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	ISO 2936 key	ISO2936-5 (SW 5)	ISO2936-6 (SW 6)

/ ★ New addition to the product range

Shank tool – Radial grooving
G3011...-P

Walter Cut

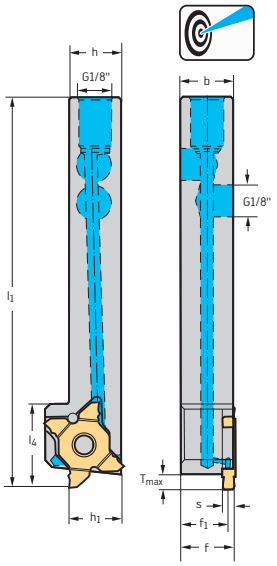
– Screw clamping
– Precision coolant

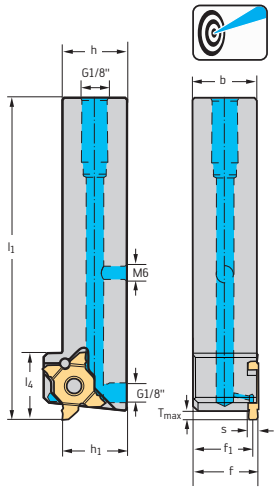


MX

Tool

Designation	s mm	T_{max} mm	$h = h_1$ mm	b mm	f_1 mm	l_1 mm	l_4 mm	Type
★ G3011-1616R/L-MX22-2-P	1–3.25	6	16	16	14.3	125	25	MX22-2E ..
★ G3011-2020R/L-MX22-2-P	1–3.25	6	20	20	18.3	125	25	MX22-2E ..
★ G3011-2525R/L-MX22-2-P		6	25	25	23.3	125	25	

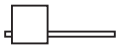




$f = f_1 + s/2$
For information on the maximum cutting depth T_{max}, see "Cutting inserts"
For the connection set for internal coolant supply with G1/8" thread, see "Assembly parts and accessories"
The maximum recommended coolant pressure is 150 bar (2175 psi)
Ordering example, right-hand tool: G3011-1616R-MX22-2-P / ordering example, left-hand tool: G3011-1616L-MX22-2-P
Bodies and assembly parts are included in the scope of delivery.

104

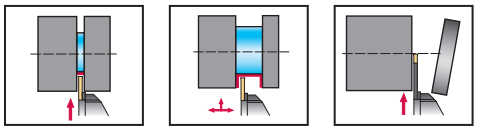
Assembly parts

	$h = h_1$ [mm]	16	20-25
	Clamping screw for grooving insert Tightening torque	FS1495 (Torx 20IP) 5.0 Nm	FS1495 (Torx 20IP) 5.0 Nm
	G 1/8" threaded plug	FS2258 (SW 5)	FS2258 (SW 5)
	M6 threaded plug		FS2288 (SW 3)
	Torx key	FS1464 (Torx 20IP)	FS1464 (Torx 20IP)

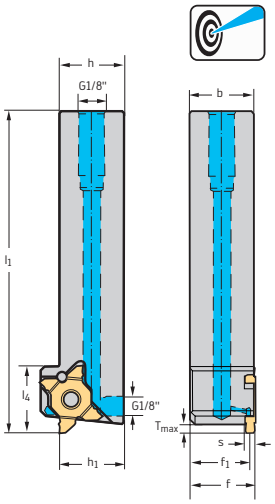
Shank tool – Radial grooving
G3011...-P inch

Walter Cut

– Screw clamping
– Precision coolant



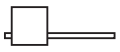
Tool



Designation	s inch	T_{max} inch	$h = h_1$ inch	b inch	f inch	l_4 inch	l_{21} inch	Type
★ G3011.12R/L-MX22-2-P	0.039–0.128	0.236	0.750	0.750	0.684	0.984	5.906	MX22-2E ..
★ G3011.16R/L-MX22-2-P		0.236	1.000	1.000	0.934	0.984	5.906	

$f = f_1 + s/2$
For information on the maximum cutting depth T_{max}, see "Cutting inserts"
For the connection set for internal 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: G3011.12R-MX22-2-P / ordering example, left-hand tool: G3011.12L-MX22-2-P
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	$h = h_1$ [inch]	0.750-1.000
	Clamping screw for grooving insert Tightening torque	FS1495 (Torx 20IP) 44 in lb
	G 1/8" threaded plug	FS2258 (SW 5)
	Torx key	FS1464 (Torx 20IP)

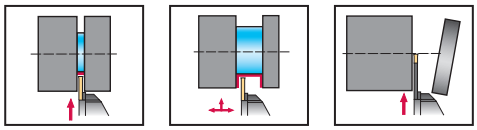
104

★ New addition to the product range

Shank tool – 90° radial grooving G3021...-P

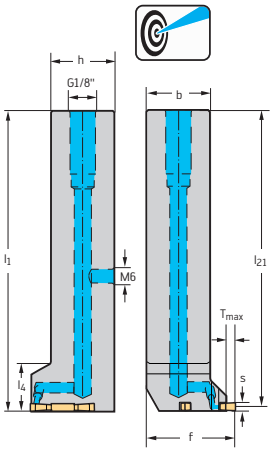
Walter Cut

– Screw clamping
– Precision coolant



MX

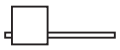
Tool



Designation	s mm	T_{max} mm	$h = h_1$ mm	b mm	f mm	l_4 mm	l_{21} mm	Type
★ G3021-2020R/L-MX22-2-P	1–3.25	6	20	20	30	20	116.3	MX22-2E ..
★ G3021-2525R/L-MX22-2-P		6	25	25	35	20	116.3	

$l_1 = l_{21} + s/2$
For information on the maximum cutting depth T_{max}, see "Cutting inserts"
For the connection set for internal 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: G3021-2020R-MX22-2-P / ordering example, left-hand tool: G3021-2020L-MX22-2-P
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

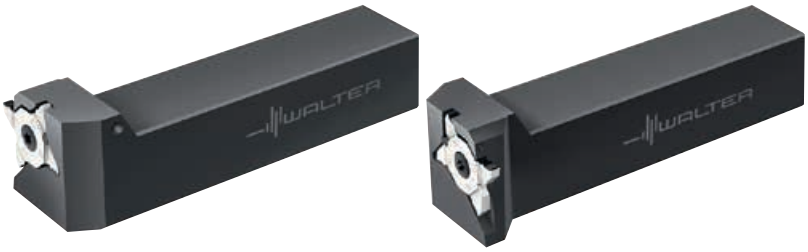
	$h = h_1$ [mm]	20-25
	Clamping screw for grooving insert Tightening torque	FS1495 (Torx 20IP) 5.0 Nm
	G 1/8" threaded plug	FS2258 (SW 5)
	Torx key	FS1464 (Torx 20IP)

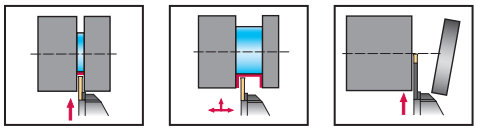
104

Shank tool – 90° radial grooving
G3021...-P inch

Walter Cut

– Screw clamping
– Precision coolant

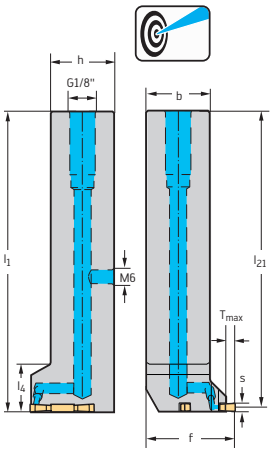




MX

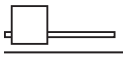
Tool

Designation	s inch	T_{max} inch	$h = h_1$ inch	b inch	f inch	l_4 inch	l_{21} inch	Type
★ G3021.16R/L-MX22-2-P	0.039–0.128	0.236	1.000	1.000	1.394	0.787	4.580	MX22-2E ..



$l_1 = l_{21} + s/2$
For information on the maximum cutting depth T_{max}, see “Cutting inserts”
For the connection set for internal 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: G3021.16R-MX22-2-P / ordering example, left-hand tool: G3021.16L-MX22-2-P
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	FS1495 (Torx 20IP) 44 in lb
	G 1/8" threaded plug	FS2258 (SW 5)
	Torx key	FS1464 (Torx 20IP)

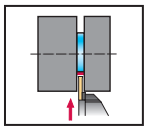
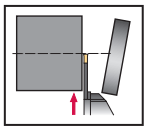
104

★ New addition to the product range

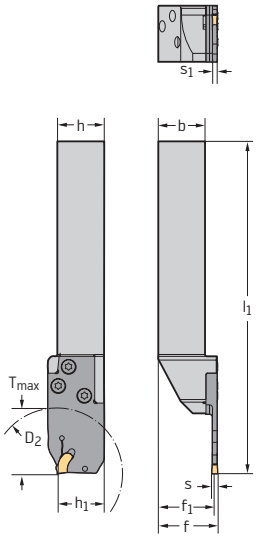
Shank tool – Radial grooving
G2612

Walter Cut

– Self-clamping system

Tool



Designation	s mm	T_{max} mm	D_2 mm	$h = h_1$ mm	b mm
G2612-2020R/L-2T20SX	2	20	66	20	20
G2612-2525R/L-2T20SX		20	90	25	25
G2612-2020R/L-3T20SX	3	20	66	20	20
G2612-2525R/L-3T25SX		25	90	25	25
G2612-2525R/L-3T35SX		35	90	25	25
G2612-3225R/L-3T45SX		45	100	32	25
G2612-2020R/L-4T20SX	4	20	66	20	20
G2612-2525R/L-4T35SX		35	90	25	25
G2612-3225R/L-4T45SX		45	100	32	25
G2612-2525R/L-5T35SX	5	35	90	25	25
G2612-3225R/L-5T45SX		45	100	32	25
G2612-2525R/L-6T35SX	6	35	90	25	25
G2612-3225R/L-6T45SX		45	100	32	25
G2612-3225R/L-8T45SX	8	45	100	32	25

$f = f_1 + s/2$
For information on T_{max} with diameters larger than D_2, see "Technical information – Grooving"
Right-hand tool = right-hand toolholder + right-hand module/left-hand tool = left-hand toolholder + left-hand module
Ordering example, right-hand tool: G2612-2020R-2T20SX/ordering example, left-hand tool: G2612-2020L-2T20SX
Bodies and assembly parts are included in the scope of delivery.

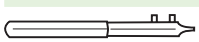
Assembly parts

	Module size	E20	E25	E32
	Screw for grooving module Tightening torque	FS1053 (Torx 15) 2.0 Nm	FS1054 (Torx 20) 3.0 Nm	FS1055 (Torx 25) 3.0 Nm
	Handle key	FS1047 (Torx 15)	FS1048 (Torx 20)	FS1049 (Torx 25)

SX

f_1 mm	l_1 mm	s_1 mm	Module size	Type	Grooving module	Toolholder
23.8	132	1.6	E20	SX-2E2 ..	G2632-E20R/L-2T20SX	MSS-E20R/L00-2020J
30.6	163	1.6	E25		G2632-E25R/L-2T20SX	MSS-E25R/L00-2525L
23.4	132	2.4	E20	SX-3E3 ..	G2632-E20R/L-3T20SX	MSS-E20R/L00-2020J
30.2	170	2.4	E25		G2632-E25R/L-3T25SX	MSS-E25R/L00-2525L
30.2	178	2.4	E25		G2632-E25R/L-3T35SX	MSS-E25R/L00-2525L
30.2	208	2.4	E32		G2632-E32R/L-3T45SX	MSS-E32R/L00-3225N
22.5	132	3.4	E20	SX-4E4 ..	G2632-E20R/L-4T20SX	MSS-E20R/L00-2020J
29.7	178	3.4	E25		G2632-E25R/L-4T35SX	MSS-E25R/L00-2525L
29.7	208	3.4	E32		G2632-E32R/L-4T45SX	MSS-E32R/L00-3225N
29.3	178	4.3	E25	SX-5E ..	G2632-E25R/L-5T35SX	MSS-E25R/L00-2525L
29.3	208	4.3	E32		G2632-E32R/L-5T45SX	MSS-E32R/L00-3225N
28.3	178	5.3	E25	SX-6E6 ..	G2632-E25R/L-6T35SX	MSS-E25R/L00-2525L
28.8	208	5.3	E32		G2632-E32R/L-6T45SX	MSS-E32R/L00-3225N
28.9	208	6.8	E32	SX-8E8 ..	G2632-E32N-8T45SX	MSS-E32R/L00-3225N

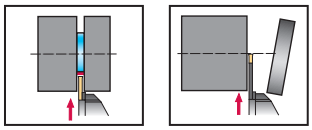
Accessories

	Module size s [mm]	E20 2–4	E25 2–6	E32 3–6	E32 8
	Mounting wrench for grooving insert	FS1494	FS1494	FS1494	FS2274

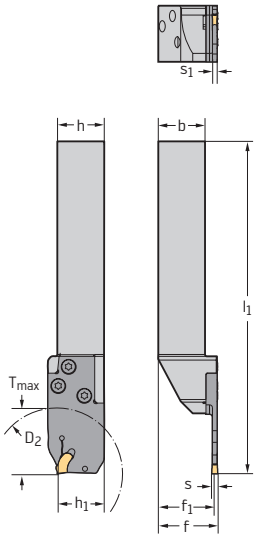
Shank tool – Radial grooving
G2612 inch

Walter Cut

– Self-clamping system



Tool



Designation	s inch	T_{max} inch	D_2 inch	$h = h_1$ inch	b inch
G2612.12R/L-2T20SX	0.079	0.787	2.598	0.750	0.750
G2612.16R/L-2T20SX		0.787	3.543	1.000	1.000
G2612.12R/L-3T20SX	0.118	0.787	2.598	0.750	0.750
G2612.16R/L-3T25SX		0.984	3.543	1.000	1.000
G2612.16R/L-3T35SX		1.378	3.543	1.000	1.000
G2612.20R/L-3T45SX		1.772	3.937	1.250	1.000
G2612.12R/L-4T20SX	0.157	0.787	2.598	0.750	0.750
G2612.16R/L-4T35SX		1.378	3.543	1.000	1.000
G2612.20R/L-4T45SX		1.772	3.937	1.250	1.000
G2612.16R/L-5T35SX	0.197	1.378	3.543	1.000	1.000
G2612.20R/L-5T45SX		1.772	3.937	1.250	1.000
G2612.16R/L-6T35SX	0.236	1.378	3.543	1.000	1.000
G2612.20R/L-6T45SX		1.772	3.937	1.250	1.000
G2612.20R/L-8T45SX	0.315	1.772	3.937	1.250	1.000

$f = f_1 + s/2$
For information on T_{max} with diameters larger than D_2, see "Technical information – Grooving"
Right-hand tool = right-hand toolholder + left-hand module/left-hand tool = left-hand toolholder + right-hand module
Ordering example, right-hand tool: G2612.12R-2T20SX/ordering example, left-hand tool: G2612.12L-2T20SX
Bodies and assembly parts are included in the scope of delivery.

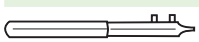
Assembly parts

	Module size	E20	E25	E32
	Screw for grooving module Tightening torque	FS1053 (Torx 15) 18 in lb	FS1054 (Torx 20) 27 in lb	FS1055 (Torx 25) 27 in lb
	Handle key	FS1047 (Torx 15)	FS1048 (Torx 20)	FS1049 (Torx 25)

SX

	f_1 inch	l_1 inch	s_1 inch	Module size	Type	Grooving module	Toolholder
	0.898	5.366	0.063	E20	SX-2E2 ..	G2632-E20R/L-2T20SX	MSS-E20R/L00-12-E
	1.220	6.406	0.063	E25		G2632-E25R/L-2T20SX	MSS-E25R/L00-16-E
	0.882	5.366	0.094	E20	SX-3E3 ..	G2632-E20R/L-3T20SX	MSS-E20R/L00-12-E
	1.205	6.602	0.094	E25		G2632-E25R/L-3T25SX	MSS-E25R/L00-16-E
	1.185	6.996	0.134	E25		G2632-E25R/L-3T35SX	MSS-E25R/L00-16-E
	1.205	8.390	0.094	E32		G2632-E32R/L-3T45SX	MSS-E32R/L00-85-E
	0.862	5.366	0.134	E20	SX-4E4 ..	G2632-E20R/L-4T20SX	MSS-E20R/L00-12-E
	1.185	6.996	0.134	E25		G2632-E25R/L-4T35SX	MSS-E25R/L00-16-E
	1.185	8.390	0.134	E32		G2632-E32R/L-4T45SX	MSS-E32R/L00-85-E
	1.167	6.996	0.169	E25	SX-5E ..	G2632-E25R/L-5T35SX	MSS-E25R/L00-16-E
	1.167	8.390	0.169	E32		G2632-E32R/L-5T45SX	MSS-E32R/L00-85-E
	1.148	6.996	0.209	E25	SX-6E6 ..	G2632-E25R/L-6T35SX	MSS-E25R/L00-16-E
	1.148	8.390	0.209	E32		G2632-E32R/L-6T45SX	MSS-E32R/L00-85-E
	1.154	8.390	0.268	E32	SX-8E8 ..	G2632-E32N-8T45SX	MSS-E32R/L00-85-E

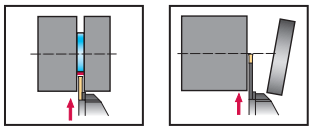
Accessories

	Module size s [inch]	E20 0.079–0.157	E25 0.079–0.236	E32 0.118–0.236	E32 0.315
	Mounting wrench for grooving insert	FS1494	FS1494	FS1494	FS2274

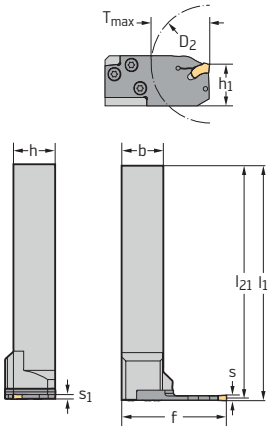
Shank tool – 90° radial grooving
G2622

Walter Cut

– Self-clamping system



Tool



Designation	s mm	T_{max} mm	D_2 mm	$h = h_1$ mm	b mm
G2622-2020R/L-2T20SX	2	20	66	20	20
G2622-2525R/L-2T20SX		20	90	25	25
G2622-2020R/L-3T20SX	3	20	66	20	20
G2622-2525R/L-3T25SX		25	90	25	25
G2622-2525R/L-3T35SX		35	90	25	25
G2622-3225R/L-3T45SX		45	100	32	25
G2622-2020R/L-4T20SX	4	20	66	20	20
G2622-2525R/L-4T35SX		35	90	25	25
G2622-3225R/L-4T45SX		45	100	32	25
G2622-2525R/L-5T35SX	5	32	90	25	25
G2622-3225R/L-5T45SX		45	100	32	25
G2622-2525R/L-6T35SX	6	35	90	25	25
G2622-3225R/L-6T45SX		45	100	32	25
G2622-3225R/L-8T45SX	8	45	100	32	25

$l_1 = l_{21} + s/2$
For information on T_{max} with diameters larger than D_2. see "Technical information – Grooving"
Right-hand tool = right-hand toolholder + left-hand module/left-hand tool = left-hand toolholder + right-hand module
Ordering example. right-hand tool: G2622-2020R-2T20SX/ordering example. left-hand tool: G2622-2020L-2T20SX
Bodies and assembly parts are included in the scope of delivery.

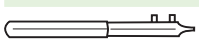
Assembly parts

	Module size	E20	E25	E32
	Screw for grooving module Tightening torque	FS1053 (Torx 15) 2.0 Nm	FS1054 (Torx 20) 3.0 Nm	FS1055 (Torx 25) 3.0 Nm
	Handle key	FS1047 (Torx 15)	FS1048 (Torx 20)	FS1049 (Torx 25)

SX

	f mm	l_{21} mm	s_1 mm	Module size	Type	Grooving module	Toolholder
	42	109.5	1.6	E20	SX-2E2 ..	G2632-E20R/L-2T20SX	MSS-E20R/L90-2020J
	48	139.6	1.6	E25		G2632-E25R/L-2T20SX	MSS-E25R/L90-2525L
	42	109.1	2.4	E20	SX-3E3 ..	G2632-E20R/L-3T20SX	MSS-E20R/L90-2020J
	53	139.2	2.4	E25		G2632-E25R/L-3T25SX	MSS-E25R/L90-2525L
	63	139.2	2.4	E25		G2632-E25R/L-3T35SX	MSS-E25R/L90-2525L
	80	159.2	2.4	E32		G2632-E32R/L-3T45SX	MSS-E32R/L90-3225N
	42	108.6	3.4	E20	SX-4E4 ..	G2632-E20R/L-4T20SX	MSS-E20R/L90-2020J
	63	138.8	3.4	E25		G2632-E25R/L-4T35SX	MSS-E25R/L90-2525L
	80	158.7	3.4	E32		G2632-E32R/L-4T45SX	MSS-E32R/L90-3225N
	63	138.3	4.3	E25	SX-5E ..	G2632-E25R/L-5T35SX	MSS-E25R/L90-2525L
	80	158.3	4.3	E32		G2632-E32R/L-5T45SX	MSS-E32R/L90-3225N
	63	137.8	5.3	E25	SX-6E6 ..	G2632-E25R/L-6T35SX	MSS-E25R/L90-2525L
	80	157.8	5.3	E32		G2632-E32R/L-6T45SX	MSS-E32R/L90-3225N
	80	163.8	6.8	E32	SX-8E8 ..	G2632-E32N-8T45SX	MSS-E32R/L90-3225N

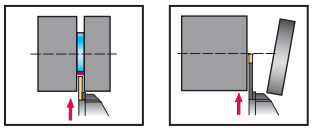
Accessories

	Module size s [mm]	E20 2–4	E25 2–6	E32 3–6	E32 8
	Mounting wrench for grooving insert	FS1494	FS1494	FS1494	FS2274

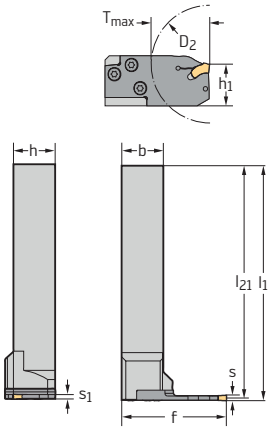
Shank tool – 90° radial grooving
G2622 inch

Walter Cut

– Self-clamping system



Tool



Designation	s inch	T_{max} inch	D_2 inch	$h = h_1$ inch	b inch
G2622.12R/L-2T20SX	0.079	0.787	2.598	0.750	0.750
G2622.16R/L-2T20SX		0.787	3.543	1.000	1.000
G2622.12R/L-3T20SX	0.118	0.787	2.598	0.750	0.750
G2622.16R/L-3T25SX		0.984	3.543	1.000	1.000
G2622.16R/L-3T35SX		1.378	3.543	1.000	1.000
G2622.20R/L-3T45SX		1.772	3.937	1.250	1.000
G2622.12R/L-4T20SX	0.157	0.787	2.598	0.750	0.750
G2622.16R/L-4T35SX		1.378	3.543	1.000	1.000
G2622.20R/L-4T45SX		1.772	3.937	1.250	1.000
G2622.16R/L-5T35SX	0.197	1.378	3.543	1.000	1.000
G2622.20R/L-5T45SX		1.772	3.937	1.250	1.000
G2622.16R/L-6T35SX	0.236	1.378	3.543	1.000	1.000
G2622.20R/L-6T45SX		1.772	3.937	1.250	1.000
G2622.20R/L-8T45SX	0.315	1.772	3.937	1.250	1.000

$l_1 = l_{21} + s/2$
Ordering example, right-hand tool: G2622.12R-2T20SX/ordering example, left-hand tool: G2622.12L-2T20SX
Bodies and assembly parts are included in the scope of delivery.

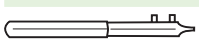
Assembly parts

	Module size	E20	E25	E32
	Screw for grooving module Tightening torque	FS1053 (Torx 15) 18 in lb	FS1054 (Torx 20) 27 in lb	FS1055 (Torx 25) 27 in lb
	Handle key	FS1047 (Torx 15)	FS1048 (Torx 20)	FS1049 (Torx 25)

SX

f inch	l_{21} inch	s_1 inch	Module size	Type	Grooving module	Toolholder
1.654	4.480	0.063	E20	SX-2E2 ..	G2632-E20R/L-2T20SX	MSS-E20R/L90-12-E
1.890	5.484	0.063	E25		G2632-E25R/L-2T20SX	MSS-E25R/L90-16-E
1.654	4.465	0.094	E20	SX-3E3 ..	G2632-E20R/L-3T20SX	MSS-E20R/L90-12-E
2.087	5.469	0.094	E25		G2632-E25R/L-3T25SX	MSS-E25R/L90-16-E
2.480	5.469	0.094	E25		G2632-E25R/L-3T35SX	MSS-E25R/L90-16-E
3.150	6.469	0.094	E32		G2632-E32R/L-3T45SX	MSS-E32R/L90-85-E
1.654	4.445	0.134	E20	SX-4E4 ..	G2632-E20R/L-4T20SX	MSS-E20R/L90-12-E
2.480	5.449	0.134	E25		G2632-E25R/L-4T35SX	MSS-E25R/L90-16-E
3.150	6.449	0.134	E32		G2632-E32R/L-4T45SX	MSS-E32R/L90-85-E
2.480	5.431	0.169	E25	SX-5E ..	G2632-E25R/L-5T35SX	MSS-E25R/L90-16-E
3.150	6.431	0.169	E32		G2632-E32R/L-5T45SX	MSS-E32R/L90-85-E
2.480	5.411	0.209	E25	SX-6E6 ..	G2632-E25R/L-6T35SX	MSS-E25R/L90-16-E
3.150	6.411	0.209	E32		G2632-E32R/L-6T45SX	MSS-E32R/L90-85-E
3.150	6.335	0.268	E32	SX-8E8 ..	G2632-E32N-8T45SX	MSS-E32R/L90-85-E

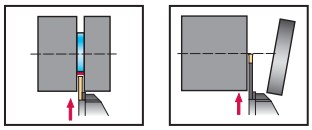
Accessories

	Module size s [inch]	E20 0.079–0.157	E25 0.079–0.236	E32 0.118–0.236	E32 0.315
	Mounting wrench for grooving insert	FS1494	FS1494	FS1494	FS2274

Groove turning holders – Radial grooving
C...-G2612

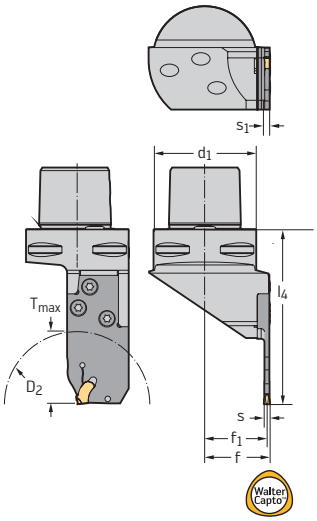
Walter Cut

– Walter Capto™
– Self-clamping system



Tool

Walter Capto™ in acc. with ISO 26623



Designation	s mm	T_{max} mm	D_2 mm	d_1	
G2612-C3R/L-2T20SX	2	20	66	C3	
G2612-C4R/L-2T20SX		20	90	C4	
G2612-C5R/L-2T20SX		20	90	C5	
G2612-C3R/L-3T20SX	3	20	66	C3	
G2612-C4R/L-3T25SX		25	90	C4	
G2612-C5R/L-3T25SX		25	90	C5	
G2612-C4R/L-3T35SX		35	90	C4	
G2612-C5R/L-3T35SX		35	90	C5	
G2612-C6R/L-3T35SX		35	100	C6	
G2612-C6R/L-3T45SX		45	100	C6	
G2612-C3R/L-4T20SX	4	20	66	C3	
G2612-C4R/L-4T35SX		35	90	C4	
G2612-C5R/L-4T35SX		35	90	C5	
G2612-C6R/L-4T35SX		35	100	C6	
G2612-C6R/L-4T45SX		45	100	C6	
G2612-C4R/L-5T35SX	5	35	90	C4	
G2612-C5R/L-5T35SX		35	100	C5	
G2612-C6R/L-5T35SX		35	100	C6	
G2612-C6R/L-5T45SX		45	100	C6	
G2612-C4R/L-6T35SX	6	35	90	C4	
G2612-C5R/L-6T35SX		35	100	C5	
G2612-C6R/L-6T35SX		35	100	C6	
G2612-C6R/L-6T45SX		45	100	C6	
G2612-C6R/L-8T45SX	8	45	100	C6	

$f = f_1 + s/2$
Right-hand tool = right-hand toolholder + right-hand module/left-hand tool = left-hand toolholder + left-hand module
Ordering example, right-hand tool: G2612-C3R-2T20SX/ordering example, left-hand tool: G2612-C3L-2T20SX
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	Module size d_1	E20 C3	E25 C4	E25 C5/C6	E32 C6
	Cooling lubricant nozzle	FS1477	FS1477	FS1476	FS1476
	Screw for grooving module Tightening torque	FS1053 (Torx 15) 2.0 Nm	FS1054 (Torx 20) 3.0 Nm	FS1054 (Torx 20) 3.0 Nm	FS1055 (Torx 25) 3.0 Nm
	Handle key	FS1047 (Torx 15)	FS1048 (Torx 20)	FS1048 (Torx 20)	FS1049 (Torx 25)

SX

f_1 mm	l_4 mm	s_1 mm	Module size	Type	Grooving module	Toolholder
19.6	59	1.6	E20	SX-2E2 ..	G2632-E20R/L-2T20SX	C3-MSS-E20R/L00
25.6	71	1.6	E25		G2632-E25R/L-2T20SX	C4-MSS-E25R/L00
30.6	71	1.6	E25		G2632-E25R/L-2T20SX	C5-MSS-E25R/L00
19.2	59	2.4	E20	SX-3E3 ..	G2632-E20R/L-3T20SX	C3-MSS-E20R/L00
25.2	76	2.4	E25		G2632-E25R/L-3T25SX	C4-MSS-E25R/L00
30.2	76	2.4	E25		G2632-E25R/L-3T25SX	C5-MSS-E25R/L00
25.2	86	2.4	E25		G2632-E25R/L-3T35SX	C4-MSS-E25R/L00
30.2	86	2.4	E25		G2632-E25R/L-3T35SX	C5-MSS-E25R/L00
36.2	92	2.4	E25		G2632-E25R/L-3T35SX	C6-MSS-E25R/L00
36.2	102	2.4	E32		G2632-E32R/L-3T45SX	C6-MSS-E32R/L00
18.7	59	3.4	E20	SX-4E4 ..	G2632-E20R/L-4T20SX	C3-MSS-E20R/L00
24.7	86	3.4	E25		G2632-E25R/L-4T35SX	C4-MSS-E25R/L00
29.7	86	3.4	E25		G2632-E25R/L-4T35SX	C5-MSS-E25R/L00
35.7	92	3.4	E25		G2632-E25R/L-4T35SX	C6-MSS-E25R/L00
35.7	102	3.4	E32		G2632-E32R/L-4T45SX	C6-MSS-E32R/L00
24.3	86	4.3	E25	SX-5E ..	G2632-E25R/L-5T35SX	C4-MSS-E25R/L00
29.3	86	4.3	E25		G2632-E25R/L-5T35SX	C5-MSS-E25R/L00
35.3	92	4.3	E25		G2632-E25R/L-5T35SX	C6-MSS-E25R/L00
35.3	102	4.3	E32		G2632-E32R/L-5T45SX	C6-MSS-E32R/L00
23.8	86	5.3	E25	SX-6E6 ..	G2632-E25R/L-6T35SX	C4-MSS-E25R/L00
28.8	86	5.3	E25		G2632-E25R/L-6T35SX	C5-MSS-E25R/L00
34.8	92	5.3	E25		G2632-E25R/L-6T35SX	C6-MSS-E25R/L00
34.8	102	5.3	E32		G2632-E32R/L-6T45SX	C6-MSS-E32R/L00
34.9	102	6.8	E32	SX-8E8 ..	G2632-E32N-8T45SX	C6-MSS-E32R/L00

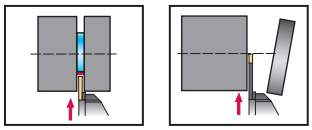
Accessories

Module size s [mm]	E20 2–4	E25 2–6	E32 3–6	E32 8
Mounting wrench for grooving insert	FS1494	FS1494	FS1494	FS2274

Groove turning holders – Radial grooving 90°
C...-G2622

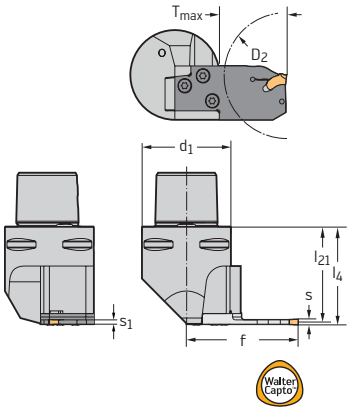
Walter Cut

– Walter Capto™
– Self-clamping system



Tool

Walter Capto™ in acc. with ISO 26623



Designation	s mm	T_{max} mm	D_2 mm	d_1
G2622-C3R/L-2T20SX	2	20	66	C3
G2622-C4R/L-2T20SX		20	90	C4
G2622-C5R/L-2T20SX		20	90	C5
G2622-C3R/L-3T20SX	3	20	66	C3
G2622-C4R/L-3T25SX		25	90	C4
G2622-C5R/L-3T25SX		25	90	C5
G2622-C4R/L-3T35SX		35	90	C4
G2622-C5R/L-3T35SX		35	90	C5
G2622-C6R/L-3T45SX		45	100	C6
G2622-C3R/L-4T20SX	4	20	66	C3
G2622-C4R/L-4T35SX		35	90	C4
G2622-C5R/L-4T35SX		35	90	C5
G2622-C6R/L-4T45SX		45	100	C6
G2622-C4R/L-5T35SX	5	35	90	C4
G2622-C5R/L-5T35SX		35	90	C5
G2622-C6R/L-5T45SX		45	100	C6
G2622-C4R/L-6T35SX	6	35	90	C4
G2622-C5R/L-6T35SX		35	90	C5
G2622-C6R/L-6T45SX		45	100	C6
G2622-C6R/L-8T45SX	8	45	100	C6

$l_4 = l_{21} + s/2$
Right-hand tool = right-hand toolholder + left-hand module/left-hand tool = left-hand toolholder + right-hand module
Ordering example, right-hand tool: G2622-C3R-2T20SX/ordering example, left-hand tool: G2622-C3L-2T20SX
Bodies and assembly parts are included in the scope of delivery.

Assembly parts

	Module size d_1	E20 C3	E25 C4	E25 C5	E32 C6
	Cooling lubricant nozzle	FS1477	FS1477	FS1476	FS1476
	Screw for grooving module Tightening torque	FS1053 (Torx 15) 2.0 Nm	FS1054 (Torx 20) 3.0 Nm	FS1054 (Torx 20) 3.0 Nm	FS1055 (Torx 25) 3.0 Nm
	Handle key	FS1047 (Torx 15)	FS1048 (Torx 20)	FS1048 (Torx 20)	FS1049 (Torx 25)

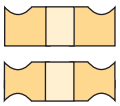
SX

	f mm	l_{21} mm	s_1 mm	Module size	Type	Grooving module	Toolholder
	42	35.6	1.6	E20	SX-2E2 ..	G2632-E20R/L-2T20SX	C3-MSS-E20R/L90
	42	53.6	1.6	E25		G2632-E25R/L-2T20SX	C4-MSS-E25R/L90
	48	53.6	1.6	E25		G2632-E25R/L-2T20SX	C5-MSS-E25R/L90
	42	35.2	2.4	E20	SX-3E3 ..	G2632-E20R/L-3T20SX	C3-MSS-E20R/L90
	53	52.2	2.4	E25		G2632-E25R/L-3T25SX	C4-MSS-E25R/L90
	53	53.2	2.4	E25		G2632-E25R/L-3T25SX	C5-MSS-E25R/L90
	63	52.2	2.4	E25		G2632-E25R/L-3T35SX	C4-MSS-E25R/L90
	63	53.2	2.4	E25		G2632-E25R/L-3T35SX	C5-MSS-E25R/L90
	80	61.7	2.4	E32		G2632-E32R/L-3T45SX	C6-MSS-E32R/L90
	42	34.7	3.4	E20	SX-4E4 ..	G2632-E20R/L-4T20SX	C3-MSS-E20R/L90
	63	52.7	3.4	E25		G2632-E25R/L-4T35SX	C4-MSS-E25R/L90
	63	52.7	3.4	E25		G2632-E25R/L-4T35SX	C5-MSS-E25R/L90
	80	61.2	3.4	E32		G2632-E32R/L-4T45SX	C6-MSS-E32R/L90
	63	52.3	4.3	E25	SX-5E ..	G2632-E25R/L-5T35SX	C4-MSS-E25R/L90
	63	52.3	4.3	E25		G2632-E25R/L-5T35SX	C5-MSS-E25R/L90
	80	60.8	4.3	E32		G2632-E32R/L-5T45SX	C6-MSS-E32R/L90
	63	51.8	5.3	E25	SX-6E6 ..	G2632-E25R/L-6T35SX	C4-MSS-E25R/L90
	63	51.8	5.3	E25		G2632-E25R/L-6T35SX	C5-MSS-E25R/L90
	80	60.3	5.3	E32		G2632-E32R/L-6T45SX	C6-MSS-E32R/L90
	80	60.4	6.8	E32	SX-8E8 ..	G2632-E32N-8T45SX	C6-MSS-E32R/L90

Accessories

	Module size s [mm]	E20 2–4	E25 2–6	E32 3–6	E32 8
	Mounting wrench for grooving insert	FS1494	FS1494	FS1494	FS2274

Cutting data for turning inserts – Negative basic shape
Carbide grades



= Cutting data for wet machining
= Dry machining is possible.

Material group	Overview of the main material groups and code letters			Brinell hardness HB	Tensile strength R_m N/mm²	Machining group [1]			Cutting material grades Starting values for cutting speed v_c [SFM] HC WSM01 f [inch/rev]		
									0.004	0.008	0.016
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	●	790	750	
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	●●	●	620	560	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	●●	●	520	460	
		C > 0.55%	Annealed	190	640	P4	●●	●	490	460	
		C > 0.55%	Heat-treated	300	1010	P5	●●	●			
		Free cutting steel (short-chipping)	Annealed	220	750	P6	●●	●	690	620	
	Low-alloyed steel	Annealed		175	590	P7	●●	●	490	430	
		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	●●	●	460	390	
		Hardened and tempered		300	1010	P12	●●	●			
		Hardened and tempered		380	1280	P13	●●	●			
	Stainless steel	Ferritic/martensitic, annealed		200	680	P14	●●	●	660	590	490
		Martensitic, heat-treated		330	1110	P15	●●	●	490	390	330
M	Stainless steel	Austenitic, quench hardened		200	680	M1	●●	●	820	590	390
		Austenitic, precipitation hardened (PH)		300	1010	M2	●●	●	490	430	
		Austenitic/ferritic, duplex		230	780	M3	●●	●	520	460	330
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	Aluminum wrought alloys	Cannot be hardened		30	–	N1					
		Hardenable, hardened		100	340	N2					
	Cast aluminum alloys	≤ 12% Si, cannot be hardened		75	260	N3					
		≤ 12% Si, hardenable, hardened		90	310	N4					
		> 12% Si, cannot be hardened		130	450	N5					
	Magnesium alloys [3]			70	250	N6					
	Copper and copper alloys (bronze/brass)	Non-alloyed, electrolytic copper		100	340	N7					
		Brass, bronze, red brass		90	310	N8					
		Cu-alloys, short-chipping		110	380	N9					
		High-strength, Ampco		300	1010	N10					
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	●●	●	330	230	
			Hardened	280	940	S2	●●	●	260	200	
		Ni or Co base	Annealed	250	840	S3	●●	●	260	200	
			Hardened	350	1180	S4	●●	●	230	160	
			Cast	320	1080	S5	●●	●	200	130	
	Titanium alloys	Pure titanium		200	680	S6	●●	●			
		α and β alloys, hardened		375	1260	S7	●●	●	260	180	
		β alloys		410	1400	S8	●●	●	160	130	
	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					
	Thermosetting plastics	Without abrasive fillers				O2					
	Plastic, glass fiber reinforced	GFRP				O3					
	Plastic, carbon fiber reinforced	CFRP				O4					
	Plastic, aramid fiber 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)

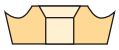
Note: If dry machining is possible, the tool life is reduced by 20–30% on average

[1] The classification of the machining groups can be found in the Walter General Catalog 2012 from page H 8 onwards.
[3] Water-miscible coolants must not be used when machining magnesium alloys.

Cutting material grades									
Starting values for cutting speed v_c [SFM]									
HC									
WSM10S			WSM20S			WSM30S			
f [inch/rev]			f [inch/rev]			f [inch/rev]			
0.004	0.012	0.020	0.004	0.012	0.020	0.004	0.012	0.020
890	820		750	720		720	660	
690	620		590	520		520	490	
590	520		490	430		430	360	
590	520		460	430		430	390	
790	720		660	590		590	520	
560	490		460	390		390	330	
560	490		430	360		360	300	
660	590	490	620	560	460	560	490	390
560	390	360	460	360	330	360	330	260
850	690	430	790	560	360	660	460	300
520	460		460	390		360	300	
560	490	360	490	430	300	430	360	230
330	210		300	200		260	160	
260	180		230	160		200	130	
260	180		230	160		200	100	
230	150		200	130		160	100	
200	110		160	100		130	70	
			230	150	130			
			130	100	80			

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

Cutting data for turning inserts – Positive basic shape
Carbide grades



= Cutting data for wet machining
= Dry machining is possible.

Material group	Overview of the main material groups and code letters			Brinell hardness HB	Tensile strength R_m N/mm²	Machining group [1]			Cutting material grades Starting values for cutting speed v_c [SFM] HC WSM01 f [inch/rev]		
									0.004	0.008	0.016
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	●●	●	790	720	
		C > 0.25... ≤ 0.55%	Annealed	190	640	P2	●●	●	590	520	
		C > 0.25... ≤ 0.55%	Heat-treated	210	710	P3	●●	●	460	430	
		C > 0.55%	Annealed	190	640	P4	●●	●	490	430	
		C > 0.55%	Heat-treated	300	1010	P5	●●	●			
		Free cutting steel (short-chipping)	Annealed	220	750	P6	●●	●	620	560	
	Low-alloyed steel	Annealed		175	590	P7	●●	●	430	360	
		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	●●	●	460	360	
		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	●●	●	690	620	330
		Austenitic, precipitation hardened (PH)		300	1010	M2	●●	●	490	430	300
		Austenitic/ferritic, duplex		230	780	M3	●●	●	520	460	300
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	Aluminum wrought alloys	Cannot be hardened		30	–	N1	●●	●	9840	7870	5910
		Hardenable, hardened		100	340	N2	●●	●	2950	2360	1180
	Cast aluminum alloys	≤ 12% Si, cannot be hardened		75	260	N3	●●	●	3150	1770	1180
		≤ 12% Si, hardenable, hardened		90	310	N4	●●	●	1970	1180	790
		> 12% Si, cannot be hardened		130	450	N5					
	Magnesium alloys [3]			70	250	N6					
	Copper and copper alloys (bronze/brass)	Non-alloyed, electrolytic copper		100	340	N7	●●	●	2360	1570	1050
		Brass, bronze, red brass		90	310	N8	●●	●	1570	1180	980
		Cu-alloys, short-chipping		110	380	N9	●●	●	1120	790	520
		High-strength, Ampco		300	1010	N10					
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1	●●	●	300	230	
			Hardened	280	940	S2	●●	●	230	200	
		Ni or Co base	Annealed	250	840	S3	●●	●	230	200	
			Hardened	350	1180	S4	●●	●	200	160	
			Cast	320	1080	S5	●●	●	160	130	
	Titanium alloys	Pure titanium		200	680	S6	●●	●			
		α and β alloys, hardened		375	1260	S7	●●	●	230	160	
		β alloys		410	1400	S8	●●	●	130	100	
	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					
	Thermosetting plastics	Without abrasive fillers				O2					
	Plastic, glass fiber reinforced	GFRP				O3					
	Plastic, carbon fire reinforced	CFRP				O4					
	Plastic, aramid fiber 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)

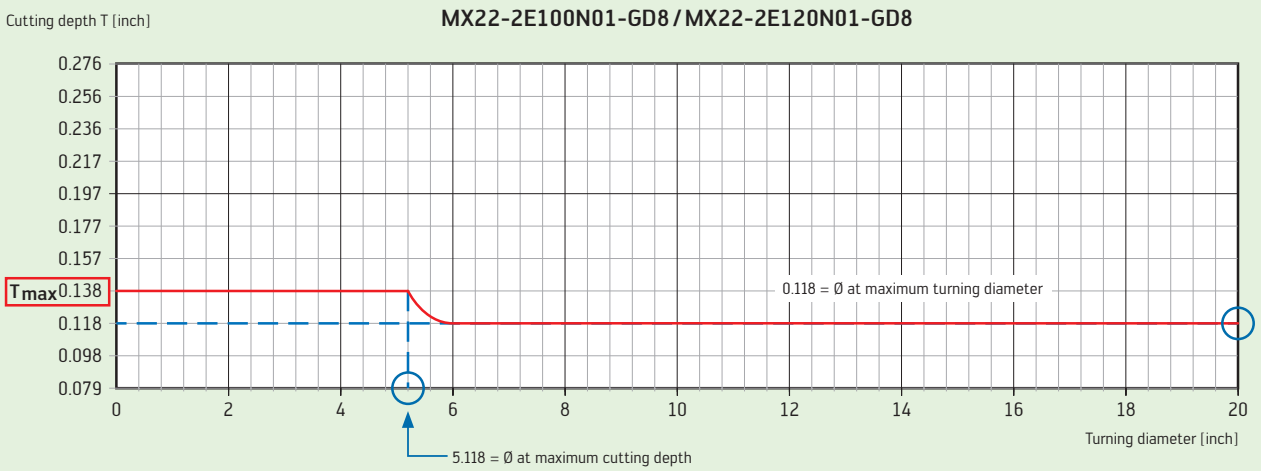
Note: If dry machining is possible, the tool life is reduced by 20–30% on average

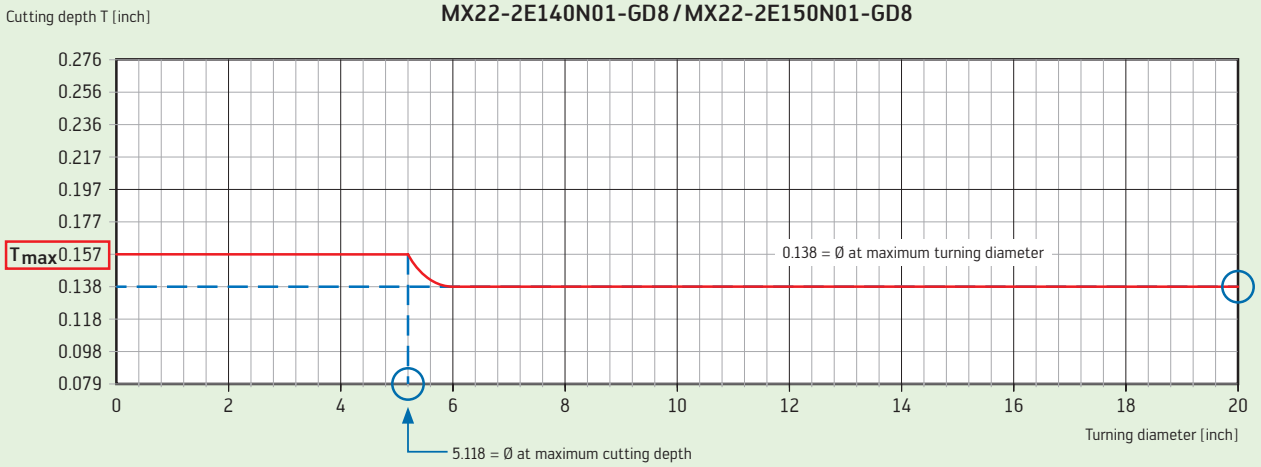
[1] The classification of the machining groups can be found in the Walter General Catalog 2012 from page H 8 onwards.
[3] Water-miscible coolants must not be used when machining magnesium alloys.

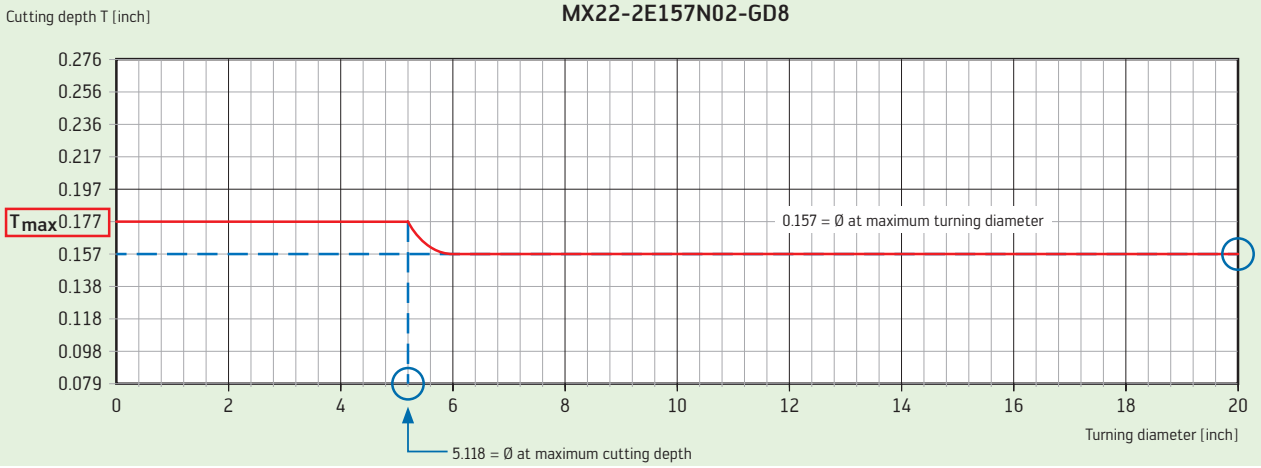
	Cutting material grades		
	Starting values for cutting speed v_c [SFM]		
	HC		
	WNN10		
	f [inch/rev]		
	0.004	0.008	0.016
	750	690	
	560	490	
	430	390	
	460	390	
	590	520	
	390	330	
	430	330	
	660	590	
	460	390	
	490	430	
	9840	7870	5910
	2950	2360	1180
	3150	1770	1180
	1970	1180	790
	2360	1570	1050
	1570	1180	980
	1120	790	520
	260	200	
	200	160	
	200	160	
	160	130	
	130	100	
	720	660	520
	230	160	
	130	100	
	1310	1310	
	980	980	
	1970	1970	

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

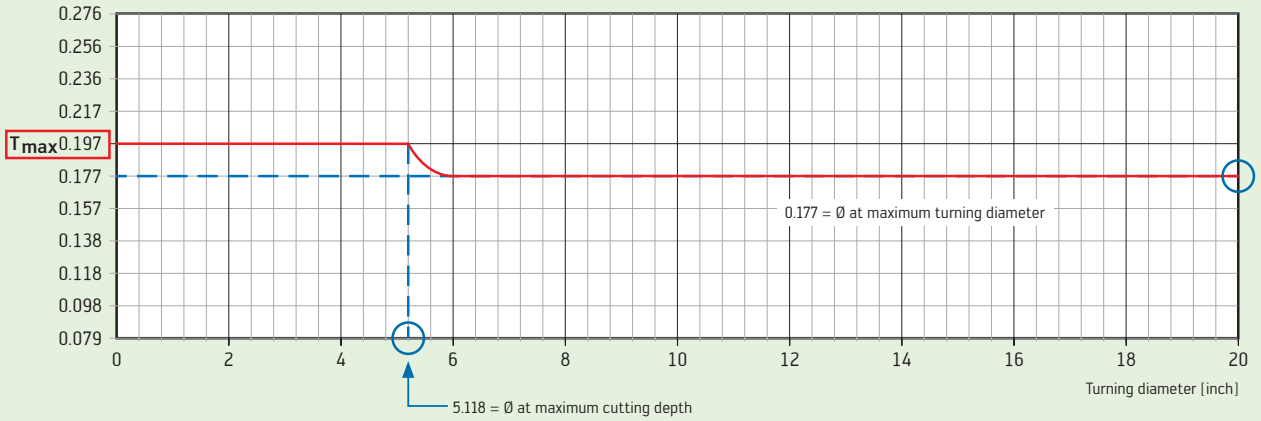
Application information:
Achievable groove depths relevant to turning diameter



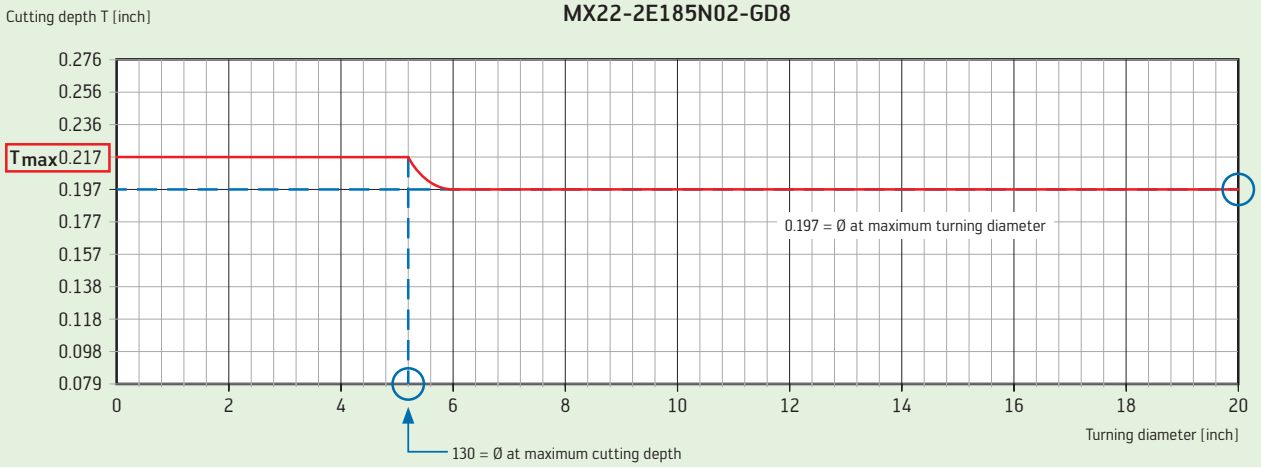




MX22-2E170N02-GD8



MX22-2E185N02-GD8



MX22-2E196N02-GD8 – MX22-2E325N02-GD8