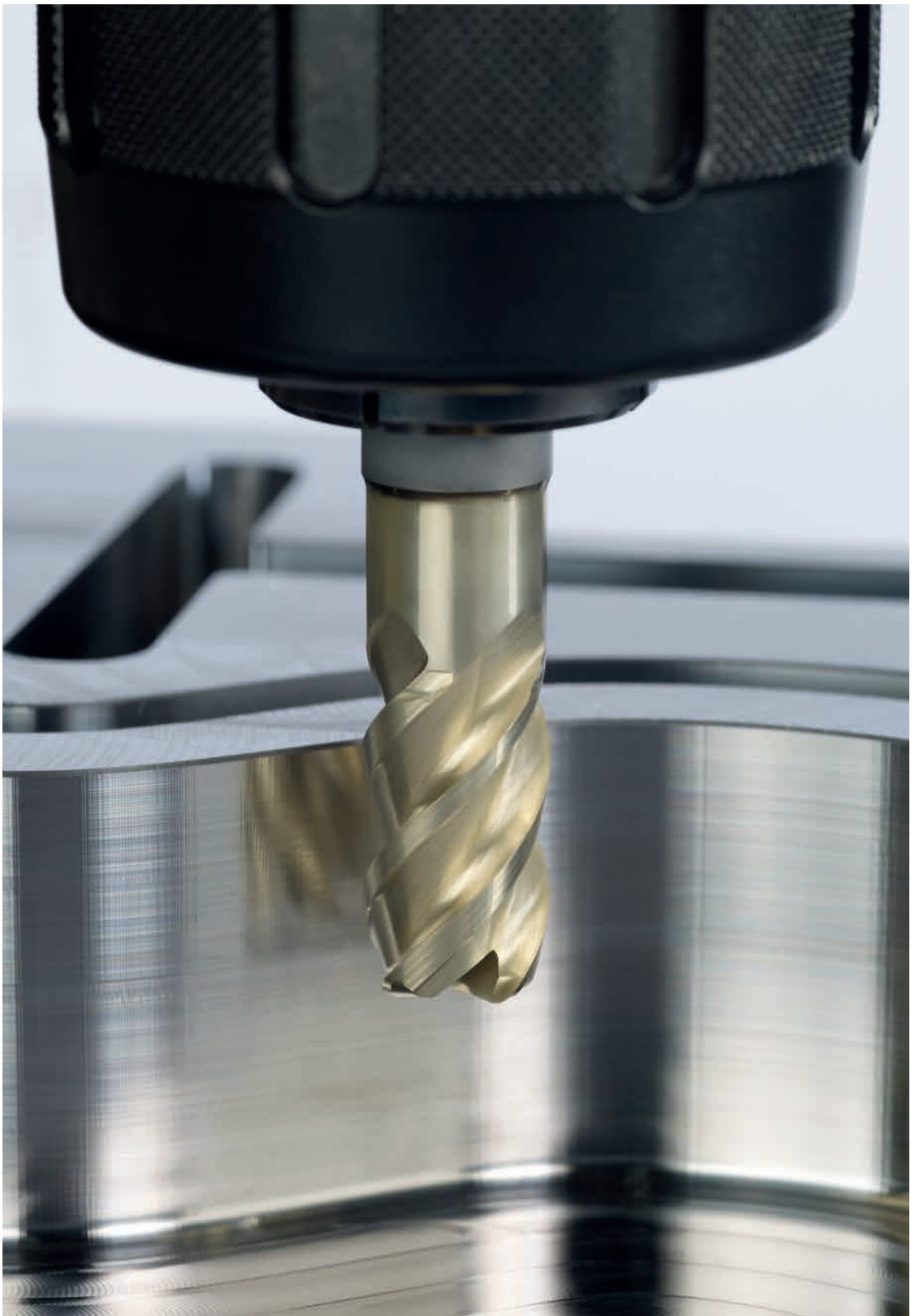


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Designed for Dynamic milling.

NEW

NEW ADDITION TO THE PRODUCT RANGE

- MD133 Supreme solid carbide milling cutter family

Two new grades:

- WJ30RD for ISO P (secondary application: ISO K, N)
- WJ30RA for ISO M (secondary application: ISO S)

THE APPLICATION

- Specially designed for dynamic milling (low a_e , high a_p , large L_c)

Requirements:

- Dynamic machine
- CAD/CAM system
- Dynamic tools

Machining different materials:

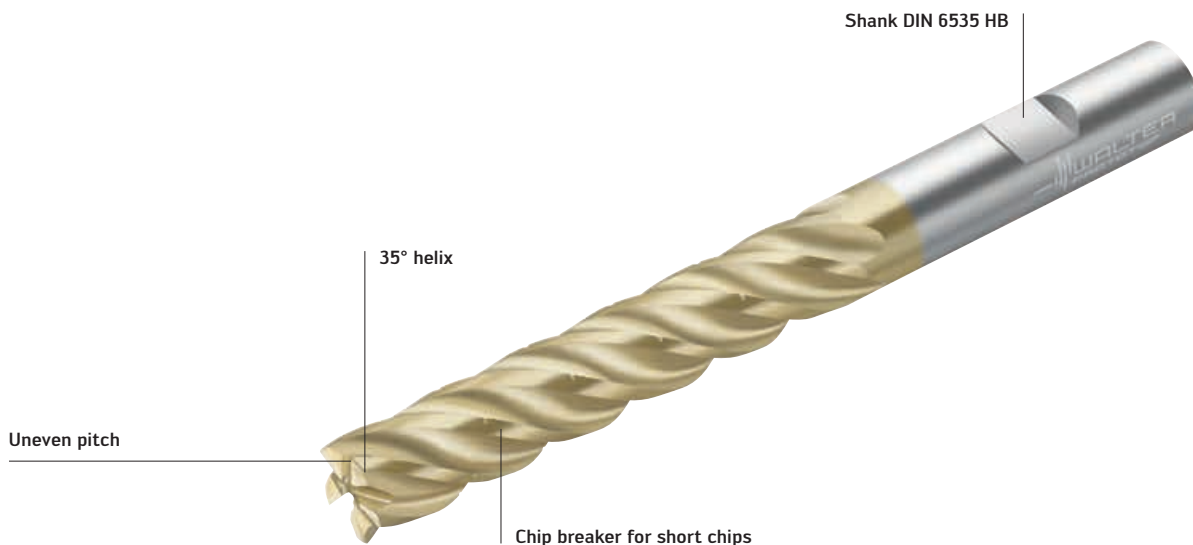
- a_e depends on the material

THE TOOL

- Diameter range 6–12 mm (1/4-1/2 inch)/z = 5
- Diameter range 16–20 mm (5/8 inch)/z = 6

Geometry:

- No center cutting edge
- Defined protection radius
- Cutting length L_c :
 - $3 \times D_c$
 - $3 \times D_c$ (with neck for depths up to $4 \times D_c$)
 - $5 \times D_c$



MD133 Supreme solid carbide milling cutter

Fig.: WJ30RD

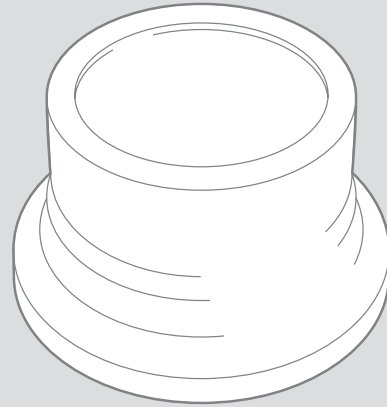
BENEFITS FOR YOU

- High process reliability in unmanned machining
- High productivity due to optimal metal removal rate with reduced machining times
- Maximum tool life as the entire cutting length is used and wear behavior is uniform
- High flexibility in different cavities on the component thanks to machining with only one tool diameter
- No problems working with difficult-to-cut materials or under unstable conditions (machine, workpiece, clamping)



APPLICATION EXAMPLE

Flange

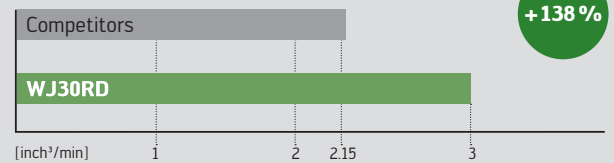


Machine: Okuma MU400
Adaptor: ISO 40
Material: Corrax Stainless Steel [44 HRC]

Cutting data:

	Competitors	Walter Prototyp MD133 Supreme 12.0W5L060J-WJ30RD
z	4	5
Chip breaker	No	Yes
WOC ae	0.032 inch	0.032 inch
φ	30°	30°
DOC a_p	1.378 inch	1.378 inch
Cutting speed v_c	360 SFM	394 SFM
Feed per tooth f_z	0.0039 inch	0.0043
Metal removal rate Q	2.16 inch ³ /min	3 inch ³ /min
t	33 min	99 min

Comparison: Q = Metal removal rate [inch³/min]



MD133 Supreme solid carbide milling cutter Fig.: WJ30RD and WJ30RA

Watch the product animation:
 Scan this QR code or go directly to
<http://goo.gl/kDsZqQ>



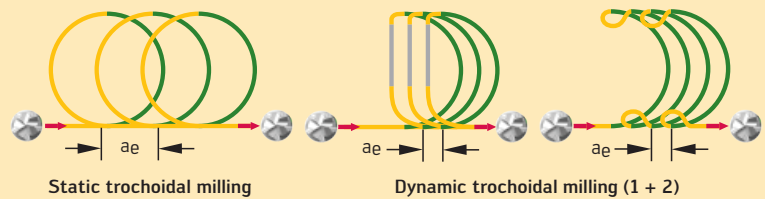
_RELIABLE. PRODUCTIVE. COST-EFFICIENT.

Dynamic milling with the MD133 Supreme – process reliability and maximum efficiency.

Modern CAD/CAM systems and machine tools are making milling operations more and more efficient. In comparison with conventional methods such as High Performance Cutting (HPC), High Dynamic Cutting (HDC) is impressive thanks to its low constant mechanical load and significantly reduced contact times between the cutting edge and the material. The result: High process reliability, higher cutting parameters and an optimal metal removal rate – as well as low tool wear.

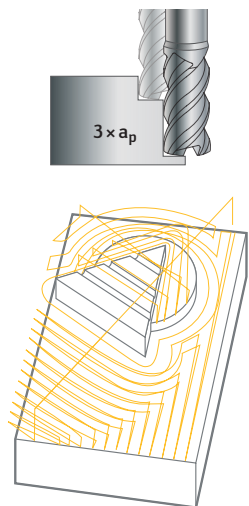
Trochoidal milling

In static trochoidal milling operations (from “trochos” meaning “wheel”), the milling cutter moves along circular (trochoidal) paths. The tool paths are optimally adapted to the workpiece in dynamic milling strategies and free travel is avoided, leading to an increase in the metal removal rate.

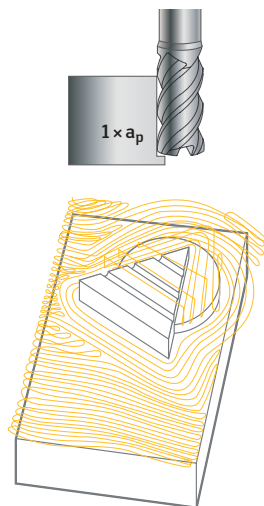


Dynamic or conventional? Compare the strategies:

High Performance Cutting (HPC)



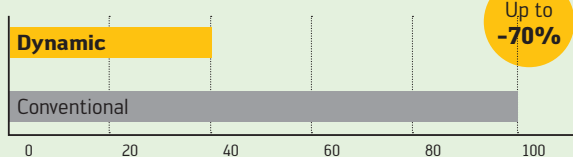
High Dynamic Cutting (HDC)



High Performance Cutting (HPC) and High Dynamic Cutting (HDC) are both milling strategies for roughing operations. The component geometry and task determine which strategy is used.

Features	HPC	HDC
Radial engagement (a_e)	Large	Low
Depth of cut (a_p)	Low	Large
Engagement angle	Large (up to 180°)	Low
Machining forces	High	Low
Machine	Powerful	Dynamic
Software	Machine control unit	CAD/CAM system
Thermal load on the tool	High	Average

Machining time
Milling strategy comparison [%]



Watch the video

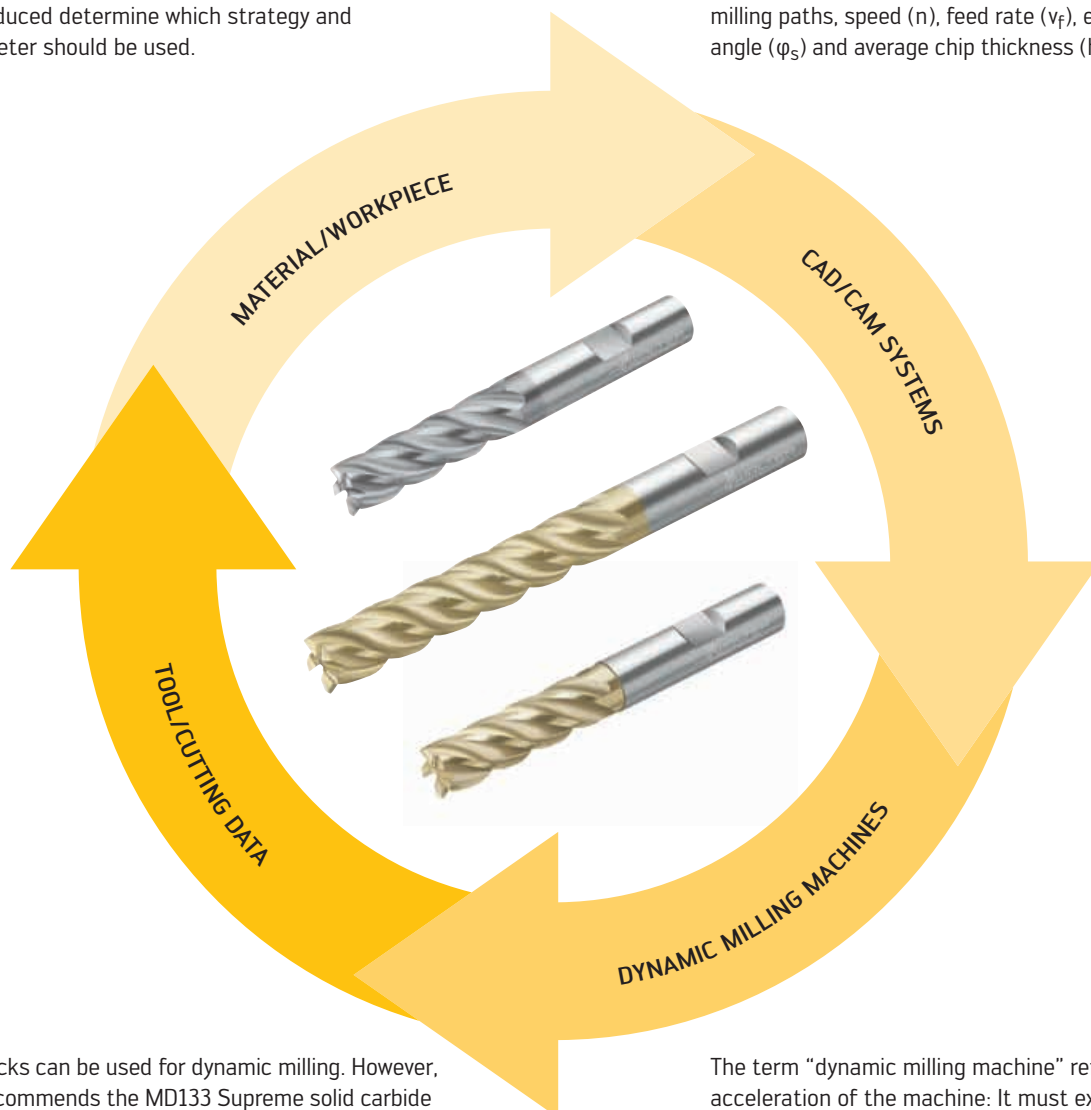


Dynamic milling can reduce the machining time by up to 70%. Process reliability and the tool life are increased.

What conditions are required for dynamic milling?

The material decides the cutting data for the milling tools – that is, the radial cut width (a_e) and the engagement angle (φ_s). The dimensions of the pockets and cavities to be produced determine which strategy and tool diameter should be used.

Most CAD/CAM systems provide the elements necessary for dynamic milling. The software avoids full-depth cuts and collisions, calculating all of the key parameters such as the milling direction, optimal milling paths, speed (n), feed rate (v_f), engagement angle (φ_s) and average chip thickness (h_m).



Most chucks can be used for dynamic milling. However, Walter recommends the MD133 Supreme solid carbide milling cutter with Weldon shank.

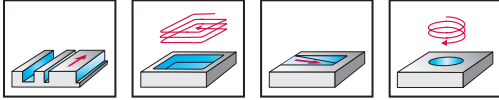
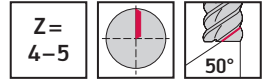
The milling cutter's cutting length (L_c) and diameter (D_c) are defined by the geometry of the workpiece. Specific recommendations for the tool data and cutting data of the task, machine and component in question can be determined using Walter GPS*.

The term "dynamic milling machine" refers to the acceleration of the machine: It must exhibit sufficiently high acceleration behavior and high rapid traverse and feed rates, as well as a wide speed range and short calculating and switching times.

* Find Walter GPS at: walter-tools.com/us

Solid carbide shoulder/slot milling cutter

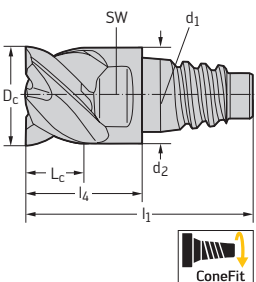
MC326 / MC326 inch



	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

P Standard

	Designation	D _c h10 mm	L _c mm	d ₂ mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WJ30TF
ConeFit	MC326-10.0E4P-	10	5.5	9.7	23.6	12.4	8	E10	4	🆕
	MC326-12.0E4P-	12	6.5	11.7	28.3	14.5	10	E12	4	🆕
	MC326-16.0E4P-	16	8.5	15.5	35.7	18.7	12	E16	4	🆕
	MC326-20.0E4P-	20	11	19.3	40.8	21.3	16	E20	4	🆕
	MC326-25.0E5P-	25	13.5	24.2	49.6	25.6	20	E25	5	🆕

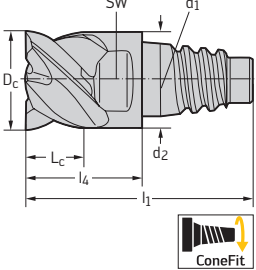


Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.5 \times D_c$
Ordering example for the WJ30TF grade: MC326-10.0E4P-WJ30TF

🆕 🆕 🆕 New addition to the product range

P Standard

	Designation	D _c h9 inch	L _c inch	d ₂ inch	l ₁ inch	l ₄ inch	SW inch	d ₁ inch	Z	WJ30TF
ConeFit	MC326.9.53E4P-	3/8	0.209	0.364	0.929	0.488	0.315	E10	4	🆕
	MC326.12.7E4P-	1/2	0.276	0.484	1.114	0.575	0.394	E12	4	🆕
	MC326.15.9E4P-	5/8	0.335	0.610	1.406	0.736	0.472	E16	4	🆕
	MC326.19.1E4P-	3/4	0.413	0.728	1.606	0.839	0.630	E20	4	🆕
	MC326.25.4E5P-	1	0.551	0.965	1.953	1.008	0.787	E25	5	🆕



Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.05 \times D_c$
Ordering example for the WJ30TF grade: MC326.9.53E4P-WJ30TF

Continued

🆕 🆕 🆕 New addition to the product range



Continued

P Standard		D _c h9 mm	R mm	L _c mm	d ₂ mm	l ₁ mm	l ₄ mm	SW mm	d ₁ mm	Z	WJ30TF	
	Designation											
	ConeFit	MC326-10.0E4P050-	10	0.5	5.5	9.7	23.6	12.4	8	E10	4	☺☺☺
		MC326-10.0E4P100-	10	1	5.5	9.7	23.6	12.4	8	E10	4	☺☺☺
		MC326-10.0E4P150-	10	1.5	5.5	9.7	23.6	12.4	8	E10	4	☺☺☺
		MC326-10.0E4P200-	10	2	5.5	9.7	23.6	12.4	8	E10	4	☺☺☺
		MC326-10.0E4P300-	10	3	5.5	9.7	23.6	12.4	8	E10	4	☺☺☺
		MC326-12.0E4P050-	12	0.5	6.5	11.7	28.3	14.5	10	E12	4	☺☺☺
		MC326-12.0E4P100-	12	1	6.5	11.7	28.3	14.5	10	E12	4	☺☺☺
		MC326-12.0E4P150-	12	1.5	6.5	11.7	28.3	14.5	10	E12	4	☺☺☺
		MC326-12.0E4P200-	12	2	6.5	11.7	28.3	14.5	10	E12	4	☺☺☺
		MC326-12.0E4P300-	12	3	6.5	11.7	28.3	14.5	10	E12	4	☺☺☺
		MC326-12.0E4P400-	12	4	6.5	11.7	28.3	14.5	10	E12	4	☺☺☺
		MC326-16.0E4P050-	16	0.5	8.5	15.5	35.7	18.7	12	E16	4	☺☺☺
		MC326-16.0E4P100-	16	1	8.5	15.5	35.7	18.7	12	E16	4	☺☺☺
		MC326-16.0E4P150-	16	1.5	8.5	15.5	35.7	18.7	12	E16	4	☺☺☺
		MC326-16.0E4P200-	16	2	8.5	15.5	35.7	18.7	12	E16	4	☺☺☺
		MC326-16.0E4P300-	16	3	8.5	15.5	35.7	18.7	12	E16	4	☺☺☺
		MC326-16.0E4P400-	16	4	8.5	15.5	35.7	18.7	12	E16	4	☺☺☺
		MC326-20.0E4P050-	20	0.5	11	19.3	40.8	21.3	16	E20	4	☺☺☺
		MC326-20.0E4P100-	20	1	11	19.3	40.8	21.3	16	E20	4	☺☺☺
		MC326-20.0E4P150-	20	1.5	11	19.3	40.8	21.3	16	E20	4	☺☺☺
		MC326-20.0E4P200-	20	2	11	19.3	40.8	21.3	16	E20	4	☺☺☺
		MC326-20.0E4P300-	20	3	11	19.3	40.8	21.3	16	E20	4	☺☺☺
		MC326-20.0E4P400-	20	4	11	19.3	40.8	21.3	16	E20	4	☺☺☺
		MC326-25.0E5P100-	25	1	13.5	24.2	49.6	25.6	20	E25	5	☺☺☺
		MC326-25.0E5P150-	25	1.5	13.5	24.2	49.6	25.6	20	E25	5	☺☺☺
		MC326-25.0E5P200-	25	2	13.5	24.2	49.6	25.6	20	E25	5	☺☺☺
		MC326-25.0E5P300-	25	3	13.5	24.2	49.6	25.6	20	E25	5	☺☺☺
	MC326-25.0E5P400-	25	4	13.5	24.2	49.6	25.6	20	E25	5	☺☺☺	

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30TF grade: MC326-10.0E4P050-WJ30TF

☺☺☺ New addition to the product range

P Standard		D _c h9 inch	R inch	L _c inch	d ₂ inch	l ₁ inch	l ₄ inch	SW inch	d ₁ inch	Z	WJ30TF	
	Designation											
	ConeFit	MC326.9.53E4P038-	3/8	0.015	0.209	0.364	0.929	0.488	0.315	E10	4	☺☺☺
		MC326.9.53E4P076-	3/8	0.030	0.209	0.364	0.929	0.488	0.315	E10	4	☺☺☺
		MC326.12.7E4P038-	1/2	0.015	0.276	0.484	1.114	0.575	0.394	E12	4	☺☺☺
		MC326.12.7E4P076-	1/2	0.030	0.276	0.484	1.114	0.575	0.394	E12	4	☺☺☺
		MC326.12.7E4P152-	1/2	0.060	0.276	0.484	1.114	0.575	0.394	E12	4	☺☺☺
		MC326.15.9E4P152-	5/8	0.060	0.335	0.610	1.406	0.736	0.472	E16	4	☺☺☺
		MC326.19.1E4P152-	3/4	0.060	0.413	0.728	1.606	0.839	0.630	E20	4	☺☺☺
		MC326.19.1E4P318-	3/4	0.125	0.413	0.728	1.606	0.839	0.630	E20	4	☺☺☺
		MC326.25.4E5P152-	1	0.060	0.551	0.965	1.953	1.008	0.787	E25	5	☺☺☺
		MC326.25.4E5P318-	1	0.125	0.551	0.965	1.953	1.008	0.787	E25	5	☺☺☺

Slot milling $a_p \leq 0.5 \times D_c$
 Shoulder milling $a_e \leq 0.5 \times D_c$
 Ordering example for the WJ30TF grade: MC326.9.53E4P038-WJ30TF

☺☺☺ New addition to the product range

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹☹
Poor

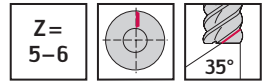
machining conditions

•• Primary application

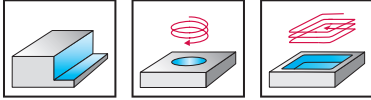
• Other application

Solid carbide shoulder milling cutters

MD133 Supreme inch



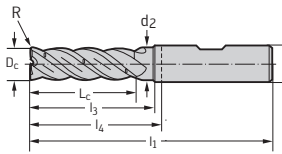
- Chip breaker



	P	M	K	N	S	H	O
WJ30RA		●●			●		
WJ30RD	●●		●	●			

P STANDARD L

	Designation	D _c h10 inch	R inch	L _c inch	l ₃ inch	d ₂ inch	l ₁ inch	l ₄ inch	d ₁ h6 inch	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	MD133.6.35W5L038D-	1/4	0.015	0.875	1.000	0.237	2.500	1.083	0.250	5	☺	☺
	MD133.9.53W5L038D-	3/8	0.015	1.250	1.500	0.356	3.250	1.687	0.375	5	☺	☺
	MD133.12.7W5L076D-	1/2	0.030	1.750	2.125	0.475	4.000	2.217	0.500	5	☺	☺
	MD133.15.9W6L076D-	5/8	0.030	2.000	2.500	0.594	4.500	2.594	0.625	6	☺	☺
	MD133.19.1W6L076D-	3/4	0.030	2.500	3.000	0.713	5.500	3.469	0.750	6	☺	☺



Shoulder milling $a_e \leq 0.10 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.05 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133.6.35W5L038D-WJ30RD

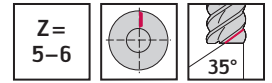
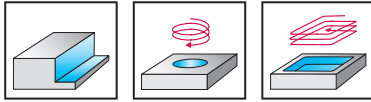
☺☺☺ New addition to the product range

Solid carbide shoulder milling cutters

MD133 Supreme



- Chip breaker



	P	M	K	N	S	H	O
WJ30RA		••			•		
WJ30RD	••		•	•			

P STANDARD L		D _c h10 mm	R mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB										
	Designation									
	MD133-06.0W5L030J-	6	0.3	19	65	29	6	5	☺	☹
	MD133-08.0W5L040J-	8	0.4	25	68	32	8	5	☺	☹
	MD133-10.0W5L050J-	10	0.5	32	80	40	10	5	☺	☹
	MD133-12.0W5L060J-	12	0.6	38	93	48	12	5	☺	☹
	MD133-16.0W6L080J-	16	0.8	50	115	62	16	6	☺	☹
MD133-20.0W6L100J-	20	1	63	125	75	20	6	☺	☹	

Shoulder milling $a_e \leq 0.10 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.05 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133-06.0W5L030J-WJ30RD

☺☹☹ New addition to the product range

P STANDARD L		D _c h10 mm	R mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB												
	Designation											
	MD133-06.0W5L030D-	6	0.3	19	27	5.5	65	29	6	5	☺	☹
	MD133-08.0W5L040D-	8	0.4	25	30	7.5	68	32	8	5	☺	☹
	MD133-10.0W5L050D-	10	0.5	32	38	9.5	80	40	10	5	☺	☹
	MD133-12.0W5L060D-	12	0.6	38	46	11.4	93	48	12	5	☺	☹
	MD133-16.0W6L080D-	16	0.8	50	60	15.2	115	62	16	6	☺	☹
MD133-20.0W6L100D-	20	1	63	73	19	125	75	20	6	☺	☹	

Shoulder milling $a_e \leq 0.10 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.05 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133-06.0W5L030D-WJ30RD

☺☹☹ New addition to the product range

WALTER SELECT

Best tool for

☺
Good

☹
Average

☹
Poor

machining conditions

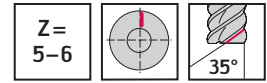
•• Primary application

• Other application

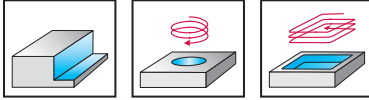


Solid carbide shoulder milling cutters

MD133 Supreme / MD133 Supreme inch

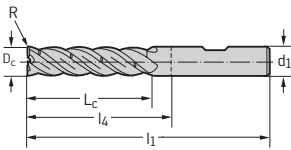


- Chip breaker



	P	M	K	N	S	H	O
WJ30RA		●●			●		
WJ30RD	●●		●	●			

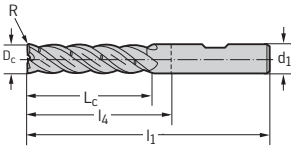
P STANDARD XL		D_c h10 inch	R inch	L_c inch	l_1 inch	l_4 inch	d_1 h6 inch	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	MD133.6.35W5X038L-	1/4	0.015	1.375	3.000	1.583	0.250	5	☺	☹
	MD133.9.53W5X038L-	3/8	0.015	2.000	4.000	2.437	0.375	5	☺	☹
	MD133.12.7W5X076L-	1/2	0.030	2.750	5.000	3.217	0.500	5	☺	☹
	MD133.15.9W6X076L-	5/8	0.030	3.250	5.500	3.594	0.625	6	☺	☹
	MD133.19.1W6X076L-	3/4	0.030	3.875	6.500	4.465	0.750	6	☺	☹



Shoulder milling $a_e \leq 0.05 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.025 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133.6.35W5X038L-WJ30RD

☺☹☹ New addition to the product range

P STANDARD XL		D_c h10 mm	R mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30RA	WJ30RD
Shank DIN 6535 HB	MD133-06.0W5X030L-	6	0.3	31	80	40	6	5	☺	☹
	MD133-08.0W5X040L-	8	0.4	41	87	51	8	5	☺	☹
	MD133-10.0W5X050L-	10	0.5	52	100	60	10	5	☺	☹
	MD133-12.0W5X060L-	12	0.6	62	116	71	12	5	☺	☹
	MD133-16.0W6X080L-	16	0.8	82	141	93	16	6	☺	☹
	MD133-20.0W6X100L-	20	1	103	165	115	20	6	☺	☹

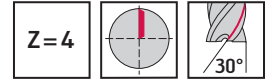
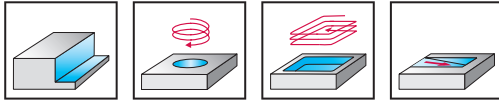


Shoulder milling $a_e \leq 0.05 \times D_c$ for ISO P
 Shoulder milling $a_e \leq 0.025 \times D_c$ for ISO M and ISO S
 Ordering example for the WJ30RD grade: MD133-06.0W5X030L-WJ30RD

☺☹☹ New addition to the product range

Solid carbide shoulder milling cutters

MC111 Advance inch



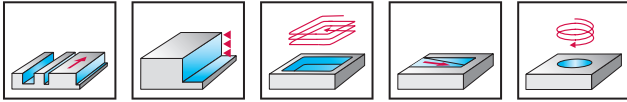
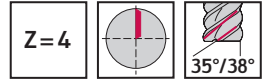
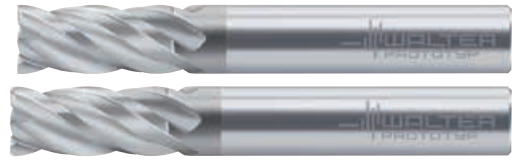
	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

STANDARD		D_c h10 inch	L_c inch	l_1 inch	l_4 inch	d_1 h6 inch	Z	WJ30TF
Shank DIN 6535 HA								
	MC111.2.38A4D-	3/32	0.375	2.500	1.083	0.250	4	🆕
	MC111.3.18A4D-	1/8	0.500	2.500	1.083	0.250	4	🆕
	MC111.4.76A4D-	3/16	0.625	2.500	1.083	0.250	4	🆕
	MC111.6.35A4D-	1/4	0.750	2.500	1.083	0.250	4	🆕
	MC111.7.94A4D-	5/16	0.813	3.000	1.437	0.375	4	🆕
	MC111.9.53A4D-	3/8	0.875	3.000	1.437	0.375	4	🆕
	MC111.12.7A4D-	1/2	1.000	3.500	1.717	0.500	4	🆕
	MC111.15.9A4D-	5/8	1.250	3.500	1.594	0.625	4	🆕
	MC111.19.1A4D-	3/4	1.500	4.000	1.969	0.750	4	🆕

Slot milling $a_p \leq 0.3 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_c$
 Ordering example for the WJ30TF grade: MC111.2.38A4D-WJ30TF

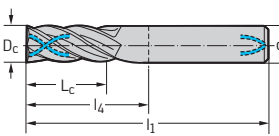
🆕 🆕 🆕 New addition to the product range

Solid carbide milling cutters
AH2034217 / AH2038217 inch
Proto-max™_{Inox}

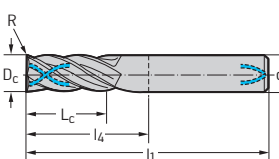


TAA	P	M	K	N	S	H	O
		●	●		●		

P Standard

	Designation TAA	D _c h10 inch/no.	L _c inch	l ₁ inch	l ₄ inch	d ₁ h5 inch	Z
Shank DIN 6535 HA 	AH2034217-1/4	1/4	0.750	2.500	1.083	0.250	4
	AH2034217-5/16	5/16	0.813	3.000	1.437	0.375	4
	AH2034217-3/8	3/8	0.875	3.000	1.437	0.375	4
	AH2034217-7/16	7/16	1.000	3.500	1.717	0.500	4
	AH2034217-1/2	1/2	1.000	3.500	1.717	0.500	4
	AH2034217-5/8	5/8	1.250	3.500	1.594	0.625	4
	AH2034217-3/4	3/4	1.500	4.000	1.969	0.750	4
	AH2034217-1	1	1.500	5.000	2.717	1.000	4

P Standard

	Designation TAA	D _c h9 inch/no.	R inch	L _c inch	l ₁ inch	l ₄ inch	d ₁ h5 inch	Z
Shank DIN 6535 HA 	AH2038217-1/4-0.020	1/4	0.020	0.750	2.500	1.083	0.250	4
	AH2038217-5/16-0.020	5/16	0.020	0.813	3.000	1.437	0.375	4
	AH2038217-3/8-0.020	3/8	0.020	0.875	3.000	1.437	0.375	4
	AH2038217-3/8-0.060	3/8	0.060	0.875	3.000	1.437	0.375	4
	AH2038217-7/16-0.020	7/16	0.020	1.000	3.500	1.717	0.500	4
	AH2038217-7/16-0.060	7/16	0.060	1.000	3.500	1.717	0.500	4
	AH2038217-1/2-0.030	1/2	0.030	1.000	3.500	1.717	0.500	4
	AH2038217-1/2-0.060	1/2	0.060	1.000	3.500	1.717	0.500	4
	AH2038217-1/2-0.120	1/2	0.120	1.000	3.500	1.717	0.500	4
	AH2038217-5/8-0.030	5/8	0.030	1.250	3.500	1.594	0.625	4
	AH2038217-5/8-0.060	5/8	0.060	1.250	3.500	1.594	0.625	4
	AH2038217-5/8-0.090	5/8	0.090	1.250	3.500	1.594	0.625	4
	AH2038217-5/8-0.120	5/8	0.120	1.250	3.500	1.594	0.625	4
	AH2038217-3/4-0.030	3/4	0.030	1.500	4.000	1.969	0.750	4
	AH2038217-3/4-0.060	3/4	0.060	1.500	4.000	1.969	0.750	4
	AH2038217-3/4-0.090	3/4	0.090	1.500	4.000	1.969	0.750	4
	AH2038217-3/4-0.120	3/4	0.120	1.500	4.000	1.969	0.750	4
	AH2038217-1.00-0.030	1	0.030	1.500	5.000	2.717	1.000	4
	AH2038217-1-0.060	1	0.060	1.500	5.000	2.717	1.000	4
	AH2038217-1-0.120	1	0.120	1.500	5.000	2.717	1.000	4

★ New addition to the product range

WALTER SELECT

Best tool for

😊
Good

😐
Average

😞
Poor

machining conditions

●● Primary application

● Other application

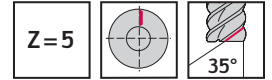
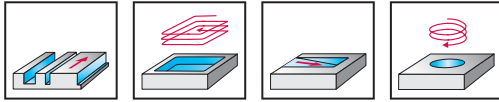


Solid carbide shoulder/slot milling cutter

AH4135217 inch / AH4137217 inch



Proto-max™_{ST}



	P	M	K	N	S	H	O
TAZ	●●	●					

STANDARD	Designation TAZ	D _c h9 inch	L _c inch	l ₁ inch	l ₄ inch	d ₁ h6 inch	Z
Shank DIN 6535 HB 	★ AH4135217-3/8	3/8	0.875	3.000	1.437	0.375	5
	★ AH4135217-1/2	1/2	1.063	3.500	1.717	0.500	5
	★ AH4135217-5/8	5/8	1.250	3.500	1.594	0.625	5
	★ AH4135217-3/4	3/4	1.500	4.000	1.969	0.750	5

Slot milling $a_p \leq 1.0 \times D_c$
Shoulder milling $a_e \leq 0.6 \times D_c$

★ New addition to the product range

STANDARD	Designation TAZ	D _c h9 inch	R inch	L _c inch	l ₁ inch	l ₄ inch	d ₁ h6 inch	Z
Shank DIN 6535 HB 	★ AH4137217-3/8-0.030	3/8	0.030	0.875	3.000	1.437	0.375	5
	★ AH4137217-1/2-0.030	1/2	0.030	1.063	3.500	1.717	0.500	5
	★ AH4137217-1/2-0.060	1/2	0.060	1.063	3.500	1.717	0.500	5
	★ AH4137217-3/4-0.030	3/4	0.030	1.500	4.000	1.969	0.750	5
	★ AH4137217-3/4-0.060	3/4	0.060	1.500	4.000	1.969	0.750	5

Slot milling $a_p \leq 1.0 \times D_c$
Shoulder milling $a_e \leq 0.6 \times D_c$

★ New addition to the product range

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

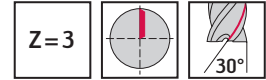
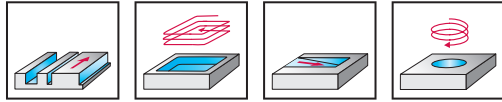
●● Primary application

● Other application



Solid carbide shoulder/slot milling cutter

MB266 Supreme inch



	P	M	K	N	S	H	O
WJ30UU				●●			

P STANDARD XL

	Designation	D _c h9 inch	R inch	L _c inch	l ₃ inch	d ₂ inch	l ₁ inch	l ₄ inch	d ₁ h5 inch	Z	WJ30UU
Shank DIN 6535 HA 	MB266.6.35A3X038B-	1/4	0.015	0.375	1.500	0.236	3.000	1.583	0.250	3	☺
	MB266.6.35A3X076B-	1/4	0.030	0.375	1.500	0.236	3.000	1.583	0.250	3	☺
	MB266.9.53A3X038B-	3/8	0.015	0.500	1.550	0.355	3.250	1.687	0.375	3	☺
	MB266.9.53A3X076B-	3/8	0.030	0.500	1.550	0.355	3.250	1.687	0.375	3	☺
	MB266.12.7A3X038B-	1/2	0.015	0.625	2.125	0.470	4.000	2.217	0.500	3	☺
	MB266.12.7A3X038C-	1/2	0.015	1.250	3.125	0.470	5.000	3.217	0.500	3	☺
	MB266.12.7A3X076B-	1/2	0.030	0.625	2.125	0.470	4.000	2.217	0.500	3	☺
	MB266.12.7A3X076C-	1/2	0.030	1.250	3.125	0.470	5.000	3.217	0.500	3	☺
	MB266.12.7A3X152C-	1/2	0.060	1.250	3.125	0.470	5.000	3.217	0.500	3	☺
	MB266.12.7A3X305C-	1/2	0.120	1.250	3.125	0.470	5.000	3.217	0.500	3	☺
	MB266.15.9A3X038C-	5/8	0.015	1.625	3.125	0.600	5.000	3.148	0.625	3	☺
	MB266.15.9A3X076C-	5/8	0.030	1.625	3.125	0.600	5.000	3.148	0.625	3	☺
	MB266.15.9A3X152C-	5/8	0.060	1.625	3.125	0.600	5.000	3.148	0.625	3	☺
	MB266.15.9A3X305C-	5/8	0.120	1.625	3.125	0.600	5.000	3.148	0.625	3	☺
	MB266.19.1A3X038C-	3/4	0.015	1.625	3.125	0.715	5.000	3.156	0.750	3	☺
	MB266.19.1A3X076B-	3/4	0.030	1.000	2.125	0.715	4.000	2.156	0.750	3	☺
	MB266.19.1A3X076C-	3/4	0.030	1.625	3.125	0.715	5.000	3.156	0.750	3	☺
	MB266.19.1A3X152B-	3/4	0.060	1.000	2.125	0.715	4.000	2.156	0.750	3	☺
	MB266.19.1A3X305C-	3/4	0.120	1.625	3.125	0.715	5.000	3.156	0.750	3	☺
	MB266.25.4A3X038B-	1	0.015	1.250	2.125	0.955	5.000	2.717	1.000	3	☺
	MB266.25.4A3X076B-	1	0.030	1.250	2.125	0.955	5.000	2.717	1.000	3	☺
	MB266.25.4A3X152B-	1	0.060	1.250	2.125	0.955	5.000	2.717	1.000	3	☺
	MB266.25.4A3X305B-	1	0.120	1.250	2.125	0.955	5.000	2.717	1.000	3	☺

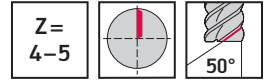
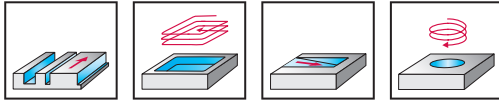
 Slot milling $a_p \leq 0.9 \times D_c$

 Shoulder milling $a_e \leq 0.6 \times D_c$

Ordering example for the WJ30UU grade: MB266.6.35A3X038B-WJ30UU

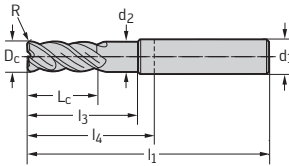
New addition to the product range

Solid carbide shoulder/slot milling cutter MC326 Supreme inch



	P	M	K	N	S	H	O
WK40TF	●	●	●	●	●		

P STANDARD L		D_c h9 inch	R inch	L_c inch	l_3 inch	d_2 inch	l_1 inch	l_4 inch	d_1 h6 inch	Z	WK40TF
Shank DIN 6535 HA											
	MC326.3.18A4L051C-	1/8	0.020	0.500	1.188	0.119	3.000	1.583	0.250	3	
	MC326.4.76A4L051C-	3/16	0.020	0.625	1.125	0.178	3.000	1.583	0.250	3	
	MC326.6.35A4L076C-	1/4	0.030	0.750	1.375	0.237	3.000	1.583	0.250	4	
	MC326.6.35A4L102C-	1/4	0.040	0.750	1.375	0.237	3.000	1.583	0.250	4	
	MC326.7.94A4L076C-	5/16	0.030	0.813	1.500	0.297	3.500	1.937	0.375	4	
	MC326.7.94A4L203C-	5/16	0.080	0.813	1.500	0.297	3.500	1.937	0.375	4	
	MC326.9.53A4L076C-	3/8	0.030	0.875	1.500	0.356	3.500	1.937	0.375	4	
	MC326.9.53A4L152C-	3/8	0.060	0.875	1.500	0.356	3.500	1.937	0.375	4	
	MC326.9.53A4L203C-	3/8	0.080	0.875	1.500	0.356	3.500	1.937	0.375	4	
	MC326.11.1A4L076C-	7/16	0.030	1.000	2.875	0.416	4.750	2.967	0.500	4	
	MC326.11.1A4L203C-	7/16	0.080	1.000	2.875	0.416	4.750	2.967	0.500	4	
	MC326.12.7A4L076C-	1/2	0.030	1.000	2.875	0.475	4.750	2.967	0.500	4	
	MC326.12.7A4L152C-	1/2	0.060	1.000	2.875	0.475	4.750	2.967	0.500	4	
	MC326.12.7A4L305C-	1/2	0.120	1.000	2.875	0.475	4.750	2.967	0.500	4	
	MC326.15.9A4L076C-	5/8	0.030	1.250	3.000	0.594	5.000	3.217	0.625	4	
	MC326.15.9A4L152C-	5/8	0.060	1.250	3.000	0.594	5.000	3.217	0.625	4	
	MC326.15.9A4L318C-	5/8	0.125	1.250	3.000	0.594	5.000	3.094	0.625	4	
	MC326.19.1A4L152C-	3/4	0.060	1.500	3.000	0.713	5.250	3.219	0.750	4	
	MC326.19.1A4L318C-	3/4	0.125	1.500	3.000	0.713	5.250	3.219	0.750	4	
	MC326.19.1A4L406C-	3/4	0.160	1.500	3.000	0.713	5.250	3.219	0.750	4	
	MC326.25.4A5L152C-	1	0.060	1.625	3.250	0.960	5.500	3.217	1.000	5	
	MC326.25.4A5L318C-	1	0.120	1.625	3.250	0.960	5.500	3.217	1.000	5	



Slot milling $a_p \leq 0.9 \times D_c$
 Shoulder milling $a_e \leq 0.3 \times D_c$
 Ordering example for the WK40TF grade: MC326.6.35A4L076C-WK40TF

New addition to the product range

WALTER SELECT

Best tool for

Good

Average

Poor

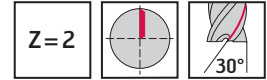
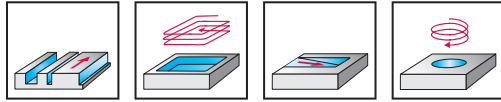
machining conditions

•• Primary application

• Other application



Solid carbide shoulder/slot milling cutter MC216 Advance inch



	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

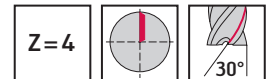
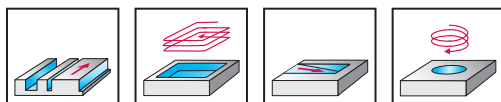
STANDARD

	Designation	D _c h10 inch	L _c inch	l ₁ inch	l ₄ Inches	d ₁ h6 inch	Z	WJ30TF
	Shank DIN 6535 HA							
	MC216.2.38A2D-	3/32	0.375	2.500	1.083	0.250	2	●
	MC216.3.18A2D-	1/8	0.500	2.500	1.083	0.250	2	●
	MC216.4.76A2D-	3/16	0.625	2.500	1.083	0.250	2	●
	MC216.6.35A2D-	1/4	0.750	2.500	1.083	0.250	2	●
	MC216.7.94A2D-	5/16	0.813	3.000	1.437	0.375	2	●
	MC216.9.53A2D-	3/8	0.875	3.000	1.437	0.375	2	●
	MC216.12.7A2D-	1/2	1.000	3.500	1.717	0.500	2	●
	MC216.15.9A2D-	5/8	1.250	3.500	1.594	0.625	2	●
	MC216.19.1A2D-	3/4	1.500	4.000	1.969	0.750	2	●

Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.3 \times D_c$
Ordering example for the WJ30TF grade: MC216.2.38A2D-WJ30TF

🆕🆕🆕 New addition to the product range

Solid carbide shoulder/slot milling cutter MC213 Advance inch



	P	M	K	N	S	H	O
WJ30TF	●	●	●	●	●		

P STANDARD L

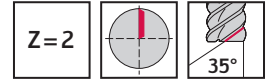
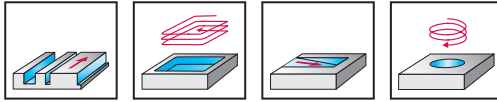
	Designation	D _c h10 inch	R inch	L _c inch	l ₃ inch	d ₂ inch	l ₁ inch	l ₄ inch	d ₁ h6 inch	Z	WJ30TF
	Shank DIN 6535 HA										
	MC213.6.35A4L038C-	1/4	0.015	0.750	1.375	0.237	3.000	1.583	0.250	4	●
	MC213.6.35A4L076C-	1/4	0.030	0.750	1.375	0.237	3.000	1.583	0.250	4	●
	MC213.9.53A4L038C-	3/8	0.015	0.875	1.500	0.356	3.500	1.937	0.375	4	●
	MC213.9.53A4L076C-	3/8	0.030	0.875	1.500	0.356	3.500	1.937	0.375	4	●
	MC213.12.7A4L076C-	1/2	0.030	1.000	2.875	0.475	4.750	2.967	0.500	4	●
	MC213.12.7A4L152C-	1/2	0.060	1.000	2.875	0.475	4.750	2.967	0.500	4	●
	MC213.12.7A4L305C-	1/2	0.120	1.000	2.875	0.475	4.750	2.967	0.500	4	●
	MC213.15.9A4L076C-	5/8	0.030	1.250	3.000	0.594	5.000	3.094	0.625	4	●
	MC213.15.9A4L152C-	5/8	0.060	1.250	3.000	0.594	5.000	3.094	0.625	4	●
	MC213.19.1A4L152C-	3/4	0.060	1.500	3.000	0.713	5.250	3.219	0.750	4	●
	MC213.19.1A4L305C-	3/4	0.120	1.500	3.000	0.713	5.250	3.219	0.750	4	●

Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.5 \times D_c$
Ordering example for the WJ30TF grade: MC213.6.35A4L038C-WJ30TF

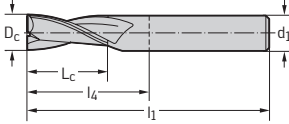
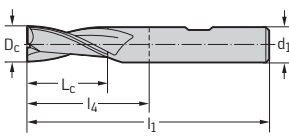
🆕🆕🆕 New addition to the product range



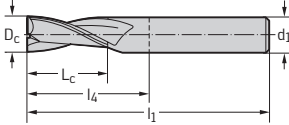
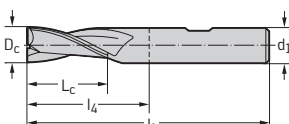
Solid carbide shoulder/slot milling cutter MC232 Perform/MC232 Perform inch



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30ED
Shank DIN 6535 HA 	MC232-02.0A2B-	2	6	57	29	4	2	🔴
	MC232-02.5A2B-	2.5	7	57	29	4	2	🔴
	MC232-03.0A2B-	3	7	57	29	4	2	🔴
	MC232-03.5A2B-	3.5	7	57	29	4	2	🔴
	MC232-04.0A2B-	4	8	57	29	4	2	🔴
Shank DIN 6535 HB 	MC232-05.0W2B-	5	10	57	21	6	2	🔴
	MC232-06.0W2B-	6	10	57	21	6	2	🔴
	MC232-08.0W2B-	8	16	63	27	8	2	🔴
	MC232-10.0W2B-	10	19	72	32	10	2	🔴
	MC232-12.0W2B-	12	22	83	38	12	2	🔴
	MC232-16.0W2B-	16	26	92	44	16	2	🔴
	MC232-20.0W2B-	20	32	104	54	20	2	🔴

Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.5 \times D_c$
Ordering example for the WJ30ED grade: MC232-02.0A2B-WJ30ED

STANDARD		D_c h12 inch	L_c inch	l_1 inch	l_4 inch	d_1 h6 inch	Z	WJ30ED
Shank DIN 6535 HA 	MC232.3.18A2D-	1/8	0.500	2.500	1.083	0.250	2	🔴
	MC232.6.35A2D-	1/4	0.750	2.500	1.083	0.250	2	🔴
Shank DIN 6535 HB 	MC232.9.53W2D-	3/8	0.875	3.000	1.437	0.375	2	🔴
	MC232.12.7W2D-	1/2	1.000	3.500	1.717	0.500	2	🔴
	MC232.15.9W2D-	5/8	1.250	3.500	1.594	0.625	2	🔴

Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.5 \times D_c$
Ordering example for the WJ30ED grade: MC232.3.18A2D-WJ30ED

🔴🔴🔴 New addition to the product range

WALTER SELECT

Best tool for

😊
Good

😐
Average

😞
Poor

machining conditions

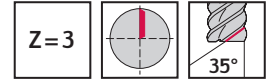
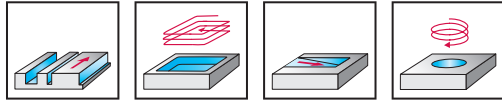
●● Primary application

● Other application



Solid carbide shoulder/slot milling cutter

MC232 Perform/MC232 Perform inch



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A3B-	2	6	57	29	4	3	Ⓢ
	MC232-02.5A3B-	2.5	7	57	29	4	3	Ⓢ
	MC232-03.0A3B-	3	7	57	29	4	3	Ⓢ
	MC232-03.5A3B-	3.5	7	57	29	4	3	Ⓢ
	MC232-04.0A3B-	4	8	57	29	4	3	Ⓢ
Shank DIN 6535 HB	MC232-05.0W3B-	5	10	57	21	6	3	Ⓢ
	MC232-06.0W3B-	6	10	57	21	6	3	Ⓢ
	MC232-08.0W3B-	8	16	63	27	8	3	Ⓢ
	MC232-10.0W3B-	10	19	72	32	10	3	Ⓢ
	MC232-12.0W3B-	12	22	83	38	12	3	Ⓢ
	MC232-16.0W3B-	16	26	92	44	16	3	Ⓢ
	MC232-20.0W3B-	20	32	104	54	20	3	Ⓢ

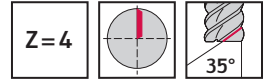
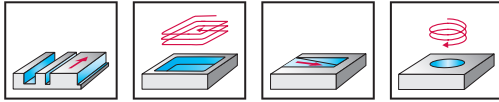
Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.5 \times D_c$
Ordering example for the WJ30ED grade: MC232-02.0A3B-WJ30ED

STANDARD		D_c h12 inch	L_c inch	l_1 inch	l_4 inch	d_1 h6 inch	Z	WJ30ED
Shank DIN 6535 HA	MC232.3.18A3D-	1/8	0.500	2.500	1.083	0.250	3	Ⓢ
	MC232.6.35A3D-	1/4	0.750	2.500	1.083	0.250	3	Ⓢ
Shank DIN 6535 HB	MC232.9.53W3D-	3/8	0.875	3.000	1.437	0.375	3	Ⓢ
	MC232.12.7W3D-	1/2	1.000	3.500	1.717	0.500	3	Ⓢ
	MC232.15.9W3D-	5/8	1.250	3.500	1.594	0.625	3	Ⓢ

Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.5 \times D_c$
Ordering example for the WJ30ED grade: MC232.3.18A3D-WJ30ED

Ⓢ Ⓢ Ⓢ New addition to the product range

Solid carbide shoulder/slot milling cutter MC232 Perform/MC232 Perform inch



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

DIN 6527 L		D_c h12 mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30ED
Shank DIN 6535 HA 	MC232-02.0A4B-	2	7	57	29	4	4	●
	MC232-02.5A4B-	2.5	8	57	29	4	4	●
	MC232-03.0A4B-	3	8	57	29	4	4	●
	MC232-03.5A4B-	3.5	10	57	29	4	4	●
	MC232-04.0A4B-	4	11	57	29	4	4	●
Shank DIN 6535 HB 	MC232-05.0W4B-	5	13	57	21	6	4	●
	MC232-06.0W4B-	6	13	57	21	6	4	●
	MC232-08.0W4B-	8	19	63	27	8	4	●
	MC232-10.0W4B-	10	22	72	32	10	4	●
	MC232-12.0W4B-	12	26	83	38	12	4	●
	MC232-16.0W4B-	16	32	92	44	16	4	●
	MC232-20.0W4B-	20	38	104	54	20	4	●

Slot milling $a_p \leq 0.5 \times D_c$
Shoulder milling $a_e \leq 0.5 \times D_c$
Ordering example for the WJ30ED grade: MC232-02.0A4B-WJ30ED

STANDARD		D_c h12 inch	L_c inch	l_1 inch	l_4 inch	d_1 h6 inch	Z	WJ30ED
Shank DIN 6535 HA 	MC232.3.18A4D-	1/8	0.500	2.500	1.083	0.250	4	●
	MC232.6.35A4D-	1/4	0.750	2.500	1.083	0.250	4	●
Shank DIN 6535 HB 	MC232.9.53W4D-	3/8	0.875	3.000	1.437	0.375	4	●
	MC232.12.7W4D-	1/2	1.000	3.500	1.717	0.500	4	●
	MC232.15.9W4D-	5/8	1.250	3.500	1.594	0.625	4	●

Shoulder milling $a_e \leq 0.5 \times D_c$
Slot milling $a_p \leq 0.5 \times D_c$
Ordering example for the WJ30ED grade: MC232.3.18A4D-WJ30ED

☹️☹️☹️ New addition to the product range

WALTER SELECT

Best tool for

☺️
Good

☹️
Average

☹️
Poor

machining conditions

●● Primary application

● Other application

