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Stable roughing with turbo feeds!

Maximum process security including
for difficult-to-access components.

The MaxiMill – Tangent rough milling
system compatible with actively
vibration-damped shell mill adapters

SPECIAL OFFERS

VALID: 01.07.2025 – 30.09.2025

CERATIZIT is a high-technology engineering
group specialised in cutting tools and hard
material solutions.

Tooling a Sustainable Future

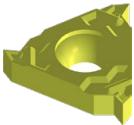
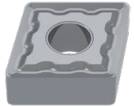
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CERATIZIT
GROUP



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Colour code information

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	Heat-resistant
H	Tempered steel
O	Non metal materials

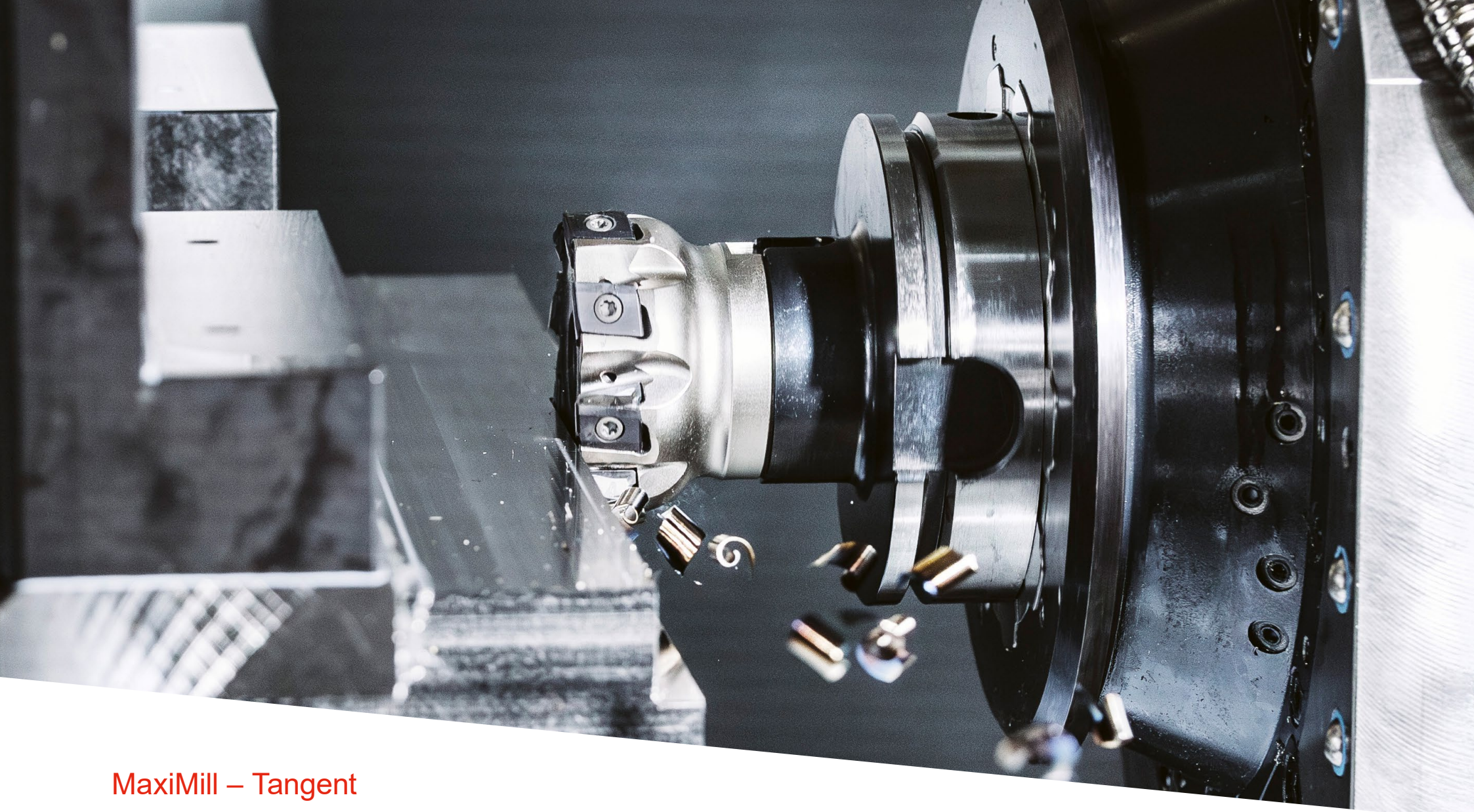
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SEE THE NEW SPECIAL OFFERS E-CATALOGUE

Download your e-Catalogue here



cts.ceratizit.com/ie/en/special-selection



MaxiMill – Tangent

Stable roughing of steel and cast iron

Tangential indexable insert milling cutter with maximum tooth utilisation

The MaxiMill – Tangent guarantees the best cutting edge stability for turbo feeds



cts.ceratizit.com/ie/en/maximill-tangent

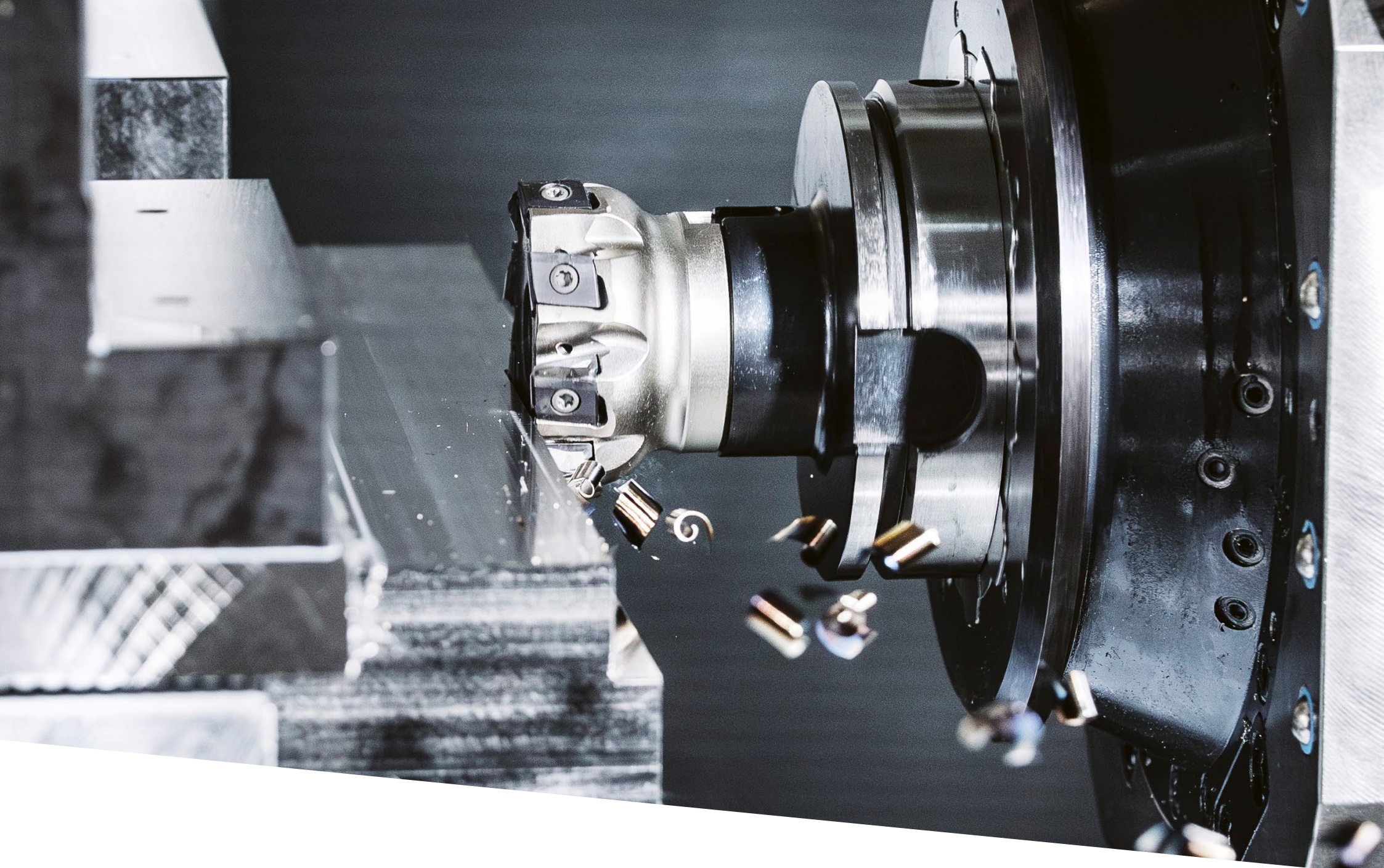
Do you know that? Do you have to process a component and can't see the process because of all the disruptive contours? Face milling cutters are completely out of the running, especially when long overhang lengths make stable, low-vibration machining impossible.

What might at first glance appear an insoluble dilemma, just needs the right tool – like the new **MaxiMill – Tangent**. This tangential indexable insert cutter shows its true colours when machining steel and cast iron components.

... also compatible with actively vibration-damped adapter

→ for maximum process security including for difficult-to-access components





MaxiMill – Tangent

Stable roughing of steel and cast iron



cts.ceratizit.com/ie/en/maximill-tangent

Tangential indexable insert milling cutter with maximum tooth utilisation

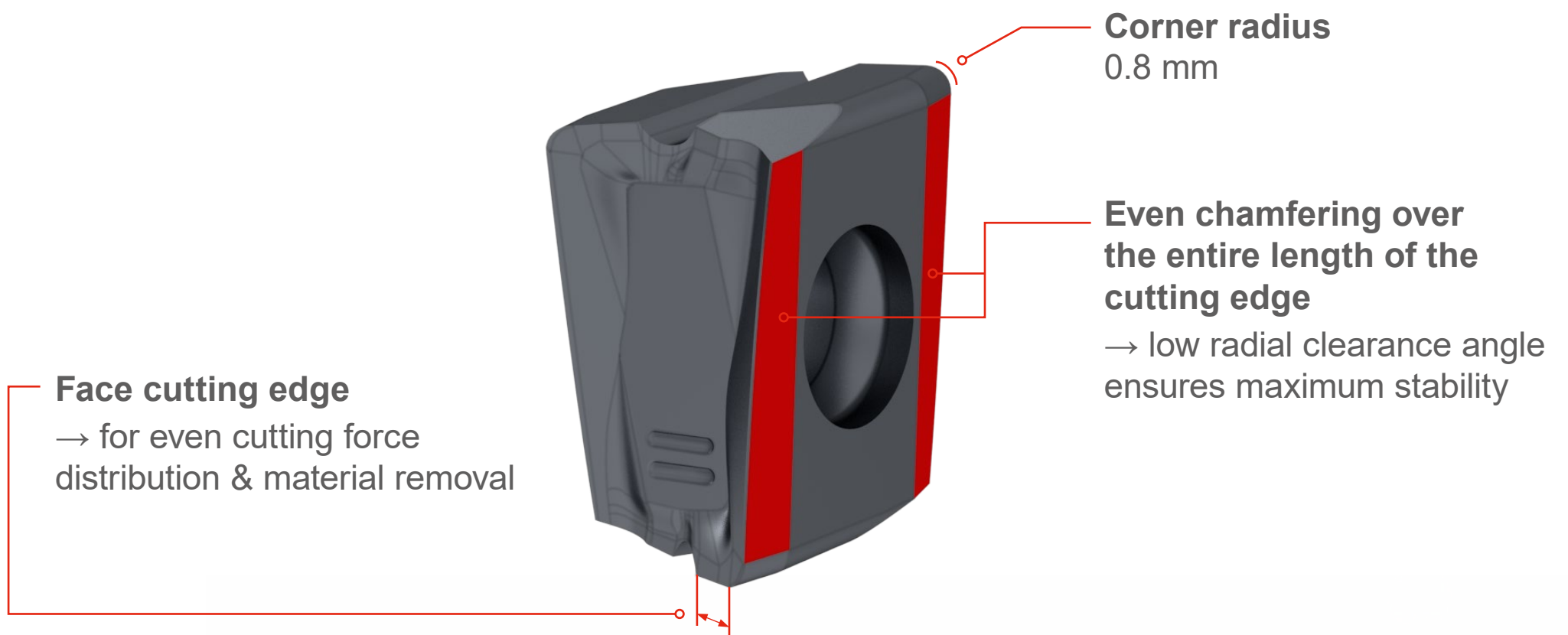
The MaxiMill – Tangent guarantees the best cutting edge stability for turbo feeds

The advantages of the MaxiMill – Tangent at a glance

- ▲ stable, soft-cutting system
- ▲ rugged design permits up to 50% greater feed rate per tooth
- ▲ wide variety of tool holders with different connections:
G (thread) / A (shell mill adapter) / C (cylindrical shank)
- ▲ maximum number of teeth on the milling body thanks to tangential clamping
- ▲ the best axial and concentric run-out properties due to precision-ground inserts and tight manufacturing tolerances for the tool holder
- ▲ reduced vibration thanks to irregular tooth pitch
- ▲ better accessibility allows for rapid tool change

Ground indexable insert with extra-stable cutting edges

- ▲ Indexable inserts for diverse applications **P / K / S / M**
- ▲ 4 usable cutting edges
- ▲ Chip breakers: -F50 and -M50
- ▲ Precision-ground indexable inserts (size -09 and -13)
- ▲ Max. depth of cut:
 - with insert size -09 > 8 mm
 - with insert size -13 > 12 mm

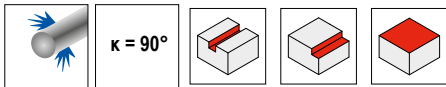


... also compatible with actively vibration-damped adapter

→ for maximum process security including for difficult-to-access components

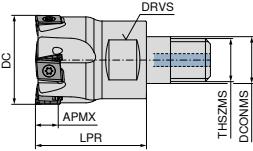


MaxiMill – Tangent-09 screw-in cutter



κ = 90°

Performance



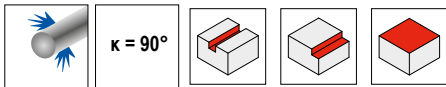


Designation	DC mm	ZNF	APMX mm	LPR mm	DCONMS mm	THSZMS	DRVS mm	RPMX 1/min.	torque moment Nm	Insert
GTANG.25.R.03-09-M12	25	3	8	35	12,5	M12	17	39600	2,2	LN.U 0904
GTANG.25.R.04-09-M12	25	4	8	35	12,5	M12	17	39600	2,2	LN.U 0904
GTANG.32.R.04-09-M16	32	4	8	40	17,0	M16	24	35000	2,2	LN.U 0904
GTANG.32.R.05-09-M16	32	5	8	40	17,0	M16	24	35000	2,2	LN.U 0904

50 355 ... PG 2B/40

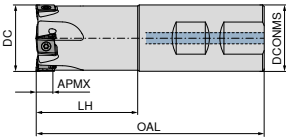
	EUR	EUR
02503	363,00	64,00
02504	466,00	71,00
03204	437,00	77,00
03205	490,00	86,00

MaxiMill – Tangent-09 end mill



κ = 90°

Performance



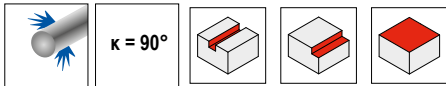


Designation	DC mm	ZNF	APMX mm	OAL mm	LH mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
CTANG.25.R.03-09-B-43-100	25	3	8	100	43	25	39600	2,2	LN.U 0904
CTANG.25.R.04-09-B-43-100	25	4	8	100	43	25	39600	2,2	LN.U 0904
CTANG.32.R.04-09-B-49-110	32	4	8	110	49	32	35000	2,2	LN.U 0904
CTANG.32.R.05-09-B-49-110	32	5	8	110	49	32	35000	2,2	LN.U 0904
CTANG.40.R.04-09-B32-49-110	40	4	8	110	49	32	31300	2,2	LN.U 0904
CTANG.40.R.06-09-B32-49-110	40	6	8	110	49	32	31300	2,2	LN.U 0904

50 354 ... PG 2B/40

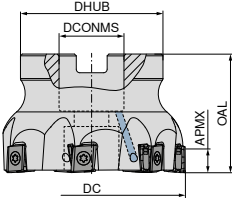
	EUR	EUR
02503	363,00	64,00
02504	466,00	71,00
03204	437,00	77,00
03205	490,00	86,00
04004	454,00	79,00
04006	574,00	101,00

MaxiMill – Tangent-09 face mill



κ = 90°

Performance







Designation	DC mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
ATANG.40.R.04-09-A16	40	4	8	40	38	16	31300	2,2	LN.U 0904
ATANG.40.R.06-09-A16	40	6	8	40	38	16	31300	2,2	LN.U 0904
ATANG.50.R.05-09-A22	50	5	8	40	43	22	28000	2,2	LN.U 0904
ATANG.50.R.07-09-A22	50	7	8	40	43	22	28000	2,2	LN.U 0904
ATANG.63.R.07-09-A22	63	7	8	40	48	22	25000	2,2	LN.U 0904
ATANG.63.R.10-09-A22	63	10	8	40	48	22	25000	2,2	LN.U 0904
ATANG.80.R.08-09-A27	80	8	8	50	58	27	21000	2,2	LN.U 0904
ATANG.80.R.11-09-A27	80	11	8	50	58	27	21000	2,2	LN.U 0904

50 353 ... PG 2B/40

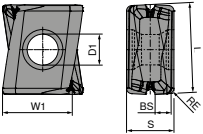
	EUR	EUR
04006	574,00	101,00
05007	620,00	109,00
06310	794,00	139,00
08011	977,00	172,00

50 353 ... PG 2B/40

	EUR	EUR
04004	454,00	79,00
05005	500,00	88,00
06307	594,00	103,00
08008	682,00	120,00

LNHU

Designation	D1 mm	L mm	BS mm	S mm	W1 mm
LNHU 0904..	3,45	9,3	1	4,8	8



LNHU

Performance

NEW

-M50
CTCP230
DRAGONSKIN
LNHU

NEW

-M50
CTPP235
DRAGONSKIN
LNHU

NEW

-M50
CTCM245
DRAGONSKIN
LNHU

NEW

-M50
CTCK215
DRAGONSKIN
LNHU

NEW

-M50
CTPK220
DRAGONSKIN
LNHU

NEW

-F40
CTC5240
DRAGONSKIN
LNHU

ISO	51 257 ... PG 1B/61	51 257 ... PG 1B/61	51 257 ... PG 1H/17	51 257 ... PG 1B/61	51 257 ... PG 1B/61	51 258 ... PG 1H/17
	EUR	EUR	EUR	EUR	EUR	EUR
090404	00400	21,80 14,00	10400	21,80 14,00	40401	27,70 19,00

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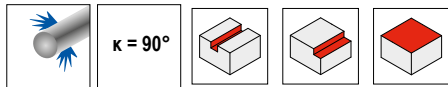
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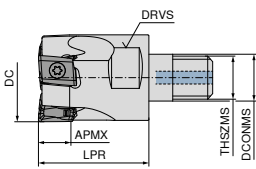
•

MaxiMill – Tangent-13 screw-in cutter



$\kappa = 90^\circ$

Performance





Designation	DC mm	ZNF	APMX mm	LPR mm	DCONMS mm	THSZMS	DRVS mm	RPMX 1/min.	torque moment Nm	Insert
GTANG.32.R.03-13-M16	32	3	12	35	17	M16	24	25000	5,0	LN.U 1306
GTANG.40.R.04-13-M16	40	4	12	40	17	M16	27	22500	5,0	LN.U 1306

50 352 ... PG 2B/40

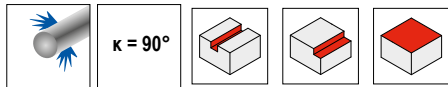
EUR

EUR

03203~~246,00~~43,00

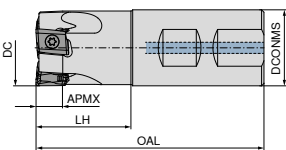
04004~~454,00~~79,00

MaxiMill – Tangent-13 end mill



$\kappa = 90^\circ$

Performance





Designation	DC mm	ZNF	APMX mm	OAL mm	LH mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
CTANG.32.R.03-13-B32-40	32	3	12	96	40	32	25000	5,0	LN.U 1306
CTANG.40.R.04-13-B32-50	40	4	12	110	50	32	22500	5,0	LN.U 1306

50 351 ... PG 2B/40

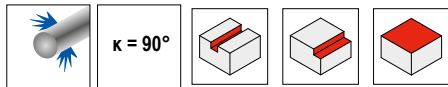
EUR

EUR

03203~~246,00~~43,00

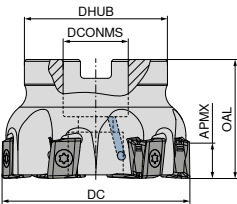
04004~~454,00~~79,00

MaxiMill – Tangent-13 face mill



$\kappa = 90^\circ$

Performance







Designation	DC mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
ATANG.40.R.04-13-A16	40	4	12	40	38	16	22500	5,0	LN.U 1306
ATANG.40.R.05-13-A16	40	5	12	40	38	16	22500	5,0	LN.U 1306
ATANG.40.R.05-13-A22	40	5	12	40	38	22	22500	5,0	LN.U 1306
ATANG.50.R.05-13-A22	50	5	12	40	43	22	20200	5,0	LN.U 1306
ATANG.50.R.06-13-A22	50	6	12	40	43	22	20200	5,0	LN.U 1306
ATANG.50.R.06-13-A27	50	6	12	45	48	27	20200	5,0	LN.U 1306
ATANG.63.R.06-13-A22	63	6	12	40	48	22	18000	5,0	LN.U 1306
ATANG.63.R.08-13-A22	63	8	12	40	48	22	18000	5,0	LN.U 1306
ATANG.80.R.07-13-A27	80	7	12	50	58	27	15900	5,0	LN.U 1306
ATANG.80.R.10-13-A27	80	10	12	50	58	27	15900	5,0	LN.U 1306
ATANG.100.R.09-13-A32	100	9	12	50	78	32	14200	5,0	LN.U 1306
ATANG.100.R.13-13-A32	100	13	12	50	78	32	14200	5,0	LN.U 1306
ATANG.125.R.11-13-A40	125	11	12	63	88	40	12700	5,0	LN.U 1306
ATANG.125.R.16-13-A40	125	16	12	63	88	40	12700	5,0	LN.U 1306

50 350 ... PG 2B/40

EUR

EUR

04005~~534,00~~94,00

14005~~534,00~~94,00

05006~~584,00~~102,00

15006~~584,00~~102,00

06308~~700,00~~125,00

08010~~946,00~~161,00

10013~~1.410,00~~196,00

12516~~1.350,00~~238,00

50 350 ... PG 2B/40

EUR

EUR

04004~~454,00~~79,00

05005~~500,00~~88,00

06306~~594,00~~103,00

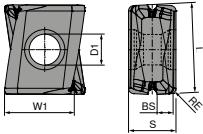
08007~~682,00~~120,00

10009~~866,00~~152,00

12511~~968,00~~170,00

LNHU

Designation	D1 mm	L mm	BS mm	S mm	W1 mm
LNHU 1306..	4,5	13,3	1,5	7,0	10,2



LNHU

Performance

NEW

-M50
CTCP230
DRAGONSKIN



LNHU

NEW

-M50
CTPP235
DRAGONSKIN



LNHU

NEW

-F50
CTPM240
DRAGONSKIN



LNHU

NEW

-F50
CTCM245
DRAGONSKIN



LNHU

NEW

-M50
CTCK215
DRAGONSKIN



LNHU

NEW

-M50
CTPK220
DRAGONSKIN



LNHU

ISO	51 255 ... PG 1B/61	51 255 ... PG 1B/61	51 256 ... PG 1B/61	51 256 ... PG 1H/17	51 255 ... PG 1B/61	51 255 ... PG 1B/61
	EUR EUR	EUR EUR	EUR EUR	EUR EUR	EUR EUR	EUR EUR
130608	00800 26,60 18,00	10800 26,60 18,00	40800 26,60 18,00	40801 23,20 23,00	50800 26,60 18,00	60800 26,60 18,00

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HSS DRILLING



UNI – universal geometry for all applications and materials up to 10xD.



WT – problem solver for difficult to machine materials and applications.



VX – high performance drill for all applications – nominal shank.

NC spot drills, factory standard and high-performance twist drills

	NC-A	UNI	WT	VX	UNI	VX	UNI
		TiN ≤ 3xD DIN 1897 	TiN ≤ 3xD DIN 1897 	TiN ≤ 3xD ≈DIN 1897 	TiN ≤ 5xD DIN 338 	TiN ≤ 5xD ≈DIN 338 	TiN ≤ 10xD DIN 340 
	Performance	Performance	Performance	Performance	Performance	Performance	Performance
DC _{h8/h6}	10 520 ...	10 107 ...	10 110 ...	10 122 ...	10 171 ...	10 124 ...	10 270 ...
mm	PG T2	PG T2	PG T2	PG T2	PG T2	PG T2	PG T2
	EUR EUR	EUR EUR	EUR EUR	EUR EUR	EUR EUR	EUR EUR	EUR EUR
0,90							
1,00							
1,10							
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K	●	●	●	●	●	●	●
N	○	○	○	○	○	○	○
S	○	○	○	○	○	○	○
H							
O	○	○	○	○	○	○	○

1) self-centering
Ø DC_{h8} for Type UNI, WT and VX / Ø DC_{h6} for Type NC-A



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NC spot drills, factory standard and high-performance twist drills

	NC-A	UNI	WT	VX	UNI	VX	UNI
		TiN ≤ 3xD DIN 1897 	TiN ≤ 3xD DIN 1897 	TiN ≤ 3xD ≈DIN 1897 	TiN ≤ 5xD DIN 338 	TiN ≤ 5xD ≈DIN 338 	TiN ≤ 10xD DIN 340 
	Performance	Performance	Performance	Performance	Performance	Performance	Performance
DC _{h8/h6}	10 520 ...	10 107 ...	10 110 ...	10 122 ...	10 171 ...	10 124 ...	10 270 ...
mm	PG T2	PG T2	PG T2	PG T2	PG T2	PG T2	PG T2
	EUR EUR	EUR EUR	EUR EUR	EUR EUR	EUR EUR	EUR EUR	EUR EUR
7,10		071 1) 13,80 9,60		071 35,70 27,60	071 1) 11,88 10,80	071 11,54 34,80	071 17,21 16,80
7,14		714 1) 18,17 16,80			714 1) 17,77 15,60		
7,20		072 1) 14,22 9,60	072 15,73 12,00	072 35,67 27,60	072 1) 11,84 10,80	072 11,54 34,80	072 19,53 19,20
7,30		073 1) 15,15 9,60		073 35,67 27,60	073 1) 12,29 10,80	073 11,54 34,80	073 20,35 19,20
7,40		074 1) 14,34 9,60	074 15,84 12,00	074 35,70 27,60	074 1) 12,02 10,80	074 11,54 34,80	074 21,17 20,40
7,45				745 35,70 27,60	745 1) 10,94 8,40		
7,50		075 1) 11,83 9,60	075 12,13 9,60	075 25,69 19,20	075 1) 10,94 8,40		
7,55						075 11,54 34,80	075 21,45 20,40
7,60		076 1) 18,46 9,60	076 17,63 13,20	076 35,93 28,80	076 1) 13,28 12,00	076 12,44 34,80	076 23,18 22,80
7,70		077 1) 19,96 9,60	077 17,63 13,20	077 40,93 30,00	077 1) 15,15 13,20	077 12,44 34,80	077 22,81 21,60
7,80		078 1) 15,31 9,60	078 17,77 13,20	078 40,93 30,00	078 1) 12,95 12,00	078 12,44 34,80	078 24,03 24,00
7,90		079 1) 21,33 9,60	079 17,77 13,20	079 40,93 30,00	079 1) 15,14 13,20	079 12,44 34,80	079 23,22 22,80
7,94		794 1) 14,62 10,80			794 1) 13,92 12,00		
8,00	080 16,12 12,00	080 1) 14,25 9,60	080 12,66 9,60	080 26,38 20,40	080 1) 12,95 10,80	080 12,44 34,80	080 19,68 19,20
8,10		081 1) 18,03 12,00		081 43,98 34,80	081 1) 13,19 12,00	081 12,44 34,80	081 21,57 20,40
8,20		082 1) 18,72 12,00	082 17,90 13,20	082 43,98 34,80	082 1) 13,28 13,20	082 12,44 34,80	082 23,65 22,80
8,30		083 1) 19,68 12,00		083 43,98 34,80	083 1) 14,75 13,20	083 12,44 34,80	083 25,15 24,00
8,40		084 1) 18,90 12,00	084 18,17 14,40	084 43,98 34,80	084 1) 14,75 14,40	084 12,44 34,80	084 26,81 26,40
8,50		085 1) 16,52 12,00	085 15,15 12,00	085 29,70 22,80	085 1) 12,71 9,60	085 12,44 34,80	085 23,18 22,80
8,60		086 1) 18,46 14,40		086 45,91 36,00	086 1) 22,26 15,60	086 12,44 34,80	086 23,18 22,80
8,70		087 1) 21,17 16,80	087 18,57 14,40	087 45,91 36,00	087 1) 22,26 15,60	087 12,44 34,80	087 23,22 22,80
8,73		873 1) 25,96 19,20			873 1) 13,66 12,00		
8,80		088 1) 20,50 15,60	088 18,72 14,40	088 45,91 36,00	088 1) 14,75 13,20	088 12,44 34,80	088 23,65 22,80
8,90		089 1) 26,22 20,40		089 45,91 36,00	089 1) 20,65 20,40	089 12,44 34,80	089 23,65 22,80
9,00		090 1) 16,80 12,00	090 15,31 12,00	090 32,80 25,20	090 1) 13,92 13,20	090 12,44 34,80	090 24,19 24,00
9,10		091 1) 22,14 16,80		091 56,43 45,60	091 1) 22,94 21,60	091 12,44 34,80	091 24,19 24,00
9,20		092 1) 22,26 16,80	092 24,34 19,20	092 56,43 45,60	092 1) 22,94 22,80	092 12,44 34,80	092 24,19 24,00
9,30		093 1) 18,90 16,80	093 24,34 19,20	093 56,43 45,60	093 1) 16,12 15,60	093 12,44 34,80	093 24,19 24,00
9,35				935 56,43 45,60	935 1) 14,62 12,00		
9,40		094 1) 25,83 20,40	094 24,34 19,20	094 56,43 45,60	094 1) 23,54 18,00	094 12,44 34,80	094 24,19 24,00
9,50		095 1) 18,46 13,20	095 20,89 15,60	095 39,34 31,20	095 1) 14,62 13,20	095 12,44 34,80	095 24,19 24,00
9,55						955 52,20 42,00	
9,60		096 1) 27,07 21,60	096 25,27 19,20	096 42,40 33,60	096 1) 17,49 15,60	096 52,20 42,00	096 25,69 25,20
9,70		097 1) 26,22 20,40	097 25,27 19,20	097 42,40 33,60	097 1) 25,27 15,60	097 52,20 42,00	097 26,81 26,40
9,80		098 1) 22,14 20,40	098 27,07 20,40	098 42,40 33,60	098 1) 17,49 15,60	098 52,20 42,00	098 28,80 28,80
9,90		099 1) 28,00 21,60	099 27,07 20,40	099 42,40 33,60	099 1) 20,76 20,40	099 52,20 42,00	099 31,30 31,20
10,00	100 17,90 13,20	100 1) 18,17 15,60	100 18,72 14,40	100 37,70 30,00	100 1) 16,52 15,60	100 52,20 42,00	100 33,88 33,60
10,10		101 1) 27,07 21,60			101 1) 23,65 20,40	101 64,63 54,00	101 37,17 36,00
10,20		102 1) 23,10 19,20	102 26,22 20,40	102 55,60 44,40	102 1) 19,15 15,60	102 64,63 54,00	102 39,49 33,60
10,30		103 1) 25,15 19,20		103 57,66 45,60	103 1) 20,65 16,80	103 64,63 54,00	103 42,79 40,80
10,40		104 1) 29,38 22,80			104 1) 25,54 21,60	104 64,63 54,00	104 42,79 40,80
10,50		105 1) 22,81 19,20	105 25,81 19,20	105 54,24 43,20	105 1) 19,27 18,00	105 64,63 54,00	105 43,38 40,80
10,55					955 1) 10,96 12,00		
10,70				107 69,12 48,00		107 70,92 58,80	
10,80			108 56,16 44,40	108 57,78 45,60		108 70,92 58,80	
11,00		110 1) 24,83 22,80	110 25,81 19,20	110 54,24 43,20	110 1) 19,96 18,00	110 68,80 49,20	110 51,52 50,40
11,10		111 1) 28,56 22,80		111 53,84 43,20			
11,11					111 1) 25,81 18,00		
11,20					112 1) 22,14 18,00	112 65,44 52,80	
11,30					113 1) 22,14 18,00	113 65,44 52,80	
11,40					114 1) 22,14 18,00	114 65,44 52,80	
11,50		115 1) 28,14 22,80	115 26,50 20,40	115 56,43 45,60	115 1) 22,14 18,00	115 65,44 52,80	115 52,85 51,60
11,60					116 1) 23,65 18,00	116 70,63 58,80	
11,70						117 70,63 58,80	
11,80			118 31,55 24,00	117 61,40 51,60		117 70,63 58,80	
11,90				118 67,63 54,00		118 70,63 58,80	
12,00	120 25,96 20,40	120 1) 27,46 22,80	120 30,75 22,80	119 84,99 68,40	120 1) 23,65 18,00	119 70,63 58,80	120 52,59 51,60
12,10				120 65,99 52,80		120 70,63 58,80	
12,15				121 47,96 38,40	121 1) 24,59 18,00		
12,20						122 80,47 67,20	
12,30		123 1) 45,70 28,80	123 46,98 36,00	123 87,85 69,60	123 1) 42,36 36,00	123 80,47 67,20	
12,50		125 1) 29,93 28,80	125 31,55 24,00	125 68,84 54,00	925 1) 24,59 12,00	125 80,47 67,20	125 57,66 55,20
12,70		127 1) 37,98 28,80		127 160,30 120,00	127 1) 22,12 27,60	127 86,12 70,80	
12,80			128 50,58 45,60	128 71,32 56,40		128 86,12 70,80	
13,00		130 1) 29,93 28,80	130 32,38 25,20	130 73,99 57,60	130 1) 26,10 22,80	130 94,54 78,00	130 62,71 60,00
13,10					131 1) 46,46 27,60		
13,30					133 1) 46,46 27,60		
13,50		135 1) 31,95 28,80	135 35,26 27,60	135 107,90 87,60	135 1) 46,46 27,60	135 122,20 102,00	135 63,79 48,00
14,00		140 1) 39,90 28,80	140 36,60 28,80	140 107,90 87,60	140 1) 31,71 27,60	140 122,20 102,00	140 66,40 60,00
14,50			145 37,38 28,80	145 138,80 111,60		145 167,20 130,80	
15,00			150 38,55 30,00	150 130,10 105,60		150 147,60 122,40	
15,50			155 50,40 39,60	155 142,10 114,00		155 159,90 132,00	
15,75			157 52,73 42,00				
16,00	160 34,91 26,40	160 49,73 38,40	160 49,73 38,40	160 136,20 110,40		160 154,50 128,40	
16,50		165 74,61 57,60	165 74,61 57,60	165 211,80 170,40		165 237,70 199,20	
17,00		170 72,81 56,40	170 72,81 56,40	170 211,80 170,40		170 237,70 199,20	
17,50		175 68,86 52,80	175 68,86 52,80	175 211,80 170,40		175 237,70 199,20	
17,75		177 89,62 64,80					
18,00		180 78,70 62,40	180 78,70 62,40	180 211,80 170,40		180 237,70 199,20	
18,50		185 88,95 69,60	185 88,95 69,60	185 211,80 170,40		185 237,70 199,20	
19,00		190 86,78 68,40	190 86,78 68,40	190 211,80 170,40		190 237,70 199,20	
19,50		195 97,42 76,80	195 97,42 76,80	195 211,80 170,40		195 237,70 199,20	
20,00	200 54,78 43,20	200 92,90 73,20	200 92,90 73,20	200 187,30 152,40		200 213,30 176,40	
P	●	●	●	●	●	●	●
M	○	●	●	●	●	●	●
K	●	●	●	●	●	●	●
N	○	○	○	○	○	○	○
S	○	○	●	○	○	○	○
H			○				
O	○	○		○	○	○	○

1) self-centering

 Ø DC_{h8} for Type UNI, WT and VX / Ø DC_{h6} for Type NC-A



SOLID CARBIDE DRILLING



WPC UNI – for all materials and applications up to 12xD.

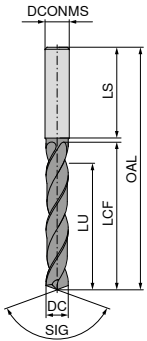


WPC VA – for stainless and corrosion resistant steels up to 5xD.



WTX Change – good solution for lathes with mis-alignment and lower powered machines. Cost effective solution in larger diameters above Ø 20 mm in 0.1 mm increments.

WPC – High Performance Drill, DIN 6537



HB shanks also available at same prices

VA

TiAlN

≤ 3xD

DIN 6537

SIG 140°

Standard

VA

TiAlN

≤ 3xD

DIN 6537

SIG 140°

Standard

UNI

TiAlN

≤ 3xD

DIN 6537

SIG 140°

Standard

UNI

TiAlN

≤ 3xD

DIN 6537

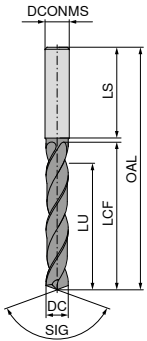
SIG 140°

Standard

DC _{m7}	DCONMS _{h6}	OAL	LCF	LU	LS
mm	mm	mm	mm	mm	mm
1,00	4	45	7	5,5	28
1,10	4	45	7	5,3	28
1,20	4	45	7	5,2	28
1,30	4	45	7	5,0	28
1,40	4	45	7	4,9	28
1,50	4	55	14	11,7	28
1,60	4	55	14	11,6	28
1,70	4	55	14	11,4	28
1,80	4	55	14	11,3	28
1,90	4	55	14	11,1	28
2,00	4	55	20	17,0	28
2,10	4	55	20	16,8	28
2,20	4	55	20	16,7	28
2,30	4	55	20	16,5	28
2,40	4	55	20	16,4	28
2,50	4	55	20	16,2	28
2,60	4	55	20	16,1	28
2,70	4	55	20	15,9	28
2,80	4	55	20	15,8	28
2,90	4	55	20	15,6	28
3,00	6	62	20	14,0	36
3,10	6	62	20	14,0	36
3,20	6	62	20	14,0	36
3,25	6	62	20	14,0	36
3,30	6	62	20	14,0	36
3,40	6	62	20	14,0	36
3,50	6	62	20	14,0	36
3,60	6	62	20	14,0	36
3,70	6	62	20	14,0	36
3,80	6	66	24	17,0	36
3,90	6	66	24	17,0	36
4,00	6	66	24	17,0	36
4,10	6	66	24	17,0	36
4,20	6	66	24	17,0	36
4,30	6	66	24	17,0	36
4,40	6	66	24	17,0	36
4,50	6	66	24	17,0	36
4,60	6	66	24	17,0	36
4,65	6	66	24	17,0	36
4,70	6	66	24	17,0	36
4,80	6	66	28	20,0	36
4,90	6	66	28	20,0	36
5,00	6	66	28	20,0	36
5,10	6	66	28	20,0	36
5,20	6	66	28	20,0	36
5,30	6	66	28	20,0	36
5,40	6	66	28	20,0	36
5,50	6	66	28	20,0	36
5,55	6	66	28	20,0	36
5,60	6	66	28	20,0	36
5,65	6	66	28	20,0	36
5,70	6	66	28	20,0	36
5,80	6	66	28	20,0	36
5,90	6	66	28	20,0	36
6,00	6	66	28	20,0	36
6,10	8	79	34	24,0	36
6,20	8	79	34	24,0	36
6,30	8	79	34	24,0	36
6,40	8	79	34	24,0	36
6,50	8	79	34	24,0	36
6,60	8	79	34	24,0	36
6,70	8	79	34	24,0	36
6,80	8	79	34	24,0	36
6,90	8	79	34	24,0	36
7,00	8	79	34	24,0	36
7,10	8	79	41	29,0	36
7,20	8	79	41	29,0	36
7,30	8	79	41	29,0	36
7,40	8	79	41	29,0	36
7,50	8	79	41	29,0	36
7,55	8	79	41	29,0	36
7,60	8	79	41	29,0	36
7,65	8	79	41	29,0	36
7,70	8	79	41	29,0	36

11 713 ...	PG T1/9C		11 711 ...	PG T1/9C		11 700 ...	PG T1/9C		11 706 ...	PG T1/9C	
	EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR
01000	48,05	30,00	01000	34,53	25,20	01000	39,24	25,20	01000	33,84	21,60
01100	48,05	30,00	01100	34,53	25,20	01100	39,24	25,20	01100	33,84	21,60
01200	48,05	30,00	01200	34,53	25,20	01200	39,24	25,20	01200	33,84	21,60
01300	48,05	30,00	01300	34,53	25,20	01300	39,24	25,20	01300	33,84	21,60
01400	48,05	30,00	01400	34,53	25,20	01400	39,24	25,20	01400	33,84	21,60
01500	48,05	30,00	01500	34,53	25,20	01500	39,24	25,20	01500	33,84	21,60
01600	48,05	30,00	01600	34,53	25,20	01600	39,24	25,20	01600	33,84	21,60
01700	48,05	30,00	01700	34,53	25,20	01700	39,24	25,20	01700	33,84	21,60
01800	48,05	30,00	01800	34,53	25,20	01800	39,24	25,20	01800	33,84	21,60
01900	48,05	30,00	01900	34,53	25,20	01900	39,24	25,20	01900	33,84	21,60
02000	48,05	30,00	02000	34,46	22,80	02000	39,24	25,20	02000	36,83	20,40
02100	48,05	30,00	02100	34,46	22,80	02100	39,24	25,20	02100	36,83	20,40
02200	48,05	30,00	02200	34,46	22,80	02200	39,24	25,20	02200	36,83	20,40
02300	48,05	30,00	02300	34,46	22,80	02300	39,24	25,20	02300	36,83	20,40
02400	48,05	30,00	02400	34,46	22,80	02400	39,24	25,20	02400	36,83	20,40
02500	48,05	30,00	02500	34,46	22,80	02500	39,24	25,20	02500	36,83	20,40
02600	48,05	30,00	02600	34,46	22,80	02600	39,24	25,20	02600	36,83	20,40
02700	48,05	30,00	02700	34,46	22,80	02700	39,24	25,20	02700	36,83	20,40
02800	48,05	30,00	02800	34,46	22,80	02800	39,24	25,20	02800	36,83	20,40
02900	48,05	30,00	02900	34,46	22,80	02900	39,24	25,20	02900	36,83	20,40
03000	34,82	25,20	03000	30,49	22,80	03000	34,42	21,60	03000	29,85	19,20
03100	34,82	25,20	03100	30,49	22,80	03100	34,42	21,60	03100	29,85	19,20
03200	34,82	25,20	03200	30,49	22,80	03200	34,42	21,60	03200	29,85	19,20
03300	34,82	25,20	03300	30,49	22,80	03250	34,42	21,60	03250	29,85	19,20
03400	34,82	25,20	03400	30,49	22,80	03300	34,42	21,60	03300	29,85	19,20
03500	34,82	25,20	03500	30,49	22,80	03400	34,42	21,60	03400	29,85	19,20
03600	34,82	25,20	03600	30,49	22,80	03500	34,42	21,60	03500	29,85	19,20
03700	34,82	25,20	03700	30,49	22,80	03600	34,42	21,60	03600	29,85	19,20
03800	34,82	25,20	03800	30,49	22,80	03700	34,42	21,60	03700	29,85	19,20
03900	34,82	25,20	03900	30,49	22,80	03800	34,42	21,60	03800	29,85	19,20
04000	34,82	25,20	04000	30,49	22,80	03900	34,42	21,60	03900	29,85	19,20
04100	34,82	25,20	04100	30,49	22,80	04000	34,42	21,60	04000	29,85	19,20
04200	34,82	25,20	04200	30,49	22,80	04100	34,42	21,60	04100	29,85	19,20
04300	34,82	25,20	04300	30,49	22,80	04200	34,42	21,60	04200	29,85	19,20
04400	34,82	25,20	04400	30,49	22,80	04300	34,42	21,60	04300	29,85	19,20
04500	34,82	25,20	04500	30,49	22,80	04400	34,42	21,60	04400	29,85	19,20
04600	34,82	25,20	04600	30,49	22,80	04500	34,42	21,60	04500	29,85	19,20
04700	34,82	25,20	04700	30,49	22,80	04600	34,42	21,60	04600	29,85	19,20
04800	34,82	25,20	04800	30,49	22,80	04650	34,42	21,60	04650	29,85	19,20
04900	34,82	25,20	04900	30,49	22,80	04700	34,42	21,60	04700	29,85	19,20
05000	34,82	25,20	05000	30,49	22,80	04800	34,42	21,60	04800	29,85	19,20
05100	34,82	25,20	05100	30,49	22,80	04900	34,42	21,60	04900	29,85	19,20
05200	34,82	25,20	05200	30,49	22,80	05000	34,42	21,60	05000	29,85	19,20
05300	34,82	25,20	05300	30,49	22,80	05100	34,42	21,60	05100	29,85	19,20
05400	34,82	25,20	05400	30,49	22,80	05200	34,42	21,60	05200	29,85	19,20
05500	34,82	25,20	05500	30,49	22,80	05300	34,42	21,60	05300	29,85	19,20
05600	34,82	25,20	05600	30,49	22,80	05400	34,42	21,60	05400	29,85	19,20
05700	34,82	25,20	05700	30,49	22,80	05500	34,42	21,60	05500	29,85	19,20
05800	34,82	25,20	05800	30,49	22,80	05550	34,42	21,60	05550	29,85	19,20
05900	34,82	25,20	05900	30,49	22,80	05600	34,42	21,60	05600	29,85	19,20
06000	34,82	25,20	06000	30,49	22,80	05650	34,42	21,60	05650	29,85	19,20
06100	47,57	34,80	06100	30,59	22,80	05700	34,42	21,60	05700	29,85	19,20
06200	47,57	34,80	06200	30,59	22,80	05800	34,42	21,60	05800	29,85	19,20
06300	47,57	34,80	06300	30,59	22,80	05900	34,42	21,60	05900	29,85	19,20
06400	47,57	34,80	06400	30,59	22,80	06000	34,42	21,60	06000	29,85	19,20
06500	47,57	34,80	06500	30,59	22,80	06100	46,60	30,00	06100	29,97	19,20
06600	47,57	34,80	06600	30,59	22,80	06200	46,60	30,00	06200	29,97	19,20
06700	47,57	34,80	06700	30,59	22,80	06300	46,60	30,00	06300	29,97	19,20
06800	47,57	34,80	06800	30,59	22,80	06400	46,60	30,00	06400	29,97	19,20
06900	47,57	34,80	06900	30,59	22,80	06500	46,60	30,00	06500	29,97	19,20
07000	47,57	34,80	07000	30,59	22,80	06600	46,60	30,00	06600	29,97	19,20
07100	47,57	34,80	07100	30,59	22,80	06700	46,60	30,00	06700	29,97	19,20
07200	47,57	34,80	07200	30,59	22,80	06800	46,60	30,00	06800	29,97	19,20
07300	47,57	34,80	07300	30,59	22,80	06900	46,60	30,00	06900	29,97	19,20
07400	47,57	34,80	07400	30,59	22,80	07000	46,60	30,00	07000	29,97	19,20
07500	47,57	34,80	07500	30,59	22,80	07100	46,60	30,00	07100	29,97	19,20
07600	47,57	34,80	07600	30,59	22,80	07200	46,60	30,00	07200	29,97	19,20
07700	47,57	34,80	07700	30,59	22,80	07300	46,60	30,00	07300	29,97	19,20
07800	47,57	34,80	07800	30,59	22,80	07400	46,60	30,00	07400	29,97	19,20
07900	47,57	34,80	07900	30,59	22,80	07500	46,60	30,00	07500	29,97	19,20
08000	47,57	34,80	08000	30,59	22,80	07600	46,60	30,00	07600	29,97	19,20
08100	47,57	34,80	08100	30,59	22,80	07700	46,60	30,00	07700	29,97	19,20
08200	47,57	34,80	08200	30,59	22,80	07800	46,60	30,00	07800	29,97	19,20
08300	47,57	34,80	08300	30,59	22,80	07900	46,60	30,00	07900	29,97	19,20
08400	47,57	34,80	08400	30,59	22,80	08000	46,60	30,00	08000	29,97	19,20
08500	47,57	34,80	08500	30,59	22,80	08100	46,60	30,00	08100	29,97	19,20
08600	47,57	34,80	08600	30,59	22,80	08200	46,60	30,00	08200	29,97	19,20
08700	47,57	34,80	08700	30,59	22,80	08300	46,60	30,00	08300	29,97	19,20
08800	47,57	34,80	08800	30,59	22,80	08400	46,60	30,00	08400	29,97	19,20
08900	47,57	34,80	08900	30,59	22,80	08500	46,60	30,00	08500	29,97	19,20
09000	47,57	34,80	09000	30,59	22,80	08600	46,60	30,00	08600	29,97	19,20
09100	47,57	34,80	09100	30,59	22,80	08700	46,60	30,00	08700	29,97	19,20
09200	47,57	34,80	09200	30,59	22,80	08800	46,60	30,00	08800	29,97	19,20
09300	47,57	34,80	09300	30,59	22,80	08900	46,60	30,00	08900	29,97	19,20
09400	47,57	34,80	09400	30,59	22,80	09000	46,60	30,00	09000	29,97	19,20
09500	47,57	34,80	09500	30,59	22,80	09100	46,60	30,00	09100	29,97	19,20
09600	47,57	34,80	09600	30,59	22,80	09200	46,60	30,00	09200	29,97	19,20
09700	47,57	34									

WPC – High Performance Drill, DIN 6537



HB shanks also available at same prices

VA

TiAlN

≤ 3xD

DIN 6537

SIG 140°

Standard

VA

TiAlN

≤ 3xD

DIN 6537

SIG 140°

Standard

UNI

TiAlN

≤ 3xD

DIN 6537

SIG 140°

Standard

UNI

TiAlN

≤ 3xD

DIN 6537

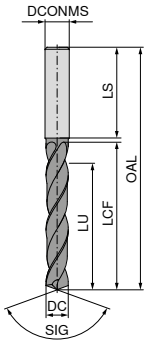
SIG 140°

Standard

DC _{m7}	DCONMS _{h6}	OAL	LCF	LU	LS
mm	mm	mm	mm	mm	mm
7,8	8	79	41	29	36
7,9	8	79	41	29	36
8,0	8	79	41	29	36
8,1	10	89	47	35	40
8,2	10	89	47	35	40
8,3	10	89	47	35	40
8,4	10	89	47	35	40
8,5	10	89	47	35	40
8,6	10	89	47	35	40
8,7	10	89	47	35	40
8,8	10	89	47	35	40
8,9	10	89	47	35	40
9,0	10	89	47	35	40
9,1	10	89	47	35	40
9,2	10	89	47	35	40
9,3	10	89	47	35	40
9,4	10	89	47	35	40
9,5	10	89	47	35	40
9,6	10	89	47	35	40
9,7	10	89	47	35	40
9,8	10	89	47	35	40
9,9	10	89	47	35	40
10,0	10	89	47	35	40
10,1	12	102	55	40	45
10,2	12	102	55	40	45
10,3	12	102	55	40	45
10,4	12	102	55	40	45
10,5	12	102	55	40	45
10,6	12	102	55	40	45
10,7	12	102	55	40	45
10,8	12	102	55	40	45
10,9	12	102	55	40	45
11,0	12	102	55	40	45
11,1	12	102	55	40	45
11,2	12	102	55	40	45
11,3	12	102	55	40	45
11,4	12	102	55	40	45
11,5	12	102	55	40	45
11,6	12	102	55	40	45
11,7	12	102	55	40	45
11,8	12	102	55	40	45
11,9	12	102	55	40	45
12,0	12	102	55	40	45
12,2	14	107	60	43	45
12,3	14	107	60	43	45
12,5	14	107	60	43	45
12,7	14	107	60	43	45
12,8	14	107	60	43	45
12,9	14	107	60	43	45
13,0	14	107	60	43	45
13,1	14	107	60	43	45
13,5	14	107	60	43	45
13,7	14	107	60	43	45
13,8	14	107	60	43	45
14,0	14	107	60	43	45
14,2	16	115	65	45	48
14,4	16	115	65	45	48
14,5	16	115	65	45	48
14,7	16	115	65	45	48
14,8	16	115	65	45	48
15,0	16	115	65	45	48
15,1	16	115	65	45	48
15,2	16	115	65	45	48
15,5	16	115	65	45	48
15,7	16	115	65	45	48
15,8	16	115	65	45	48
16,0	16	115	65	45	48
16,5	18	123	73	51	48
17,0	18	123	73	51	48
17,5	18	123	73	51	48
18,0	18	123	73	51	48
18,5	20	131	79	55	50
18,9	20	131	79	55	50
19,0	20	131	79	55	50
19,3	20	131	79	55	50
19,5	20	131	79	55	50
20,0	20	131	79	55	50

11 713 ...	PG T1/9C		11 711 ...	PG T1/9C		11 700 ...	PG T1/9C		11 706 ...	PG T1/9C	
	EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR
07800	47,57	34,80	07800	30,59	22,80	07800	46,60	30,00	07800	29,97	19,20
07900	47,57	34,80	07900	30,59	22,80	07900	46,60	30,00	07900	29,97	19,20
08000	47,57	34,80	08000	30,59	22,80	08000	46,60	30,00	08000	29,97	19,20
08100	53,92	39,60	08100	34,24	25,20	08100	52,92	33,60	08100	33,55	21,60
08200	53,92	39,60	08200	34,24	25,20	08200	52,92	33,60	08200	33,55	21,60
08300	53,92	39,60	08300	34,24	25,20	08300	52,92	33,60	08300	33,55	21,60
08400	53,92	39,60	08400	34,24	25,20	08400	52,92	33,60	08400	33,55	21,60
08500	53,92	39,60	08500	34,24	25,20	08500	52,92	33,60	08500	33,55	21,60
08600	53,92	39,60	08600	34,24	25,20	08600	52,92	33,60	08600	33,55	21,60
08700	53,92	39,60	08700	34,24	25,20	08700	52,92	33,60	08700	33,55	21,60
08800	53,92	39,60	08800	34,24	25,20	08800	52,92	33,60	08800	33,55	21,60
08900	53,92	39,60	08900	34,24	25,20	08900	52,92	33,60	08900	33,55	21,60
09000	53,92	39,60	09000	34,24	25,20	09000	52,92	33,60	09000	33,55	21,60
09100	53,92	39,60	09100	34,24	25,20	09100	52,92	33,60	09100	33,55	21,60
09200	53,92	39,60	09200	34,24	25,20	09200	52,92	33,60	09200	33,55	21,60
09300	53,92	39,60	09300	34,24	25,20	09300	52,92	33,60	09300	33,55	21,60
09400	53,92	39,60	09400	34,24	25,20	09400	52,92	33,60	09400	33,55	21,60
09500	53,92	39,60	09500	34,24	25,20	09500	52,92	33,60	09500	33,55	21,60
09600	53,92	39,60	09600	34,24	25,20	09600	52,92	33,60	09600	33,55	21,60
09700	53,92	39,60	09700	34,24	25,20	09700	52,92	33,60	09700	33,55	21,60
09800	53,92	39,60	09800	34,24	25,20	09800	52,92	33,60	09800	33,55	21,60
09900	53,92	39,60	09900	34,24	25,20	09900	52,92	33,60	09900	33,55	21,60
10000	53,92	39,60	10000	34,24	25,20	10000	52,92	33,60	10000	33,55	21,60
10100	77,69	57,60	10100	51,65	38,40	10100	76,13	49,20	10100	50,59	33,60
10200	77,69	57,60	10200	51,65	38,40	10200	76,13	49,20	10200	50,59	33,60
10300	77,69	57,60	10300	51,65	38,40	10300	76,13	49,20	10300	50,59	33,60
10400	77,69	57,60	10400	51,65	38,40	10400	76,13	49,20	10400	50,59	33,60
10500	77,69	57,60	10500	51,65	38,40	10500	76,13	49,20	10500	50,59	33,60
10600	77,69	57,60	10600	51,65	38,40	10600	76,13	49,20	10600	50,59	33,60
10700	77,69	57,60	10700	51,65	38,40	10700	76,13	49,20	10700	50,59	33,60
10800	77,69	57,60	10800	51,65	38,40	10800	76,13	49,20	10800	50,59	33,60
10900	77,69	57,60	10900	51,65	38,40	10900	76,13	49,20	10900	50,59	33,60
11000	77,69	57,60	11000	51,65	38,40	11000	76,13	49,20	11000	50,59	33,60
11100	77,69	57,60	11100	51,65	38,40	11100	76,13	49,20	11100	50,59	33,60
11200	77,69	57,60	11200	51,65	38,40	11200	76,13	49,20	11200	50,59	33,60
11300	77,69	57,60	11300	51,65	38,40	11300	76,13	49,20	11300	50,59	33,60
11400	77,69	57,60	11400	51,65	38,40	11400	76,13	49,20	11400	50,59	33,60
11500	77,69	57,60	11500	51,65	38,40	11500	76,13	49,20	11500	50,59	33,60
11600	77,69	57,60	11600	51,65	38,40	11600	76,13	49,20	11600	50,59	33,60
11700	77,69	57,60	11700	51,65	38,40	11700	76,13	49,20	11700	50,59	33,60
11800	77,69	57,60	11800	51,65	38,40	11800	76,13	49,20	11800	50,59	33,60
11900	77,69	57,60	11900	51,65	38,40	11900	76,13	49,20	11900	50,59	33,60
12000	77,69	57,60	12000	51,65	38,40	12000	76,13	49,20	12000	50,59	33,60
12200	104,10	78,00	12200	69,20	51,60	12200	102,00	66,00	12200	67,77	45,60
12300	104,10	78,00				12300	102,00	66,00			
12500	104,10	78,00	12500	69,20	51,60	12500	102,00	66,00	12500	67,77	45,60
12700	104,10	78,00	12700	69,20	51,60	12700	102,00	66,00	12700	67,77	50,40
12800	104,10	78,00	12800	69,20	51,60	12800	102,00	66,00	12800	67,77	45,60
12900	104,10	78,00				12900	102,00	66,00			
13000	104,10	78,00	13000	69,20	51,60	13000	102,00	66,00	13000	67,77	45,60
			13100	69,20	51,60				13100	67,77	45,60
13500	104,10	78,00	13500	69,20	51,60	13500	102,00	66,00	13500	67,77	45,60
13700	104,10	78,00	13700	69,20	51,60						
13800	104,10	78,00	13800	69,20	51,60	13800	102,00	66,00	13800	67,77	45,60
14000	104,10	78,00	14000	69,20	51,60	14000	102,00	66,00	14000	67,77	45,60
14200	134,40	100,80	14200	99,93	67,20	14200	131,60	85,20	14200	98,12	58,80
14400	134,40	100,80	14400	99,93	67,20	14400	131,60	85,20	14400	98,12	58,80
14500	134,40	100,80	14500	99,93	67,20	14500	131,60	85,20	14500	98,12	58,80
14700	134,40	100,80	14700	99,93	67,20						
14800	134,40	100,80	14800	99,93	67,20	14800	131,60	85,20	14800	98,12	58,80
15000	134,40	100,80	15000	99,93	67,20	15000	131,60	85,20	15000	98,12	58,80
15100	134,40	100,80	15100	99,93	67,20	15100	131,60	85,20	15100	98,12	58,80
15200	134,40	100,80	15200	99,93	67,20	15200	131,60	85,20	15200	98,12	58,80
15500	134,40	100,80	15500	99,93	67,20	15500	131,60	85,20	15500	98,12	58,80
15700	134,40	100,80	15700	99,93	67,20						
15800	134,40	100,80	15800	99,93	67,20	15800	131,60	85,20	15800	98,12	58,80
16000	134,40	100,80	16000	99,93	67,20	16000	131,60	85,20	16000	98,12	58,80
16500	209,90	153,60	16500	162,50	114,00	16500	199,90	129,60	16500	149,30	100,80
17000	209,90	153,60	17000	162,50	114,00	17000	199,90	129,60	17000	149,30	100,80
17500	209,90	153,60	17500	162,50	114,00	17500	199,90	129,60	17500	149,30	100,80
18000	209,90	153,60	18000	162,50	114,00	18000	199,90	129,60	18000	149,30	100,80
18500	224,70	169,20	18500	166,90	124,80	18500	220,20	142,80	18500	163,40	111,60
18900	224,70	169,20	18900	166,90	124,80	18900	220,20	142,80	18900	163,40	111,60
19000	224,70	169,20	19000	166,90	124,80	19000	220,20	142,80	19000	163,40	111,60
19300	224,70	169,20				19300	220,20	142,80			
19500	224,70	169,20	19500	166,90	124,80	19500	220,20	142,80	19500	163,40	111,60
20000	224,70	169,20	20000	166,90	124,80	20000	220,20	142,80	20000	163,40	111,60

WPC – High Performance Drill, DIN 6537



HB shanks also available at same prices

DC _{m7}	DCONMS _{h6}	OAL	LCF	LU	LS
mm	mm	mm	mm	mm	mm
1,00	4	55	8	6,5	28
1,10	4	55	12	10,3	28
1,20	4	55	12	10,2	28
1,30	4	55	12	10,0	28
1,40	4	55	12	9,9	28
1,50	4	55	12	9,7	28
1,60	4	55	16	13,6	28
1,70	4	55	16	13,4	28
1,80	4	55	16	13,3	28
1,90	4	55	16	13,1	28
2,00	4	57	21	18,0	28
2,10	4	57	21	17,8	28
2,20	4	57	21	17,7	28
2,30	4	57	21	17,5	28
2,40	4	57	21	17,4	28
2,50	4	57	21	17,2	28
2,60	4	57	21	17,1	28
2,70	4	57	21	16,9	28
2,80	4	57	21	16,8	28
2,90	4	57	21	16,6	28
3,00	6	66	28	23,0	36
3,10	6	66	28	23,0	36
3,20	6	66	28	23,0	36
3,25	6	66	28	23,0	36
3,30	6	66	28	23,0	36
3,40	6	66	28	23,0	36
3,50	6	66	28	23,0	36
3,60	6	66	28	23,0	36
3,70	6	66	28	23,0	36
3,80	6	74	36	29,0	36
3,85	6	74	36	29,0	36
3,90	6	74	36	29,0	36
4,00	6	74	36	29,0	36
4,10	6	74	36	29,0	36
4,20	6	74	36	29,0	36
4,30	6	74	36	29,0	36
4,40	6	74	36	29,0	36
4,50	6	74	36	29,0	36
4,60	6	74	36	29,0	36
4,65	6	74	36	29,0	36
4,70	6	74	36	29,0	36
4,80	6	82	44	35,0	36
4,90	6	82	44	35,0	36
5,00	6	82	44	35,0	36
5,10	6	82	44	35,0	36
5,20	6	82	44	35,0	36
5,30	6	82	44	35,0	36
5,40	6	82	44	35,0	36
5,50	6	82	44	35,0	36
5,55	6	82	44	35,0	36
5,60	6	82	44	35,0	36
5,65	6	82	44	35,0	36
5,70	6	82	44	35,0	36
5,80	6	82	44	35,0	36
5,90	6	82	44	35,0	36
6,00	6	82	44	35,0	36
6,10	8	91	53	43,0	36
6,20	8	91	53	43,0	36
6,30	8	91	53	43,0	36
6,40	8	91	53	43,0	36
6,50	8	91	53	43,0	36
6,60	8	91	53	43,0	36
6,70	8	91	53	43,0	36
6,80	8	91	53	43,0	36
6,90	8	91	53	43,0	36
7,00	8	91	53	43,0	36
7,10	8	91	53	43,0	36
7,20	8	91	53	43,0	36
7,30	8	91	53	43,0	36
7,40	8	91	53	43,0	36
7,45	8	91	53	43,0	36
7,50	8	91	53	43,0	36
7,55	8	91	53	43,0	36
7,60	8	91	53	43,0	36
7,65	8	91	53	43,0	36
7,70	8	91	53	43,0	36
7,80	8	91	53	43,0	36
7,90	8	91	53	43,0	36
8,00	8	91	53	43,0	36
8,10	10	103	61	49,0	40
8,20	10	103	61	49,0	40
8,30	10	103	61	49,0	40

VA

TiAIN

≤ 5xD

DIN 6537

SIG 140°

Standard

UNI

TiAIN

≤ 5xD

DIN 6537

SIG 140°

Standard

UNI

TiAIN

≤ 5xD

DIN 6537

SIG 140°

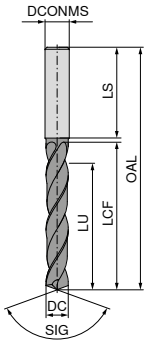
Standard

11 715 ...	PG T1/9C	11 702 ...	PG T1/9C	11 710 ...	PG T1/9C
EUR	EUR	EUR	EUR	EUR	EUR
01000	46,67 34,80	01000	45,70 28,80		
01100	46,67 34,80	01100	45,70 28,80		
01200	46,67 34,80	01200	45,70 28,80		
01300	46,67 34,80	01300	45,70 28,80		
01400	46,67 34,80	01400	45,70 28,80		
01500	46,67 34,80	01500	45,70 28,80		
01600	46,67 34,80	01600	45,70 28,80		
01700	46,67 34,80	01700	45,70 28,80		
01800	46,67 34,80	01800	45,70 28,80		
01900	46,67 34,80	01900	45,70 28,80		
02000	46,67 34,80	02000	45,70 28,80		
02100	46,67 34,80	02100	45,70 28,80		
02200	46,67 34,80	02200	45,70 28,80		
02300	46,67 34,80	02300	45,70 28,80		
02400	46,67 34,80	02400	45,70 28,80		
02500	46,67 34,80	02500	45,70 28,80		
02600	46,67 34,80	02600	45,70 28,80		
02700	46,67 34,80	02700	45,70 28,80		
02800	46,67 34,80	02800	45,70 28,80		
02900	46,67 34,80	02900	45,70 28,80		
03000	45,04 33,60	03000	44,97 28,80	03000	35,66 24,00
03100	45,04 33,60	03100	44,97 28,80	03100	35,66 24,00
03200	45,04 33,60	03200	44,97 28,80	03200	35,66 24,00
		03250	44,97 28,80	03250	35,66 24,00
03300	45,04 33,60	03300	44,97 28,80	03300	35,66 24,00
03400	45,04 33,60	03400	44,97 28,80	03400	35,66 24,00
03500	45,04 33,60	03500	44,97 28,80	03500	35,66 24,00
03600	45,04 33,60	03600	44,97 28,80	03600	35,66 24,00
03700	45,04 33,60	03700	44,97 28,80	03700	35,66 24,00
03800	45,04 33,60	03800	44,97 28,80	03800	35,66 24,00
		03850	44,97 28,80		
03900	45,04 33,60	03900	44,97 28,80	03900	35,66 24,00
04000	45,04 33,60	04000	44,97 28,80	04000	35,66 24,00
04100	45,04 33,60	04100	44,97 28,80	04100	35,66 24,00
04200	45,04 33,60	04200	44,97 28,80	04200	35,66 24,00
04300	45,04 33,60	04300	44,97 28,80	04300	35,66 24,00
04400	45,04 33,60	04400	44,97 28,80	04400	35,66 24,00
04500	45,04 33,60	04500	44,97 28,80	04500	35,66 24,00
04600	45,04 33,60	04600	44,97 28,80	04600	35,66 24,00
		04650	44,97 28,80	04650	35,66 24,00
04700	45,04 33,60	04700	44,97 28,80	04700	35,66 24,00
04800	45,04 33,60	04800	44,97 28,80	04800	35,66 24,00
04900	45,04 33,60	04900	44,97 28,80	04900	35,66 24,00
05000	45,04 33,60	05000	44,97 28,80	05000	35,66 24,00
05100	45,04 33,60	05100	44,97 28,80	05100	35,66 24,00
05200	45,04 33,60	05200	44,97 28,80	05200	35,66 24,00
05300	45,04 33,60	05300	44,97 28,80	05300	35,66 24,00
05400	45,04 33,60	05400	44,97 28,80	05400	35,66 24,00
05500	45,04 33,60	05500	44,97 28,80	05500	35,66 24,00
		05550	44,97 28,80	05550	35,66 24,00
05600	45,04 33,60	05600	44,97 28,80	05600	35,66 24,00
		05650	44,97 28,80	05650	35,66 24,00
05700	45,04 33,60	05700	44,97 28,80	05700	35,66 24,00
05800	45,04 33,60	05800	44,97 28,80	05800	35,66 24,00
05900	45,04 33,60	05900	44,97 28,80	05900	35,66 24,00
06000	45,04 33,60	06000	44,97 28,80	06000	35,66 24,00
06100	52,75 39,60	06100	54,65 33,60	06100	36,24 24,00
06200	52,75 39,60	06200	54,65 33,60	06200	36,24 24,00
06300	52,75 39,60	06300	54,65 33,60	06300	36,24 24,00
06400	52,75 39,60	06400	54,65 33,60	06400	36,24 24,00
06500	52,75 39,60	06500	54,65 33,60	06500	36,24 24,00
06600	52,75 39,60	06600	54,65 33,60	06600	36,24 24,00
06700	52,75 39,60	06700	54,65 33,60	06700	36,24 24,00
06800	52,75 39,60	06800	54,65 33,60	06800	36,24 24,00
06900	52,75 39,60	06900	54,65 33,60	06900	36,24 24,00
07000	52,75 39,60	07000	54,65 33,60	07000	36,24 24,00
07100	52,75 39,60	07100	54,65 33,60	07100	36,24 24,00
07200	52,75 39,60	07200	54,65 33,60	07200	36,24 24,00
07300	52,75 39,60	07300	54,65 33,60	07300	36,24 24,00
07400	52,75 39,60	07400	54,65 33,60	07400	36,24 24,00
07450	52,75 39,60				
07500	52,75 39,60	07500	54,65 33,60	07500	36,24 24,00
07550	52,75 39,60	07550	54,65 33,60	07550	36,24 24,00
07600	52,75 39,60	07600	54,65 33,60	07600	36,24 24,00
		07650	54,65 33,60	07650	36,24 24,00
07700	52,75 39,60	07700	54,65 33,60	07700	36,24 24,00
07800	52,75 39,60	07800	54,65 33,60	07800	36,24 24,00
07900	52,75 39,60	07900	54,65 33,60	07900	36,24 24,00
08000	52,75 39,60	08000	54,65 33,60	08000	36,24 24,00
08100	50,32 44,40	08100	50,08 38,40	08100	30,03 26,40
08200	50,32 44,40	08200	50,08 38,40	08200	30,03 26,40
08300	50,32 44,40	08300	50,08 38,40	08300	30,03 26,40

P	○	●	●
M	●	●	
K		●	●
N	●	○	
S	○		
H			
O	○		



WPC – High Performance Drill, DIN 6537



HB shanks also available at same prices

DC _{m7}	DCONMS _{h6}	OAL	LCF	LU	LS
mm	mm	mm	mm	mm	mm
8,40	10	103	61	49	40
8,50	10	103	61	49	40
8,60	10	103	61	49	40
8,70	10	103	61	49	40
8,80	10	103	61	49	40
8,90	10	103	61	49	40
9,00	10	103	61	49	40
9,10	10	103	61	49	40
9,20	10	103	61	49	40
9,30	10	103	61	49	40
9,40	10	103	61	49	40
9,50	10	103	61	49	40
9,55	10	103	61	49	40
9,60	10	103	61	49	40
9,70	10	103	61	49	40
9,80	10	103	61	49	40
9,90	10	103	61	49	40
10,00	10	103	61	49	40
10,10	12	118	71	56	45
10,20	12	118	71	56	45
10,30	12	118	71	56	45
10,40	12	118	71	56	45
10,50	12	118	71	56	45
10,60	12	118	71	56	45
10,70	12	118	71	56	45
10,80	12	118	71	56	45
10,90	12	118	71	56	45
11,00	12	118	71	56	45
11,10	12	118	71	56	45
11,20	12	118	71	56	45
11,30	12	118	71	56	45
11,40	12	118	71	56	45
11,50	12	118	71	56	45
11,60	12	118	71	56	45
11,70	12	118	71	56	45
11,80	12	118	71	56	45
11,90	12	118	71	56	45
12,00	12	118	71	56	45
12,10	14	124	77	60	45
12,20	14	124	77	60	45
12,40	14	124	77	60	45
12,50	14	124	77	60	45
12,60	14	124	77	60	45
12,70	14	124	77	60	45
12,80	14	124	77	60	45
13,00	14	124	77	60	45
13,10	14	124	77	60	45
13,20	14	124	77	60	45
13,30	14	124	77	60	45
13,50	14	124	77	60	45
13,70	14	124	77	60	45
13,80	14	124	77	60	45
14,00	14	124	77	60	45
14,20	16	133	83	63	48
14,30	16	133	83	63	48
14,40	16	133	83	63	48
14,50	16	133	83	63	48
14,70	16	133	83	63	48
14,80	16	133	83	63	48
15,00	16	133	83	63	48
15,10	16	133	83	63	48
15,20	16	133	83	63	48
15,25	16	133	83	63	48
15,30	16	133	83	63	48
15,50	16	133	83	63	48
15,70	16	133	83	63	48
15,80	16	133	83	63	48
16,00	16	133	83	63	48
16,20	18	143	93	71	48
16,30	18	143	93	71	48
16,50	18	143	93	71	48
16,80	18	143	93	71	48
17,00	18	143	93	71	48
17,30	18	143	93	71	48
17,50	18	143	93	71	48
18,00	18	143	93	71	48
18,50	20	153	101	77	50
18,90	20	153	101	77	50
19,00	20	153	101	77	50
19,20	20	153	101	77	50
19,30	20	153	101	77	50
19,50	20	153	101	77	50
19,70	20	153	101	77	50
20,00	20	153	101	77	50

VA

TiAIN

≤ 5xD

DIN 6537

SIG 140°

Standard

UNI

TiAIN

≤ 5xD

DIN 6537

SIG 140°

Standard

UNI

TiAIN

≤ 5xD

DIN 6537

SIG 140°

Standard

11 715 ...	PG T1/9C	11 702 ...	PG T1/9C	11 710 ...	PG T1/9C
EUR	EUR	EUR	EUR	EUR	EUR
08400	60,32 44,40	08400	59,00 38,40	08400	59,00 26,40
08500	60,32 44,40	08500	59,00 38,40	08500	59,00 26,40
08600	60,32 44,40	08600	59,00 38,40	08600	59,00 26,40
08700	60,32 44,40	08700	59,00 38,40	08700	59,00 26,40
08800	60,32 44,40	08800	59,00 38,40	08800	59,00 26,40
08900	60,32 44,40	08900	59,00 38,40	08900	59,00 26,40
09000	60,32 44,40	09000	59,00 38,40	09000	59,00 26,40
09100	60,32 44,40	09100	59,00 38,40	09100	59,00 26,40
09200	60,32 44,40	09200	59,00 38,40	09200	59,00 26,40
09300	60,32 44,40	09300	59,00 38,40	09300	59,00 26,40
09400	60,32 44,40	09400	59,00 38,40	09400	59,00 26,40
09500	60,32 44,40	09500	59,00 38,40	09500	59,00 26,40
		09550	59,00 38,40		
09600	60,32 44,40	09600	59,00 38,40	09600	59,00 26,40
09700	60,32 44,40	09700	59,00 38,40	09700	59,00 26,40
09800	60,32 44,40	09800	59,00 38,40	09800	59,00 26,40
09900	60,32 44,40	09900	59,00 38,40	09900	59,00 26,40
10000	60,32 44,40	10000	59,00 38,40	10000	59,00 26,40
10100	60,32 67,20	10100	67,87 56,40	10100	67,87 39,60
10200	60,32 67,20	10200	67,87 56,40	10200	67,87 39,60
10300	60,32 67,20	10300	67,87 56,40	10300	67,87 39,60
10400	60,32 67,20	10400	67,87 56,40	10400	67,87 39,60
10500	60,32 67,20	10500	67,87 56,40	10500	67,87 39,60
10600	60,32 67,20	10600	67,87 56,40	10600	67,87 39,60
10700	60,32 67,20	10700	67,87 56,40	10700	67,87 39,60
10800	60,32 67,20	10800	67,87 56,40	10800	67,87 39,60
10900	60,32 67,20	10900	67,87 56,40	10900	67,87 39,60
11000	60,32 67,20	11000	67,87 56,40	11000	67,87 39,60
11100	60,32 67,20	11100	67,87 56,40	11100	67,87 39,60
11200	60,32 67,20	11200	67,87 56,40	11200	67,87 39,60
11300	60,32 67,20	11300	67,87 56,40	11300	67,87 39,60
11400	60,32 67,20	11400	67,87 56,40	11400	67,87 39,60
11500	60,32 67,20	11500	67,87 56,40	11500	67,87 39,60
11600	60,32 67,20	11600	67,87 56,40	11600	67,87 39,60
11700	60,32 67,20	11700	67,87 56,40	11700	67,87 39,60
11800	60,32 67,20	11800	67,87 56,40	11800	67,87 39,60
11900	60,32 67,20	11900	67,87 56,40	11900	67,87 39,60
12000	60,32 67,20	12000	67,87 56,40	12000	67,87 39,60
12100	114,40 85,20	12100	112,10 73,20	12100	78,34 52,80
12200	114,40 85,20	12200	112,10 73,20	12200	78,34 52,80
12400	114,40 85,20	12400	112,10 73,20		
12500	114,40 85,20	12500	112,10 73,20	12500	78,34 52,80
12600	114,40 85,20	12600	112,10 73,20		
12700	114,40 85,20	12700	112,10 84,00	12700	78,34 58,80
12800	114,40 85,20	12800	112,10 73,20	12800	78,34 52,80
13000	114,40 85,20	13000	112,10 73,20	13000	78,34 52,80
13100	114,40 85,20	13100	112,10 73,20		
13200	114,40 85,20	13200	112,10 73,20	13200	78,34 52,80
13300	114,40 85,20	13300	112,10 73,20		
13500	114,40 85,20	13500	112,10 73,20	13500	78,34 52,80
13700	114,40 85,20				
13800	114,40 85,20	13800	112,10 73,20	13800	78,34 52,80
14000	114,40 85,20	14000	112,10 73,20	14000	78,34 52,80
14200	146,00 110,40	14200	143,00 93,60	14200	101,00 68,40
14300	146,00 110,40	14300	143,00 93,60		
14400	146,00 110,40	14400	143,00 93,60	14400	101,00 68,40
14500	146,00 110,40	14500	143,00 93,60	14500	101,00 68,40
14700	146,00 110,40				
14800	146,00 110,40	14800	143,00 93,60	14800	101,00 68,40
15000	146,00 110,40	15000	143,00 93,60	15000	101,00 68,40
15100	146,00 110,40	15100	143,00 93,60		
15200	146,00 110,40	15200	143,00 93,60	15200	101,00 68,40
		15250	143,00 93,60		
15300	146,00 110,40	15300	143,00 93,60		
15500	146,00 110,40	15500	143,00 93,60	15500	101,00 68,40
15700	146,00 110,40				
15800	146,00 110,40	15800	143,00 93,60	15800	101,00 68,40
16000	146,00 110,40	16000	143,00 93,60	16000	101,00 68,40
16200	227,00 170,40	16200	222,40 144,00		
16300	227,00 170,40	16300	222,40 144,00		
16500	227,00 170,40	16500	222,40 144,00	16500	164,00 112,80
16800	227,00 170,40	16800	222,40 144,00		
17000	227,00 170,40	17000	222,40 144,00	17000	164,00 112,80
17300	227,00 170,40	17300	222,40 144,00		
17500	227,00 170,40	17500	222,40 144,00	17500	164,00 112,80
18000	227,00 170,40	18000	222,40 144,00	18000	164,00 112,80
18500	246,00 186,00	18500	244,00 157,20	18500	177,70 120,00
18900	246,00 186,00	18900	244,00 157,20	18900	177,70 120,00
19000	246,00 186,00	19000	244,00 157,20	19000	177,70 120,00
19200	246,00 186,00	19200	244,00 157,20		
19300	246,00 186,00	19300	244,00 157,20		
19500	246,00 186,00	19500	244,00 157,20	19500	177,70 120,00
19700	246,00 186,00	19700	244,00 157,20		
20000	246,00 186,00	20000	244,00 157,20	20000	177,70 120,00

WPC – High Performance Drill, factory standard

UNI

TiAlN

≤ 8xD

DIN 6537

SIG 135°

Standard

UNI

TiAlN

≤ 12xD

DIN 6537

SIG 135°

Standard

DC h7 mm	11 704 ... PG T1/9C		11 705 ... PG T1/9C	
	EUR	EUR	EUR	EUR
3,0	89,47	57,60	03000	120,30 78,00
3,1	89,47	57,60	03100	120,30 78,00
3,2	89,47	57,60	03200	120,30 78,00
3,3	89,47	57,60	03300	120,30 78,00
3,4	89,47	57,60	03400	120,30 78,00
3,5	89,47	57,60	03500	120,30 78,00
3,6	89,47	57,60	03600	120,30 78,00
3,7	89,47	57,60	03700	120,30 78,00
3,8	89,47	57,60	03800	120,30 78,00
3,9	89,47	57,60	03900	120,30 78,00
4,0	89,47	57,60	04000	120,30 78,00
4,1	89,47	57,60	04100	120,30 78,00
4,2	89,47	57,60	04200	120,30 78,00
4,3	89,47	57,60	04300	120,30 78,00
4,4	89,47	57,60	04400	120,30 78,00
4,5	89,47	57,60	04500	120,30 78,00
4,6	89,47	57,60	04600	120,30 78,00
4,7	89,47	57,60	04700	120,30 78,00
4,8	89,47	57,60	04800	120,30 78,00
4,9	89,47	57,60	04900	120,30 78,00
5,0	89,47	57,60	05000	120,30 78,00
5,1	89,47	57,60	05100	120,30 78,00
5,2	89,47	57,60	05200	120,30 78,00
5,3	89,47	57,60	05300	120,30 78,00
5,4	89,47	57,60	05400	120,30 78,00
5,5	89,47	57,60	05500	120,30 78,00
5,6	89,47	57,60	05600	120,30 78,00
5,7	89,47	57,60	05700	120,30 78,00
5,8	89,47	57,60	05800	120,30 78,00
5,9	89,47	57,60	05900	120,30 78,00
6,0	89,47	57,60	06000	120,30 78,00
6,1	110,30	72,00	06100	133,50 86,40
6,2	110,30	72,00	06200	133,50 86,40
6,3	110,30	72,00	06300	133,50 86,40
6,4	110,30	72,00	06400	133,50 86,40
6,5	110,30	72,00	06500	133,50 86,40
6,6	110,30	72,00	06600	133,50 86,40
6,7	110,30	72,00	06700	133,50 86,40
6,8	110,30	72,00	06800	133,50 86,40
6,9	110,30	72,00	06900	133,50 86,40
7,0	110,30	72,00	07000	133,50 86,40
7,1	110,30	72,00	07100	133,50 86,40
7,2	110,30	72,00	07200	133,50 86,40
7,3	110,30	72,00	07300	133,50 86,40
7,4	110,30	72,00	07400	133,50 86,40
7,5	110,30	72,00	07500	133,50 86,40
7,6	110,30	72,00	07600	133,50 86,40
7,7	110,30	72,00	07700	133,50 86,40
7,8	110,30	72,00	07800	133,50 86,40
7,9	110,30	72,00	07900	133,50 86,40
8,0	110,30	72,00	08000	133,50 86,40
8,1	135,00	87,60	08100	187,70 121,20
8,2	135,00	87,60	08200	187,70 121,20
8,3	135,00	87,60	08300	187,70 121,20
8,4	135,00	87,60	08400	187,70 121,20
8,5	135,00	87,60	08500	187,70 121,20
8,6	135,00	87,60	08600	187,70 121,20
8,7	135,00	87,60	08700	187,70 121,20
8,8	135,00	87,60	08800	187,70 121,20
8,9	135,00	87,60	08900	187,70 121,20
9,0	135,00	87,60	09000	187,70 121,20
9,1	135,00	87,60	09100	187,70 121,20
9,2	135,00	87,60	09200	187,70 121,20
9,3	135,00	87,60	09300	187,70 121,20
9,4	135,00	87,60	09400	187,70 121,20
9,5	135,00	87,60	09500	187,70 121,20
9,6	135,00	87,60	09600	187,70 121,20
9,7	135,00	87,60	09700	187,70 121,20
9,8	135,00	87,60	09800	187,70 121,20
9,9	135,00	87,60	09900	187,70 121,20
10,0	135,00	87,60	10000	187,70 121,20
10,2	180,50	117,60	10200	258,60 168,00
10,5	180,50	117,60	10500	258,60 168,00
10,8	180,50	117,60	10800	258,60 168,00
11,0	180,50	117,60	11000	258,60 168,00
11,5	180,50	117,60	11500	258,60 168,00
11,8	180,50	117,60	11800	258,60 168,00
12,0	180,50	117,60	12000	258,60 168,00
12,2	270,60	175,20	12200	333,10 216,00
12,5	270,60	175,20	12500	333,10 216,00
12,7	270,60	204,00	12700	333,10 216,00
13,0	270,60	175,20	13000	333,10 216,00
13,5	270,60	175,20	13500	333,10 216,00
13,8	270,60	175,20	13800	333,10 216,00
14,0	270,60	175,20	14000	333,10 216,00
14,5	353,60	230,40	14500	430,00 285,60
14,8	353,60	230,40	14800	430,00 285,60
15,0	353,60	230,40	15000	430,00 285,60
15,5	353,60	230,40	15500	430,00 285,60
15,8	353,60	230,40	15800	430,00 285,60
16,0	353,60	230,40	16000	430,00 285,60
16,5	458,10	297,60	16500	524,30 340,80
17,0	458,10	297,60	17000	524,30 340,80
17,5	458,10	297,60	17500	524,30 340,80
18,0	458,10	297,60	18000	524,30 340,80
18,5	510,10	331,20	18500	524,30 340,80
19,0	510,10	331,20	19000	524,30 340,80
19,5	510,10	331,20	19500	524,30 340,80
20,0	510,10	331,20	20000	524,30 340,80

P

M

K

N

S

H

O

NC Spot Drill, factory standard

NC-A

SIG 142°

Standard

DC js8 mm	OAL mm	LCF mm
2	32	6
3	32	8
4	40	10
5	50	13
6	50	13
8	60	23
10	70	24
12	70	24
14	75	26
16	75	29
18	100	35
20	100	35

P

M

K

N

S

H

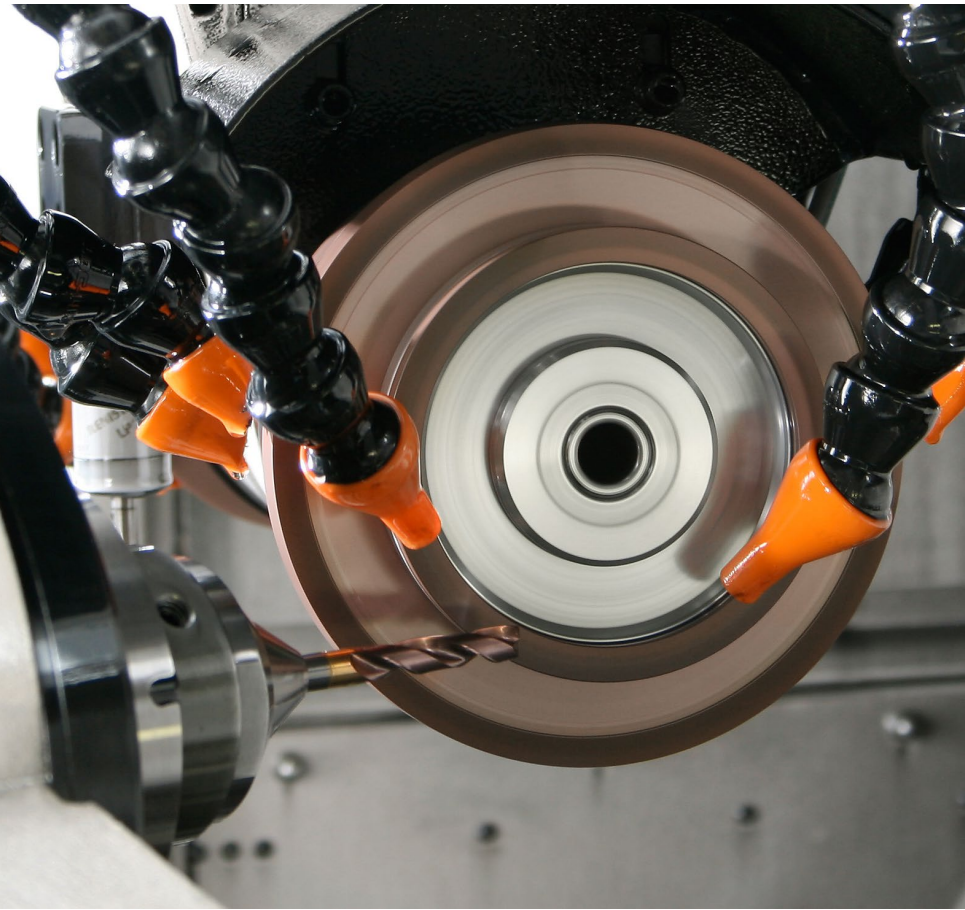
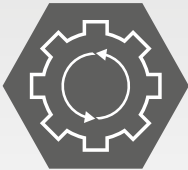
O

10 704 ...	PG	T3
	EUR	EUR
002	17,81	16,80
003	17,81	16,80
004	19,86	15,60
005	22,75	18,00
006	25,34	20,40
008	30,09	32,40
010	34,00	45,60
012	34,00	64,80
014	108,80	75,60
016	134,30	110,40
018	253,30	213,60
020	237,60	180,00

New for old

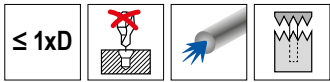
Regind instead of buying new

Your used precision tool is in the best possible hands with us. We return your tool to you with the original finish, coating and geometry – as good as new and ready for use back in the machine.

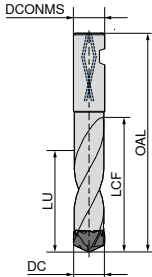


WTX – Holder for Exchangeable drills

▲ with radial teeth



Performance

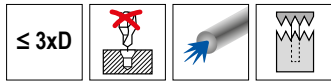


DC mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	81	29	12,5
12,50 - 12,99	14	81	29	13,0
13,00 - 13,49	14	81	31	13,5
13,50 - 13,99	16	86	32	14,0
14,00 - 14,49	16	86	33	14,5
14,50 - 14,99	16	91	34	15,0
15,00 - 15,49	16	91	36	15,5
15,50 - 16,49	20	97	38	16,5
15,50 - 16,49	18	92	38	16,5
16,50 - 17,49	20	99	40	17,5
16,50 - 17,49	18	94	40	17,5
17,50 - 18,49	20	104	43	18,5
17,50 - 18,49	18	99	43	18,5
18,50 - 19,49	20	99	45	19,5
19,50 - 20,49	20	104	47	20,5
20,50 - 21,49	25	111	49	21,5
21,50 - 22,49	25	116	52	22,5
22,50 - 23,49	25	116	54	23,5
23,50 - 24,49	25	121	56	24,5
24,50 - 25,49	25	123	59	25,5
25,50 - 26,49	25	123	61	26,5
26,50 - 27,49	25	128	63	27,5
27,50 - 28,49	25	128	66	28,5
28,50 - 29,49	32	134	68	29,5
29,50 - 30,49	32	139	70	30,5
30,50 - 31,49	32	139	75	31,5
31,50 - 32,49	32	139	75	32,5
32,50 - 33,49	32	150	78	33,5
33,50 - 34,49	32	150	79	34,5
34,50 - 35,49	32	150	82	35,5
35,50 - 37,49	32	152	86	37,5
37,50 - 39,49	32	157	91	39,5
39,50 - 41,00	32	167	95	41,5

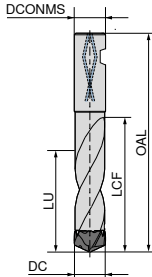
10 911 ...	PG	W1
EUR	EUR	
120	256,00	55,20
125	256,00	55,20
130	256,00	55,20
135	256,00	55,20
140	256,00	55,20
145	256,00	55,20
150	256,00	55,20
161	266,20	57,60
160	266,20	57,60
166	266,20	57,60
165	266,20	57,60
176	266,20	57,60
175	266,20	57,60
185	344,90	68,40
195	344,90	68,40
205	347,50	75,60
215	347,50	75,60
225	381,30	82,80
235	381,30	82,80
245	413,60	90,00
255	413,60	90,00
265	413,60	90,00
275	413,60	90,00
285	488,00	104,40
295	488,00	104,40
305	530,00	115,20
315	530,00	115,20
325	570,50	124,80
335	570,50	124,80
345	570,50	124,80
355	658,40	144,00
375	681,40	148,80
395	699,00	152,40

WTX – Holder for Exchangeable drills

▲ with radial teeth



Performance

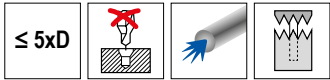


DC mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	100	53	38,0
12,50 - 12,99	14	105	55	39,0
13,00 - 13,49	14	105	57	40,0
13,50 - 13,99	16	110	59	42,0
14,00 - 14,49	16	115	61	43,0
14,50 - 14,99	16	115	63	45,0
15,00 - 15,49	16	115	65	46,0
15,50 - 16,49	20	125	70	50,0
15,50 - 16,49	18	120	70	50,0
16,50 - 17,49	20	130	74	50,0
16,50 - 17,49	18	125	74	53,0
17,50 - 18,49	20	135	78	50,0
17,50 - 18,49	18	130	78	55,0
18,50 - 19,49	20	135	82	58,0
19,50 - 20,49	20	140	87	62,0
20,50 - 21,49	25	150	91	65,0
21,50 - 22,49	25	155	95	67,0
22,50 - 23,49	25	160	99	70,0
23,50 - 24,49	25	165	103	73,0
24,50 - 25,49	25	165	108	77,0
25,50 - 26,49	25	175	112	80,0
26,50 - 27,49	25	175	116	82,0
27,50 - 28,49	25	180	120	85,0
28,50 - 29,49	32	190	124	88,0
29,50 - 30,49	32	195	129	92,0
30,50 - 31,49	32	195	133	94,0
31,50 - 32,49	32	200	137	97,0
32,50 - 33,49	32	210	144	100,5
33,50 - 34,49	32	215	148	103,5
34,50 - 35,49	32	220	153	106,5
35,50 - 37,49	32	227	161	112,5
37,50 - 39,49	32	237	170	118,5
39,50 - 41,00	32	247	178	124,5

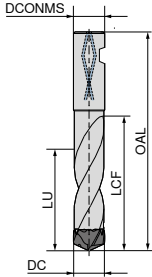
10 913 ...	PG	W1
EUR	EUR	
120	293,00	63,60
125	293,00	63,60
130	293,00	63,60
135	293,00	63,60
140	293,00	63,60
145	293,00	63,60
150	293,00	63,60
161	298,80	61,20
160	298,80	61,20
166	298,80	61,20
165	298,80	61,20
176	298,80	61,20
175	298,80	61,20
185	347,50	73,20
195	347,50	73,20
205	386,70	80,40
215	386,70	80,40
225	421,70	88,80
235	421,70	88,80
245	459,80	96,00
255	459,80	96,00
265	459,80	96,00
275	459,80	96,00
285	532,60	111,60
295	532,60	111,60
305	588,20	123,60
315	588,20	123,60
325	665,20	145,20
335	665,20	145,20
345	665,20	145,20
355	793,00	166,80
375	793,70	172,80
395	842,50	177,60

WTX – Holder for Exchangeable drills

▲ with radial teeth



Performance



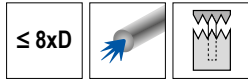
DC mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	125	78	62,0
12,50 - 12,99	14	130	81	65,0
13,00 - 13,49	14	130	84	67,0
13,50 - 13,99	16	140	88	70,0
14,00 - 14,49	16	140	90	72,0
14,50 - 14,99	16	145	94	75,0
15,00 - 15,49	16	145	96	77,0
15,50 - 16,49	20	160	103	82,0
15,50 - 16,49	18	155	103	82,0
16,50 - 17,49	20	165	109	87,0
16,50 - 17,49	18	160	109	87,0
17,50 - 18,49	20	170	115	92,0
17,50 - 18,49	18	165	115	92,0
18,50 - 19,49	20	175	121	97,0
19,50 - 20,49	20	180	128	102,0
20,50 - 21,49	25	195	134	107,0
21,50 - 22,49	25	200	140	112,0
22,50 - 23,49	25	205	146	117,0
23,50 - 24,49	25	210	152	122,0
24,50 - 25,49	25	220	159	127,0
25,50 - 26,49	25	225	165	132,0
26,50 - 27,49	25	230	171	137,0
27,50 - 28,49	25	240	177	142,0
28,50 - 29,49	32	250	183	146,0
29,50 - 30,49	32	255	190	152,0
30,50 - 31,49	32	260	196	157,0
31,50 - 32,49	32	265	202	162,0
32,50 - 33,49	32	275	210	167,5
33,50 - 34,49	32	285	217	172,5
34,50 - 35,49	32	290	224	177,5
35,50 - 37,49	32	302	236	187,5
37,50 - 39,49	32	317	249	197,5
39,50 - 41,00	32	327	261	207,5

10 915 ...	PG	W1
EUR	EUR	
120	323,40	70,80
125	323,40	70,80
130	323,40	70,80
135	323,40	70,80
140	323,40	70,80
145	323,40	70,80
150	323,40	70,80
161	347,50	73,20
160	347,50	73,20
166	347,50	73,20
165	347,50	73,20
176	347,50	73,20
175	347,50	73,20
185	404,20	85,20
195	404,20	85,20
205	440,70	92,40
215	440,70	92,40
225	477,20	99,60
235	477,20	99,60
245	512,30	108,00
255	512,30	108,00
265	512,30	108,00
275	512,30	108,00
285	588,20	123,60
295	588,20	123,60
305	642,00	134,40
315	642,00	134,40
325	761,70	164,40
335	761,70	164,40
345	761,70	164,40
355	845,00	184,80
375	877,30	192,00
395	896,40	195,60

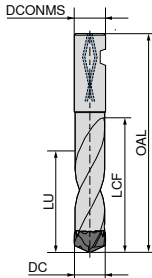
WTX – Holder for Exchangeable drills

▲ Pilot hole is recommended

▲ With radial teeth



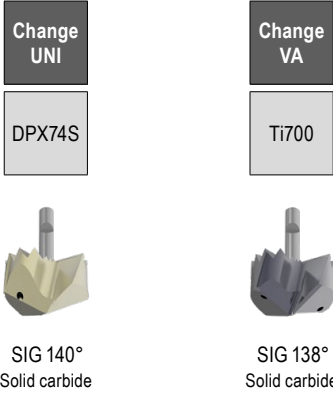
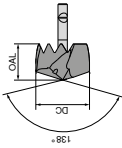
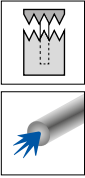
Performance



DC	DCONMS _{h6}	OAL	LCF	LU
mm	mm	mm	mm	mm
12,00 - 12,49	14	165	116	100
12,50 - 12,99	14	170	121	104
13,00 - 13,49	14	175	126	108
13,50 - 13,99	16	180	129	111
14,00 - 14,49	16	185	134	115
14,50 - 14,99	16	190	139	120
15,00 - 15,49	16	195	144	124
15,50 - 16,49	20	210	152	131
15,50 - 16,49	18	205	152	131
16,50 - 17,49	20	220	161	138
16,50 - 17,49	18	215	161	138
17,50 - 18,49	20	225	171	147
17,50 - 18,49	18	220	171	147
18,50 - 19,49	20	235	180	155
19,50 - 20,49	20	240	189	163
20,50 - 21,49	25	260	198	170
21,50 - 22,49	25	270	207	178
22,50 - 23,49	25	275	217	187
23,50 - 24,49	25	285	226	194
24,50 - 25,49	25	295	235	202
25,50 - 26,49	25	305	244	210
26,50 - 27,49	25	315	253	218
27,50 - 28,49	25	325	263	226
28,50 - 29,49	32	340	272	234
29,50 - 30,49	32	345	281	242
30,50 - 31,49	32	355	290	249
31,50 - 32,00	32	360	299	257

WTX – Drilling Head for Exchangeable drills

▲ extra long head type



DC h7mm?	OAL
mm	mm
12,0	10,7
12,1	10,7
12,2	10,7
12,3	10,7
12,4	10,7
12,5	10,7
12,6	10,7
12,7	10,7
12,8	10,7
12,9	10,7
13,0	10,7
13,1	10,7
13,2	10,7
13,3	10,7
13,4	10,7
13,5	11,3
13,6	11,3
13,7	11,3
13,8	11,3
13,9	11,3
14,0	11,3
14,1	11,3
14,2	11,3
14,3	11,3
14,4	11,3
14,5	11,3
14,6	11,3
14,7	11,3
14,8	11,3
14,9	11,3
15,0	11,3
15,1	11,3
15,2	11,3
15,3	11,3
15,4	11,3
15,5	11,9
15,6	11,9
15,7	11,9
15,8	11,9
15,9	11,9
16,0	11,9
16,1	11,9
16,2	11,9
16,3	11,9
16,4	11,9
16,5	13,4
16,6	13,4
16,7	13,4
16,8	13,4
16,9	13,4
17,0	13,4
17,1	13,4
17,2	13,4
17,3	13,4
17,4	13,4
17,5	13,4
17,6	13,4
17,7	13,4
17,8	13,4
17,9	13,4
18,0	13,4
18,1	13,4
18,2	13,4
18,3	13,4
18,4	13,4
18,5	13,4
18,6	13,4
18,7	13,4
18,8	13,4
18,9	13,4
19,0	13,4
19,1	13,4
19,2	13,4
19,3	13,4
19,4	13,4
19,5	13,4
19,6	13,4
19,7	13,4
19,8	13,4
19,9	13,4
20,0	13,4
20,1	13,4
20,2	13,4
20,3	13,4
20,4	13,4
20,5	15,4
20,6	15,4
20,7	15,4
20,8	15,4
20,9	15,4
21,0	15,4
21,1	15,4
21,2	15,4
21,3	15,4
21,4	15,4
21,5	15,4
21,6	15,4
21,7	15,4
21,8	15,4
21,9	15,4
22,0	15,4
22,1	15,4
22,2	15,4
22,3	15,4
22,4	15,4
22,5	15,4
22,6	15,4
22,7	15,4
22,8	15,4
22,9	15,4
23,0	15,4
23,1	15,4
23,2	15,4
23,3	15,4

10 919 ...	PG W2	10 921 ...	PG W2
EUR	EUR	EUR	EUR
12000	103,20	120	103,20
12100	103,20	121	103,20
12200	103,20	122	103,20
12300	103,20	123	103,20
12400	103,20	124	103,20
12500	103,20	125	103,20
12600	103,20	126	103,20
12700	103,20	127	103,20
12800	103,20	128	103,20
12900	103,20	129	103,20
13000	103,20	130	103,20
13100	103,20	131	103,20
13200	103,20	132	103,20
13300	103,20	133	103,20
13400	103,20	134	103,20
13500	103,20	135	103,20
13600	103,20	136	103,20
13700	103,20	137	103,20
13800	103,20	138	103,20
13900	103,20	139	103,20
14000	103,20	140	103,20
14100	103,20	141	103,20
14200	103,20	142	103,20
14300	103,20	143	103,20
14400	103,20	144	103,20
14500	103,20	145	103,20
14600	103,20	146	103,20
14700	103,20	147	103,20
14800	103,20	148	103,20
14900	103,20	149	103,20
15000	103,20	150	103,20
15100	103,20	151	103,20
15200	103,20	152	103,20
15300	103,20	153	103,20
15400	103,20	154	103,20
15500	103,20	155	103,20
15600	109,20	156	109,20
15700	109,20	157	109,20
15800	109,20	158	109,20
15900	109,20	159	109,20
16000	109,20	160	109,20
16100	109,20	161	109,20
16200	109,20	162	109,20
16300	109,20	163	109,20
16400	109,20	164	109,20
16500	109,20	165	109,20
16600	109,20	166	109,20
16700	109,20	167	109,20
16800	109,20	168	109,20
16900	109,20	169	109,20
17000	109,20	170	109,20
17100	109,20	171	109,20
17200	109,20	172	109,20
17300	109,20	173	109,20
17400	109,20	174	109,20
17500	109,20	175	109,20
17600	109,20	176	109,20
17700	109,20	177	109,20
17800	109,20	178	109,20
17900	109,20	179	109,20
18000	109,20	180	109,20
18100	117,60	181	117,60
18200	117,60	182	117,60
18300	117,60	183	117,60
18400	117,60	184	117,60
18500	117,60	185	117,60
18600	117,60	186	117,60
18700	117,60	187	117,60
18800	117,60	188	117,60
18900	117,60	189	117,60
19000	117,60	190	117,60
19100	117,60	191	117,60
19200	117,60	192	117,60
19300	117,60	193	117,60
19400	117,60	194	117,60
19500	117,60	195	117,60
19600	117,60	196	117,60
19700	117,60	197	117,60
19800	117,60	198	117,60
19900	117,60	199	117,60
20000	117,60	200	117,60
20100	129,60	201	129,60
20200	129,60	202	129,60
20300	129,60	203	129,60
20400	129,60	204	129,60
20500	129,60	205	129,60
20600	129,60	206	129,60
20700	129,60	207	129,60
20800	129,60	208	129,60
20900	129,60	209	129,60
21000	129,60	210	129,60
21100	129,60	211	129,60
21200	129,60	212	129,60
21300	129,60	213	129,60
21400	129,60	214	129,60
21500	129,60	215	129,60
21600	129,60	216	129,60
21700	129,60	217	129,60
21800	129,60	218	129,60
21900	129,60	219	129,60
22000	129,60	220	129,60
22100	140,40	221	140,40
22200	140,40	222	140,40
22300	140,40	223	140,40
22400	140,40	224	140,40
22500	140,40	225	140,40
22600	140,40	226	140,40
22700	140,40	227	140,40
22800	140,40	228	140,40
22900	140,40	229	140,40
23000	140,40	230	140,40
23100	140,40	231	140,40
23200	140,40	232	140,40
23300	140,40	233	140,40

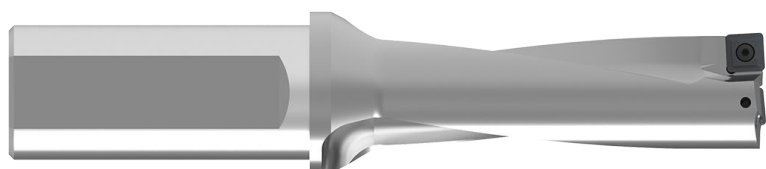
DC h7mm?	OAL
mm	mm
23,4	15,4
23,5	15,4
23,6	15,4
23,7	15,4
23,8	15,4
23,9	15,4
24,0	15,4
24,1	15,4
24,2	15,4
24,3	15,4
24,4	15,4
24,5	17,4
24,6	17,4
24,7	17,4
24,8	17,4
24,9	17,4
25,0	17,4
25,1	17,4
25,2	17,4
25,3	17,4
25,4	17,4
25,5	17,4
25,6	17,4
25,7	17,4
25,8	17,4
25,9	17,4
26,0	17,4
26,1	17,4
26,2	17,4
26,3	17,4
26,4	17,4
26,5	17,4
26,6	17,4
26,7	17,4
26,8	17,4
26,9	17,4
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31,6	18,4
31,7	18,4
31,8	18,4
31,9	18,4
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39,0	26,3
39,5	26,3
40,0	26,3
40,5	26,3
41,0	26,3

10 919 ...	PG W2	10 921 ...	PG W2		
EUR	EUR	EUR	EUR		
23400	147.70	140.40	234	147.70	140.40
23500	147.70	140.40	235	147.70	140.40
23600	147.70	140.40	236	147.70	140.40
23700	147.70	140.40	237	147.70	140.40
23800	147.70	140.40	238	147.70	140.40
23900	147.70	140.40	239	147.70	140.40
24000	147.70	140.40	240	147.70	140.40
24100	162.40	154.80	241	162.40	154.80
24200	162.40	154.80	242	162.40	154.80
24300	162.40	154.80	243	162.40	154.80
24400	162.40	154.80	244	162.40	154.80
24500	162.40	154.80	245	162.40	154.80
24600	162.40	154.80	246	162.40	154.80
24700	162.40	154.80	247	162.40	154.80
24800	162.40	154.80	248	162.40	154.80
24900	162.40	154.80	249	162.40	154.80
25000	162.40	154.80	250	162.40	154.80
25100	162.40	154.80	251	162.40	154.80
25200	162.40	154.80	252	162.40	154.80
25300	162.40	154.80	253	162.40	154.80
25400	162.40	154.80	254	162.40	154.80
25500	162.40	154.80	255	162.40	154.80
25600	170.00	163.20	256	170.00	163.20
25700	170.00	163.20	257	170.00	163.20
25800	170.00	163.20	258	170.00	163.20
25900	170.00	163.20	259	170.00	163.20
26000	170.00	163.20	260	170.00	163.20
26100	170.00	163.20	261	170.00	163.20
26200	170.00	163.20	262	170.00	163.20
26300	170.00	163.20	263	170.00	163.20
26400	170.00	163.20	264	170.00	163.20
26500	170.00	163.20	265	170.00	163.20
26600	170.00	163.20	266	170.00	163.20
26700	170.00	163.20	267	170.00	163.20
26800	170.00	163.20	268	170.00	163.20
26900	170.00	163.20	269	170.00	163.20
27000	170.00	163.20	270	170.00	163.20
27100	170.00	163.20	271	170.00	163.20
27200	170.00	163.20	272	170.00	163.20
27300	170.00	163.20	273	170.00	163.20
27400	170.00	163.20	274	170.00	163.20
27500	170.00	163.20	275	170.00	163.20
27600	170.00	163.20	276	170.00	163.20
27700	170.00	163.20	277	170.00	163.20
27800	170.00	163.20	278	170.00	163.20
27900	170.00	163.20	279	170.00	163.20
28000	170.00	163.20	280	170.00	163.20
28100	187.00	178.80	281	187.00	178.80
28200	187.00	178.80	282	187.00	178.80
28300	187.00	178.80	283	187.00	178.80
28400	187.00	178.80	284	187.00	178.80
28500	187.00	178.80	285	187.00	178.80
28600	187.00	178.80	286	187.00	178.80
28700	187.00	178.80	287	187.00	178.80
28800	187.00	178.80	288	187.00	178.80
28900	187.00	178.80	289	187.00	178.80
29000	187.00	178.80	290	187.00	178.80
29100	187.00	178.80	291	187.00	178.80
29200	187.00	178.80	292	187.00	178.80
29300	187.00	178.80	293	187.00	178.80
29400	187.00	178.80	294	187.00	178.80
29500	187.00	178.80	295	187.00	178.80
29600	187.00	178.80	296	187.00	178.80
29700	187.00	178.80	297	187.00	178.80
29800	187.00	178.80	298	187.00	178.80
29900	187.00	178.80	299	187.00	178.80
30000	187.00	178.80	300	187.00	178.80
30100	207.20	198.00	301	207.20	198.00
30200	207.20	198.00	302	207.20	198.00
30300	207.20	198.00	303	207.20	198.00
30400	207.20	198.00	304	207.20	198.00
30500	207.20	198.00	305	207.20	198.00
30600	207.20	198.00	306	207.20	198.00
30700	207.20	198.00	307	207.20	198.00
30800	207.20	198.00	308	207.20	198.00
30900	207.20	198.00	309	207.20	198.00
31000	207.20	198.00	310	207.20	198.00
31100	207.20	198.00	311	207.20	198.00
31200	207.20	198.00	312	207.20	198.00
31300	207.20	198.00	313	207.20	198.00
31400	207.20	198.00	314	207.20	198.00
31500	207.20	198.00	315	207.20	198.00
31600	207.20	198.00	316	207.20	198.00
31700	207.20	198.00	317	207.20	198.00
31800	207.20	198.00	318	207.20	198.00
31900	207.20	198.00	319	207.20	198.00
32000	207.20	198.00	320	207.20	198.00
32500	260.30	243.60			
33000	260.30	243.60			
33500	260.30	243.60			
34000	260.30	243.60			
34500	260.30	243.60			
35000	260.30	243.60			
35500	267.60	278.40			
36000	267.60	278.40			
36500	267.60	278.40			
37000	267.60	278.40			
37500	267.60	278.40			
38000	267.60	278.40			
38500	266.40	303.60			
39000	266.40	303.60			
39500	266.40	303.60			
40000	266.40	303.60			
40500	266.40	303.60			
41000	266.40	303.60			

INDEXABLE INSERT DRILLS



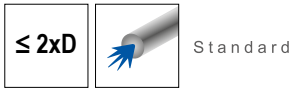
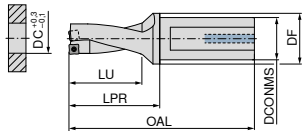
KOMET MaxiDrill 900 – the first choice for the vast majority of indexable insert drilling applications in all materials.



KOMET KUB Pentron – high performance problem solver with large selection of diameters and grades.

KOMET MaxiDrill 900 – Indexable insert drill

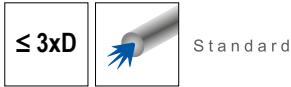
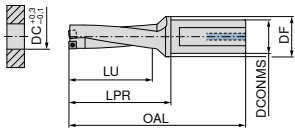
Scope of supply:
Indexable Insert Drill including clamping screws and key



Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ...	PG 2B/41	
									EUR	EUR
MD900.2D.120.R.03-C20	12,0	28	20	90	24	40	SONT 031804	120	308,30	52,80
MD900.2D.125.R.03-C20	12,5	28	20	91	25	41	SONT 031804	125	308,30	52,80
MD900.2D.130.R.03-C20	13,0	28	20	92	26	42	SONT 031804	130	308,30	52,80
MD900.2D.135.R.03-C20	13,5	28	20	93	27	43	SONT 031804	135	308,30	52,80
MD900.2D.140.R.04-C20	14,0	30	20	96	28	46	SONT 042105	140	328,20	56,40
MD900.2D.145.R.04-C20	14,5	30	20	97	29	47	SONT 042105	145	328,20	56,40
MD900.2D.150.R.04-C20	15,0	30	20	98	30	48	SONT 042105	150	328,20	56,40
MD900.2D.155.R.04-C20	15,5	30	20	99	31	49	SONT 042105	155	328,20	56,40
MD900.2D.160.R.05-C20	16,0	30	20	100	32	50	SONT 052306	160	328,20	56,40
MD900.2D.165.R.05-C20	16,5	30	20	101	33	51	SONT 052306	165	328,20	56,40
MD900.2D.170.R.05-C20	17,0	30	20	102	34	52	SONT 052306	170	340,30	60,00
MD900.2D.175.R.05-C20	17,5	30	20	103	35	53	SONT 052306	175	340,30	60,00
MD900.2D.180.R.06-C25	18,0	32	25	111	36	55	SONT 062506	180	340,30	60,00
MD900.2D.185.R.06-C25	18,5	32	25	112	37	56	SONT 062506	185	340,30	60,00
MD900.2D.190.R.06-C25	19,0	32	25	113	38	57	SONT 062506	190	375,40	63,60
MD900.2D.195.R.06-C25	19,5	32	25	114	39	58	SONT 062506	195	375,40	63,60
MD900.2D.200.R.06-C25	20,0	32	25	115	40	59	SONT 062506	200	375,40	63,60
MD900.2D.205.R.06-C25	20,5	32	25	116	41	60	SONT 062506	205	375,40	63,60
MD900.2D.210.R.07-C25	21,0	32	25	118	42	62	SONT 072907	210	375,40	63,60
MD900.2D.220.R.07-C25	22,0	32	25	120	44	64	SONT 072907	220	375,40	63,60
MD900.2D.230.R.07-C25	23,0	32	25	122	46	66	SONT 072907	230	387,20	66,00
MD900.2D.240.R.08-C32	24,0	40	32	132	48	72	SONT 083308	240	387,20	66,00
MD900.2D.250.R.08-C32	25,0	40	32	134	50	74	SONT 083308	250	387,20	66,00
MD900.2D.260.R.08-C32	26,0	40	32	136	52	76	SONT 083308	260	428,60	73,20
MD900.2D.270.R.08-C32	27,0	40	32	138	54	78	SONT 083308	270	428,60	73,20
MD900.2D.280.R.09-C32	28,0	40	32	140	56	80	SONT 093808	280	428,60	73,20
MD900.2D.290.R.09-C32	29,0	40	32	142	58	82	SONT 093808	290	428,60	73,20
MD900.2D.300.R.09-C32	30,0	40	32	144	60	84	SONT 093808	300	428,60	73,20
MD900.2D.310.R.09-C32	31,0	40	32	146	62	86	SONT 093808	310	464,90	79,20
MD900.2D.320.R.09-C32	32,0	40	32	148	64	88	SONT 093808	320	464,90	79,20
MD900.2D.330.R.10-C40	33,0	50	40	163	66	93	SONT 104408	330	464,90	79,20
MD900.2D.340.R.10-C40	34,0	50	40	165	68	95	SONT 104408	340	464,90	79,20

KOMET MaxiDrill 900 – Indexable insert drill

Scope of supply:
Indexable Insert Drill including clamping screws and key

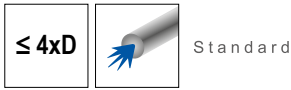
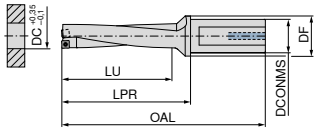


Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 853 ...	PG 2B/41	
									EUR	EUR
MD900.3D.120.R.03-C20	12,0	28	20	102	36,0	52	SONT 031804	120	328,50	56,40
MD900.3D.125.R.03-C20	12,5	28	20	104	37,5	54	SONT 031804	125	328,50	56,40
MD900.3D.130.R.03-C20	13,0	28	20	105	39,0	55	SONT 031804	130	328,50	56,40
MD900.3D.135.R.03-C20	13,5	28	20	107	40,5	57	SONT 031804	135	328,50	56,40
MD900.3D.140.R.04-C20	14,0	30	20	109	42,0	59	SONT 042105	140	345,90	58,80
MD900.3D.145.R.04-C20	14,5	30	20	111	44,0	61	SONT 042105	145	345,90	58,80
MD900.3D.150.R.04-C20	15,0	30	20	112	45,0	62	SONT 042105	150	345,90	58,80
MD900.3D.155.R.04-C20	15,5	30	20	114	47,0	64	SONT 042105	155	354,10	60,00
MD900.3D.160.R.05-C20	16,0	30	20	115	48,0	65	SONT 052306	160	354,10	60,00
MD900.3D.165.R.05-C20	16,5	30	20	117	50,0	67	SONT 052306	165	354,10	60,00
MD900.3D.170.R.05-C20	17,0	30	20	118	51,0	68	SONT 052306	170	367,80	62,40
MD900.3D.175.R.05-C20	17,5	30	20	120	53,0	70	SONT 052306	175	367,80	62,40
MD900.3D.180.R.06-C25	18,0	32	25	128	54,0	72	SONT 062506	180	367,80	62,40
MD900.3D.185.R.06-C25	18,5	32	25	130	56,0	74	SONT 062506	185	367,80	62,40
MD900.3D.190.R.06-C25	19,0	32	25	131	57,0	75	SONT 062506	190	395,10	67,20
MD900.3D.195.R.06-C25	19,5	32	25	133	59,0	77	SONT 062506	195	395,10	67,20
MD900.3D.200.R.06-C25	20,0	32	25	134	60,0	78	SONT 062506	200	395,10	67,20
MD900.3D.205.R.06-C25	20,5	32	25	136	62,0	80	SONT 062506	205	395,10	67,20
MD900.3D.210.R.07-C25	21,0	32	25	138	63,0	82	SONT 072907	210	395,10	67,20
MD900.3D.215.R.07-C25	21,5	32	25	140	65,0	84	SONT 072907	215	395,10	67,20
MD900.3D.220.R.07-C25	22,0	32	25	141	66,0	85	SONT 072907	220	395,10	67,20
MD900.3D.225.R.07-C25	22,5	32	25	143	68,0	87	SONT 072907	225	407,10	69,60
MD900.3D.230.R.07-C25	23,0	32	25	144	69,0	88	SONT 072907	230	407,10	69,60
MD900.3D.235.R.07-C25	23,5	32	25	146	71,0	90	SONT 072907	235	407,10	69,60
MD900.3D.240.R.08-C32	24,0	40	32	155	72,0	95	SONT 083308	240	407,10	69,60
MD900.3D.245.R.08-C32	24,5	40	32	157	74,0	97	SONT 083308	245	407,10	69,60
MD900.3D.250.R.08-C32	25,0	40	32	158	75,0	98	SONT 083308	250	407,10	69,60
MD900.3D.255.R.08-C32	25,5	40	32	160	77,0	100	SONT 083308	255	407,10	69,60
MD900.3D.260.R.08-C32	26,0	40	32	161	78,0	101	SONT 083308	260	451,10	76,80
MD900.3D.265.R.08-C32	26,5	40	32	163	80,0	103	SONT 083308	265	451,10	76,80
MD900.3D.270.R.08-C32	27,0	40	32	164	81,0	104	SONT 083308	270	451,10	76,80
MD900.3D.275.R.08-C32	27,5	40	32	166	83,0	106	SONT 083308	275	451,10	76,80
MD900.3D.280.R.09-C32	28,0	40	32	167	84,0	107	SONT 093808	280	451,10	76,80
MD900.3D.285.R.09-C32	28,5	40	32	169	86,0	109	SONT 093808	285	451,10	76,80
MD900.3D.290.R.09-C32	29,0	40	32	170	87,0	110	SONT 093808	290	451,10	76,80
MD900.3D.295.R.09-C32	29,5	40	32	172	89,0	112	SONT 093808	295	451,10	76,80
MD900.3D.300.R.09-C32	30,0	40	32	173	90,0	113	SONT 093808	300	451,10	76,80
MD900.3D.305.R.09-C32	30,5	40	32	175	92,0	115	SONT 093808	305	451,10	76,80

Designation	DC	DF	DCONMS	OAL	LU	LPR	Insert	10 852 ...	PG 2B/41	
	mm	mm	mm	mm	mm	mm			EUR	EUR
MD900.2D.350.R.10-C40	35,0	50	40	167	70	97	SONT 104408	350	475,40	81,60
MD900.2D.360.R.10-C40	36,0	50	40	169	72	99	SONT 104408	360	475,40	81,60
MD900.2D.370.R.12-C40	37,0	56	40	174	74	104	SONT 124810	370	490,80	84,00
MD900.2D.380.R.12-C40	38,0	56	40	176	76	106	SONT 124810	380	490,80	84,00
MD900.2D.390.R.12-C40	39,0	56	40	178	78	108	SONT 124810	390	490,80	84,00
MD900.2D.400.R.12-C40	40,0	56	40	180	80	110	SONT 124810	400	490,80	84,00
MD900.2D.410.R.12-C40	41,0	56	40	182	82	112	SONT 124810	410	490,80	84,00
MD900.2D.420.R.13-C40	42,0	60	40	187	84	117	SONT 135012	420	515,60	88,80
MD900.2D.430.R.13-C40	43,0	60	40	189	86	119	SONT 135012	430	515,60	88,80
MD900.2D.440.R.13-C40	44,0	60	40	191	88	121	SONT 135012	440	515,60	88,80
MD900.2D.450.R.13-C40	45,0	60	40	193	90	123	SONT 135012	450	515,60	88,80
MD900.2D.460.R.13-C40	46,0	60	40	195	92	125	SONT 135012	460	515,60	88,80
MD900.2D.470.R.15-C40	47,0	60	40	198	94	128	SONT 155312	470	544,70	92,40
MD900.2D.480.R.15-C40	48,0	60	40	200	96	130	SONT 155312	480	544,70	92,40
MD900.2D.490.R.15-C40	49,0	60	40	202	98	132	SONT 155312	490	584,50	99,60
MD900.2D.500.R.15-C40	50,0	60	40	204	100	134	SONT 155312	500	584,50	99,60
MD900.2D.510.R.15-C40	52,0	60	40	208	104	138	SONT 155312	520	600,10	103,20
MD900.2D.520.R.15-C40	51,0	60	40	206	102	136	SONT 155312	510	600,10	103,20
MD900.2D.530.R.15-C40	53,0	60	40	210	106	140	SONT 155312	530	600,10	103,20
MD900.2D.540.R.15-C40	54,0	60	40	212	108	142	SONT 155312	540	600,10	103,20
MD900.2D.550.R.17-C40	55,0	60	40	215	110	145	SONT 175612	550	600,10	103,20
MD900.2D.560.R.17-C40	56,0	60	40	217	112	147	SONT 175612	560	622,20	106,80
MD900.2D.570.R.17-C40	57,0	60	40	219	114	149	SONT 175612	570	622,20	106,80
MD900.2D.580.R.17-C40	58,0	60	40	221	116	151	SONT 175612	580	622,20	106,80
MD900.2D.590.R.17-C40	59,0	60	40	223	118	153	SONT 175612	590	622,20	106,80
MD900.2D.600.R.17-C40	60,0	62	40	225	120	155	SONT 175612	600	622,20	106,80
MD900.2D.610.R.17-C40	61,0	62	40	227	122	157	SONT 175612	610	622,20	106,80
MD900.2D.620.R.17-C40	62,0	64	40	229	124	159	SONT 175612	620	622,20	106,80
MD900.2D.630.R.17-C40	63,0	64	40	231	126	161	SONT 175612	630	622,20	106,80

KOMET MaxiDrill 900 – Indexable insert drill

Scope of supply:
Indexable Insert Drill including clamping screws and key



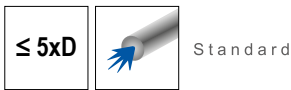
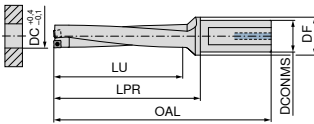
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 854 ... EUR	PG 2B/41 EUR
MD900.4D.120.R.03-C20	12	28	20	114	48	64	SONT 031804	120	453,10 78,00
MD900.4D.130.R.03-C20	13	28	20	118	52	68	SONT 031804	130	453,10 78,00
MD900.4D.140.R.04-C20	14	30	20	123	56	73	SONT 042105	140	466,20 79,20
MD900.4D.150.R.04-C20	15	30	20	127	60	77	SONT 042105	150	466,20 79,20
MD900.4D.160.R.05-C20	16	30	20	131	64	81	SONT 052306	160	477,00 81,60
MD900.4D.170.R.05-C20	17	30	20	135	68	85	SONT 052306	170	495,00 85,20
MD900.4D.180.R.06-C25	18	32	25	146	72	90	SONT 062506	180	495,00 85,20
MD900.4D.190.R.06-C25	19	32	25	150	76	94	SONT 062506	190	531,00 91,20
MD900.4D.200.R.06-C25	20	32	25	154	80	98	SONT 062506	200	531,00 91,20
MD900.4D.210.R.07-C25	21	32	25	159	84	103	SONT 072907	210	531,00 91,20
MD900.4D.220.R.07-C25	22	32	25	163	88	107	SONT 072907	220	531,00 91,20
MD900.4D.230.R.07-C25	23	32	25	167	92	111	SONT 072907	230	549,50 93,60
MD900.4D.240.R.08-C32	24	40	32	179	96	119	SONT 083308	240	549,50 93,60
MD900.4D.250.R.08-C32	25	40	32	183	100	123	SONT 083308	250	549,50 93,60
MD900.4D.260.R.08-C32	26	40	32	187	104	127	SONT 083308	260	607,10 104,40
MD900.4D.270.R.08-C32	27	40	32	191	108	131	SONT 083308	270	607,10 104,40
MD900.4D.280.R.09-C32	28	40	32	195	112	135	SONT 093808	280	607,10 104,40
MD900.4D.290.R.09-C32	29	40	32	199	116	139	SONT 093808	290	607,10 104,40
MD900.4D.300.R.09-C32	30	40	32	203	120	143	SONT 093808	300	607,10 104,40
MD900.4D.310.R.09-C32	31	40	32	207	124	147	SONT 093808	310	658,00 112,80
MD900.4D.320.R.09-C32	32	40	32	211	128	151	SONT 093808	320	658,00 112,80
MD900.4D.330.R.10-C40	33	50	40	228	132	158	SONT 104408	330	658,00 112,80



Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 854 ... EUR	PG 2B/41 EUR
MD900.4D.340.R.10-C40	34	50	40	232	136	162	SONT 104408	340	658,00 112,80
MD900.4D.350.R.10-C40	35	50	40	236	140	166	SONT 104408	350	672,00 115,20
MD900.4D.360.R.10-C40	36	50	40	240	144	170	SONT 104408	360	672,00 115,20
MD900.4D.370.R.12-C40	37	56	40	248	148	178	SONT 124810	370	695,00 118,80
MD900.4D.380.R.12-C40	38	56	40	252	152	182	SONT 124810	380	695,00 118,80
MD900.4D.390.R.12-C40	39	56	40	256	156	186	SONT 124810	390	695,00 118,80
MD900.4D.400.R.12-C40	40	56	40	260	160	190	SONT 124810	400	695,00 118,80
MD900.4D.410.R.12-C40	41	56	40	264	164	194	SONT 124810	410	695,00 118,80
MD900.4D.420.R.13-C40	42	60	40	271	168	201	SONT 135012	420	730,00 124,80
MD900.4D.430.R.13-C40	43	60	40	275	172	205	SONT 135012	430	730,00 124,80
MD900.4D.440.R.13-C40	44	60	40	279	176	209	SONT 135012	440	730,00 124,80
MD900.4D.450.R.13-C40	45	60	40	283	180	213	SONT 135012	450	730,00 124,80
MD900.4D.460.R.13-C40	46	60	40	287	184	217	SONT 135012	460	730,00 124,80
MD900.4D.470.R.15-C40	47	60	40	292	188	222	SONT 155312	470	760,00 132,00
MD900.4D.480.R.15-C40	48	60	40	296	192	226	SONT 155312	480	760,00 132,00
MD900.4D.490.R.15-C40	49	60	40	300	196	230	SONT 155312	490	760,00 132,00
MD900.4D.500.R.15-C40	50	60	40	304	200	234	SONT 155312	500	760,00 132,00
MD900.4D.510.R.15-C40	51	60	40	308	204	238	SONT 155312	510	760,00 132,00
MD900.4D.520.R.15-C40	52	60	40	312	208	242	SONT 155312	520	760,00 132,00
MD900.4D.530.R.15-C40	53	60	40	316	212	246	SONT 155312	530	760,00 132,00
MD900.4D.540.R.15-C40	54	60	40	320	216	250	SONT 155312	540	760,00 132,00

KOMET MaxiDrill 900 – Indexable insert drill

Scope of supply:
Indexable Insert Drill including clamping screws and key



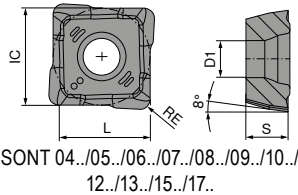
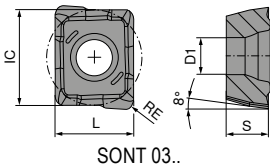
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 855 ... EUR	PG 2B/41 EUR
MD900.5D.120.R.03-C20	12	28	20	126	60	76	SONT 031804	120	541,60 92,40
MD900.5D.130.R.03-C20	13	28	20	131	65	81	SONT 031804	130	541,60 92,40
MD900.5D.140.R.04-C20	14	30	20	137	70	87	SONT 042105	140	563,70 94,80
MD900.5D.150.R.04-C20	15	30	20	142	75	92	SONT 042105	150	563,70 94,80
MD900.5D.160.R.05-C20	16	30	20	147	80	97	SONT 052306	160	567,40 97,20
MD900.5D.170.R.05-C20	17	30	20	152	85	102	SONT 052306	170	587,00 100,80
MD900.5D.180.R.06-C25	18	32	25	164	90	108	SONT 062506	180	587,00 100,80
MD900.5D.190.R.06-C25	19	32	25	169	95	113	SONT 062506	190	631,60 108,00
MD900.5D.200.R.06-C25	20	32	25	174	100	118	SONT 062506	200	631,60 108,00
MD900.5D.210.R.07-C25	21	32	25	180	105	124	SONT 072907	210	631,60 108,00
MD900.5D.220.R.07-C25	22	32	25	184	110	128	SONT 072907	220	631,60 108,00
MD900.5D.230.R.07-C25	23	32	25	189	115	133	SONT 072907	230	654,10 111,60
MD900.5D.240.R.08-C32	24	40	32	203	120	143	SONT 083308	240	654,10 111,60
MD900.5D.250.R.08-C32	25	40	32	208	125	148	SONT 083308	250	654,10 111,60
MD900.5D.260.R.08-C32	26	40	32	212	130	152	SONT 083308	260	721,00 123,60
MD900.5D.270.R.08-C32	27	40	32	217	135	157	SONT 083308	270	721,00 123,60



Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 855 ... EUR	PG 2B/41 EUR
MD900.5D.280.R.09-C32	28	40	32	221	140	161	SONT 093808	280	721,00 123,60
MD900.5D.290.R.09-C32	29	40	32	226	145	166	SONT 093808	290	721,00 123,60
MD900.5D.300.R.09-C32	30	40	32	230	150	170	SONT 093808	300	721,00 123,60
MD900.5D.310.R.09-C32	31	40	32	235	155	175	SONT 093808	310	762,00 134,40
MD900.5D.320.R.09-C32	32	40	32	239	160	179	SONT 093808	320	762,00 134,40
MD900.5D.330.R.10-C40	33	50	40	259	165	191	SONT 104408	330	762,00 134,40
MD900.5D.340.R.10-C40	34	50	40	264	170	196	SONT 104408	340	762,00 134,40
MD900.5D.350.R.10-C40	35	50	40	269	175	201	SONT 104408	350	760,70 136,80
MD900.5D.360.R.10-C40	36	50	40	274	180	206	SONT 104408	360	760,70 136,80
MD900.5D.370.R.12-C40	37	56	40	285	185	215	SONT 124810	370	827,10 141,60
MD900.5D.380.R.12-C40	38	56	40	290	190	220	SONT 124810	380	827,10 141,60
MD900.5D.390.R.12-C40	39	56	40	295	195	225	SONT 124810	390	827,10 141,60
MD900.5D.400.R.12-C40	40	56	40	300	200	230	SONT 124810	400	827,10 141,60
MD900.5D.410.R.12-C40	41	56	40	305	205	235	SONT 124810	410	827,10 141,60

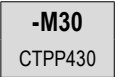
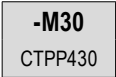
SONT

Designation	IC mm	D1 mm	L mm	S mm
SONT 0318..	5,4	2,10	3,8	1,8
SONT 0421..	4,6	2,25	4,2	2,1
SONT 0523..	5,3	2,25	4,8	2,3
SONT 0625..	5,9	2,50	5,5	2,5
SONT 0729..	6,5	2,50	6,1	2,9
SONT 0833..	7,7	2,90	7,3	3,3
SONT 0938..	8,9	3,50	8,5	3,8
SONT 1044..	10,1	4,10	9,6	4,4
SONT 1248..	11,6	4,10	11,0	4,8
SONT 1350..	13,0	5,30	12,2	5,0
SONT 1553..	15,2	5,30	14,4	5,3
SONT 1756..	17,5	5,30	16,7	5,6



SONT

Standard



ISO	RE mm	10 830 ... EUR	PG 1A/08 EUR	10 830 ... EUR	PG 1A/08 EUR
031804	0,4	103	15,90	9,60	
042105	0,5				
052306	0,6				
062506	0,6				
072907	0,7				
083308	0,8				
093808	0,8				
104408	0,8				
124810	1,0				
135012	1,2				
155312	1,2				
175612	1,2				

P	●	●
M	●	●
K	○	○
N	○	○
S	○	○
H		
O		

1) two usable cutting edges



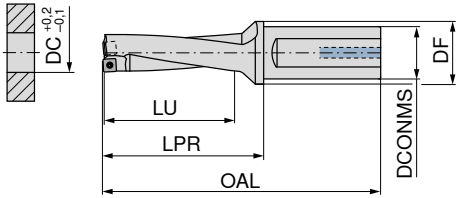
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KOMET KUB Pentron – Indexable insert drill

Scope of supply:
Indexable Insert Drill incl. clamping screws



≤ 3xD

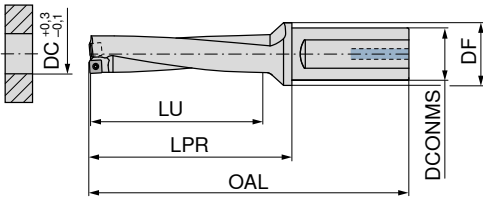
C

Performance

Designation	DC mm	DCONMS mm	DF mm	OAL mm	LU mm	LPR mm	torque moment Nm	Insert	10 873 ... PG 2B/6#		
									EUR	EUR	EUR
KUB-P.3D.140.R.04-C20	14,0	20	30	105	42	55	0,38	SOGX 040204	14001	401,30	68,40
KUB-P.3D.145.R.04-C20	14,5	20	30	109	45	59	0,38	SOGX 040204	14501	401,30	68,40
KUB-P.3D.150.R.04-C20	15,0	20	30	109	45	59	0,38	SOGX 040204	15001	401,30	68,40
KUB-P.3D.155.R.04-C20	15,5	20	30	114	48	64	0,38	SOGX 040204	15501	401,30	68,40
KUB-P.3D.160.R.04-C20	16,0	20	30	114	48	64	0,38	SOGX 040204	16001	401,30	68,40
KUB-P.3D.165.R.05-C20	16,5	20	30	118	51	68	0,62	SOGX 050204	16501	411,30	68,40
KUB-P.3D.170.R.05-C20	17,0	20	30	118	51	68	0,62	SOGX 050204	17001	411,30	70,80
KUB-P.3D.175.R.05-C25	17,5	25	30	127	54	71	0,62	SOGX 050204	17501	411,30	70,80
KUB-P.3D.180.R.05-C25	18,0	25	30	127	54	71	0,62	SOGX 050204	18001	411,30	70,80
KUB-P.3D.185.R.06-C25	18,5	25	30	131	57	75	1,01	SOGX 060206	18501	423,90	70,80
KUB-P.3D.190.R.06-C25	19,0	25	30	131	57	75	1,01	SOGX 060206	19001	423,90	72,00
KUB-P.3D.195.R.06-C25	19,5	25	30	134	60	78	1,01	SOGX 060206	19501	423,90	72,00
KUB-P.3D.200.R.06-C25	20,0	25	30	134	60	78	1,01	SOGX 060206	20001	423,90	72,00
KUB-P.3D.205.R.07-C25	20,5	25	30	138	63	82	1,01	SOGX 07T208	20501	451,60	76,80
KUB-P.3D.210.R.07-C25	21,0	25	30	138	63	82	1,01	SOGX 07T208	21001	451,60	76,80
KUB-P.3D.215.R.07-C25	21,5	25	30	141	66	85	1,01	SOGX 07T208	21501	451,60	76,80
KUB-P.3D.220.R.07-C25	22,0	25	30	141	66	85	1,01	SOGX 07T208	22002	451,60	76,80
KUB-P.3D.225.R.07-C25	22,5	25	30	145	69	89	1,01	SOGX 07T208	22502	451,60	76,80
KUB-P.3D.230.R.07-C25	23,0	25	30	145	69	89	1,01	SOGX 07T208	23002	451,60	76,80
KUB-P.3D.235.R.08-C32	23,5	32	39	152	72	92	1,28	SOGX 080308	23503	489,30	84,00
KUB-P.3D.240.R.08-C32	24,0	32	39	152	72	92	1,28	SOGX 080308	24003	489,30	84,00
KUB-P.3D.245.R.08-C32	24,5	32	39	156	75	96	1,28	SOGX 080308	24503	489,30	84,00
KUB-P.3D.250.R.08-C32	25,0	32	39	156	75	96	1,28	SOGX 080308	25003	489,30	84,00
KUB-P.3D.255.R.08-C32	25,5	32	39	159	78	99	1,28	SOGX 080308	25503	489,30	84,00
KUB-P.3D.260.R.08-C32	26,0	32	39	159	78	99	1,28	SOGX 080308	26003	489,30	84,00
KUB-P.3D.265.R.09-C32	26,5	32	39	163	81	103	2,25	SOGX 09T308	26503	514,50	87,60
KUB-P.3D.270.R.09-C32	27,0	32	39	163	81	103	2,25	SOGX 09T308	27003	514,50	87,60
KUB-P.3D.275.R.09-C32	27,5	32	39	166	84	106	2,25	SOGX 09T308	27503	514,50	87,60
KUB-P.3D.280.R.09-C32	28,0	32	39	166	84	106	2,25	SOGX 09T308	28003	514,50	87,60
KUB-P.3D.285.R.09-C32	28,5	32	39	170	87	110	2,25	SOGX 09T308	28503	514,50	87,60
KUB-P.3D.290.R.09-C32	29,0	32	39	170	87	110	2,25	SOGX 09T308	29003	514,50	87,60
KUB-P.3D.295.R.09-C32	29,5	32	39	173	90	113	2,25	SOGX 09T308	29503	514,50	87,60
KUB-P.3D.300.R.09-C32	30,0	32	39	173	90	113	2,25	SOGX 09T308	30003	514,50	87,60
KUB-P.3D.305.R.10-C40	30,5	40	50	185	93	117	2,8	SOGX 100408	30504	560,90	96,00

KOMET KUB Pentron – Indexable insert drill

Scope of supply:
Indexable Insert Drill incl. clamping screws



≤ 4xD

C

Performance

Designation	DC mm	DCONMS mm	DF mm	OAL mm	LU mm	LPR mm	torque moment Nm	Insert	10 874 ... PG 2B/6#		
									EUR	EUR	EUR
KUB-P.4D.140.R.04-C20	14,0	20	30	119	56	69	0,38	SOGX 040204	14001	512,00	87,60
KUB-P.4D.145.R.04-C20	14,5	20	30	124	60	74	0,38	SOGX 040204	14501	512,00	87,60
KUB-P.4D.150.R.04-C20	15,0	20	30	124	60	74	0,38	SOGX 040204	15001	512,00	87,60
KUB-P.4D.155.R.04-C20	15,5	20	30	130	64	80	0,38	SOGX 040204	15501	512,00	87,60
KUB-P.4D.160.R.04-C20	16,0	20	30	130	64	80	0,38	SOGX 040204	16001	512,00	87,60
KUB-P.4D.165.R.05-C20	16,5	20	30	135	68	85	0,62	SOGX 050204	16501	525,70	87,60
KUB-P.4D.170.R.05-C20	17,0	20	30	135	68	85	0,62	SOGX 050204	17001	525,70	90,00
KUB-P.4D.175.R.05-C25	17,5	25	30	145	72	89	0,62	SOGX 050204	17502	525,70	90,00
KUB-P.4D.180.R.05-C25	18,0	25	30	145	72	89	0,62	SOGX 050204	18002	525,70	90,00
KUB-P.4D.185.R.06-C25	18,5	25	30	150	76	94	1,01	SOGX 060206	18502	540,80	90,00
KUB-P.4D.190.R.06-C25	19,0	25	30	150	76	94	1,01	SOGX 060206	19002	540,80	92,40
KUB-P.4D.195.R.06-C25	19,5	25	30	154	80	98	1,01	SOGX 060206	19502	540,80	92,40
KUB-P.4D.200.R.06-C25	20,0	25	30	154	80	98	1,01	SOGX 060206	20002	540,80	92,40
KUB-P.4D.205.R.07-C25	20,5	25	30	159	84	103	1,01	SOGX 07T208	20502	560,90	96,00
KUB-P.4D.210.R.07-C25	21,0	25	30	159	84	103	1,01	SOGX 07T208	21002	560,90	96,00
KUB-P.4D.215.R.07-C25	21,5	25	30	163	88	107	1,01	SOGX 07T208	21502	560,90	96,00
KUB-P.4D.220.R.07-C25	22,0	25	30	163	88	107	1,01	SOGX 07T208	22002	560,90	96,00
KUB-P.4D.225.R.07-C25	22,5	25	30	168	92	112	1,01	SOGX 07T208	22502	560,90	96,00
KUB-P.4D.230.R.07-C25	23,0	25	30	168	92	112	1,01	SOGX 07T208	23002	560,90	96,00
KUB-P.4D.235.R.08-C32	23,5	32	39	176	96	116	1,28	SOGX 080308	23503	582,40	99,60
KUB-P.4D.240.R.08-C32	24,0	32	39	176	96	116	1,28	SOGX 080308	24003	582,40	99,60
KUB-P.4D.245.R.08-C32	24,5	32	39	181	100	121	1,28	SOGX 080308	24503	582,40	99,60
KUB-P.4D.250.R.08-C32	25,0	32	39	181	100	121	1,28	SOGX 080308	25003	582,40	99,60
KUB-P.4D.255.R.08-C32	25,5	32	39	185	104	125	1,28	SOGX 080308	25503	582,40	99,60
KUB-P.4D.260.R.08-C32	26,0	32	39	185	104	125	1,28	SOGX 080308	26003	582,40	99,60
KUB-P.4D.265.R.09-C32	26,5	32	39	190	108	130	2,25	SOGX 09T308	26503	657,80	112,80
KUB-P.4D.270.R.09-C32	27,0	32	39	190	108	130	2,25	SOGX 09T308	27003	657,80	112,80
KUB-P.4D.275.R.09-C32	27,5	32	39	194	112	134	2,25	SOGX 09T308	27503	657,80	112,80
KUB-P.4D.280.R.09-C32	28,0	32	39	194	112	134	2,25	SOGX 09T308	28003	657,80	112,80
KUB-P.4D.285.R.09-C32	28,5	32	39	199	116	139	2,25	SOGX 09T308	28503	657,80	112,80
KUB-P.4D.290.R.09-C32	29,0	32	39	199	116	139	2,25	SOGX 09T308	29003	657,80	112,80
KUB-P.4D.295.R.09-C32	29,5	32	39	203	120	143	2,25	SOGX 09T308	29503	657,80	112,80
KUB-P.4D.300.R.09-C32	30,0	32	39	203	120	143	2,25	SOGX 09T308	30003	657,80	112,80
KUB-P.4D.305.R.10-C40	30,5	40	50	216	124	148	2,8	SOGX 100408	30504	696,90	120,00

Designation	DC	DCONMS	DF	OAL	LU	LPR	torque moment	Insert	10 873 ...	PG 2B/6#	
	mm	mm	mm	mm	mm	mm	Nm			EUR	EUR
KUB-P.3D.310.R.10-C40	31,0	40	50	185	93	117	2,8	SOGX 100408	31004	560,90	96,00
KUB-P.3D.315.R.10-C40	31,5	40	50	188	96	120	2,8	SOGX 100408	31504	560,90	96,00
KUB-P.3D.320.R.10-C40	32,0	40	50	188	96	120	2,8	SOGX 100408	32004	560,90	96,00
KUB-P.3D.325.R.10-C40	32,5	40	50	192	99	124	2,8	SOGX 100408	32504	560,90	96,00
KUB-P.3D.330.R.10-C40	33,0	40	50	192	99	124	2,8	SOGX 100408	33004	560,90	96,00
KUB-P.3D.335.R.11-C40	33,5	40	50	195	102	127	2,8	SOGX 110408	33504	587,50	100,80
KUB-P.3D.340.R.11-C40	34,0	40	50	195	102	127	2,8	SOGX 110408	34004	587,50	100,80
KUB-P.3D.345.R.11-C40	34,5	40	50	199	105	131	2,8	SOGX 110408	34504	587,50	100,80
KUB-P.3D.350.R.11-C40	35,0	40	50	199	105	131	2,8	SOGX 110408	35004	587,50	100,80
KUB-P.3D.355.R.11-C40	35,5	40	50	202	108	134	2,8	SOGX 110408	35504	587,50	100,80
KUB-P.3D.360.R.11-C40	36,0	40	50	202	108	134	2,8	SOGX 110408	36004	587,50	100,80
KUB-P.3D.365.R.11-C40	36,5	40	50	206	111	138	2,8	SOGX 110408	36504	587,50	100,80
KUB-P.3D.370.R.11-C40	37,0	40	50	206	111	138	2,8	SOGX 110408	37004	587,50	100,80
KUB-P.3D.375.R.12-C40	37,5	40	50	209	114	141	6,25	SOGX 120408	37504	685,00	103,20
KUB-P.3D.380.R.12-C40	38,0	40	50	209	114	141	6,25	SOGX 120408	38004	685,00	103,20
KUB-P.3D.385.R.12-C40	38,5	40	50	213	117	145	6,25	SOGX 120408	38504	685,00	103,20
KUB-P.3D.390.R.12-C40	39,0	40	50	213	117	145	6,25	SOGX 120408	39004	685,00	103,20
KUB-P.3D.395.R.12-C40	39,5	40	50	216	120	148	6,25	SOGX 120408	39504	685,00	103,20
KUB-P.3D.400.R.12-C40	40,0	40	50	216	120	148	6,25	SOGX 120408	40004	685,00	103,20
KUB-P.3D.405.R.12-C40	40,5	40	50	220	123	152	6,25	SOGX 120408	40504	685,00	103,20
KUB-P.3D.410.R.12-C40	41,0	40	50	220	123	152	6,25	SOGX 120408	41004	685,00	103,20
KUB-P.3D.415.R.12-C40	41,5	40	50	223	126	155	6,25	SOGX 120408	41504	685,00	103,20
KUB-P.3D.420.R.12-C40	42,0	40	50	223	126	155	6,25	SOGX 120408	42004	685,00	103,20
KUB-P.3D.425.R.13-C40	42,5	40	50	227	129	159	6,25	SOGX 130508	42504	685,00	103,20
KUB-P.3D.430.R.13-C40	43,0	40	50	227	129	159	6,25	SOGX 130508	43004	685,00	103,20
KUB-P.3D.435.R.13-C40	43,5	40	50	230	132	162	6,25	SOGX 130508	43504	685,00	103,20
KUB-P.3D.440.R.13-C40	44,0	40	50	230	132	162	6,25	SOGX 130508	44004	685,00	103,20
KUB-P.3D.445.R.13-C40	44,5	40	50	234	135	166	6,25	SOGX 130508	44504	685,00	103,20
KUB-P.3D.450.R.13-C40	45,0	40	50	234	135	166	6,25	SOGX 130508	45004	685,00	103,20
KUB-P.3D.455.R.13-C40	45,5	40	50	237	138	169	6,25	SOGX 130508	45504	685,00	103,20
KUB-P.3D.460.R.13-C40	46,0	40	50	237	138	169	6,25	SOGX 130508	46004	685,00	103,20



-01

Allrounder chip breaker for normal materials.



-03

Best swarf control for tough to machine materials including super alloys.



-13

Good swarf control and low power/cutting forces.

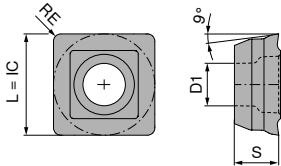


-21

Lowest power/cutting forces. For larger diameters on low power machines.

SOGX

Designation	L mm	IC mm	D1 mm	S mm
SOGX 0402..	4,8	4,8	2,05	2,2
SOGX 0502..	5,5	5,5	2,30	2,4
SOGX 0602..	6,2	6,2	2,60	2,75
SOGX 07T2..	7,1	7,1	2,60	2,97
SOGX 0803..	8,0	8,0	2,85	3,4
SOGX 09T3..	8,9	8,9	3,40	3,9
SOGX 1004..	9,8	9,8	4,10	4,2
SOGX 1104..	10,9	10,9	4,10	4,5
SOGX 1204..	12,0	12,0	5,20	4,8
SOGX 1305..	13,2	13,2	5,20	5,2



SOGX

Performance

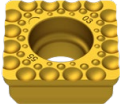
-21
BK8430



-13
BK8425



-03
BK8430



-01
BK8425



-01
BK7935



ISO	RE mm	10 820 ... PG 1A/3#			10 820 ... PG 1A/3#			10 820 ... PG 1A/3#			10 820 ... PG 1A/3#			10 820 ... PG 1A/3#		
			EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR
040204	0,4	00421	20,27	13,20	30413	20,27	13,20	00403	20,27	13,20	30401	20,27	13,20	50401	20,29	13,20
050204	0,4	00521	20,30	13,20	30513	20,30	13,20	00503	20,30	13,20	30501	20,30	13,20	50501	20,44	13,20
060206	0,6	00621	20,53	14,40	30613	20,53	13,20	00603	20,53	13,20	30601	20,53	13,20	50601	20,56	13,20
07T208	0,8	00721	20,64	14,40	30713	20,64	13,20	00703	20,64	13,20	30701	20,64	13,20	50701	20,74	13,20
080308	0,8	00821	20,79	14,40	30813	20,79	13,20	00803	20,79	13,20	30801	20,79	13,20	50801	20,78	13,20
09T308	0,8				30913	24,57	13,20	00903	24,57	13,20	30901	24,57	13,20	50901	24,56	13,20
100408	0,8	01021	22,22	15,60	31013	22,22	14,40	01003	22,22	14,40	31001	22,22	14,40	51001	22,26	14,40
110408	0,8	01121	22,88	15,60	31113	22,88	14,40	01103	22,88	14,40	31101	22,88	14,40	51101	22,89	14,40
120408	0,8	01221	24,06	16,80	31213	24,06	15,60	01203	24,06	15,60	31201	24,06	15,60	51201	24,03	15,60
130508	0,8	01321	27,00	19,20	31313	27,00	18,00	01303	27,00	18,00	31301	27,00	18,00	51301	28,00	18,00
P		●			●			●			●			●		
M		●			●			●			●			●		
K		●			●			●			●			●		
N		○			○			○			○			○		
S		●			●			●			●			●		
H		○			○			○			○			○		
O														○		

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REAMING



KOMET Fullmax – high performance solid carbide machine reamer for through and blind hole reaming in all materials.



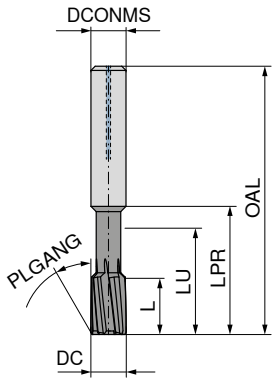
Type N – for all standard low volume applications.

KOMET Fullmax – High-performance machine reamers, short

- ▲ extremely irregular pitch
- ▲ designed for high-speed machining
- ▲ specialised geometry and coating for universal use



Performance



51P.57
Left Hand Helix
PLGANG 30°
ASG2210
Solid carbide
Through hole

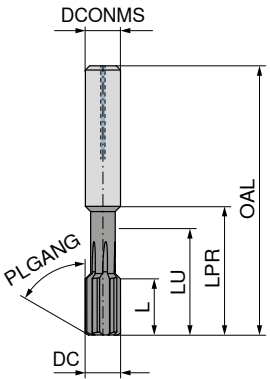
DC _{H7} mm	L mm	LU mm	LPR mm	OAL mm	DCONMS _{H6} mm	ZEFP	40 483 ... PG U4/4R		
								EUR	EUR
4	12	17	22	50	4	4	04000	135,80	76,80
5	12	23	28	64	6	4	05000	137,90	78,00
6	12	23	28	64	6	4	06000	140,90	79,20
7	16	29	39	75	8	6	07000	147,20	82,80
8	16	29	39	75	8	6	08000	147,20	82,80
9	16	35	40	80	10	6	09000	207,80	117,60
10	16	35	40	80	10	6	10000	207,80	117,60
11	20	40	45	90	12	6	11000	275,80	156,00
12	20	40	45	90	12	6	12000	275,80	156,00
16	20	40	45	93	16	8	16000	408,90	231,60
P								●	
M								●	
K								●	
N								○	
S								○	
H								○	
O									

KOMET Fullmax – High-performance machine reamers, short

- ▲ extremely irregular pitch
- ▲ designed for high-speed machining
- ▲ specialised geometry and coating for universal use



Performance



51M.57
straight flute
PLGANG 60°
ASG2110
Solid carbide
Blind hole

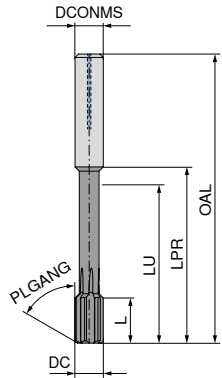
DC _{H7} mm	L mm	LU mm	LPR mm	OAL mm	DCONMS _{H6} mm	ZEFP	40 481 ... PG U4/4R		
								EUR	EUR
4	12	17	22	50	4	4	04000	113,20	63,60
5	12	23	28	64	6	4	05000	115,30	64,80
6	12	23	28	64	6	4	06000	120,40	68,40
7	16	29	39	75	8	6	07000	126,60	72,00
8	16	29	39	75	8	6	08000	126,60	72,00
9	16	35	40	80	10	6	09000	181,10	102,00
10	16	35	40	80	10	6	10000	181,10	102,00
11	20	40	45	90	12	6	11000	240,80	136,80
12	20	40	45	90	12	6	12000	240,80	136,80
16	20	40	45	93	16	8	16000	366,00	207,60
P								●	
M								●	
K								●	
N								○	
S								○	
H								○	
O									

KOMET Fullmax – High-performance machine reamers, long

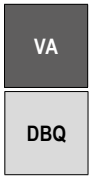
- ▲ extremely irregular pitch
- ▲ designed for high-speed machining
- ▲ specialised geometries and coatings



Performance



52P.57
Left Hand Helix
PLGANG 30°
ASG2210
Solid carbide
Through hole



52S.44
Left Hand Helix
PLGANG 30°
ASG2231
Solid carbide
Through hole



52N.17
straight flute
PLGANG 30°
ASG2270
Solid carbide
Through hole

DC _{H7} mm	L mm	LU mm	LPR mm	OAL mm	DCONMS _{H6} mm	ZEFP	40 484 ... PG U4/4R			40 401 ... PG U4/4R			40 471 ... PG U4/4R		
								EUR	EUR		EUR	EUR		EUR	EUR
4	12	28	32	60	4	4	04000	175,30	103,20	04000	192,50	112,80	04000 ¹⁾	192,50	112,80
5	12	35	40	76	6	4	05000	178,80	104,40	05000	195,30	115,20	05000 ¹⁾	195,30	115,20
6	12	35	40	76	6	4	06000	181,90	106,80	06000	199,20	117,60	06000 ¹⁾	199,20	117,60
7	16	60	65	101	8	6	07000	189,80	111,60	07000	208,50	122,40	07000 ¹⁾	208,50	122,40
8	16	60	65	101	8	6	08000	189,80	111,60	08000	208,50	122,40	08000 ¹⁾	208,50	122,40
9	16	63	68	108	10	6	09000	268,20	158,40	09000	296,10	174,00	09000 ¹⁾	296,10	174,00
10	16	63	68	108	10	6	10000	268,20	158,40	10000	296,10	174,00	10000 ¹⁾	296,10	174,00
11	20	80	85	130	12	6	11000	355,80	210,00	11000	398,40	230,40	11000 ¹⁾	398,40	230,40
12	20	80	85	130	12	6	12000	355,80	210,00	12000	398,40	230,40	12000 ¹⁾	398,40	230,40
16	20	97	102	150	16	8	16000	467,40	276,00	16000	519,90	302,40	16000 ¹⁾	519,90	302,40
P								●			●				
M								●			●				
K								●							
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S								○							
H								○							
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1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request / Minimum order 2 pieces



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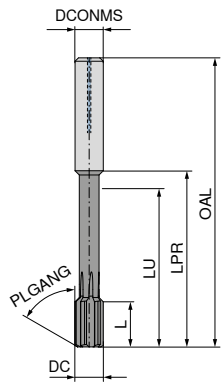
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KOMET Fullmax – High-performance machine reamers, long

- ▲ extremely irregular pitch
- ▲ designed for high-speed machining
- ▲ specialised geometries and coatings



Performance



DC _{H7}	L	LU	LPR	OAL	DCONMS _{H6}	ZEFP
mm	mm	mm	mm	mm	mm	
4	12	28	32	60	4	4
5	12	35	40	76	6	4
6	12	35	40	76	6	4
7	16	60	65	101	8	6
8	16	60	65	101	8	6
9	16	63	68	108	10	6
10	16	63	68	108	10	6
11	20	80	85	130	12	6
12	20	80	85	130	12	6
16	20	97	102	150	16	6

P	•	•	
M	•	•	
K	•		
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S	○		
H	○		
O			○

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request / Minimum order 2 pieces

UNI

DBG-U

52M.57

straight flute
PLGANG 60°
ASG2110
Solid carbide
Blind hole

VA

DBQ

52T.45

straight flute
PLGANG 45°
ASG2131
Solid carbide
Blind hole

ALU

DBC-N

52Q.17

straight flute
PLGANG 60°
ASG2170
Solid carbide
Blind hole

40 485 ...	PG U4/4R	40 402 ...	PG U4/4R	40 472 ...	PG U4/4R
	EUR	EUR	EUR	EUR	EUR
04000	146,00	85,20	04000	160,00	94,80
05000	148,70	87,60	05000	164,00	97,20
06000	155,40	91,20	06000	174,30	100,80
07000	163,30	96,00	07000	179,20	105,60
08000	163,30	96,00	08000	179,20	105,60
09000	233,70	138,00	09000	257,70	151,20
10000	233,70	138,00	10000	257,70	151,20
11000	310,00	182,40	11000	341,30	200,40
12000	310,00	182,40	12000	341,30	200,40
16000	410,30	246,00	16000	460,90	271,20

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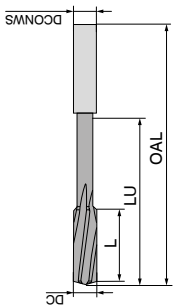
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Machine reamers, similar to DIN 8093-A / -B

▲ extremely irregular pitch

N



straight flute
Solid carbide



Left Hand Helix
Solid carbide

DC _{H7} mm	OAL mm	L mm	LU mm	DCONMS _{H7} mm	ZEFP	40 405 ... PG U4/4R		40 415 ... PG U4/4R	
						EUR	EUR	EUR	EUR
2,0	49	11	31	2,0	4	02000	29,55 24,00	02000	29,55 24,00
2,1	49	11	31	2,0	4	02100	35,32 28,80	02100	35,32 28,80
2,2	53	12	35	2,2	4	02200	35,32 28,80	02200	35,32 28,80
2,3	53	12	35	2,2	4	02300	35,32 28,80	02300	35,32 28,80
2,4	57	14	34	2,5	4	02400	35,32 28,80	02400	35,32 28,80
2,5	57	14	34	2,5	4	02500	34,74 25,20	02500	34,74 25,20
2,6	57	14	34	2,5	4	02600	37,96 30,00	02600	37,96 30,00
2,7	61	15	36	3,0	4	02700	37,96 30,00	02700	37,96 30,00
2,8	61	15	36	3,0	4	02800	37,96 30,00	02800	37,96 30,00
2,9	61	15	36	3,0	4	02900	37,96 30,00	02900	37,96 30,00
3,0	61	15	36	3,0	4	03000	34,28 27,60	03000	34,28 27,60
3,1	61	15	36	3,0	4	03100	40,99 32,40	03100	40,99 32,40
3,2	70	18	40	3,5	4	03200	40,99 32,40	03200	40,99 32,40
3,3	70	18	40	3,5	4	03300	40,99 32,40	03300	40,99 32,40
3,4	70	18	40	3,5	4	03400	40,99 32,40	03400	40,99 32,40
3,5	70	18	40	3,5	4	03500	38,97 31,20	03500	38,97 31,20
3,6	70	18	40	3,5	4	03600	46,88 37,20	03600	46,88 37,20
3,7	70	18	40	3,5	4	03700	46,88 37,20	03700	46,88 37,20
3,8	75	19	43	4,0	4	03800	46,88 37,20	03800	46,88 37,20
3,9	75	19	43	4,0	4	03900	46,88 37,20	03900	46,88 37,20
4,0	75	19	43	4,0	4	04000	44,87 33,60	04000	44,87 33,60
4,1	75	19	43	4,0	4	04100	50,42 40,80	04100	50,42 40,80
4,2	75	19	43	4,0	4	04200	50,42 40,80	04200	50,42 40,80
4,3	75	21	42	4,5	4	04300	50,42 40,80	04300	50,42 40,80
4,4	75	21	42	4,5	4	04400	50,42 40,80	04400	50,42 40,80
4,5	75	21	42	4,5	4	04500	45,64 37,20	04500	45,64 37,20
4,6	75	21	42	4,5	4	04600	54,75 44,40	04600	54,75 44,40
4,7	75	21	42	4,5	4	04700	54,75 44,40	04700	54,75 44,40
4,8	86	23	52	5,0	6	04800	54,75 44,40	04800	54,75 44,40
4,9	86	23	52	5,0	6	04900	54,75 44,40	04900	54,75 44,40
5,0	86	23	52	5,0	6	05000	51,42 40,80	05000	51,42 40,80
5,1	86	23	52	5,0	6	05100	59,25 48,00	05100	59,25 48,00
5,2	86	23	52	5,0	6	05200	59,25 48,00	05200	59,25 48,00
5,3	86	23	52	5,0	6	05300	59,25 48,00	05300	59,25 48,00
5,4	93	26	57	5,6	6	05400	59,25 48,00	05400	59,25 48,00
5,5	93	26	57	5,6	6	05500	54,45 43,20	05500	54,45 43,20
5,6	93	26	57	5,6	6	05600	62,72 50,40	05600	62,72 50,40
5,7	93	26	57	5,6	6	05700	62,72 50,40	05700	62,72 50,40
5,8	93	26	57	5,6	6	05800	62,72 50,40	05800	62,72 50,40
5,9	93	26	57	5,6	6	05900	62,72 50,40	05900	62,72 50,40
6,0	93	26	57	5,6	6	06000	65,48 52,80	06000	65,48 52,80
6,1	93	26	57	5,6	6	06100	75,83 60,00	06100	75,83 60,00
6,2	93	26	57	5,6	6	06200	75,83 60,00	06200	75,83 60,00
6,3	101	28	63	6,3	6	06300	75,83 60,00	06300	75,83 60,00
6,4	101	28	63	6,3	6	06400	75,83 60,00	06400	75,83 60,00

DC _{H7} mm	OAL mm	L mm	LU mm	DCONMS _{H7} mm	ZEFP		40 405 ...	PG U4/4R	40 415 ...	PG U4/4R	
							EUR	EUR	EUR	EUR	
6,5	101	28	63	6,3	6	06500	73,82	58,80	06500	73,82	58,80
6,6	101	28	63	6,3	6	06600	84,45	68,40	06600	84,45	68,40
6,7	101	28	63	6,3	6	06700	84,45	68,40	06700	84,45	68,40
6,8	109	31	69	7,1	6	06800	84,45	68,40	06800	84,45	68,40
6,9	109	31	69	7,1	6	06900	84,45	68,40	06900	84,45	68,40
7,0	109	31	69	7,1	6	07000	81,69	66,00	07000	81,69	66,00
7,1	109	31	69	7,1	6	07100	93,86	75,60	07100	93,86	75,60
7,2	109	31	69	7,1	6	07200	93,86	75,60	07200	93,86	75,60
7,3	109	31	69	7,1	6	07300	93,86	75,60	07300	93,86	75,60
7,4	109	31	69	7,1	6	07400	93,86	75,60	07400	93,86	75,60
7,5	109	31	69	7,1	6	07500	88,37	72,00	07500	88,37	72,00
7,6	117	33	75	8,0	6	07600	101,79	82,80	07600	101,79	82,80
7,7	117	33	75	8,0	6	07700	101,79	82,80	07700	101,79	82,80
7,8	117	33	75	8,0	6	07800	101,79	82,80	07800	101,79	82,80
7,9	117	33	75	8,0	6	07900	101,79	82,80	07900	101,79	82,80
8,0	117	33	75	8,0	6	08000	93,86	75,60	08000	93,86	75,60
8,1	117	33	75	8,0	6	08100	103,40	84,00	08100	103,40	84,00
8,2	117	33	75	8,0	6	08200	103,40	84,00	08200	103,40	84,00
8,3	117	33	75	8,0	6	08300	103,40	84,00	08300	103,40	84,00
8,4	117	33	75	8,0	6	08400	103,40	84,00	08400	103,40	84,00
8,5	117	33	75	8,0	6	08500	102,80	82,80	08500	102,80	82,80
8,6	125	36	81	9,0	6	08600	112,80	91,20	08600	112,80	91,20
8,7	125	36	81	9,0	6	08700	112,80	91,20	08700	112,80	91,20
8,8	125	36	81	9,0	6	08800	112,80	91,20	08800	112,80	91,20
8,9	125	36	81	9,0	6	08900	112,80	91,20	08900	112,80	91,20
9,0	125	36	81	9,0	6	09000	109,28	88,80	09000	109,28	88,80
9,1	125	36	81	9,0	6	09100	120,10	97,20	09100	120,10	97,20
9,2	125	36	81	9,0	6	09200	120,10	97,20	09200	120,10	97,20
9,3	125	36	81	9,0	6	09300	120,10	97,20	09300	120,10	97,20
9,4	125	36	81	9,0	6	09400	120,10	97,20	09400	120,10	97,20
9,5	125	36	81	9,0	6	09500	117,80	94,80	09500	117,80	94,80
9,6	133	38	87	10,0	6	09600	128,80	104,40	09600	128,80	104,40
9,7	133	38	87	10,0	6	09700	128,80	104,40	09700	128,80	104,40
9,8	133	38	87	10,0	6	09800	128,80	104,40	09800	128,80	104,40
9,9	133	38	87	10,0	6	09900	128,80	104,40	09900	128,80	104,40
10,0	133	38	87	10,0	6	10000	126,80	102,00	10000	126,80	102,00
10,1	133	38	87	10,0	6	10100	138,80	112,80	10100	138,80	112,80
10,2	133	38	87	10,0	6	10200	138,80	112,80	10200	138,80	112,80
10,3	133	38	87	10,0	6	10300	138,80	112,80	10300	138,80	112,80
10,4	133	38	87	10,0	6	10400	138,80	112,80	10400	138,80	112,80
10,5	133	38	87	10,0	6	10500	131,80	106,80	10500	131,80	106,80
10,6	133	38	87	10,0	6	10600	144,80	117,60	10600	144,80	117,60
10,7	142	41	96	10,0	6	10700	144,80	117,60	10700	144,80	117,60
10,8	142	41	96	10,0	6	10800	144,80	117,60	10800	144,80	117,60
10,9	142	41	96	10,0	6	10900	144,80	117,60	10900	144,80	117,60
11,0	142	41	96	10,0	6	11000	142,70	115,20	11000	142,70	115,20
11,1	142	41	96	10,0	6	11100	157,80	128,40	11100	157,80	128,40
11,2	142	41	96	10,0	6	11200	157,80	128,40	11200	157,80	128,40
11,3	142	41	96	10,0	6	11300	157,80	128,40	11300	157,80	128,40
11,4	142	41	96	10,0	6	11400	157,80	128,40	11400	157,80	128,40
11,5	142	41	96	10,0	6	11500	152,20	123,60	11500	152,20	123,60
11,6	142	41	96	10,0	6	11600	166,60	135,60	11600	166,60	135,60
11,7	142	41	96	10,0	6	11700	166,60	135,60	11700	166,60	135,60
11,8	142	41	96	10,0	6	11800	166,60	135,60	11800	166,60	135,60
11,9	151	44	100	10,0	6	11900	166,60	135,60	11900	166,60	135,60
12,0	151	44	100	10,0	6	12000	163,70	133,20	12000	163,70	133,20
P							●	●			
M											
K							○	○			
N							●	●			
S											
H											
O											



HSS TAPS



UNI – universal taps for all standard materials.



VA – problem solver for stainless and difficult to machine materials.

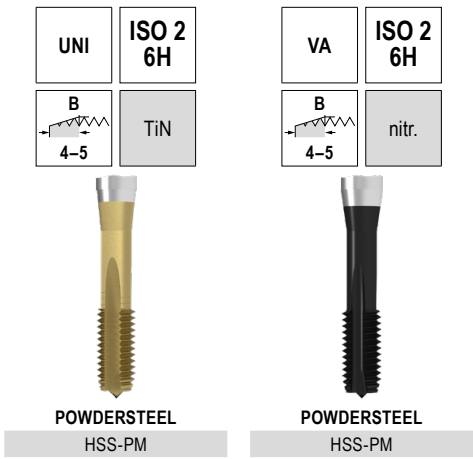
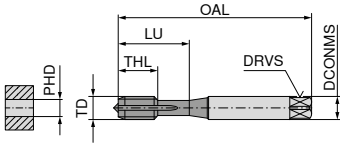


Roll tapping – 23 810 ... range. For all suitable applications and materials.

Through hole – Machine taps, right hand



Standard



TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes
mm	mm	mm	mm	mm	mm	mm	mm	
M2	0,40	45	2,8	2,1	1,6	4	13,5	2
M3	0,50	56	3,5	2,7	2,5	11	18,0	3
M4	0,70	63	4,5	3,4	3,3	13	21,0	3
M5	0,80	70	6,0	4,9	4,2	15	25,0	3
M6	1,00	80	6,0	4,9	5,0	17	30,0	3
M8	1,25	90	8,0	6,2	6,8	20	35,0	3
M10	1,50	100	10,0	8,0	8,5	22	39,0	3

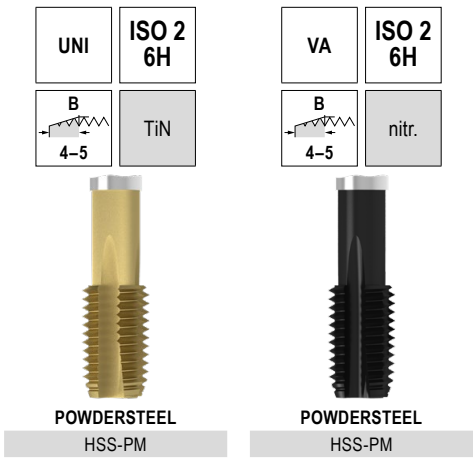
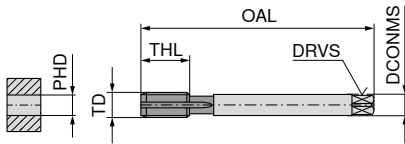
23 010 ...	PG	T9
EUR	EUR	
020	12,56	10,80
030	15,66	13,20
040	14,36	12,00
050	16,97	13,20
060	19,17	16,80
080	24,37	18,00
100	29,24	24,00

23 450 ...	PG	T9
EUR	EUR	
030	14,62	12,00
040	14,75	12,00
050	15,93	13,20
060	16,49	13,20
080	19,12	15,60
100	20,59	18,00

Through hole – Machine taps, right hand



Standard



TD	TP	OAL	DCONMS	DRVS	PHD	THL	Flutes
mm	mm	mm	mm	mm	mm	mm	
M12	1,75	110	9	7	10,2	24	3
M14	2,00	110	11	9	12,0	26	3
M14	2,00	110	11	9	12,0	20	4
M16	2,00	110	12	9	14,0	27	3
M18	2,50	125	14	11	15,5	25	4
M20	2,50	140	16	12	17,5	32	3

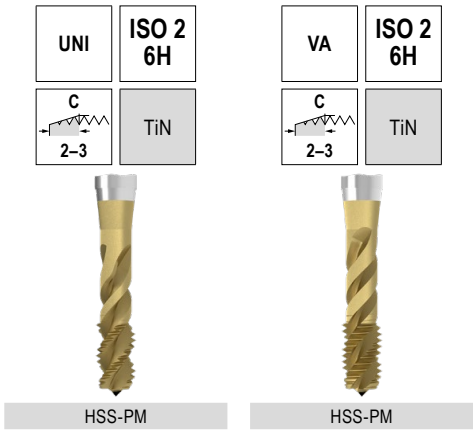
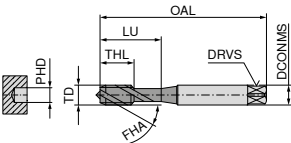
23 021 ...	PG	T9
EUR	EUR	
120	33,65	28,80
140	51,02	44,40
160	47,40	40,80
180	82,08	72,00
200	86,71	74,40

23 451 ...	PG	T9
EUR	EUR	
120	36,62	31,20
140	48,55	42,00
160	51,46	44,40
200	76,79	67,20

Blind hole – Machine taps, right hand



Standard



TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes
mm	mm	mm	mm	mm	mm	mm	mm	
M3	0,50	56	3,5	2,7	2,5	6	18	3
M4	0,70	63	4,5	3,4	3,3	7	21	3
M5	0,80	70	6,0	4,9	4,2	8	25	3
M6	1,00	80	6,0	4,9	5,0	10	30	3
M8	1,25	90	8,0	6,2	6,8	14	35	3
M10	1,50	100	10,0	8,0	8,5	16	39	3

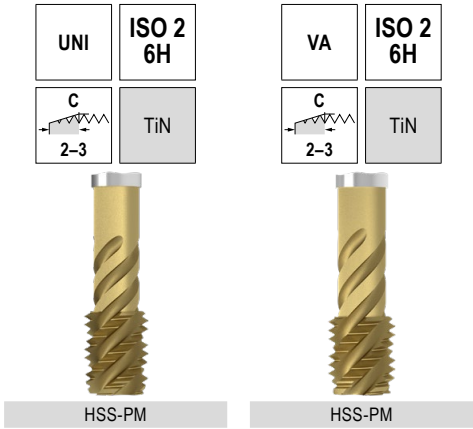
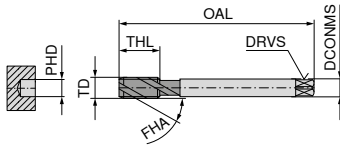
23 026 ...	PG	T9
EUR	EUR	
030	17,86	15,60
040	17,86	15,60
050	19,17	16,80
060	22,26	19,20
080	28,42	22,80
100	33,27	28,80

23 456 ...	PG	T9
EUR	EUR	
030	17,86	15,60
040	19,43	16,80
050	19,79	16,80
060	25,43	21,60
080	27,31	24,00
100	37,66	32,40

Blind hole – Machine taps, right hand



Standard



TD	TP	OAL	DCONMS	DRVS	PHD	THL	Flutes
mm	mm	mm	mm	mm	mm	mm	
M12	1,75	110	9	7	10,2	18	4
M12	1,75	110	9	7	10,2	18	3
M14	2,00	110	11	9	12,0	20	4
M16	2,00	110	12	9	14,0	22	4
M16	2,00	110	12	9	14,0	22	3
M20	2,50	140	16	12	17,5	25	3

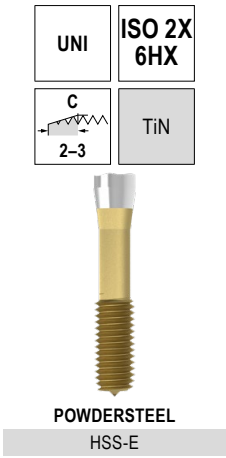
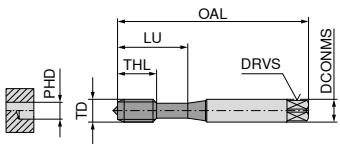
23 027 ...	PG	T9
EUR	EUR	
120	39,23	33,60
140	56,57	49,20
160	56,57	49,20
160	67,05	58,80
200	64,72	56,40
200	134,70	117,60

23 457 ...	PG	T9
EUR	EUR	
120	53,87	46,80
160	67,05	58,80
200	134,70	117,60

Through hole / Blind hole – Machine thread formers, right hand



Standard

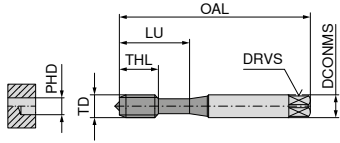


TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU
mm	mm	mm	mm	mm	mm	mm	mm
M2	0,40	45	2,8	2,1	1,85	7	12
M2,5	0,45	50	2,8	2,1	2,33	9	14
M3	0,50	56	3,5	2,7	2,80	11	18
M4	0,70	63	4,5	3,4	3,70	13	21
M5	0,80	70	6,0	4,9	4,65	15	25
M6	1,00	80	6,0	4,9	5,60	17	30
M8	1,25	90	8,0	6,2	7,45	20	35
M10	1,50	100	10,0	8,0	9,35	22	39

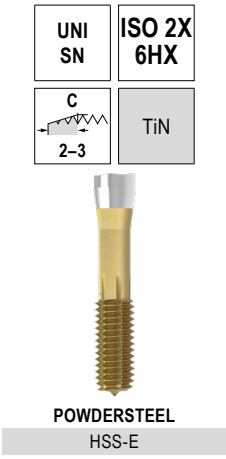
23 810 ...	PG	T9
EUR	EUR	
020	31,86	24,00
025	28,35	21,60
030	28,58	15,60
040	24,37	15,60
050	22,66	16,80
060	26,93	20,40
080	36,93	22,80
100	40,91	30,00



Standard



TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU
mm	mm	mm	mm	mm	mm	mm	mm
M2	0,40	45	2,8	2,1	1,85	7	12
M2,5	0,45	50	2,8	2,1	2,33	9	14
M3	0,50	56	3,5	2,7	2,80	11	18
M4	0,70	63	4,5	3,4	3,70	13	21
M5	0,80	70	6,0	4,9	4,65	15	25
M6	1,00	80	6,0	4,9	5,60	17	30
M8	1,25	90	8,0	6,2	7,45	20	35
M10	1,50	100	10,0	8,0	9,35	22	39



23 814 ...	PG	T9
EUR	EUR	
020	36,12	27,60
025	32,77	24,00
030	33,44	18,00
040	24,35	18,00
050	25,76	19,20
060	29,78	22,80
080	33,65	25,20
100	43,64	40,80



Technical support: 1800 93 22 55

3 time served engineers, available from 8:00 am to 6:00 pm, Monday to Friday
Email: techsupport.uk@ceratizit.com

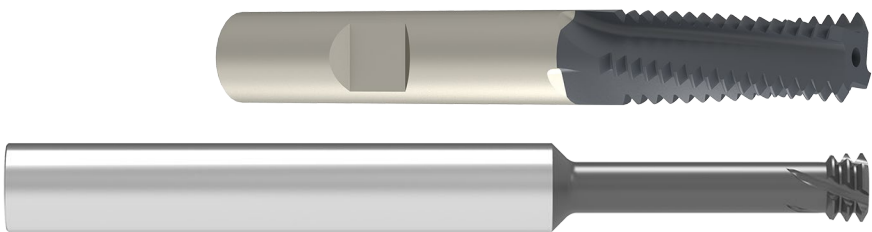


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THREAD MILLING CUTTERS

Standard Line



- ▲ universal application for all materials.
- ▲ 2xD
- ▲ 3xD and 4xD
- ▲ metric fine version available in 2xD.

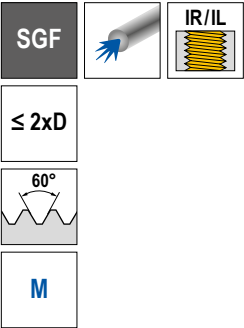
Performance Line



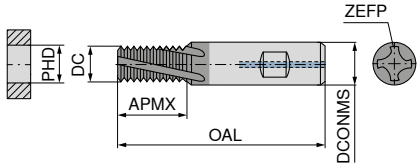
- ▲ 4 flutes with higher feed rates for larger batch sizes and production runs.

MonoThread – Thread milling cutter

▲ Profile corrected
▲ Hard machining from Ø DC = 4 mm possible



Standard



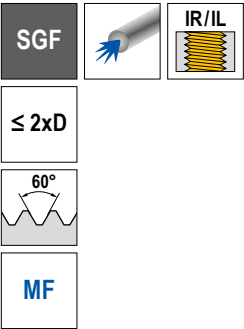
Solid carbide

DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} mm	OAL mm	ZEFP	PHD mm	54 821 ... EUR	PG W8/W
2,40	M3	0,50	7,0	4	42	2	2,50	03000 ¹⁾	124,70
3,15	M4	0,70	10,0	6	55	3	3,30	04000 ²⁾	142,40
4,00	M5	0,80	12,2	6	55	3	4,20	05000 ²⁾	142,40
4,80	M6	1,00	14,3	6	55	3	5,00	06000 ²⁾	146,30
6,00	M8	1,25	19,0	6	60	3	6,75	08000	156,60
8,00	M10	1,50	23,0	8	70	3	8,50	10000	195,50
9,90	M12	1,75	28,6	10	75	4	10,25	12000	224,70
11,60	M14	2,00	32,6	12	85	4	12,00	14000	275,30
12,00	M16	2,00	36,6	12	85	4	14,00	16000	282,60
14,00	M18	2,50	43,3	14	90	4	15,50	18000	337,50
16,00	M20	2,50	43,3	16	90	4	17,50	20000	344,70
P									
M									
K									
N									
S									
H									
O									

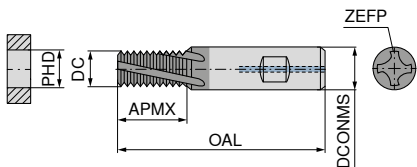
- 1) DIN 6535 HA Shank / Without Through Coolant
2) Without Through Coolant

MonoThread – Thread milling cutter

▲ Profile corrected
▲ Hard machining from Ø DC = 4 mm possible



Standard



Solid carbide

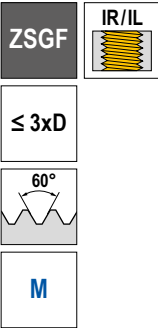
DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} mm	OAL mm	ZEFP	PHD mm	54 822 ... EUR	PG W8/W
4,0	M 5x0,5	0,50	11,6	6	55	3	4,50	05000 ¹⁾	142,40
4,8	M 6x0,75	0,75	14,5	6	55	3	5,25	06000 ¹⁾	146,30
6,0	M 8x1	1,00	19,3	6	60	3	7,00	08000	156,60
8,0	M 10x1,25	1,25	21,6	8	70	3	8,75	10000	195,50
9,9	M 12x1	1,00	27,3	10	75	4	11,00	12000	224,70
9,9	M 12x1,25	1,25	27,9	10	75	4	10,75	12100	224,70
9,9	M 12x1,5	1,50	27,5	10	75	4	10,50	12200	224,70
11,6	M 14x1	1,00	31,3	12	85	4	13,00	14000	275,30
11,6	M 14x1,5	1,50	32,0	12	85	4	12,50	14100	275,30
12,0	M 16x1,5	1,50	35,0	12	85	4	14,50	16000	282,60
14,0	M 18x1,5	1,50	42,5	14	90	4	16,50	18000	337,50
16,0	M 20x1,5	1,50	42,5	16	90	4	18,50	20000	344,70
P									
M									
K									
N									
S									
H									
O									

- 1) DIN 6535 HA Shank / Without Through Coolant

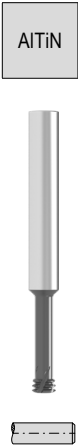
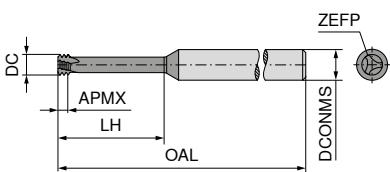
Please Note: G, UNF, UNC, NPT, BSF, BSW, Pg, Tr and UN also available in the main catalogue.

MonoThread – Circular shank thread milling cutter

▲ Profile corrected

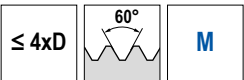


Performance



Solid carbide

DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEFP	50 545 ... EUR	PG W1/5D
1,53	M2	0,40	39	0,80	6,0	3	3	02000	94,00
2,37	M3	0,50	58	1,35	9,5	6	3	03000	94,00
3,10	M4	0,70	58	1,95	12,5	6	3	04000	94,00
3,80	M5	0,80	58	2,30	16,0	6	3	05000	94,00
4,65	M6	1,00	58	2,70	20,0	6	3	06000	94,00
6,00	M8	1,25	58	3,20	24,0	6	3	08000	94,00
7,80	M10	1,50	64	3,80	31,5	8	3	10000	113,50
9,00	M12	1,75	73	4,55	37,8	10	3	12000	127,60



Solid carbide

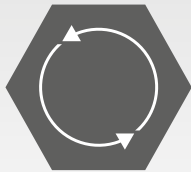
DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEFP	50 550 ... EUR	PG W1/5D
1,53	M2	0,40	39	1,00	10,4	3	3	02000 ¹⁾	102,50
2,37	M3	0,50	39	1,30	12,5	3	3	03000	97,07
3,10	M4	0,70	58	1,80	16,7	6	3	04000	97,07
4,00	M5	0,80	58	2,10	20,8	6	3	05000	97,07
4,80	M6	1,00	58	2,55	25,0	6	3	06000	97,07
6,40	M8	1,25	64	3,15	33,5	8	3	08000	124,40
8,00	M10	1,50	76	3,85	41,5	8	3	10000	124,40

P	●
M	○
K	●
N	●
S	●
H	●
O	●

- 1) 5xD

Our recycling service

Our joint contribution for the good of the environment: we take back your carbide and process it appropriately. You receive a credit from us that you can redeem with your next tool purchase.



Technical support: 1800 93 22 55
3 time served engineers, available from 8:00 am to 6:00 pm, Monday to Friday
Email: techsupport.uk@ceratizit.com



Order by 6:00 pm and get your guaranteed free express delivery

MonoThread – Thread Milling Cutter

▲ Profile corrected

SGF

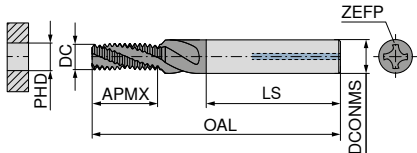




≤ 2xD



M



Performance

DC mm	Thread	TP mm	OAL mm	APMX mm	LS mm	DCONMS _{h6} mm	ZEFP	PHD mm	50 531 ...	PG W15D
2,44	M3	0,50	42	6,24	36	4	3	2,5	03000 ¹⁾	EUR 112,80
3,14	M4	0,70	49	8,00	36	6	3	3,3	04000	EUR 124,80
3,95	M5	0,80	55	10,00	36	6	3	4,2	05000	EUR 124,80
4,68	M6	1,00	55	12,47	36	6	4	5,0	06000	EUR 128,40
6,22	M8	1,25	62	16,83	36	8	4	6,8	08000	EUR 135,60
7,79	M10	1,50	74	20,20	40	10	4	8,5	10000	EUR 154,80
9,38	M12	1,75	79	25,32	45	12	5	10,2	12000	EUR 177,60
10,92	M14	2,00	89	28,93	45	14	5	12,0	14000	EUR 218,40
12,83	M16	2,00	102	32,94	48	16	5	14,0	16000	EUR 224,40
15,83	M20	2,50	110	41,17	50	20	5	17,5	20000	EUR 273,60

1) Without Through Coolant

MonoThread – Thread Milling Cutter

▲ Profile corrected

SGF

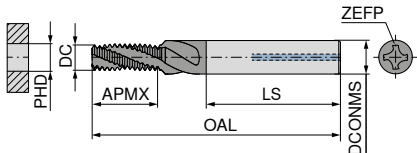




≤ 2xD



UNJC



Performance

DC mm	Thread	TP mm	OAL mm	APMX mm	LS mm	DCONMS _{h6} mm	ZEFP	PHD mm	50 524 ...	PG W15D
4,70	UNJC 1/4-20	0,907	55	14,27	36	6	4	5,6	01400	EUR 126,00
6,22	UNJC 5/16-18	1,411	62	16,32	36	8	4	7,0	05160	EUR 138,00
7,79	UNJC 3/8-16	1,588	74	20,01	40	10	4	8,6	03800	EUR 147,60
8,57	UNJC 7/16-14	1,814	79	22,87	45	12	4	10,0	07160	EUR 186,00
9,38	UNJC 1/2-13	1,270	79	26,75	45	12	5	11,5	01200	EUR 186,00

≤ 2xD



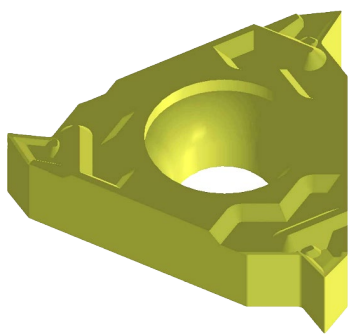
UNJF

DC mm	Thread	TP mm	OAL mm	APMX mm	LS mm	DCONMS _{h6} mm	ZEFP	PHD mm	50 533 ...	PG W15D
2,44	UNJF 6-40	0,635	42	7,42	28	4	3	2,95	06000	EUR 112,80
3,14	UNJF 8-36	0,706	49	8,91	36	6	3	3,50	08000	EUR 122,40
3,95	UNJF 10-32	0,794	55	9,97	36	6	3	4,10	10000	EUR 122,40
4,70	UNJF 1/4-28	0,907	55	14,27	36	6	4	5,60	01400	EUR 126,00
6,22	UNJF 5/16-24	1,058	62	16,59	36	8	4	7,00	05160	EUR 138,00
7,79	UNJF 3/8-24	1,058	74	19,77	40	10	4	8,60	03800	EUR 147,60
9,32	UNJF 7/16-20	1,270	79	22,39	45	12	5	10,00	07160	EUR 147,60
9,38	UNJF 1/2-20	1,270	79	25,34	45	12	5	11,50	01200	EUR 186,00
12,90	UNJF 5/8-18	1,411	102	33,59	48	16	5	14,50	05800	EUR 224,40

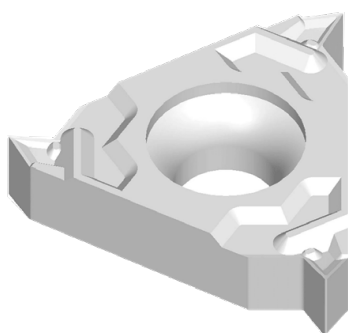
P	•
M	•
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THREAD TURNING



CTPX525 – Universal grade for use on all normal materials.



CTPM520 – Tough and temperature/wear resistant grade for machining stainless steels and hard to machine materials.

Right hand external thread turning insert

- ▲ Thread-turning inserts precision-sintered with chip breaker
- ▲ Full profile



Performance

						ER-M			ER-M		
Designation	TP	INSL	PDX	PDY		71 220 ...	PG	X3	71 220 ...	PG	X3
	mm	mm	mm	mm			EUR	EUR		EUR	EUR
16 ER-M 1,0	1,00	16	0,7	0,7		04400	15,00	11,00	44400	15,00	11,00
16 ER-M 1,25	1,25	16	0,8	0,9		04600	15,00	11,00	44600	15,00	11,00
16 ER-M 1,5	1,50	16	0,8	1,0		04800	15,00	11,00	44800	15,00	11,00
16 ER-M 1,75	1,75	16	0,9	1,2		05000	15,00	11,00	45000	15,00	11,00
16 ER-M 2,0	2,00	16	1,0	1,3		05200	15,00	11,00	45200	15,00	11,00
16 ER-M 2,5	2,50	16	1,1	1,5		05400	15,00	11,00	45400	15,00	11,00
16 ER-M 3,0	3,00	16	1,2	1,6		05600	15,00	11,00	45600	15,00	11,00
P						●			○		
M						○			●		
K						●			○		
N						●			○		
S						●			○		
H						○			○		
O											

Right hand internal thread turning insert

- ▲ Thread-turning inserts precision-sintered with chip breaker
- ▲ Full profile



Performance

						IR-M			IR-M		
Designation	TP	INSL	PDX	PDY		71 224 ...	PG	X3	71 224 ...	PG	X3
	mm	mm	mm	mm			EUR	EUR		EUR	EUR
16 IR-M 1,0	1,00	16	0,6	0,7		04400	15,00	11,00	44400	15,00	11,00
16 IR-M 1,25	1,25	16	0,8	0,9		04600	15,00	11,00	44600	15,00	11,00
16 IR-M 1,5	1,50	16	0,8	1,0		04800	15,00	11,00	44800	15,00	11,00
16 IR-M 1,75	1,75	16	0,9	1,2		05000	15,00	11,00	45000	15,00	11,00
16 IR-M 2,0	2,00	16	1,0	1,3		05200	15,00	11,00	45200	15,00	11,00
16 IR-M 2,5	2,50	16	1,1	1,5		05400	15,00	11,00	45400	15,00	11,00
16 IR-M 3,0	3,00	16	1,1	1,5		05600	15,00	11,00	45600	15,00	11,00
P						●			○		
M						○			●		
K						●			○		
N						●			○		
S						●			○		
H						○			○		
O											

Standard External Thread Turning Holder

- ▲ Tool Holder with Approach Angle $\beta = 1,5^\circ$

Performance

								Right-hand		
ISO designation	HF	WF	LF	LH	H	Insert	torque moment	71 280 ...	PG	Y2
	mm	mm	mm	mm	mm		Nm		EUR	EUR
SE R 12 12 F16	12	16	80	22	12	16 ..	3,5	012	100,00	25,20
SE R 16 16 H16	16	16	100	25	16	16 ..	3,5	016	100,00	31,20
SE R 20 20 K16	20	20	125	30	20	16 ..	3,5	020	100,00	31,20
SE R 25 25 M16	25	25	150	30	25	16 ..	3,5	025	142,00	34,80
SE R 32 32 P16	32	32	170	30	32	16 ..	3,5	032	155,00	38,40

Standard Internal Thread Turning Holder

- ▲ Tool Holder with Approach Angle $\beta = 1,5^\circ$

Performance

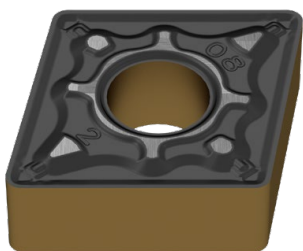
										Left-hand			Right-hand		
ISO designation	H	LF	LDRED	DCONMS	BDRED	WF	DMIN	Insert	torque moment	71 283 ...	PG	Y2	71 282 ...	PG	Y2
	mm	mm	mm	mm	mm	mm	mm		Nm		EUR	EUR		EUR	EUR
SI L 0013 M16	14,0	150	32	16	13,0	10,2	16	16 ..	3,5	015 ¹⁾	110,00	30,00	015 ¹⁾	110,00	30,00
SI L 0016 P16	18,0	170	40	20	15,0	11,7	19	16 ..	3,5	016 ¹⁾	110,00	30,00	016 ¹⁾	110,00	30,00
SI L 0020 P16	18,0	170	40	20	19,5	13,7	24	16 ..	3,5	020	130,00	34,80	020	130,00	34,80
SI L 0032 S16	28,8	250	50	32	31,5	19,7	36	16 ..	3,5	032	182,00	45,60	026	180,00	42,00
SI R 0013 M16	14,0	150	32	16	13,0	10,2	16	16 ..	3,5				032	182,00	45,60
SI R 0016 P16	18,0	170	40	20	15,0	11,7	19	16 ..	3,5				040	270,40	68,40
SI R 0020 P16	18,0	170	40	20	19,5	13,7	24	16 ..	3,5						
SI R 0025 R16	22,6	200	40	25	24,5	16,2	29	16 ..	3,5						
SI R 0032 S16	28,8	250	50	32	31,5	19,7	36	16 ..	3,5						
SI R 0040 T16	36,0	300	50	40	39,5	23,7	44	16 ..	3,5						

1) without shim

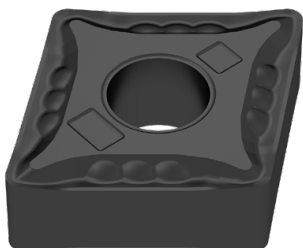




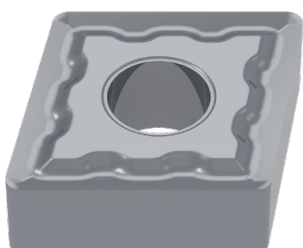
TURNING



CTCP115 / CTCP125 / CTCP135 – P
High performance turning of steels
with wear detection feature.



CTCM120 / CTCM130
High performance turning of stainless
steels.



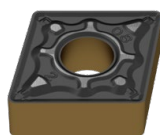
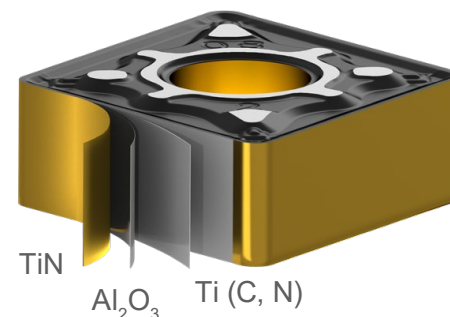
CTPX710 / CTPX715
High performance universal grade on
difficult to machine materials.

Steel machining made easy

The new ISO-P grades with indicator layer for high-performance turning processes!

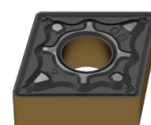
Machining with no compromises – with the CERATIZIT ISO-P carbide grades update

Thanks to a CVD multilayer coating with the latest Dragonskin coating technology, the indexable inserts are ideally suited to versatile steel machining. In combination with a balanced carbide base substrate, the new grades in the ISO-P category boast a wide application area with improved wear resistance. Depending on the cutting conditions, the perfect cutting material can be selected from three grades:



CTCP115-P

- ▲ ISO-P15
- ▲ Wear-resistant grade with high degree of elevated-temperature resistance for steel machining with optimum tool life
- ▲ High cutting speeds
- ▲ Maximum productivity
- ▲ For a smooth cut

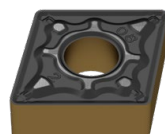


CTCP135-P

- ▲ ISO-P35
- ▲ Tough carbide grade for interrupted cuts
- ▲ Guaranteed process security
- ▲ For low cutting speeds and unstable conditions

DRAGONSKIN

DRAGONSKIN



CTCP125-P

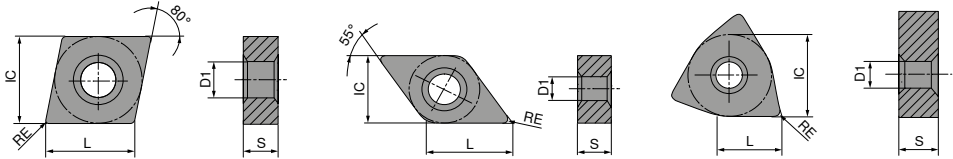
- ▲ ISO-P25
- ▲ Universal carbide grade for steel machining
- ▲ Excellent balance between toughness and elevated-temperature resistance
- ▲ High level of reliability for machining general steel
- ▲ Excellent for fluctuating cutting conditions, from finishing to roughing

DRAGONSKIN



CNMG / DNMG / WNMG

Designation	L	S	D1	IC
	mm	mm	mm	mm
WNMG 0604..	6,5	4,76	3,81	9,52
WNMG 0804..	8,6	4,76	5,16	12,70
DNMG 1104..	11,6	4,76	3,81	9,52
CNMG 1204..	12,9	4,76	5,16	12,70
DNMG 1506..	15,5	6,35	5,16	12,70
DNMG 1504..	15,5	4,76	5,16	12,70
CNMG 1606..	16,1	6,35	6,35	15,87

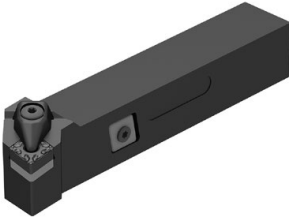


CNMG

Performance

SPECIAL OFFER

Buy 30 inserts and
get a 20, 25 or 32 mm
tool holder for only € 10



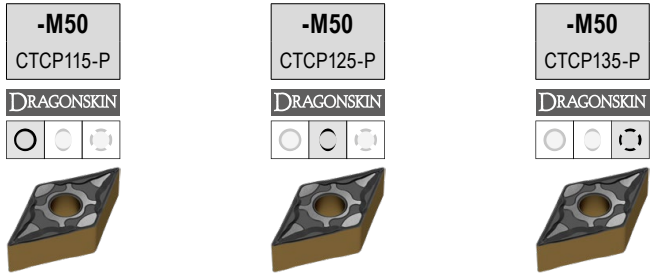
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		EUR	EUR		EUR	EUR		EUR	EUR	
120404EN	0,4				32801	15,92	9,60	52801	15,92	9,60
120408EN	0,8				33001	15,92	9,60	53001	15,92	9,60
120412EN	1,2				32001	15,92	9,60	53201	15,92	9,60
120416EN	1,6				33401	15,92	9,60	53401	15,92	9,60
160608EN	0,8				34201	24,26	15,60	54201	24,26	15,60
160612EN	1,2				34401	24,26	15,60	54401	24,26	15,60
160616EN	1,6				34601	24,26	15,60	54601	24,26	15,60
P				●			●			●
M										○
K				○			○			○
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DNMG

Performance

SPECIAL OFFER

Buy 30 inserts and
get a 20, 25 or 32 mm
tool holder for only € 10



ISO	RE mm	76 136 ... M PG 1A/08			76 136 ... M PG 1A/08			76 136 ... M PG 1A/08		
		EUR	EUR		EUR	EUR		EUR	EUR	
110404EN	0,4				30401	16,92	9,60	50401	16,92	9,60
110408EN	0,8				30601	16,92	9,60	50601	16,92	9,60
110412EN	1,2				30801	16,92	9,60	50801	16,92	9,60
150404EN	0,4				31601	19,41	12,00	51401	19,41	12,00
150408EN	0,8				31801	19,41	12,00	51801	19,41	12,00
150412EN	1,2				32001	19,41	12,00	51601	19,41	12,00
150416EN	1,6				32201	19,41	12,00	52201	19,41	12,00
150604EN	0,4				32801	21,93	13,20	52801	21,93	13,20
150608EN	0,8				33001	21,93	13,20	53001	21,93	13,20
150612EN	1,2				33201	21,93	13,20	53201	21,93	13,20
150616EN	1,6				33401	21,93	13,20	53401	21,93	13,20
P				●			●			●
M										○
K				○			○			○
N										
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WNMG

Performance

SPECIAL OFFER

Buy 30 inserts and
get a 20, 25 or 32 mm
tool holder for only € 10



ISO	RE mm	76 139 ... M PG 1A/08			76 139 ... M PG 1A/08			76 139 ... M PG 1A/08		
		EUR	EUR		EUR	EUR		EUR	EUR	
060404EN	0,4				30401	13,98	8,40	50401	13,98	8,40
060408EN	0,8				30601	13,98	8,40	50601	13,98	8,40
060412EN	1,2				30801	13,98	8,40	50801	13,98	8,40
080404EN	0,4				31601	16,47	10,80	51601	16,47	10,80
080408EN	0,8				31801	16,47	10,80	51801	16,47	10,80
080412EN	1,2				32001	16,47	10,80	52001	16,47	10,80
080416EN	1,6				32201	16,47	10,80	52201	16,47	10,80
P				●			●			●
M										○
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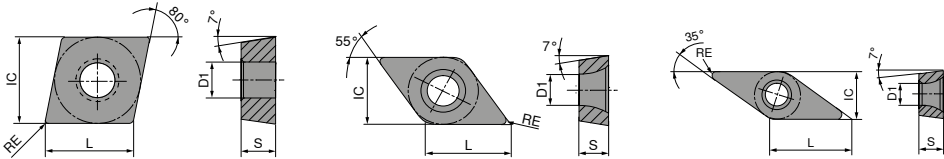
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guaranteed free express delivery

CCMT / DCMT / VCMT

Designation	L	S	D1	IC
	mm	mm	mm	mm
CCMT 0602..	6,40	2,38	2,8	6,35
DCMT 0702..	7,75	2,38	2,8	6,35
CCMT 09T3..	9,70	3,97	4,4	9,52
DCMT 11T3..	11,60	3,97	4,4	9,52
DCMT 0702..	11,60	3,97	4,4	9,52
CCMT 1204..	12,90	4,76	5,5	12,70
VCMT 1604..	16,60	4,76	4,4	9,52

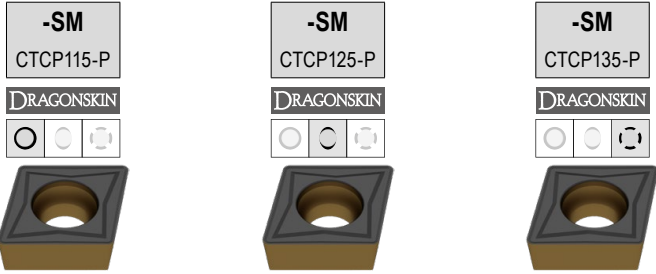


CCMT

SPECIAL OFFER

Buy 30 inserts and get a tool holder up to 20 mm for only € 10

Performance



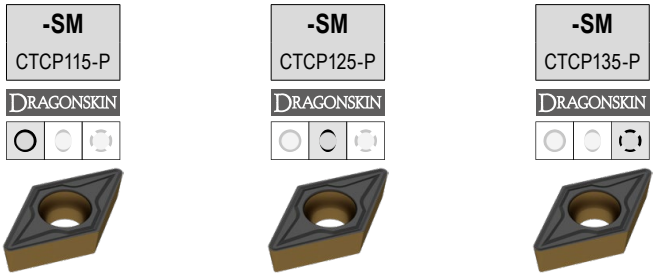
ISO	RE mm	M		M		M	
		76 252 ...	PG 1A/08	76 252 ...	PG 1A/08	76 252 ...	PG 1A/08
		EUR	EUR	EUR	EUR	EUR	EUR
060204EN	0,4	30401	10,23 6,00	50401	10,23 6,00	70401	10,23 6,00
060208EN	0,8	30601	10,23 6,00			70601	10,23 6,00
09T304EN	0,4	31601	12,76 8,40	51601	12,76 8,40	71601	12,76 8,40
09T308EN	0,8	31801	12,76 8,40	51801	12,76 8,40	71801	12,76 8,40
120404EN	0,4	32801	17,96 10,80	52801	17,96 10,80	72801	17,96 10,80
120408EN	0,8	33001	17,96 10,80	53001	17,96 10,80	73001	17,96 10,80
120412EN	1,2			53201	17,96 10,80		
P		●		●		●	
M							
K		○		○		○	
N							
S							
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O							

DCMT

SPECIAL OFFER

Buy 30 inserts and get a tool holder up to 20 mm for only € 10

Performance



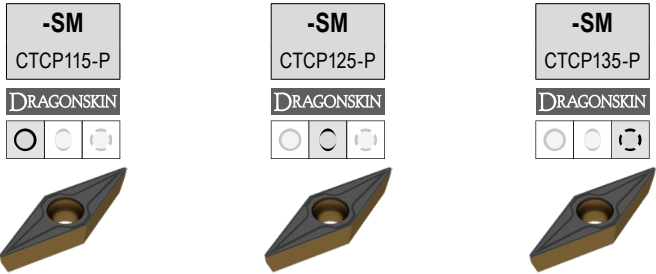
ISO	RE mm	M		M		M	
		76 258 ...	PG 1A/08	76 258 ...	PG 1A/08	76 258 ...	PG 1A/08
		EUR	EUR	EUR	EUR	EUR	EUR
070204EN	0,4	30401	10,23 6,00	50401	10,23 6,00	70401	10,23 6,00
070208EN	0,8	30601	10,23 6,00	50601	10,23 6,00	70601	10,23 6,00
11T304EN	0,4	31601	14,36 8,40	51601	14,36 8,40	71601	14,36 8,40
11T308EN	0,8	31801	14,36 8,40	51801	14,36 8,40	71801	14,36 8,40
11T312EN	1,2			52001	14,36 8,40		
P		●		●		●	
M							
K		○		○		○	
N							
S							
H							
O							

VCMT

SPECIAL OFFER

Buy 30 inserts and get a tool holder up to 20 mm for only € 10

Performance



ISO	RE mm	M		M		M	
		76 278 ...	PG 1A/08	76 278 ...	PG 1A/08	76 278 ...	PG 1A/08
		EUR	EUR	EUR	EUR	EUR	EUR
160404EN	0,4	32801	21,03 13,20	52801	21,03 13,20	72801	21,03 13,20
160406EN	0,6	32901	21,03 13,20				
160408EN	0,8	33001	21,03 13,20	53001	21,03 13,20	73001	21,03 13,20
160412EN	1,2	33201	21,03 13,20	53201	21,03 13,20	73201	21,03 13,20
P		●		●		●	
M							
K		○		○		○	
N							
S							
H							
O							



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**STAINLESS STEEL
MACHINING
MADE EASY**

Always the right solution for machining austenitic, stainless steels. In addition to the established CTPM125, two new grades now round off our product range: the more wear-resistant CTCM120 and the tougher CTCM130. Thanks to the Dragonskin coating, both grades are high performers and process-secure.

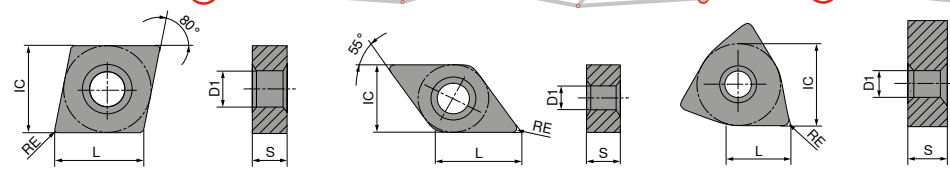


- ▲ Wear-resistant grade for austenitic steels
- ▲ High cutting speeds
- ▲ For a smooth cut



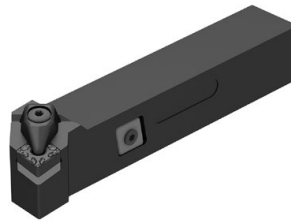
- ▲ Tough carbide grade for interrupted cuts
- ▲ Guaranteed process security
- ▲ For lower cutting speeds and unstable conditions

Designation	L	S	D1	IC
	mm	mm	mm	mm
WNMG 0604..	6,5	4,76	3,81	9,52
WNMG 0804..	8,6	4,76	5,16	12,70
DNMG 1104..	11,6	4,76	3,81	9,52
CNMG 1204..	12,9	4,76	5,16	12,70
DNMG 1506..	15,5	6,35	5,16	12,70



Performance

Buy 30 inserts and
get a 20, 25 or 32 mm
tool holder **for only € 10**



Category	Color	P (Proportion)
M	Yellow	0.5
K	Pink	0.5
N	Green	0.5
S	Orange	0.5
H	Light Blue	0.0
O	Grey	0.0

-M30
CTCM120

DRAGONSKIN

-M30000
CTCM130

DRAGONSKIN

M		M30000	
75 011 ...	PG 1A/08	75 011 ...	PG 1A/08
EUR	EUR	EUR	EUR
13000	<u>15.02</u> 9.60	33000	<u>15.02</u> 9.60
13200	<u>15.02</u> 9.60	33200	<u>15.02</u> 9.60
13400	<u>15.02</u> 9.60	33400	<u>15.02</u> 9.60

Performance

Buy 30 inserts and
get a 20, 25 or 32 mm
tool holder **for only € 10**

[illegible]

DRAGONSKIN

DRAGONSKIN

M

75 014 ...

PG 1A/08

EUR

EUR

10600

~~16.92~~

9,60

10800

~~16.92~~

9,60

13000

~~24.03~~

13,20

13200

~~24.03~~

13,20

M

75 014 ...

PG 1A/08

EUR

EUR

30600

~~16.92~~

9,60

30800

~~16.92~~

9,60

33000

~~24.03~~

13,20

33200

~~24.03~~

13,20

Performance

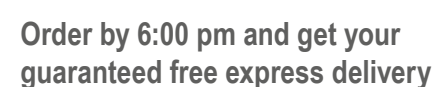
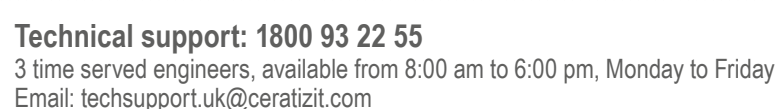
Buy 30 inserts and
get a 20, 25 or 32 mm
tool holder **for only € 10**



Category	Sample Count (approx.)	Marker Type
P	800	Open Circle
P	950	Open Circle
M	800	Solid Black Circle
M	950	Solid Black Circle
K	800	Solid Black Circle
N	950	Open Circle
S	950	Open Circle
H	-	-

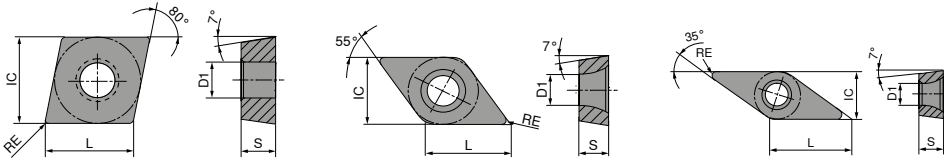
	M	
	75 025 ...	PG 1A/08
	EUR	EUR
10600	13.08	8.40
10800	13.08	8.40
11800	16.47	10.80
12000	16.47	10.80

	M	
	75 025 ...	PG 1A/08
	EUR	EUR
30600	13.08	8.40
30800	13.08	8.40
31800	16.47	10.80
32000	16.47	10.80



CCMT / DCMT / VCMT

Designation	L	S	D1	IC
	mm	mm	mm	mm
CCMT 0602..	6,40	2,38	2,8	6,35
DCMT 0702..	7,75	2,38	2,8	6,35
CCMT 09T3..	9,70	3,97	4,4	9,52
DCMT 11T3..	11,60	3,97	4,4	9,52
VCMT 1604..	16,60	4,76	4,4	9,52



CCMT

Performance

SPECIAL OFFER

Buy 30 inserts and get a tool holder up to 20 mm for only € 10



-M25 CTCM120			-M25 CTCM130		
DRAGONSKIN			DRAGONSKIN		
F			F		
75 210 ...	PG 1A/08		75 210 ...	PG 1A/08	
	EUR	EUR		EUR	EUR
10400	10,23	6,00	30400	10,23	6,00
11600	12,76	8,40	31600	12,76	8,40
11800	12,76	8,40	31800	12,76	8,40

ISO	RE
	mm
060204EN	0,4
09T304EN	0,4
09T308EN	0,8

P		
M		
K		
N		
S		
H		
O		

DCMT

Performance

SPECIAL OFFER

Buy 30 inserts and get a tool holder up to 20 mm for only € 10



-M25 CTCM120			-M25 CTCM130		
DRAGONSKIN			DRAGONSKIN		
F			F		
75 213 ...	PG 1A/08		75 213 ...	PG 1A/08	
	EUR	EUR		EUR	EUR
10200	10,23	6,00	30200	10,23	6,00
10400	10,23	6,00	30400	10,23	6,00
11400	14,36	8,40	31400	14,36	8,40
11600	14,36	8,40	31600	14,36	8,40
11800	14,36	8,40	31800	14,36	8,40

ISO	RE
	mm
070202EN	0,2
070204EN	0,4
11T302EN	0,2
11T304EN	0,4
11T308EN	0,8

P		
M		
K		
N		
S		
H		
O		

VCMT

Performance

SPECIAL OFFER

Buy 30 inserts and get a tool holder up to 20 mm for only € 10



-M25 CTCM120			-M25 CTCM130		
DRAGONSKIN			DRAGONSKIN		
F			F		
75 219 ...	PG 1A/08		75 219 ...	PG 1A/08	
	EUR	EUR		EUR	EUR
12800	21,03	13,20	32800	21,03	13,20
13000	21,03	13,20	33000	21,03	13,20

ISO	RE
	mm
160404EN	0,4
160408EN	0,8

P		
M		
K		
N		
S		
H		
O		



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X7-Line

HRSA and Ti
machining
made easy

Grade description

CTP **X7** 10/15

Degree of
hardness

10 ISO 10

15 ISO 15

...

Main application – material

P Steel
M Stainless steel
K Cast iron
N Light and non ferrous metals
S Super alloys, titanium
H Hard materials

X Universal application

Application

1 Turning
2 Milling
3 Grooving
4 Drilling
5 Thread turning
6 Others
7 Multiple procedures*

Universal application range

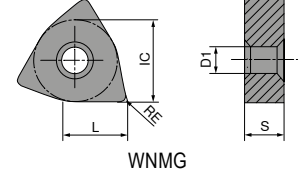
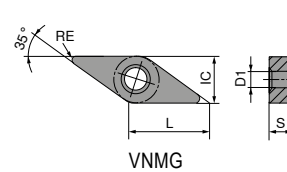
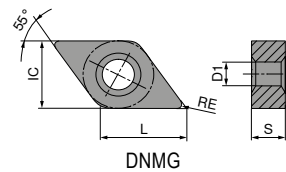
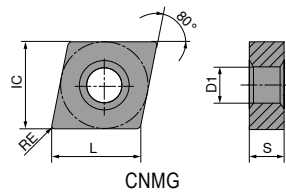
P M K N S

*In future multiple
procedures possible
turning | grooving | milling

 Further information on the product can be found in our
main catalogue → **Chapter 9, Turning tools**

CNMG / VNMG / DNMG / WNMG

Designation	L mm	S mm	D1 mm	IC mm
WNMG 0804..	8,6	4,76	5,16	12,70
CNMG 1204..	12,9	4,76	5,16	12,70
DNMG 1504..	15,5	4,76	5,16	12,70
DNMG 1506..	15,5	6,35	5,16	12,70
VNMG 1604..	16,6	4,76	3,81	9,52



CNMG

Performance



ISO	RE mm	75 003 ...	PG 1A/08
120404EN	0,4	62800	EUR 8,40
120408EN	0,8	63000	EUR 8,40
120412EN	1,2	63200	EUR 8,40
120416EN	1,6	63400	EUR 8,40
P		•	
M		•	
K		•	
N		○	
S		•	
H			
O			

VNMG

Performance



ISO	RE mm	75 009 ...	PG 1A/08
160404EN	0,4	61600	EUR 16,80
160408EN	0,8	61800	EUR 16,80
160412EN	1,2	62000	EUR 16,80
P		•	
M		•	
K		•	
N		○	
S		•	
H			
O			

DNMG

Performance



ISO	RE mm	75 004 ...	PG 1A/08
150404EN	0,4	61600	EUR 13,20
150408EN	0,8	61800	EUR 13,20
150412EN	1,2	62000	EUR 13,20
150608EN	0,8	63000	EUR 14,40
150612EN	1,2	63200	EUR 14,40
P		•	
M		•	
K		•	
N		○	
S		•	
H			
O			

WNMG

Performance



ISO	RE mm	75 008 ...	PG 1A/08
080408EN	0,8	61800	EUR 10,80
080412EN	1,2	62000	EUR 10,80
P		•	
M		•	
K		•	
N		○	
S		•	
H			
O			



Technical support: 1800 93 22 55

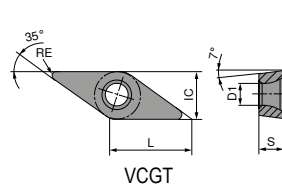
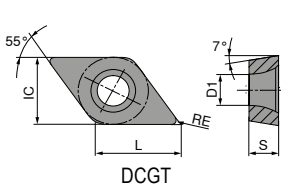
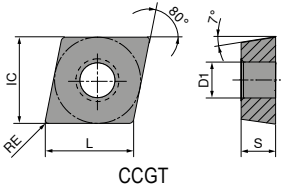
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CCGT / DCGT / VCGT

Designation	L	S	D1	IC
	mm	mm	mm	mm
CCGT 0602..	6,40	2,38	2,8	6,35
DCGT 0702..	7,75	2,38	2,8	6,35
CCGT 09T3..	9,70	3,97	4,4	9,52
VCGT 1103..	11,10	3,18	2,9	6,35
DCGT 11T3..	11,60	3,97	4,4	9,52
CCGT 1204..	12,90	4,76	5,5	12,70
VCGT 1604..	16,60	4,76	4,4	9,52
VCGT 2205..	22,10	5,56	5,5	12,70



CCGT

Performance

ISO	RE mm	M	
		70 248 ...	PG 1A/90
			EUR EUR
060202FN	0,2	70200	17,86 10,80
060204FN	0,4	70400	17,86 10,80
09T302FN	0,2	71400	17,86 10,80
09T304FN	0,4	71600	17,86 10,80
09T308FN	0,8	71800	17,86 10,80
120404FN	0,4	72800	22,34 14,40
120408FN	0,8	73000	22,34 14,40
P		•	
M		•	
K		•	
N		•	
S		•	
H			
O			

VCGT

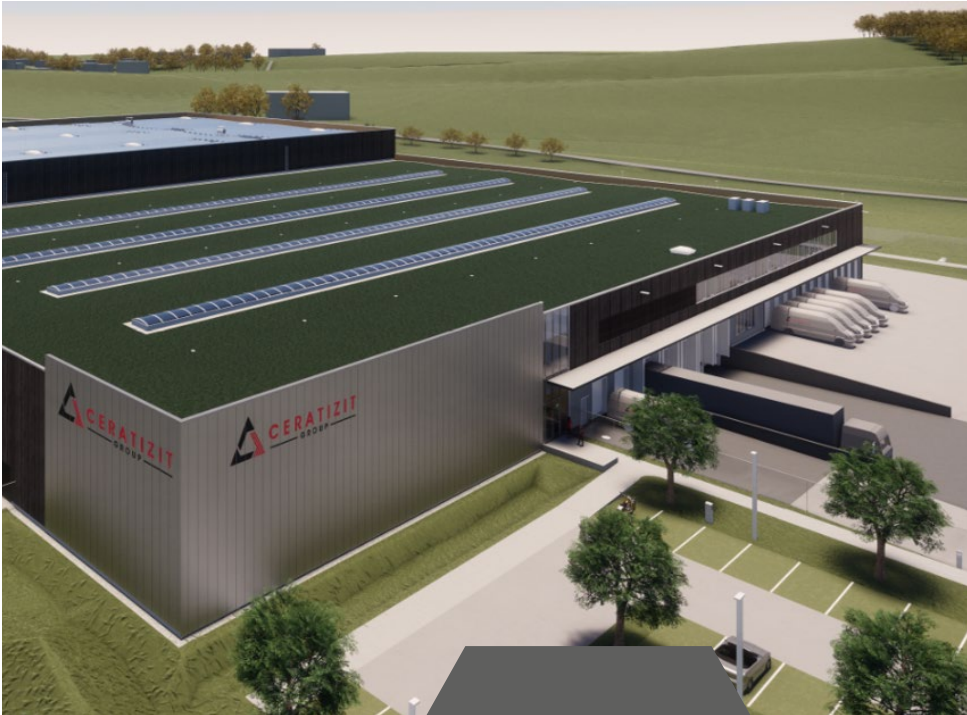
Performance

ISO	RE mm	M	
		70 282 ...	PG 1A/90
			EUR EUR
110302FN	0,2	71400	22,89 14,40
110304FN	0,4	71600	22,89 14,40
160404FN	0,4	72800	28,23 18,00
160408FN	0,8	73000	28,23 18,00
160412FN	1,2	73200	28,23 18,00
220530FN	3,0	75000	37,63 24,00
P		•	
M		•	
K			
N		•	
S		•	
H			
O			

DCGT

Performance

ISO	RE mm	M	
		70 263 ...	PG 1A/90
			EUR EUR
070202FN	0,2	70200	15,45 9,60
070204FN	0,4	70400	15,45 9,60
11T302FN	0,2	71400	18,68 12,00
11T304FN	0,4	71600	18,68 12,00
11T308FN	0,8	71800	18,68 12,00
P		•	
M		•	
K		•	
N		•	
S		•	
H			
O			

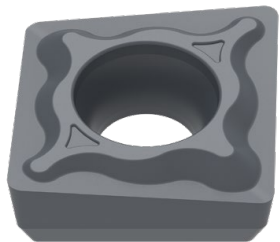


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ECOCUT



CTPP430 – universal grade for all materials.

The Original Multi Function Tool

The trend in machining is unmistakable: Workpieces are becoming increasingly complex and technically challenging. Production often requires a variety of tools, which can not be economically accommodated with the existing turret locations. The answer to this challenge from CERATIZIT is the multi-function tool EcoCut.



=

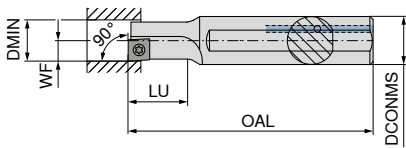
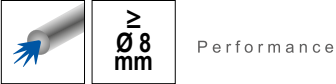


EcoCut – Classic 1.5xD

▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



Illustrations show right-hand versions

ISO designation	DMIN	DCONMS	OAL	LU	WF	torque moment	Insert
	mm	mm	mm	mm	mm	Nm	
ECC 10 R/L 1,5D 05	10	12	90	15,0	5,0	0,7	XC.T 0502..
ECC 12 R/L 1,5D 06	12	16	100	18,0	6,0	1,0	XC.T 0602..
ECC 14 R/L 1,5D 07	14	16	110	21,0	7,0	1,2	XC.T 0703..
ECC 16 R/L 1,5D 08	16	20	125	24,0	8,0	2,2	XC.T 0803..
ECC 18 R/L 1,5D 09	18	25	135	27,0	9,0	2,2	XC.T 09T3..
ECC 20 R/L 1,5D 10	20	25	150	30,0	10,0	3,2	XC.T 10T3..
ECC 25 R/L 1,5D 13	25	32	180	37,5	12,5	5,0	XC.T 1304..
ECC 32 R/L 1,5D 17	32	40	200	48,0	16,0	5,0	XC.T 1705..



Steel
Left-hand



Steel
Right-hand

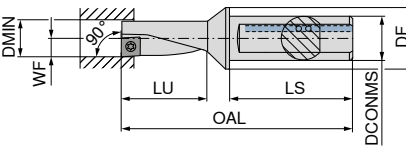
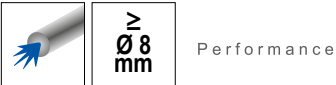
70 805 ...		PG 2B/20	70 804 ...		PG 2B/20
	EUR	EUR		EUR	EUR
010	205,20	33,60	010	205,20	33,60
012	209,50	34,80	012	209,50	34,80
014	213,50	36,00	014	213,50	36,00
016	216,90	36,00	016	216,90	36,00
018	250,10	42,00	018	250,10	42,00
020	281,90	46,80	020	281,90	46,80
025	325,20	54,00	025	325,20	54,00
032	368,60	61,20	032	368,60	61,20

EcoCut – Classic 2.25xD

▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



Illustrations show right-hand versions

ISO designation	DMIN	DCONMS	OAL	LU	LS	WF	torque moment	Insert
	mm	mm	mm	mm	mm	mm	Nm	
ECC 10 R/L 2,25D 05	10	12	69,5	22,5	42	5,0	0,7	XC.T 0502..
ECC 12 R/L 2,25D 06	12	16	78,0	27,0	45	6,0	1,0	XC.T 0602..
ECC 14 R/L 2,25D 07	14	16	83,5	31,5	45	7,0	1,2	XC.T 0703..
ECC 16 R/L 2,25D 08	16	20	94,0	36,0	50	8,0	2,2	XC.T 0803..
ECC 18 R/L 2,25D 09	18	25	109,5	40,5	56	9,0	2,2	XC.T 09T3..
ECC 20 R/L 2,25D 10	20	25	111,0	45,0	56	10,0	3,2	XC.T 10T3..
ECC 25 R/L 2,25D 13	25	32	129,0	56,5	60	12,5	5,0	XC.T 1304..
ECC 32 R/L 2,25D 17	32	40	158,0	72,0	70	16,0	5,0	XC.T 1705..



Steel
Left-hand

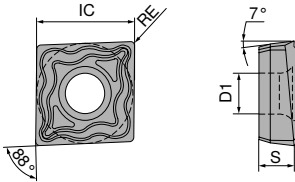


Steel
Right-hand

70 805 ...		PG 2B/20	70 804 ...		PG 2B/20
	EUR	EUR		EUR	EUR
110	305,10	50,40	110	305,10	50,40
112	313,60	52,80	112	313,60	52,80
114	320,40	54,00	114	320,40	54,00
116	327,10	55,20	116	327,10	55,20
118	360,40	60,00	118	360,40	60,00
120	392,20	66,00	120	392,20	66,00
125	455,40	76,80	125	455,40	76,80
132	512,00	86,40	132	512,00	86,40

XCNT

Performance



ISO designation	RE	S	D1	IC
XCNT 050202EN	0,2	2,1	2,25	5,8
XCNT 050204EN	0,4	2,1	2,25	5,8
XCNT 060202EN	0,2	2,38	2,50	6,5
XCNT 060204EN	0,4	2,38	2,50	6,5
XCNT 070304EN	0,4	3,18	2,80	7,6
XCNT 080304EN	0,4	3,18	3,40	8,5
XCNT 09T304EN	0,4	3,97	3,40	9,6
XCNT 10T304EN	0,4	3,97	4,40	10,6
XCNT 10T308EN	0,8	3,97	4,40	10,6
XCNT 130404EN	0,4	4,76	5,30	13,5
XCNT 130408EN	0,8	4,76	5,30	13,5
XCNT 170508EN	0,8	5,56	5,30	17,5



XCNT

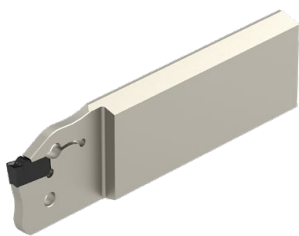
70 386 ...		PG 1D/19
	EUR	EUR
923	20,34	13,20
903	20,34	13,20
924	20,34	13,20
904	20,34	13,20
905	20,34	13,20
906	20,66	13,20
907	20,96	14,40
908	22,01	14,40
938	22,01	14,40
910	25,17	16,80
940	25,17	16,80
912	26,54	18,00

P	●
M	●
K	○
N	○
S	○
H	○
O	○





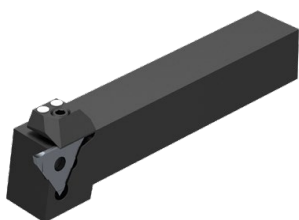
GROOVING TOOLS



SX System – first choice system for parting off.



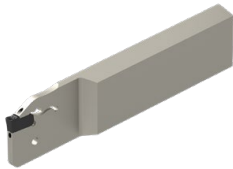
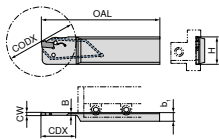
M1 – first choice chipbreaker for parting off.



TX System – first choice grooving system for all materials and applications.

MonoClamp – Radial Blade SX-DC reinforced

Performance

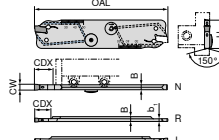


Illustrations show right-hand versions

ISO designation	R/L/N	CW mm	H mm	B mm	OAL mm	b ₁ mm	CDX mm	for grooving inserts	70 879 ...	PG 2A/25
XLCL L 2608-DC-SX3	L	3	26	2,5	110	8	33	SX .3..	713	EUR 199,99 32,40
XLCL R 2608-DC-SX3	R	3	26	2,5	110	8	33	SX .3..	513	EUR 199,99 32,40
XLCL L 3208-DC-SX3	L	3	32	2,5	110	8	33	SX .3..	703	EUR 296,99 34,80
XLCL R 3208-DC-SX3	R	3	32	2,5	110	8	33	SX .3..	503	EUR 296,99 34,80

MonoClamp – Radial Blade SX-DC Standard

Performance

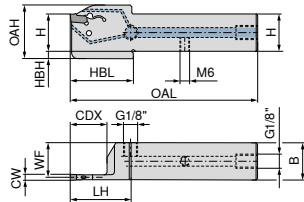


Non-Thro' coolant version also available

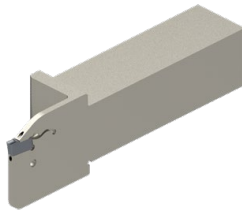
ISO designation	R/L/N	CW mm	H mm	B mm	b ₁ mm	OAL mm	CDX mm	for grooving inserts	70 884 ...	PG 2A/25
XLCL L 2602-DC-SX2	L	2	26	2,4	1,6	110	25	SX .2..	712	EUR 199,99 32,40
XLCL R 2602-DC-SX2	R	2	26	2,4	1,6	110	25	SX .2..	512	EUR 199,99 32,40
XLCL N 2603-DC-SX3	N	3	26	2,5		110	35	SX .3..	613	EUR 199,99 32,40
XLCL N 2604-DC-SX4	N	4	26	3,3		110	40	SX .4..	614	EUR 199,99 32,40
XLCL L 3202-DC-SX2	L	2	32	2,4	1,6	150	26	SX .2..	702	EUR 296,99 34,80
XLCL R 3202-DC-SX2	R	2	32	2,4	1,6	150	26	SX .2..	502	EUR 296,99 34,80
XLCL N 3203-DC-SX3	N	3	32	2,5		150	50	SX .3..	603	EUR 296,99 34,80
XLCL N 3204-DC-SX4	N	4	32	3,3		150	50	SX .4..	604	EUR 296,99 34,80
XLCL N 3205-DC-SX5	N	5	32	4,3		150	55	SX .5..	605	EUR 296,99 34,80
XLCL N 3206-DC-SX6	N	6	32	5,2		150	60	SX .6..	606	EUR 296,99 34,80

MonoClamp – Radial Monoholder SX-DC

Performance



Illustrations show right-hand versions



ISO designation	H mm	B mm	CW mm	WF mm	OAL mm	LH mm	HBL mm	OAH mm	CDX mm	HBH mm	for grooving inserts	Left-hand 70 847 ...	PG 2C/71	Right-hand 70 847 ...	PG 2C/71
E12 R/L 0022-1212X-K-DC-SX2	12	12	2	11,20	71	27	28	27	22	5	SX .2..	21201	EUR 184,80 31,20	21200	EUR 184,80 31,20
E16 R/L 0026-1616X-K-DC-SX2	16	16	2	15,20	87	32	33	30	26	4	SX .2..	21601	EUR 195,20 33,60	21600	EUR 195,20 33,60
E16 R/L 0026-1616X-K-DC-SX3	16	16	3	14,75	87	32	33	30	26	4	SX .3..	31601	EUR 195,20 33,60	31600	EUR 195,20 33,60
E20 R/L 0026-2020X-K-DC-SX2	20	20	2	19,20	102	32	33	36	26	5	SX .2..	22001	EUR 221,30 37,20	22000	EUR 221,30 37,20
E20 R/L 0026-2020X-K-DC-SX3	20	20	3	18,75	102	32	33	36	26	5	SX .3..	32001	EUR 221,30 37,20	32000	EUR 221,30 37,20
E20 R/L 0033-2020X-K-DC-SX4	20	20	4	18,30	109	39	40	37	33	5	SX .4..	42001	EUR 221,30 37,20	42000	EUR 221,30 37,20
E25 R/L 0033-2525X-K-DC-SX2	25	25	2	24,20	126	41	42	41	33	5	SX .2..	22501	EUR 238,20 40,80	22500	EUR 238,20 40,80
E25 R/L 0026-2525X-K-DC-SX3	25	25	3	23,75	117	33		31	26		SX .3..	32501	EUR 238,20 40,80	32500	EUR 238,20 40,80
E25 R/L 0033-2525X-K-DC-SX3	25	25	3	23,75	126	41	42	41	33	5	SX .3..	32601	EUR 238,20 40,80	32600	EUR 238,20 40,80
E25 R/L 0033-2525X-K-DC-SX4	25	25	4	23,30	126	41	42	41	33	5	SX .4..	42501	EUR 238,20 40,80	42500	EUR 238,20 40,80
E25 R/L 0040-2525X-K-DC-SX4	25	25	4	23,30	133	48	49	44	40	6	SX .4..	42601	EUR 238,20 40,80	42600	EUR 238,20 40,80
E25 R/L 0040-2525X-K-DC-SX5	25	25	5	22,85	133	48	49	44	40	6	SX .5..	52501	EUR 238,20 40,80	52500	EUR 238,20 40,80
E25 R/L 0040-2525X-K-DC-SX6	25	25	6	22,35	133	48	49	44	40	6	SX .6..	62501	EUR 238,20 40,80	62500	EUR 238,20 40,80

Spare parts
for grooving inserts

SX .2..	30,00	836
SX .3..	30,00	836
SX .4..	30,00	837
SX .5..	30,00	837
SX .6..	30,00	837



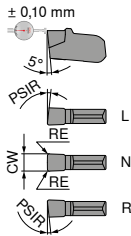
Ejector SX

Insert SX

▲ Specially developed geometry with negative edge-chamfers available in right, left and neutral types



Performance



-M1
CTP1340

DRAGONSKIN



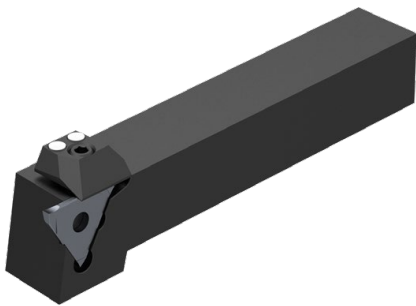
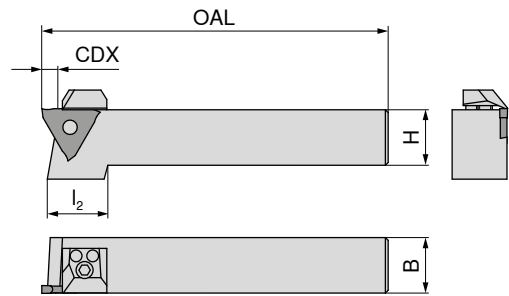
Designation	IH	CW +/-0,05 mm	70 342 ...	PG 1C/72
SX E2.00 L 6	L	2	612	EUR 45,87 10,80
SX E3.00 L 6	L	3	613	EUR 46,89 10,80
SX E4.00 L 6	L	4	614	EUR 47,89 12,00
SX E2.00 N 0.20	N	2	622	EUR 45,87 10,80
SX E3.00 N 0.20	N	3	623	EUR 46,89 12,00
SX E4.00 N 0.30	N	4	624	EUR 47,89 12,00
SX E2.00 R 6	R	2	602	EUR 45,87 10,80
SX E3.00 R 6	R	3	603	EUR 46,89 10,80
SX E4.00 R 6	R	4	604	EUR 47,89 12,00
P				●
M				●
K				●
N				○
S				●
H				
O				○



MonoClamp – Radial/Axial TX Grooving Holder 0° 6 mm cutting depth

- ▲ For radial and axial grooving
- ▲ Cutting width 0.5–6.3 mm

Performance



Illustrations show right-hand versions

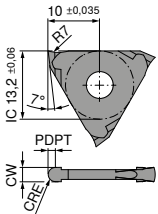
ISO designation	H mm	B $\pm 0,1$ mm	OAL mm	I ₂ mm	CDX mm	for grooving inserts
R 207.1212.1	12	12	100	24	4	TX R/N/L ...1
R 207.1616.1	16	16	125	22	4	TX R/N/L ...1
R 207.2020.1	20	20	125	21	4	TX R/N/L ...1
R 207.2525.1	25	25	150		4	TX R/N/L ...1
R 207.1212.2	12	12	100	24	6	TX R/N/L ...2
R 207.1616.2	16	16	125	22	6	TX R/N/L ...2
R 207.2020.2	20	20	125	21	6	TX R/N/L ...2
R 207.2525.2	25	25	150		6	TX R/N/L ...2
R 207.1212.3	12	12	100	24	6	TX R/N/L ...3
R 207.1616.3	16	16	125	22	6	TX R/N/L ...3
R 207.2020.3	20	20	125	21	6	TX R/N/L ...3
R 207.2525.3	25	25	150		6	TX R/N/L ...3
R 207.3232.3	32	32	170		6	TX R/N/L ...3

Right-hand		
73 500 ...	PG	Y6
	EUR	EUR
112	132,50	45,60
116	118,20	40,80
120	91,62	31,20
125	96,14	33,60
212	132,50	45,60
216	118,20	40,80
220	91,62	31,20
225	96,14	33,60
312	132,50	45,60
316	118,20	40,80
320	91,62	31,20
325	96,14	33,60
332	112,20	38,40

Radial TX insert for corner recessing

- ▲ Full radius for cutting width 0.5–5.0 mm

Performance



CWX500



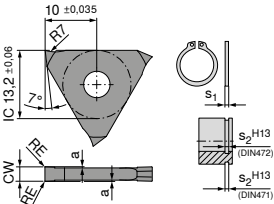
Neutral

Designation	CRE mm	CW $\pm 0,05$ mm	PDPT mm
TX N 0010.20.2	1,0	2	0,7
TX N 0015.30.3	1,5	3	1,0

TX insert for circlip grooves

- ▲ For circlip grooves according to DIN 471 / 472

Performance



CWX500



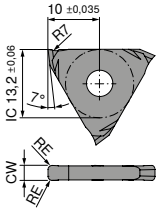
Neutral

Designation	CW $\pm 0,05$ mm	a $\pm 0,02$ mm
TX N 0050.00.1	0,57	0,07
TX N 0060.00.1	0,67	0,07
TX N 0070.00.1	0,77	0,08
TX N 0080.00.1	0,87	0,08
TX N 0090.00.1	0,97	0,08
TX N 0100.00.1	1,07	0,09
TX N 0110.00.1	1,24	0,15
TX N 0130.00.1	1,44	0,15
TX N 0160.00.1	1,74	0,20
TX N 0185.00.1	1,99	0,20
TX N 0215.00.2	2,29	0,20
TX N 0265.00.2	2,79	0,20
TX N 0315.00.3	3,29	0,20

73 300 ...	PG	Y6
	EUR	EUR
204	22,02	20,40
206	22,02	20,40
208	22,02	20,40
210	22,02	20,40
212	22,02	20,40
214	22,02	20,40
216	22,02	20,40
218	22,02	20,40
220	22,02	20,40
222	22,02	20,40
224	22,02	20,40
226	22,02	20,40
228	23,46	21,60

TX insert for fine and copy turning

Performance



CWX500



Neutral

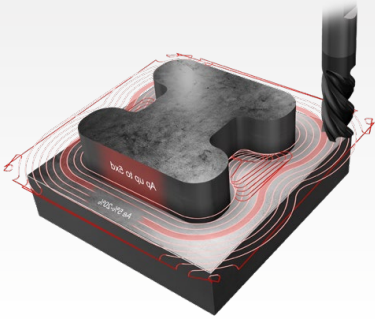
Designation	CW $\pm 0,03$ mm
TX N 0150.02.1	1,5
TX N 0200.02.1	2,0
TX N 0200.04.1	2,0
TX N 0300.06.2	3,0
TX N 0300.02.2	3,0
TX N 0300.08.2	3,0
TX N 0400.08.3	4,0
TX N 0400.02.3	4,0
TX N 0400.12.3	4,0

73 303 ...	PG	Y6
	EUR	EUR
204	27,27	25,20
206	27,27	25,20
208	27,27	25,20
212	28,69	27,60
210	28,69	27,60
214	28,69	27,60
218	28,98	27,60
216	28,98	27,60
220	28,98	27,60

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MINIATURE TURNING TOOLS



Ultra mini system – for micro diameter internal features from 2 mm up to 8 mm.



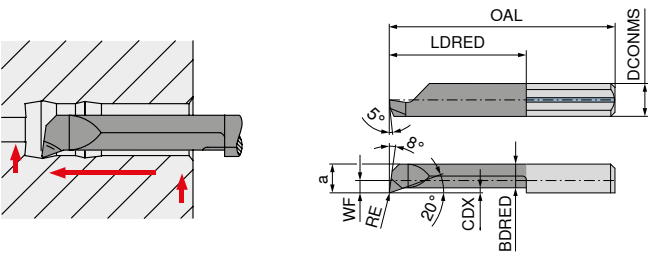
MiniCut system – for small diameter internal features from 8 mm onwards.

UltraMini – Inserts for internal turning and profiling

▲ CDX = Maximum depth of cut when turning outwards



Performance



ISO designation	DCONMS _{h6}	WF	DMIN	a	OAL	LDRED	CDX	BDRED	RE
	mm	mm	mm	mm	mm	mm	mm	mm	mm
R 050.2-5	4		2,0	1,7	19	5	0,1	1,5	0,05
R 050.2-10	4		2,0	1,7	24	10	0,1	1,5	0,05
R 050.2-15	4		2,0	1,7	29	15	0,1	1,5	0,05
R 050.3-10	4	0,6	2,8	2,6	24	10	0,2	2,3	0,10
R 050.3-16	4	0,6	2,8	2,6	30	16	0,2	2,3	0,10
R 050.3-20	4	0,6	2,8	2,6	34	20	0,2	2,3	0,10
R 050.4-10	4	1,5	4,0	3,5	24	10	0,3	3,0	0,10
R 050.4-16	4	1,5	4,0	3,5	30	16	0,3	3,0	0,10
R 050.4-20	4	1,5	4,0	3,5	34	20	0,3	3,0	0,10
R 050.4-24	4	1,5	4,0	3,5	38	24	0,3	3,0	0,10
R 050.4-28	4	1,5	4,0	3,5	42	28	0,3	3,0	0,10
R 050.5-10	5	1,9	5,0	4,4	25	10	0,5	3,8	0,15
R 050.5-15	5	1,9	5,0	4,4	30	15	0,5	3,8	0,15
R 050.5-20	5	1,9	5,0	4,4	35	20	0,5	3,8	0,15
R 050.5-25	5	1,9	5,0	4,4	40	25	0,5	3,8	0,15
R 050.5-30	5	1,9	5,0	4,4	45	30	0,5	3,8	0,15
R 050.5-35	5	1,9	5,0	4,4	50	35	0,5	3,8	0,15
R 050.6-15	6	2,3	6,0	5,3	30	15	0,5	4,5	0,15
R 050.6-22	6	2,3	6,0	5,3	37	22	0,5	4,5	0,15
R 050.6-25	6	2,3	6,0	5,3	40	25	0,5	4,5	0,15
R 050.6-30	6	2,3	6,0	5,3	45	30	0,5	4,5	0,15
R 050.6-35	6	2,3	6,0	5,3	50	35	0,5	4,5	0,15
R 050.6-42	6	2,3	6,0	5,3	57	42	0,5	4,5	0,15
R 050.7-20	7	2,8	6,8	6,3	35	20	0,6	5,5	0,15
R 050.7-25	7	2,8	6,8	6,3	40	25	0,6	5,5	0,15
R 050.7-30	7	2,8	6,8	6,3	45	30	0,6	5,5	0,15
R 050.7-35	7	2,8	7,0	6,3	50	35	0,6	5,5	0,15
R 050.7-40	7	2,8	7,0	6,3	55	40	0,6	5,5	0,15
R 050.7-45	7	2,8	7,0	6,3	60	45	0,6	5,5	0,15
R 050.7-50	7	2,8	7,0	6,3	65	50	0,6	5,5	0,15

P	●
M	●
K	●
N	●
S	○
H	○
O	●

TiN



Right-hand

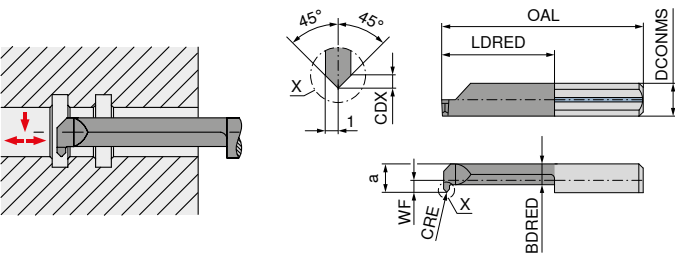
73 004 ...			PG	Y5
EUR			EUR	
520	33,95		32,40	
521	34,65		33,60	
522	36,65		33,60	
531	36,53		33,60	
530	37,03		33,60	
532	39,03		37,20	
541	36,81		34,80	
540	37,31		34,80	
542	39,31		36,00	
545	42,59		38,40	
546	47,32		45,60	
551	34,53		31,20	
552	37,52		34,80	
550	38,58		36,00	
553	43,81		39,60	
554	47,32		45,60	
556	51,58		46,80	
561	37,95		36,00	
560	39,59		36,00	
562	43,79		40,80	
563	48,02		44,40	
564	51,58		46,80	
565	57,56		52,80	
572	39,66		36,00	
573	49,74		45,60	
574	59,59		45,60	
575	62,41		48,00	
576	68,27		52,80	
577	61,81		56,40	
578	66,63		60,00	

UltraMini – Inserts for internal turning and chamfering

▲ CDX = Maximum depth of cut when turning outwards



Performance



ISO designation	DCONMS _{h6}	WF	DMIN	a	OAL	LDRED	CDX	BDRED	CRE
	mm	mm	mm	mm	mm	mm	mm	mm	mm
R 060.5-15	5	1,9	5,0	4,4	30	15	0,7	3,3	0,2
R 060.5-20	5	1,9	5,0	4,4	35	20	0,7	3,3	0,2
R 060.7-20	7	2,7	6,8	6,3	35	20	0,7	3,8	0,2

P	●
M	●
K	●
N	●
S	○
H	○
O	●

TiN



Right-hand

73 006 ...			PG	Y5
EUR			EUR	
551	34,65		33,60	
550	36,65		33,60	
570	40,64		37,20	



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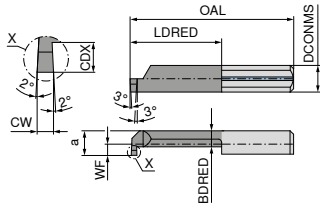
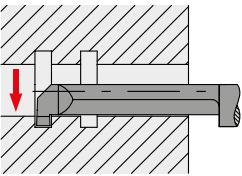


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UltraMini – Inserts for Internal Grooving



Performance



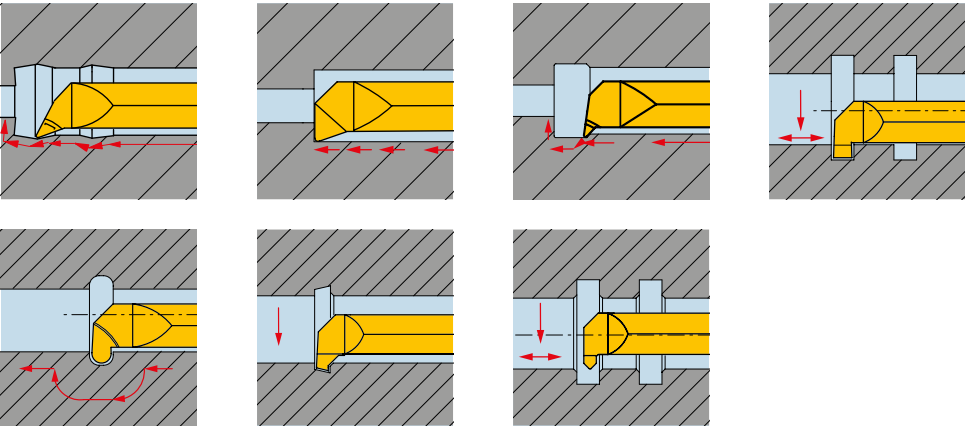
Right-hand

ISO designation	DCONMS _{g6}	WF	DMIN	a	OAL	LDRED	CDX	BDRED	CW
R 004.0100-10	4	1,5	4,0	3,5	24	10	0,8	2,4	1,0
R 004.0100-16	4	1,5	4,0	3,5	30	16	0,8	2,4	1,0
R 004.0100-20	4	1,5	4,0	3,5	34	20	0,8	2,4	1,0
R 005.0100-10	5	1,9	5,0	4,4	25	10	1,0	3,3	1,0
R 005.0150-10	5	1,9	5,0	4,4	25	10	1,0	3,3	1,5
R 005.0200-10	5	1,9	5,0	4,4	25	10	1,0	3,3	2,0
R 005.0100-15	5	1,9	5,0	4,4	30	15	1,0	3,3	1,0
R 005.0150-15	5	1,9	5,0	4,4	30	15	1,0	3,3	1,5
R 005.0200-15	5	1,9	5,0	4,4	30	15	1,0	3,3	2,0
R 005.0100-20	5	1,9	5,0	4,4	35	20	1,0	3,3	1,0
R 005.0150-20	5	1,9	5,0	4,4	35	20	1,0	3,3	1,5
R 005.0200-20	5	1,9	5,0	4,4	35	20	1,0	3,3	2,0
R 005.0100-25	5	1,9	5,0	4,4	40	25	1,0	3,3	1,0
R 005.0150-25	5	1,9	5,0	4,4	40	25	1,0	3,3	1,5
R 005.0200-25	5	1,9	5,0	4,4	40	25	1,0	3,3	2,0
R 005.0100-30	5	1,9	5,0	4,4	45	30	1,0	3,3	1,0
R 005.0150-30	5	1,9	5,0	4,4	45	30	1,0	3,3	1,5
R 005.0200-30	5	1,9	5,0	4,4	45	30	1,0	3,3	2,0
R 005.0100-35	5	1,9	5,0	4,4	50	35	1,0	3,3	1,0
R 006.0100-10	6	2,3	6,0	5,3	25	10	1,8	3,4	1,0
R 006.0150-10	6	2,3	6,0	5,3	25	10	1,8	3,4	1,5
R 006.0200-10	6	2,3	6,0	5,3	25	10	1,8	3,4	2,0
R 006.0100-15	6	2,3	6,0	5,3	30	15	1,8	3,4	1,0
R 006.0150-15	6	2,3	6,0	5,3	30	15	1,8	3,4	1,5
R 006.0200-15	6	2,3	6,0	5,3	30	15	1,8	3,4	2,0
R 006.0100-22	6	2,3	6,0	5,3	37	22	1,8	3,4	1,0
R 006.0150-22	6	2,3	6,0	5,3	37	22	1,8	3,4	1,5
R 006.0200-22	6	2,3	6,0	5,3	37	22	1,8	3,4	2,0
R 006.0100-25	6	2,3	6,0	5,3	40	25	1,8	3,4	1,0
R 006.0150-25	6	2,3	6,0	5,3	40	25	1,8	3,4	1,5
R 006.0200-25	6	2,3	6,0	5,3	40	25	1,8	3,4	2,0
R 006.0100-30	6	2,3	6,0	5,3	45	30	1,8	3,4	1,0
R 006.0150-30	6	2,3	6,0	5,3	45	30	1,8	3,4	1,5
R 006.0200-30	6	2,3	6,0	5,3	45	30	1,8	3,4	2,0
R 006.0100-35	6	2,3	6,0	5,3	50	35	1,8	3,4	1,0
R 006.0150-35	6	2,3	6,0	5,3	50	35	1,8	3,4	1,5
R 006.0100-42	6	2,3	6,0	5,3	57	42	1,8	3,4	1,0
R 007.0100-10	7	2,7	6,8	6,3	25	10	2,5	3,8	1,0
R 007.0150-10	7	2,7	6,8	6,3	25	10	2,5	3,8	1,5
R 007.0200-10	7	2,7	6,8	6,3	25	10	2,5	3,8	2,0
R 007.0100-15	7	2,7	6,8	6,3	30	15	2,5	3,8	1,0
R 007.0150-15	7	2,7	6,8	6,3	30	15	2,5	3,8	1,5
R 007.0200-15	7	2,7	6,8	6,3	30	15	2,5	3,8	2,0
R 007.0100-22	7	2,7	6,8	6,3	37	22	2,5	3,8	1,0
R 007.0150-22	7	2,7	6,8	6,3	37	22	2,5	3,8	1,5
R 007.0200-22	7	2,7	6,8	6,3	37	22	2,5	3,8	2,0
R 007.0100-25	7	2,7	6,8	6,3	40	25	2,5	3,8	1,0
R 007.0150-25	7	2,7	6,8	6,3	40	25	2,5	3,8	1,5
R 007.0200-25	7	2,7	6,8	6,3	40	25	2,5	3,8	2,0
R 007.0100-30	7	2,7	6,8	6,3	45	30	2,5	3,8	1,0
R 007.0150-30	7	2,7	6,8	6,3	45	30	2,5	3,8	1,5
R 007.0200-30	7	2,7	6,8	6,3	45	30	2,5	3,8	2,0
R 007.0100-35	7	2,7	7,0	6,3	50	35	2,5	3,8	1,0
R 007.0150-35	7	2,7	7,0	6,3	50	35	2,5	3,8	1,5
R 007.0200-35	7	2,7	7,0	6,3	50	35	2,5	3,8	2,0
R 007.0100-40	7	2,7	7,0	6,3	55	40	2,5	3,8	1,0
R 007.0150-40	7	2,7	7,0	6,3	55	40	2,5	3,8	1,5
R 007.0100-45	7	2,7	7,0	6,3	60	45	2,5	3,8	1,0
R 007.0100-50	7	2,7	7,0	6,3	65	50	2,5	3,8	1,0

P	●
M	●
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S	○
H	○
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Internal turning and profiling, grooving and chamfering

From Diameter 2.0 mm onwards up to a turning depth of 15.0 mm



Miniature turning tools guide (Main catalogue 2024)

Cutting Data	58–61	Broaching – Recommendations for Correct Use	62
Symbol explanation, coatings and thread types	63		

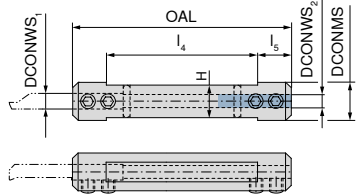
UltraMini – Standard tool holder for cutting inserts

- ▲ double ended
- ▲ Machining diameter from Ø 0.5 mm

Scope of supply:

Tool holder with allen key

Performance



Designation	DCONWS ₁	DCONWS ₂	DCONMS	OAL	l ₄	l ₅	H
645.0012-D	4	5	12	75	55	10	10,3
645.0016-D	4	5	16	75	55	10	14,0
645.0020-D	4	5	20	90	70	10	18,0
676.0016-D	6	7	16	75	55	10	14,0
676.0020-D	6	7	20	90	70	10	18,0

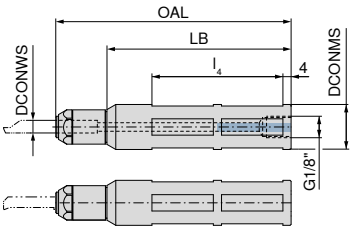
73 080 ...	PG	Y5
	EUR	EUR
163	112,20	40,80
164	117,00	43,20
165	126,00	46,80
166	117,00	43,20
167	126,00	46,80

UltraMini – Quick change tool holder for cutting inserts

Scope of supply:

Tool holder, lock nut and clamping wedge

Performance

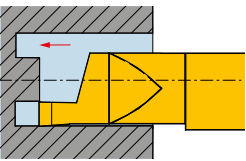


Designation	DCONWS	DCONMS _{g6}	OAL	LB	l ₄
UM600H.0012.4	4	12,00	115	90	64
UM600H.0016.4	4	16,00	115	90	64
UM600H.001905.4	4	19,05	115	90	64
UM600H.0020.4	4	20,00	115	90	64
UM600H.0022.4	4	22,00	115	90	64
UM600H.0025.4	4	25,00	115	90	64
UM600H.00254.4	4	25,40	115	90	64
UM600H.0028.4	4	28,00	115	90	64
UM600H.0012.5	5	12,00	115	90	64
UM600H.0016.5	5	16,00	115	90	64
UM600H.001905.5	5	19,05	115	90	64
UM600H.0020.5	5	20,00	115	90	64
UM600H.0022.5	5	22,00	115	90	64
UM600H.0025.5	5	25,00	115	90	64
UM600H.00254.5	5	25,40	115	90	64
UM600H.0028.5	5	28,00	115	90	64
UM600H.0012.6	6	12,00	115	90	64
UM600H.0016.6	6	16,00	115	90	64
UM600H.001905.6	6	19,05	115	90	64
UM600H.0020.6	6	20,00	115	90	64
UM600H.0022.6	6	22,00	115	90	64
UM600H.0025.6	6	25,00	115	90	64
UM600H.00254.6	6	25,40	115	90	64
UM600H.0028.6	6	28,00	115	90	64
UM600H.0012.7	7	12,00	115	90	64
UM600H.0016.7	7	16,00	115	90	64
UM600H.001905.7	7	19,05	115	90	64
UM600H.0020.7	7	20,00	115	90	64
UM600H.0022.7	7	22,00	115	90	64
UM600H.0025.7	7	25,00	115	90	64
UM600H.00254.7	7	25,40	115	90	64
UM600H.0028.7	7	28,00	115	90	64

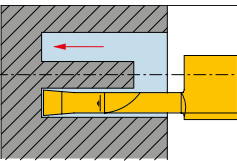
73 089 ...	PG	Y5
	EUR	EUR
124	206,50	78,00
164	260,00	70,80
194	270,50	75,60
204	274,40	74,40
224	279,70	75,60
254	285,20	78,00
264	290,50	79,20
284	290,50	79,20
125	286,50	78,00
165	260,00	70,80
195	278,50	75,60
205	274,40	74,40
225	279,70	75,60
255	285,20	78,00
265	290,50	79,20
285	290,50	79,20
126	286,50	78,00
166	260,00	70,80
196	278,50	75,60
206	274,40	74,40
226	279,70	75,60
256	285,20	78,00
266	290,50	79,20
286	290,50	79,20
127	286,50	78,00
167	260,00	70,80
197	278,50	75,60
207	274,40	74,40
227	279,70	75,60
257	285,20	78,00
267	290,50	79,20
287	290,50	79,20

ⓘ Avoid pulling cuts. When using thro' coolant supply, tighten using key!

Axial grooving

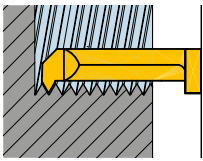


Minimum external diameter of groove 6.0 mm
At 1.5 mm grooving width
Up to 2.0 mm grooving depth



Minimum external diameter of groove 15.0 mm
At 3.0 mm grooving width
Up to 30.0 mm grooving depth

Thread turning



Turning of external threads from diameter 4.0 mm onwards
▲ Metric standard and fine thread
▲ Whitworth pipe threads

ⓘ The rest of the comprehensive UltraMini range is available in the main catalogue.





SOLID CARBIDE MILLING CUTTERS



SilverLine – first choice for high performance solid carbide milling applications in all materials.



AluLine – first choice for high performance solid carbide milling of aluminium.



CircularLine – first choice for high performance trochoidal milling and modern CAM machining strategies.



Ti1000 CoreLine – cost effective solution for all standard applications and materials.

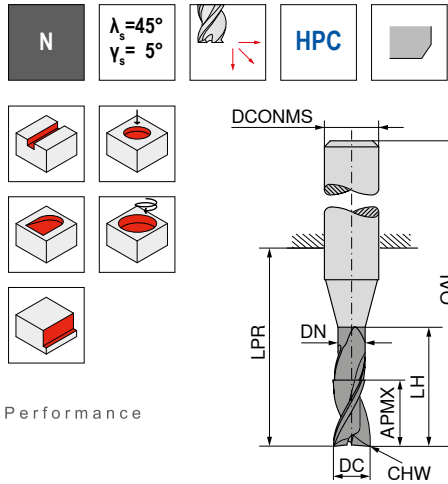
FIRST CHOICE FOR HIGH PERFORMANCE SOLID CARBIDE MILLING APPLICATIONS



- Optimised core geometry
- ▲ Less vibration even with high angles of contact
 - ▲ Significantly increased fracture resistance
- Latest Dragonskin coating
- ▲ Processing of almost all materials
 - ▲ Increased temperature resistance
 - ▲ Wet and dry machining
- Improved chip clearance
- ▲ Smoother processing
 - ▲ Lower forces during chip formation
 - ▲ Reduced heat generation
- Expanded product range
- ▲ Greater range of diameters
 - ▲ Increased range of flute options
 - ▲ HA shank options
 - ▲ Versions with thro' coolant
 - ▲ Roughing-finishing milling cutters
 - ▲ Rough milling cutters
 - ▲ Full slot milling cutters



SilverLine – End milling cutter



DC ₁₈	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
3,0	8	2,9	15	21	57	6	0,1	3
3,5	11	3,4	16	21	57	6	0,1	3
4,0	8	3,9	15	18	54	6	0,1	3
4,0	11	3,9	16	21	57	6	0,1	3
4,0	16			26	62	6	0,1	3
4,5	13	4,4	19	21	57	6	0,1	3
5,0	9	4,9	16	18	54	6	0,1	3
5,0	13	4,9	19	21	57	6	0,1	3
5,0	17			26	62	6	0,1	3
5,5	13	5,4	19	21	57	6	0,1	3
6,0	10	5,9	17	18	54	6	0,2	3
6,0	13	5,9	19	21	57	6	0,2	3
6,0	18			26	62	6	0,2	3
6,5	19	6,3	25	27	63	8	0,2	3
7,0	19	6,8	25	27	63	8	0,2	3
7,5	19	7,3	25	27	63	8	0,2	3
8,0	12	7,8	20	22	58	8	0,2	3
8,0	19	7,8	25	27	63	8	0,2	3
8,0	24			32	68	8	0,2	3
8,5	22	8,2	30	32	72	10	0,2	3
9,0	22	8,7	30	32	72	10	0,2	3
9,5	22	9,2	30	32	72	10	0,2	3
10,0	14	9,7	24	26	66	10	0,2	3
10,0	22	9,7	30	32	72	10	0,2	3
10,0	30			40	80	10	0,2	3
12,0	16	11,7	26	28	73	12	0,2	3
12,0	26	11,7	36	38	83	12	0,2	3
12,0	36			48	93	12	0,2	3
14,0	18	13,7	28	30	75	14	0,2	3
14,0	26	13,7	36	38	83	14	0,2	3
14,0	42			54	99	14	0,2	3
16,0	22	15,5	32	34	82	16	0,2	3
16,0	32	15,5	42	44	92	16	0,2	3
16,0	48			60	108	16	0,2	3
18,0	24	17,5	34	36	84	18	0,2	3
18,0	32	17,5	42	44	92	18	0,2	3
18,0	54			66	114	18	0,2	3
20,0	26	19,5	40	42	92	20	0,2	3
20,0	38	19,5	52	54	104	20	0,2	3
20,0	60			76	126	20	0,2	3

P	•	•	•
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O			

DPB72S	DPB72S	DPB72S
DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
≈DIN 6527	≈DIN 6527	≈DIN 6527
50 966 ... PG V0/5A	50 966 ... PG V0/5A	50 966 ... PG V0/5A
EUR EUR	EUR EUR	EUR EUR
04100 58,52 45,60	03200 60,70 46,80 03700 60,70 46,80	04400 61,70 48,00
05100 58,52 45,60	04200 58,52 45,60 04700 60,70 46,80	05400 61,70 48,00
06100 60,86 48,00	05200 58,52 45,60 05700 60,67 49,20	06400 60,42 54,00
08100 60,14 54,00	06200 64,56 48,00 06700 74,04 57,60 07200 74,04 57,60 07700 74,04 57,60	08400 76,85 60,00
10100 100,30 86,40	08200 71,90 56,40 08700 123,40 97,20 09200 123,40 97,20 09700 123,40 97,20	10400 136,80 108,00
12100 153,20 120,00	10200 121,10 94,80	12400 185,80 146,40
14100 180,30 148,80	12200 164,00 129,60	14400 240,60 189,60
16100 220,10 180,00	14200 246,30 170,40	16400 371,10 292,80
18100 316,10 249,60	16200 267,10 289,20	18400 470,50 378,00
20100 387,30 306,00	18200 378,10 298,80 20200 441,50 348,00	20400 552,50 436,80

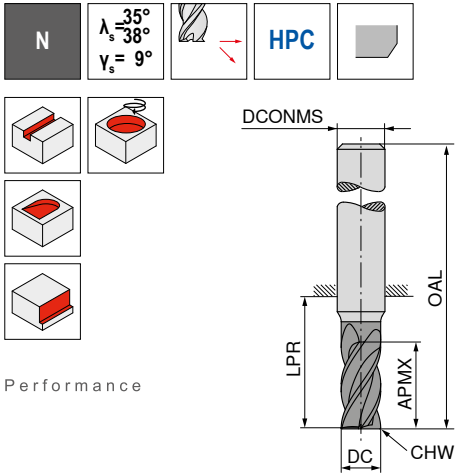


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Email: techsupport.uk@ceratizit.com

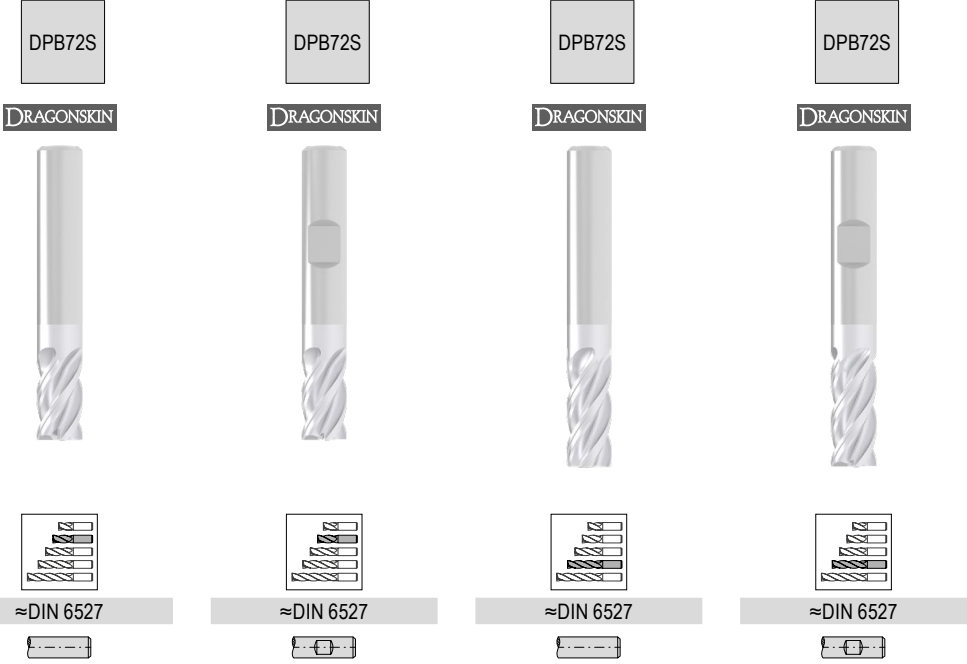


Order by 6:00 pm and get your
guaranteed free express delivery

SilverLine – End milling cutter



DC ₁₈	APMX	LPR	OAL	DCONMS ₁₆	CHW	ZEFP
mm	mm	mm	mm	mm	mm	
3,0	5	14	50	6	0,1	4
3,0	8	21	57	6	0,1	4
3,5	8	18	54	6	0,1	4
3,5	11	21	57	6	0,1	4
4,0	8	18	54	6	0,1	4
4,0	11	21	57	6	0,1	4
4,5	9	18	54	6	0,1	4
4,5	13	21	57	6	0,1	4
5,0	9	18	54	6	0,1	4
5,0	13	21	57	6	0,1	4
5,5	10	18	54	6	0,1	4
5,5	13	21	57	6	0,1	4
6,0	10	18	54	6	0,1	4
6,0	13	21	57	6	0,1	4
7,0	12	22	58	8	0,2	4
7,0	21	27	63	8	0,2	4
8,0	12	22	58	8	0,2	4
8,0	21	27	63	8	0,2	4
9,0	14	26	66	10	0,2	4
9,0	22	32	72	10	0,2	4
10,0	14	26	66	10	0,2	4
10,0	22	32	72	10	0,2	4
11,0	16	28	73	12	0,3	4
11,0	26	38	83	12	0,3	4
12,0	16	28	73	12	0,3	4
12,0	26	38	83	12	0,3	4
14,0	16	28	73	14	0,3	4
14,0	26	38	83	14	0,3	4
15,0	22	34	82	16	0,3	4
15,0	36	44	92	16	0,3	4
16,0	22	34	82	16	0,3	4
16,0	36	44	92	16	0,3	4
17,0	22	34	82	18	0,3	4
17,0	36	44	92	18	0,3	4
18,0	22	34	82	18	0,3	4
18,0	36	44	92	18	0,3	4
19,0	26	42	92	20	0,3	4
19,0	41	54	104	20	0,3	4
20,0	26	42	92	20	0,3	4
20,0	41	54	104	20	0,3	4



50 972 ...	PG V0/5A	50 973 ...	PG V0/5A	50 972 ...	PG V0/5A	50 973 ...	PG V0/5A
EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
03100	50,24 39,60	03100	50,24 39,60	03200	50,24 39,60	03200	50,24 39,60
03600	50,24 39,60	03600	50,24 39,60	03700	50,24 39,60	03700	50,24 39,60
04100	50,24 39,60	04100	50,24 39,60	04200	50,24 39,60	04200	50,24 39,60
04600	51,26 39,60	04600	51,26 39,60	04700	51,26 39,60	04700	51,26 39,60
05100	51,26 39,60	05100	51,26 39,60	05200	51,26 39,60	05200	51,26 39,60
05600	49,60 38,40	05600	49,60 38,40	05700	49,60 38,40	05700	49,60 38,40
06100	49,60 38,40	06100	49,60 38,40	06200	49,60 38,40	06200	49,60 38,40
07100	65,95 51,60	07100	65,95 51,60	07200	65,95 51,60	07200	65,95 51,60
08100	65,95 51,60	08100	65,95 51,60	08200	65,95 51,60	08200	65,95 51,60
09100	86,07 67,20	09100	86,07 67,20	09200	86,07 67,20	09200	86,07 67,20
10100	86,07 67,20	10100	86,07 67,20	10200	86,07 67,20	10200	86,07 67,20
11100	136,10 106,80	11100	136,10 106,80	11200	136,10 106,80	11200	136,10 106,80
12100	136,10 106,80	12100	136,10 106,80	12200	136,10 106,80	12200	136,10 106,80
14100	174,90 138,00	14100	174,90 138,00	14200	174,90 138,00	14200	174,90 138,00
15100	215,90 170,40	15100	215,90 170,40	15200	215,90 170,40	15200	215,90 170,40
16100	215,90 170,40	16100	215,90 170,40	16200	215,90 170,40	16200	215,90 170,40
17100	293,70 231,60	17100	293,70 231,60	17200	293,70 231,60	17200	293,70 231,60
18100	293,70 231,60	18100	293,70 231,60	18200	293,70 231,60	18200	293,70 231,60
19100	333,20 262,80	19100	333,20 262,80	19200	333,20 262,80	19200	333,20 262,80
20100	333,20 262,80	20100	333,20 262,80	20200	333,20 262,80	20200	333,20 262,80

P	•	•	•	•
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N	○	○	○	○
S	•	•	•	•
H				
O				

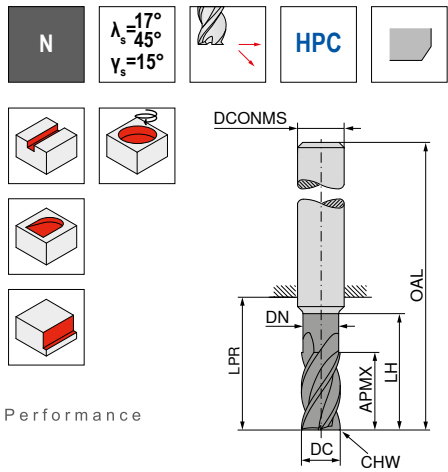
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SilverLine – End milling cutter

▲ Especially for high-volume milling



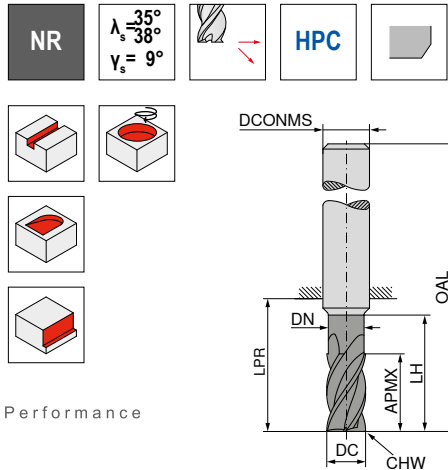
Performance

DC 18	APMX	DN	LH	LPR	OAL	DCONMS 16	CHW	ZEFP	50 976 ... PG V0/5A		50 977 ... PG V0/5A			
									EUR	EUR	EUR	EUR		
3	8	2,8	13	21	57	6	0,1	4	03200	53,92	51,60	03200	53,92	51,60
4	11	3,8	17	21	57	6	0,1	4	04200	53,92	51,60	04200	53,92	51,60
5	13	4,8	19	21	57	6	0,1	4	05200	53,92	51,60	05200	53,92	51,60
6	13	5,8	19	21	57	6	0,1	4	06200	53,92	51,60	06200	53,92	51,60
8	21	7,7	25	27	63	8	0,2	4	08200	72,68	66,00	08200	72,68	66,00
10	22	9,7	30	32	72	10	0,2	4	10200	106,40	102,00	10200	106,40	102,00
12	26	11,6	36	38	83	12	0,3	4	12200	135,00	129,60	12200	135,00	129,60
14	26	13,6	36	38	83	14	0,3	4	14200	187,90	178,80	14200	187,90	178,80
16	36	15,5	42	44	92	16	0,3	4	16200	306,70	289,20	16200	306,70	289,20
18	36	17,5	42	44	92	18	0,3	4	18200	402,30	399,60	18200	402,30	399,60
20	41	19,5	52	54	104	20	0,3	4	20200	410,20	416,40	20200	410,20	416,40
P									●			●		
M									●			●		
K									●			●		
N									○			○		
S														
H														
O														

SilverLine – Rough milling cutter

The all-rounder for universal application

▲ With roughing profile



Performance

DC d11	APMX	DN	LH	LPR	OAL	DCONMS h6	CHW	ZEFP		50 979 ...	PG V0/5A
mm	mm	mm	mm	mm	mm	mm	mm			EUR	EUR
3,0	8	2,8	13	21	57	6	0,1	4		03200	85,10 81,60
3,5	11	3,3	17	21	57	6	0,1	4		03700	85,10 81,60
4,0	11	3,8	17	21	57	6	0,1	4		04200	85,10 81,60
4,5	13	4,3	19	21	57	6	0,1	4		04700	85,10 81,60
5,0	13	4,8	19	21	57	6	0,1	4		05200	85,10 81,60
5,5	13	5,3	19	21	57	6	0,1	4		05700	85,10 81,60
6,0	13	5,8	19	21	57	6	0,1	4		06200	85,10 81,60
7,0	21	6,7	25	27	63	8	0,2	4		07200	90,60 86,40
8,0	21	7,7	25	27	63	8	0,2	4		08200	90,60 86,40
9,0	22	8,7	30	32	72	10	0,2	4		09200	112,70 108,00
10,0	22	9,7	30	32	72	10	0,2	4		10200	112,70 108,00
11,0	26	10,6	36	38	83	12	0,3	4		11200	170,10 170,40
12,0	26	11,6	36	38	83	12	0,3	4		12200	170,10 170,40
14,0	26	13,6	36	38	83	14	0,3	4		14200	220,90 219,60
15,0	36	14,5	42	44	92	16	0,3	4		15200	202,80 258,00
16,0	36	15,5	42	44	92	16	0,3	4		16200	202,80 258,00
17,0	36	16,5	42	44	92	18	0,3	4		17200	304,10 302,40
18,0	36	17,5	42	44	92	18	0,3	4		18200	304,10 302,40
19,0	41	18,5	52	54	104	20	0,3	4		19200	436,20 406,80
20,0	41	19,5	52	54	104	20	0,3	4		20200	436,20 406,80
P										●	
M										●	
K										●	
N										○	
S										●	
H											
O											



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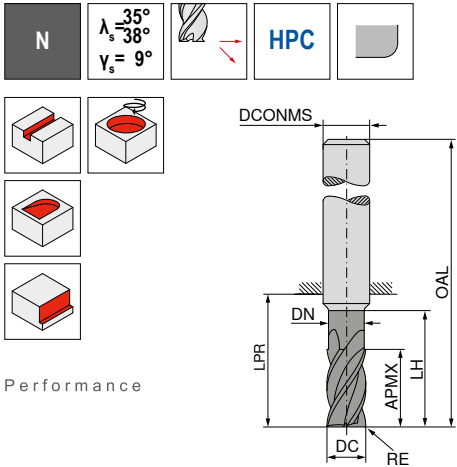


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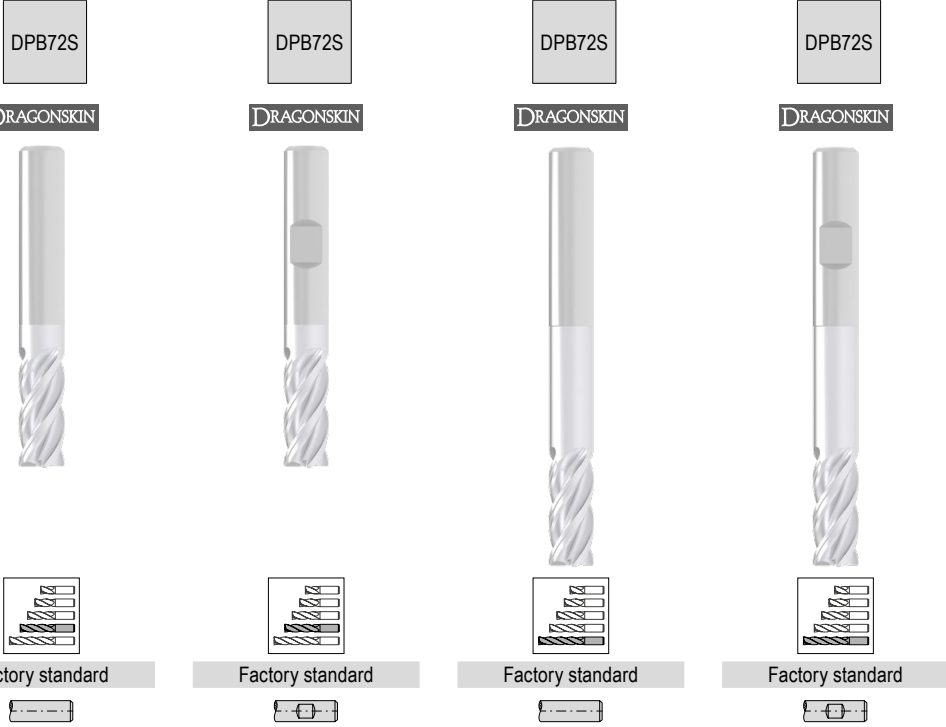
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SilverLine – End milling cutter with corner radius



DC	RE	APMX	DN	LH	LPR	OAL	DCONMS	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
3	0,10	8,0	2,8	13	21	57	6	4
3	0,40	8,0	2,8	13	21	57	6	4
3	0,50	8,0	2,8	13	21	57	6	4
3	1,00	8,0	2,8	13	21	57	6	4
3	0,50	6,5	2,8	15	22	58	6	4
3	0,30	6,5	2,8	15	22	58	6	4
3	0,80	6,5	2,8	15	22	58	6	4
4	0,40	11,0	3,8	17	21	57	6	4
4	0,10	11,0	3,8	17	21	57	6	4
4	0,50	11,0	3,8	17	21	57	6	4
4	1,00	11,0	3,8	17	21	57	6	4
4	0,50	8,5	3,8	20	26	62	6	4
4	0,40	8,5	3,8	20	26	62	6	4
4	0,80	8,5	3,8	20	26	62	6	4
5	1,00	13,0	4,8	19	21	57	6	4
5	0,10	13,0	4,8	19	21	57	6	4
5	0,50	13,0	4,8	19	21	57	6	4
5	0,80	10,5	4,8	25	34	70	6	4
5	0,50	10,5	4,8	25	34	70	6	4
6	1,00	13,0	5,8	19	21	57	6	4
6	0,10	13,0	5,8	19	21	57	6	4
6	0,50	13,0	5,8	19	21	57	6	4
6	1,50	13,0	5,8	19	21	57	6	4
6	0,80	13,0	5,8	30	34	70	6	4
6	0,60	13,0	5,8	30	34	70	6	4
6	1,00	13,0	5,8	30	34	70	6	4
8	0,50	21,0	7,7	25	27	63	8	4
8	0,15	21,0	7,7	25	27	63	8	4
8	1,00	21,0	7,7	25	27	63	8	4
8	1,50	21,0	7,7	25	27	63	8	4
8	2,00	21,0	7,7	25	27	63	8	4
8	1,50	17,0	7,7	40	44	80	8	4
8	0,80	17,0	7,7	40	44	80	8	4
8	1,00	17,0	7,7	40	44	80	8	4
8	2,00	17,0	7,7	40	44	80	8	4
10	0,15	22,0	9,7	30	32	72	10	4
10	0,50	22,0	9,7	30	32	72	10	4
10	1,00	22,0	9,7	30	32	72	10	4
10	1,50	22,0	9,7	30	32	72	10	4
10	2,00	22,0	9,7	30	32	72	10	4
10	1,50	21,0	9,7	50	54	94	10	4
10	0,50	21,0	9,7	50	54	94	10	4
10	1,00	21,0	9,7	50	54	94	10	4
10	2,00	21,0	9,7	50	54	94	10	4
12	0,20	26,0	11,6	36	38	83	12	4
12	0,50	26,0	11,6	36	38	83	12	4
12	1,00	26,0	11,6	36	38	83	12	4
12	1,50	26,0	11,6	36	38	83	12	4
12	2,00	26,0	11,6	36	38	83	12	4
12	3,00	26,0	11,6	36	38	83	12	4
12	4,00	26,0	11,6	36	38	83	12	4
12	2,00	25,0	11,6	60	64	109	12	4
12	0,50	25,0	11,6	60	64	109	12	4
12	1,00	25,0	11,6	60	64	109	12	4
12	1,50	25,0	11,6	60	64	109	12	4
12	3,00	25,0	11,6	60	64	109	12	4
12	4,00	25,0	11,6	60	64	109	12	4
14	0,30	26,0	13,6	36	38	83	14	4
14	1,00	26,0	13,6	36	38	83	14	4
14	2,00	26,0	13,6	36	38	83	14	4
14	3,00	26,0	13,6	36	38	83	14	4
14	4,00	26,0	13,6	36	38	83	14	4
14	3,00	29,0	13,6	70	74	119	14	4
14	1,00	29,0	13,6	70	74	119	14	4
14	2,00	29,0	13,6	70	74	119	14	4
14	4,00	29,0	13,6	70	74	119	14	4
16	1,00	36,0	15,5	42	44	92	16	4
16	0,30	36,0	15,5	42	44	92	16	4
16	2,00	36,0	15,5	42	44	92	16	4
16	3,00	36,0	15,5	42	44	92	16	4
16	4,00	36,0	15,5	42	44	92	16	4
16	3,00	33,0	15,5	80	84	132	16	4
16	1,00	33,0	15,5	80	84	132	16	4
16	2,00	33,0	15,5	80	84	132	16	4
16	4,00	33,0	15,5	80	84	132	16	4
18	1,00	36,0	17,5	42	44	92	18	4
18	2,00	36,0	17,5	42	44	92	18	4
18	3,00	36,0	17,5	42	44	92	18	4
18	4,00	36,0	17,5	42	44	92	18	4
18	3,00	38,0	17,5	90	94	142	18	4
18	1,00	38,0	17,5	90	94	142	18	4
18	2,00	38,0	17,5	90	94	142	18	4
18	4,00	38,0	17,5	90	94	142	18	4
20	0,30	41,0	19,5	52	54	104	20	4
20	1,00	41,0	19,5	52	54	104	20	4
20	2,00	41,0	19,5	52	54	104	20	4
20	3,00	41,0	19,5	52	54	104	20	4
20	4,00	41,0	19,5	52	54	104	20	4
20	3,00	42,0	19,5	100	104	154	20	4
20	1,00	42,0	19,5	100	104	154	20	4
20	2,00	42,0	19,5	100	104	154	20	4
20	4,00	42,0	19,5	100	104	154	20	4

P	•	•	•	•
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K	•	•	•	•
N	○	○	○	○
S	•	•	•	•
H				
O				



50 970 ...	PG V0/5A	50 971 ...	PG V0/5A	50 970 ...	PG V0/5A	50 971 ...	PG V0/5A
	EUR	EUR	EUR		EUR		EUR
03201	67,66	52,80	03201	67,66	52,80		
03204	67,66	52,80	03204	67,66	52,80		
03205	67,66	52,80	03205	67,66	52,80		
03210	67,66	52,80	03210	67,66	52,80		
04204	67,66	52,80	04204	67,66	52,80	03405	79,54 62,40
04201	67,66	52,80	04201	67,66	52,80	03403	79,54 62,40
04205	67,66	52,80	04205	67,66	52,80	03408	79,54 62,40
04210	67,66	52,80	04210	67,66	52,80		
05210	68,79	54,00	05210	68,79	54,00	04405	79,54 62,40
05201	68,79	54,00	05201	68,79	54,00	04404	79,54 62,40
05205	68,79	54,00	05205	68,79	54,00	04408	79,54 62,40
06210	67,11	52,80	06210	67,11	52,80		
06201	67,11	52,80	06201	67,11	52,80		
06205	67,11	52,80	06205	67,11	52,80		
06215	67,11	52,80	06215	67,11	52,80		
08205	84,11	66,00	08205	84,11	66,00	05408	88,79 63,60
08202	84,11	66,00	08202	84,11	66,00	05405	88,79 63,60
08210	84,11	66,00	08210	84,11	66,00		
08215	84,11	66,00	08215	84,11	66,00		
08220	84,11	66,00	08220	84,11	66,00		
10202	105,20	82,80	10202	105,20	82,80	08415	97,83 76,80
10205	105,20	82,80	10205	105,20	82,80	08408	97,83 76,80
10210	105,20	82,80	10210	105,20	82,80	08410	97,83 76,80
10215	105,20	82,80	10215	105,20	82,80	08420	97,83 76,80
10220	105,20	82,80	10220	105,20	82,80		
12202	162,40	127,20	12202	162,40	127,20	10415	121,00 94,80
12205	162,40	127,20	12205	162,40	127,20	10405	121,00 94,80
12210	162,40	127,20	12210	162,40	127,20	10410	121,00 94,80
12215	162,40	127,20	12215	162,40	127,20	10420	121,00 94,80
12220	162,40	127,20	12220	162,40	127,20		
12230	162,40	127,20	12230	162,40	127,20		
12240	162,40	127,20	12240	162,40	127,20		
14203	245,50	193,20	14203	245,50	193,20	12420	183,80 145,20
14210	245,50	193,20	14210	245,50	193,20	12405	183,80 145,20
14220	245,50	193,20	14220	245,50	193,20	12410	183,80 145,20
14230	245,50	193,20	14230	245,50	193,20	12415	183,80 145,20
14240	245,50	193,20	14240	245,50	193,20	12430	183,80 145,20
16210	245,50	193,20	16210	245,50	193,20	12440	183,80 145,20
16203	245,50	193,20	16203	245,50	193,20		
16220	245,50	193,20	16220	245,50	193,20		
16230	245,50	193,20	16230	245,50	193,20		
16240	245,50	193,20	16240	245,50	193,20		
18210	326,60	258,00	18210	326,60	258,00	14430	275,40 217,20
18220	326,60	258,00	18220	326,60	258,00	14410	275,40 217,20
18230	326,60	258,00	18230	326,60	258,00	14420	275,40 217,20
18240	326,60	258,00	18240	326,60	258,00	14440	275,40 217,20
20203	367,80	290,40	20203	367,80	290,40		
20210	367,80	290,40	20210	367,80	290,40		
20220	367,80	290,40	20220	367,80	290,40		
20230	367,80	290,40	20230	367,80	290,40		
20240	367,80	290,40	20240	367,80	290,40		
20430	409,60	322,80	20430	409,60	322,80	16430	382,10 237,60
20410	409,60	322,80	20410	409,60	322,80	16410	382,10 237,60

SilverLine – End milling cutter

N

$\lambda_s=37^\circ$
 $\gamma_s=38^\circ$
 $\gamma_s=9^\circ$

Performance

DPB72S

DRAGONSKIN

DPB72S

DRAGONSKIN

≈DIN 6527

≈DIN 6527

DC _{es}	APMX	LPR	OAL	DCONMS _{h6}	α°	ZEFP	50 993 ...	PG V0/5A	50 995 ...	PG V0/5A		
mm	mm	mm	mm	mm			EUR	EUR	EUR	EUR		
6	10	18	54	6	45	5	06100	54.67	32.40	06100	54.67	32.40
8	12	22	58	8	45	5	08100	72.56	43.20	08100	72.56	43.20
10	14	26	66	10	45	5	10100	94.63	56.40	10100	94.63	56.40
12	16	28	73	12	45	5	12100	124.19	88.80	12100	124.19	88.80
16	22	34	82	16	45	5	16100	237.68	140.40	16100	237.68	140.40
20	26	42	92	20	45	5	20100	366.58	217.20	20100	366.58	217.20

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SilverLine – End milling cutter

N

$\lambda_s=37^\circ$
 $\gamma_s=38^\circ$
 $\gamma_s=9^\circ$

Performance

DPB72S

DRAGONSKIN

DPB72S

DRAGONSKIN

≈DIN 6527

≈DIN 6527

DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	α°	ZEFP	50 994 ...	PG V0/5A	50 996 ...	PG V0/5A		
mm	mm	mm	mm	mm	mm	mm			EUR	EUR	EUR	EUR		
6	13	5.8	19	21	57	6	45	5	06200	54.16	31.20	06200	54.16	31.20
8	21	7.7	25	27	63	8	45	5	08200	72.78	43.20	08200	72.78	43.20
10	22	9.7	30	32	72	10	45	5	10200	108.06	63.60	10200	108.06	63.60
12	26	11.6	36	38	83	12	45	5	12200	124.46	78.00	12200	124.46	78.00
16	36	15.5	42	44	92	16	45	5	16200	365.36	181.20	16200	365.36	181.20
20	41	19.5	52	54	104	20	45	5	20200	477.86	248.40	20200	477.86	248.40

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SilverLine – End milling cutter with corner radius

N

$\lambda_s=37^\circ$
 $\gamma_s=38^\circ$
 $\gamma_s=9^\circ$

Performance

DPB72S

DRAGONSKIN

DPB72S

DRAGONSKIN

Factory standard

Factory standard

DC _{es}	RE _{±0.05}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP	50 997 ...	PG V0/5A	50 998 ...	PG V0/5A		
mm	mm	mm	mm	mm	mm		EUR	EUR	EUR	EUR		
6	0.2	13	21	57	6	5	06202	77.84	45.60	06202	77.84	45.60
6	0.5	13	21	57	6	5	06205	77.84	45.60	06205	77.84	45.60
6	1.0	13	21	57	6	5	06210	77.84	45.60	06210	77.84	45.60
8	0.2	21	27	63	8	5	08202	97.61	57.60	08202	97.61	57.60
8	0.5	21	27	63	8	5	08205	97.61	57.60	08205	97.61	57.60
8	1.0	21	27	63	8	5	08210	97.61	57.60	08210	97.61	57.60
8	1.5	21	27	63	8	5	08215	97.61	57.60	08215	97.61	57.60
10	0.2	22	32	72	10	5	10202	122.00	72.00	10202	122.00	72.00
10	0.5	22	32	72	10	5	10205	122.00	72.00	10205	122.00	72.00
10	1.0	22	32	72	10	5	10210	122.00	72.00	10210	122.00	72.00
10	1.5	22	32	72	10	5	10215	122.00	72.00	10215	122.00	72.00
10	1.6	22	32	72	10	5	10216	122.00	72.00	10216	122.00	72.00
10	2.0	22	32	72	10	5	10220	122.00	72.00	10220	122.00	72.00
12	0.3	26	38	83	12	5	12203	188.46	111.60	12203	188.46	111.60
12	0.5	26	38	83	12	5	12205	188.46	111.60	12205	188.46	111.60
12	1.0	26	38	83	12	5	12210	188.46	111.60	12210	188.46	111.60
12	1.5	26	38	83	12	5	12215	188.46	111.60	12215	188.46	111.60
12	1.6	26	38	83	12	5	12216	188.46	111.60	12216	188.46	111.60
12	2.0	26	38	83	12	5	12220	188.46	111.60	12220	188.46	111.60
12	2.5	26	38	83	12	5	12225	188.46	111.60	12225	188.46	111.60
16	0.3	36	44	92	16	5	16203	264.88	169.20	16203	264.88	169.20
16	0.5	36	44	92	16	5	16205	264.88	169.20	16205	264.88	169.20
16	1.0	36	44	92	16	5	16210	264.88	169.20	16210	264.88	169.20
16	1.5	36	44	92	16	5	16215	264.88	169.20	16215	264.88	169.20
16	1.6	36	44	92	16	5	16216	264.88	169.20	16216	264.88	169.20
16	2.0	36	44	92	16	5	16220	264.88	169.20	16220	264.88	169.20
16	2.5	36	44	92	16	5	16225	264.88	169.20	16225	264.88	169.20
16	3.0	36	44	92	16	5	16230	264.88	169.20	16230	264.88	169.20
20	0.3	41	54	104	20	5	20203	426.68	253.20	20203	426.68	253.20
20	0.5	41	54	104	20	5	20205	426.68	253.20	20205	426.68	253.20
20	1.0	41	54	104	20	5	20210	426.68	253.20	20210	426.68	253.20
20	1.5	41	54	104	20	5	20215	426.68	253.20	20215	426.68	253.20
20	1.6	41	54	104	20	5	20216	426.68	253.20	20216	426.68	253.20
20	2.0	41	54	104	20	5	20220	426.68	253.20	20220	426.68	253.20
20	2.5	41	54	104	20	5	20225	426.68	253.20	20225	426.68	253.20
20	3.0	41	54	104	20	5	20230	426.68	253.20	20230	426.68	253.20
20	4.0	41	54	104	20	5	20240	426.68	253.20	20240	426.68	253.20

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SilverLine – High Accuracy Finish Milling Cutter

- ▲ max. taper of 0.008 mm for high precision and parallelism of vertical walls
- ▲ Tool with cutting edge correction

N

$\lambda_s=48^\circ$
 $\gamma_s=50^\circ$
 $\gamma_s=13^\circ$

Performance

DPB72S

DRAGONSKIN

DPB72S

DRAGONSKIN

≈DIN 6527

Factory standard

DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	50 991 ...	PG V0/5A	50 991 ...	PG V0/5A		
mm	mm	mm	mm	mm	mm	mm		EUR	EUR	EUR	EUR		
6	13	5.6	19	21	57	6	6	06700	74.69	58.80	06700	74.69	58.80
6	10	5.8	18	22	58	6	6	06200	74.72	58.80	06200	74.72	58.80
6	13	5.8	27	31	67	6	6						
6	13	5.8	36	40	76	6	6						
6	15	5.6	42	44	80	6	6						
8	19	7.6	25	27	63	8	6	08700	95.76	67.20	08700	95.76	67.20
8	13	7.7	24	28	64	8	6	08200	95.46	67.20	08200	95.46	67.20
8	17	7.7	36	40	76	8	6						
8	17	7.7	48	53	89	8	6						
8	20	7.6	62	64	100	8	6						
10	22	9.6	30	32	72	10	6	10700	147.96	115.20	10700	147.96	115.20
10	16	9.7	30	34	74	10	6	10200	147.36	116.40	10200	147.36	116.40
10	21	9.7	45	49	89	10	6						
10	25	9.6	58	60	100	10	6						
10	21	9.7	60	64	104	10	6						
12	26	11.5	36	38	83	12	6	12700	199.28	157.20	12700	199.28	157.20
12	19	11.6	36	40	85	12	6	12200	199.76	157.20	12200	199.76	157.20
12	25	11.6	54	58	103	12	6						
12	30	11.5	73	75	120	12	6						
12	25	11.6	72	76	121	12	6						
16	32	15.0	42	44	92	16	6	16700	371.36	292.80	16700	371.36	292.80
16	25	15.5	48	52	100	16	6	16200	371.46	292.80	16200	371.46	292.80
16	33	15.5	72	76	124	16	6						
16	33	15.5	96	100	148	16	6						
16	40	15.0	100	102	150	16	6						
20	38	19.0	52	54	104	20	6	20700	535.96	422.40	20700	535.96	422.40
20	32	19.5	60	64	114	20	6	20200	535.36	422.40	20200	535.36	422.40
20	42	19.5	90	94	144	20	6						
20	50	19.0	98	100	150	20	6						
20	42	19.5	120	124	174	20	6						
25	40	24.5	75	80	136	25	6	25200	676.36	529.20	25200	676.36	529.20
25	52	24.5	113	118	174	25	6						
25	52	24.5	150	154	210	25	6						

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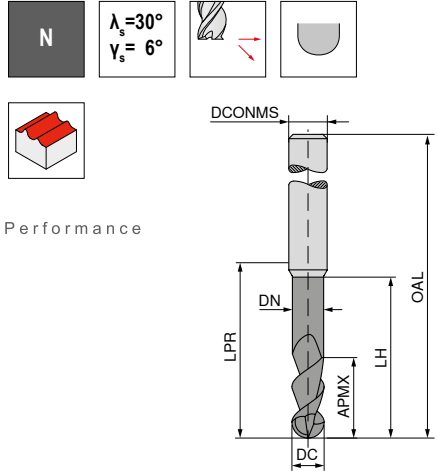
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Technical support: 1800 93 22 55
3 time served engineers, available from 8:00 am to 6:00 pm, Monday to Friday
Email: techsupport.uk@ceratizit.com



SilverLine – Ball Nosed Cutter



Performance



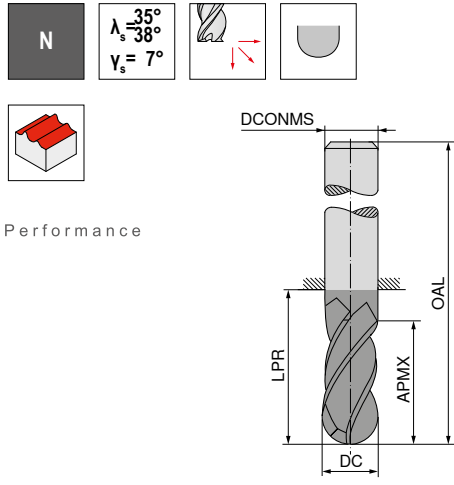
Factory standard

Factory standard

DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	50 963 ...	PG V0/5A
mm	mm	mm	mm	mm	mm	mm		EUR	EUR
3	4	2,8	10,0	14	50	6	2	03115	63,77 50,40
3	7	3,0	8,8	24	60	6	2		
4	8	3,8	12,0	18	54	6	2	04120	63,77 50,40
4	10	4,0	12,5	39	75	6	2		
5	9	4,8	16,0	18	54	6	2	05125	63,77 50,40
5	12	5,0	15,0	39	75	6	2		
6	10	5,7	16,0	18	54	6	2	06130	63,77 50,40
6	12	6,0	15,0	64	100	6	2		
7	11	6,6	20,0	22	58	8	2	07135	77,62 61,20
8	12	7,6	20,0	22	58	8	2	08140	77,62 61,20
8	14	8,0	17,5	64	100	8	2		
10	14	9,6	24,0	26	66	10	2	10150	97,05 75,60
10	18	10,0	22,5	60	100	10	2		
12	16	11,5	26,0	28	73	12	2	12160	141,10 110,40
12	22	12,0	27,5	55	100	12	2		
14	18	13,3	28,0	30	75	14	2	14170	163,70 128,40
14	26	14,0	32,5	75	120	14	2		
16	22	15,2	32,0	34	82	16	2	16180	207,80 163,20
16	30	16,0	37,5	102	150	16	2		
18	24	17,1	34,0	36	84	18	2	18190	342,30 270,00
20	26	19,0	40,0	42	92	20	2	20110	342,30 270,00
20	38	20,0	47,5	100	150	20	2	20410	601,50 475,20
P									
M									
K									
N									
S									
H									
O									

SilverLine – Ball Nosed Cutter

The all-rounder for universal application



Performance

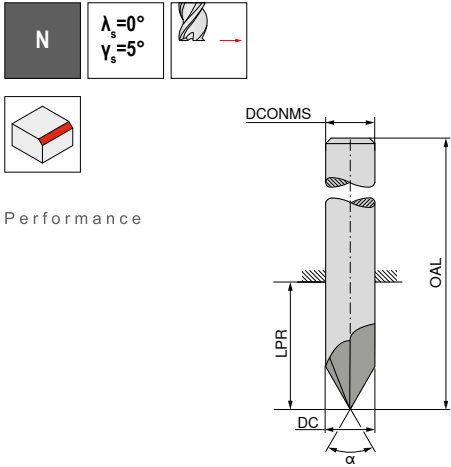


Factory standard

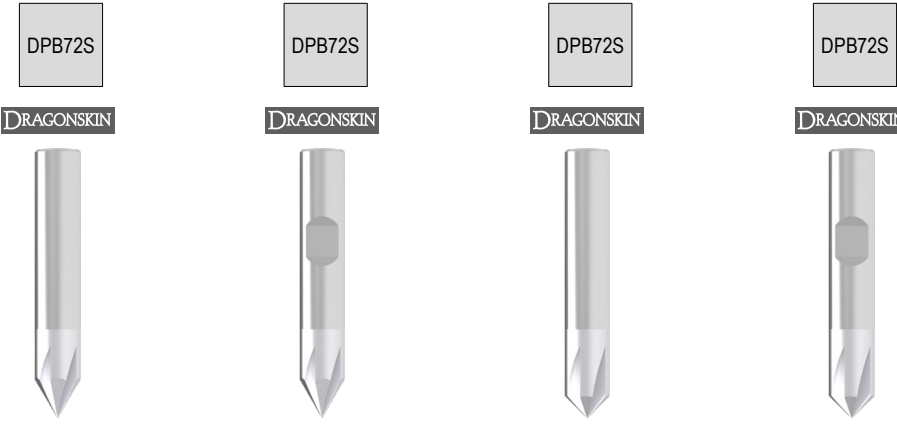
DC _{h6}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP	50 990 ...	PG V0/5A
mm	mm	mm	mm	mm		EUR	EUR
4	11	21	57	6	4	04220	62,10 48,00
5	13	21	57	6	4	05225	62,10 48,00
6	13	21	57	6	4	06230	72,63 56,40
8	19	36	72	8	4	08280	90,01 70,80
10	22	32	72	10	4	10250	113,60 88,80
12	26	38	83	12	4	12260	170,80 141,60
16	32	44	92	16	4	16280	266,40 208,80
20	38	54	104	20	4	20210	304,50 303,60
P							
M							
K							
N							
S							
H							
O							

SilverLine – NC deburring cutter

▲ High performance 5 flute chamfering tool



Performance



α = 60°	α = 60°	α = 90°	α = 90°
Factory standard	Factory standard	Factory standard	Factory standard
50 326 ...	50 327 ...	50 324 ...	50 325 ...
PG V0/5A	PG V0/5A	PG V0/5A	PG V0/5A
EUR	EUR	EUR	EUR
EUR	EUR	EUR	EUR
04000	49,34 44,00	04000	49,34 44,00
06000	54,22 48,00	06000	54,22 48,00
08000	70,65 63,00	08000	70,65 63,00
10000	83,97 75,00	10000	83,97 75,00
12000	107,30 96,00	12000	107,30 96,00
P			
M			
K			
N			
S			
H			
O			



With optimised coating and geometry for the effective machining of aluminium and non-ferrous metals

With optimised coating and geometry for the effective machining of aluminium and non-ferrous metals

Solid carbide milling tools from CERATIZIT ensure you always do a good job: We have added milling tools for machining aluminium and non-ferrous metals to our product portfolio. This means you will now be able to find the ideal product for any application.

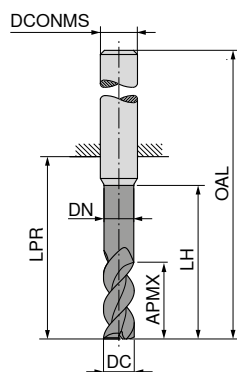
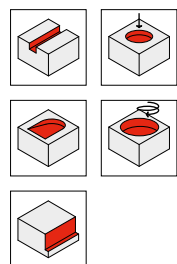
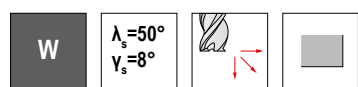
This AluLine milling cutter allows you to master even the toughest demands when working with aluminium and non-ferrous metals. This is all made possible thanks to the special geometry and the specifically tailored coating.

- ▲ **Economical and process-secure machining of aluminium and non-ferrous metals.**
Optimal performance thanks to the perfectly coordinated combination of geometry, substrate and coating.
- ▲ **Optimal/versatile tool selection for almost all applications in the machining of non-ferrous metals**
The product portfolio has increased in size following the program extension and now offers access to around 2500 items.
- ▲ **Extremely long tool service life possible**
Thanks to the wear-resistant DLC coating.

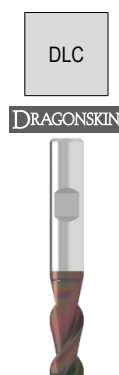
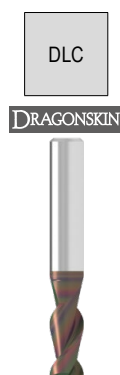


Cutting datas can be found in our main catalogue,
Chapter 14 Solid Carbide milling cutters on page 414–419

▲ With polished chip flutes



Performance



Factory standard

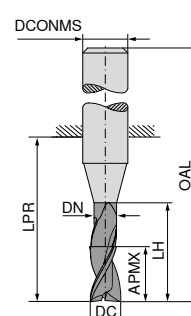
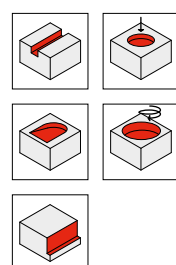
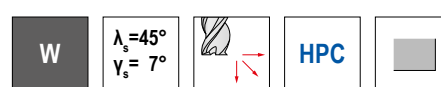
Factory standard



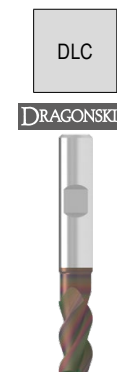
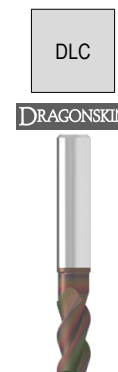
DC	h6	APMX	DN	LH	LPR	OAL	DCONMS	h6	ZEFP	53 625 ...	PG V1/5B	53 626 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm	mm			EUR	EUR	EUR	EUR		
5,0	10,5	4,8	15	22	58		6		2	05100	42,63	38,40	05100	42,63	38,40
5,5	13,0	5,3	18	22	58		6		2	05600	50,11	45,60	05600	50,11	45,60
6,0	13,0	5,8	18	22	58		6		2	06100	48,24	44,40	06100	48,24	44,40
6,5	17,0	6,2	24	28	64		8		2	06600	52,80	49,20	06600	52,80	49,20
7,0	17,0	6,7	24	28	64		8		2	07100	52,82	48,00	07100	52,82	48,00
7,5	17,0	7,2	24	28	64		8		2	07600	54,82	46,80	07600	54,82	46,80
8,0	17,0	7,7	24	28	64		8		2	08100	54,84	46,80	08100	54,84	46,80
8,5	21,0	8,2	30	34	74		10		2	08600	70,87	72,00	08600	70,87	72,00
9,0	21,0	8,7	30	34	74		10		2	09100	77,89	70,80	09100	77,89	70,80
9,5	21,0	9,2	30	34	74		10		2	09600	75,25	69,60	09600	75,25	69,60
10,0	21,0	9,7	30	34	74		10		2	10100	73,57	67,20	10100	73,57	67,20
10,5	25,0	10,1	36	40	85		12		2	10600	106,90	97,20	10600	106,90	97,20
11,0	25,0	10,6	36	40	85		12		2	11100	103,48	94,80	11100	103,48	94,80
11,5	25,0	11,1	36	40	85		12		2	11600	109,78	92,40	11600	109,78	92,40
12,0	25,0	11,6	36	40	85		12		2	12100	104,48	94,80	12100	104,48	94,80
12,5	29,0	12,1	42	46	91		14		2			12600	142,28	130,80	
13,0	29,0	12,6	42	46	91		14		2			13100	141,28	129,60	
13,5	29,0	13,1	42	46	91		14		2			13600	140,48	128,40	
14,0	29,0	13,6	42	46	91		14		2			14100	147,28	135,60	
14,5	33,0	14,0	48	52	100		16		2			14600	192,88	177,60	
15,0	33,0	14,5	48	52	100		16		2			15100	189,08	174,00	
15,5	33,0	15,0	48	52	100		16		2			15600	185,08	169,20	
16,0	33,0	15,5	48	52	100		16		2			16100	197,58	181,20	
16,5	38,0	16,0	54	58	106		18		2			16600	247,28	228,00	
17,0	38,0	16,5	54	58	106		18		2			17100	241,58	222,00	
17,5	38,0	17,0	54	58	106		18		2			17600	235,28	216,00	
18,0	38,0	17,5	54	58	106		18		2			18100	235,28	216,00	
18,5	42,0	18,0	60	64	114		20		2			18600	284,98	277,20	
19,0	42,0	18,5	60	64	114		20		2			19100	284,48	270,00	
19,5	42,0	19,0	60	64	114		20		2			19600	286,80	264,00	
20,0	42,0	19,5	60	64	114		20		2			20100	289,90	266,40	

A horizontal bar chart showing the distribution of 1000 samples across seven categories: P (purple), M (yellow), K (orange), N (green), S (light orange), H (light grey), and O (dark grey). The N category has two black dots indicating specific data points.

▲ With polished chip flutes



Performance



Factory standard

Factory standard



DC	h6	APMX	DN	LH	LPR	OAL	DCONMS	h6	ZEFP	53 617 ...		PG V1/5B	53 618 ...		PG V1/5B
mm	mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR		EUR	EUR	
2,0	4,5	1,8	6,0	14	50	6		3	02100	30,60	36,00		02100	30,60	36,00
2,5	5,5	2,3	7,5	19	55	6		3	02600	30,32	36,00		02600	30,32	36,00
3,0	6,5	2,8	9,0	19	55	6		3	03100	40,00	36,00		03100	40,00	36,00
3,5	8,5	3,3	12,0	19	55	6		3	03600	41,73	38,40		03600	41,73	38,40
4,0	8,5	3,8	12,0	19	55	6		3	04100	42,06	38,40		04100	42,06	38,40
4,5	10,5	4,3	15,0	22	58	6		3	04600	51,00	46,80		04600	51,00	46,80
5,0	10,5	4,8	15,0	22	58	6		3	05100	45,08	40,80		05100	45,08	40,80
5,5	13,0	5,3	18,0	22	58	6		3	05600	52,11	46,80		05600	52,11	46,80
6,0	13,0	5,8	18,0	22	58	6		3	06100	49,18	44,40		06100	49,18	44,40
6,5	17,0	6,2	24,0	28	64	8		3	06600	56,97	51,60		06600	56,97	51,60
7,0	17,0	6,7	24,0	28	64	8		3	07100	54,97	49,20		07100	54,97	49,20
7,5	17,0	7,2	24,0	28	64	8		3	07600	53,73	49,20		07600	53,73	49,20
8,0	17,0	7,7	24,0	28	64	8		3	08100	53,00	48,00		08100	53,00	48,00
8,5	21,0	8,2	30,0	34	74	10		3	08600	82,25	74,40		08600	82,25	74,40
9,0	21,0	8,7	30,0	34	74	10		3	09100	80,37	73,20		09100	80,37	73,20
9,5	21,0	9,2	30,0	34	74	10		3	09600	78,47	72,00		09600	78,47	72,00
10,0	21,0	9,7	30,0	34	74	10		3	10100	76,62	69,60		10100	76,62	69,60
10,5	25,0	10,1	36,0	40	85	12		3	10600	110,70	100,80		10600	110,70	100,80
11,0	25,0	10,6	36,0	40	85	12		3	11100	108,00	99,60		11100	108,00	99,60
11,5	25,0	11,1	36,0	40	85	12		3	11600	105,20	96,00		11600	105,20	96,00
12,0	25,0	11,6	36,0	40	85	12		3	12100	108,40	99,60		12100	108,40	99,60
12,5	29,0	12,1	42,0	46	91	14		3					12600	142,20	130,80
13,0	29,0	12,6	42,0	46	91	14		3					13100	141,20	129,60
13,5	29,0	13,1	42,0	46	91	14		3					13600	140,10	128,40
14,0	29,0	13,6	42,0	46	91	14		3					14100	147,20	135,60
14,5	33,0	14,0	48,0	52	100	16		3					14600	182,90	177,60
15,0	33,0	14,5	48,0	52	100	16		3					15100	180,00	174,00
15,5	33,0	15,0	48,0	52	100	16		3					15600	185,90	169,20
16,0	33,0	15,5	48,0	52	100	16		3					16100	197,50	181,20
16,5	38,0	16,0	54,0	58	106	18		3					16600	247,20	228,00
17,0	38,0	16,5	54,0	58	106	18		3					17100	241,50	222,00
17,5	38,0	17,0	54,0	58	106	18		3					17600	235,20	216,00
18,0	38,0	17,5	54,0	58	106	18		3					18100	235,20	216,00
18,5	42,0	18,0	60,0	64	114	20		3					18600	261,90	277,20
19,0	42,0	18,5	60,0	64	114	20		3					19100	294,40	270,00
19,5	42,0	19,0	60,0	64	114	20		3					19600	286,90	264,00
20,0	42,0	19,5	60,0	64	114	20		3					20100	280,90	266,40

Category	Color	Notes
P	Blue	
M	Yellow	
K	Orange	
N	Green	Two black dots at approximately 40% and 80%
S	Light Orange	
H	Light Grey	
O	Dark Grey	



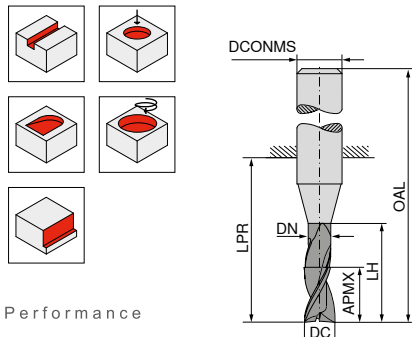
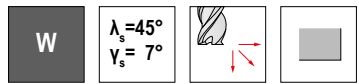
3 time served engineers, available from 8:00 am to 6:00 pm, Monday to Friday
Email: techsupport.uk@ceratizit.com



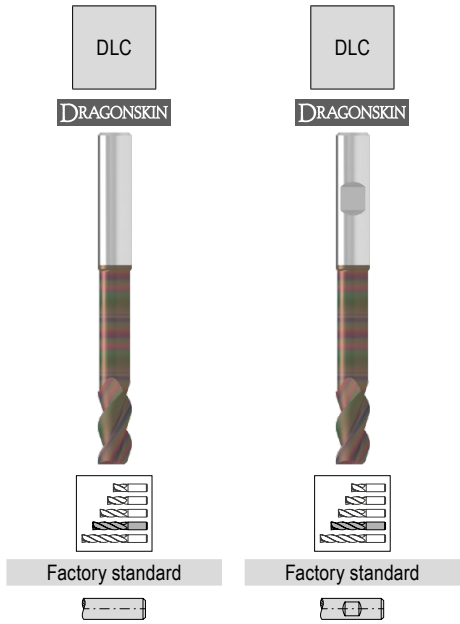
59

AluLine – End milling cutter

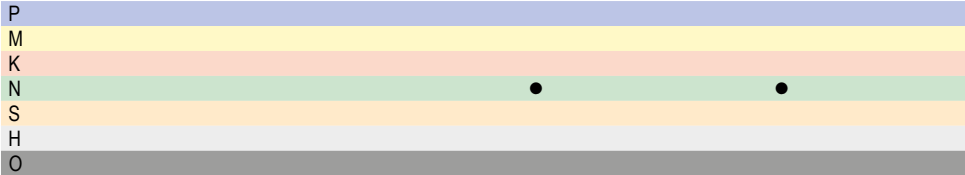
▲ With polished chip flutes



Performance

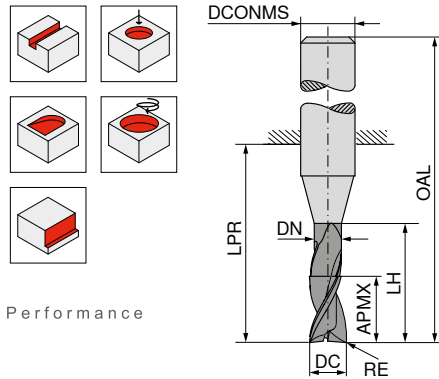
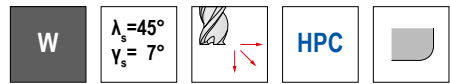


DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	53 617 ...	PG V1/5B	53 618 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm		EUR	EUR	EUR	EUR		
2,0	5,5	1,8	10,0	19	55	6	3	02200	45,99	40,80	02200	45,99	40,80
2,5	6,5	2,3	12,5	22	58	6	3	02700	45,42	40,80	02700	45,42	40,80
3,0	8,0	2,8	15,0	22	58	6	3	03200	46,40	42,00	03200	46,40	42,00
3,5	10,5	3,3	20,0	26	62	6	3	03700	48,32	44,40	03700	48,32	44,40
4,0	10,5	3,8	20,0	26	62	6	3	04200	48,79	44,40	04200	48,79	44,40
4,5	13,0	4,3	25,0	34	70	6	3	04700	59,60	54,00	04700	59,60	54,00
5,0	13,0	4,8	25,0	34	70	6	3	05200	53,38	49,20	05200	53,38	49,20
5,5	16,0	5,3	30,0	34	70	6	3	05700	60,06	55,20	05700	60,06	55,20
6,0	16,0	5,8	30,0	34	70	6	3	06200	55,79	50,40	06200	55,79	50,40
6,5	21,0	6,2	40,0	44	80	8	3	06700	65,26	60,00	06700	65,26	60,00
7,0	21,0	6,7	40,0	44	80	8	3	07200	63,00	57,60	07200	63,00	57,60
7,5	21,0	7,2	40,0	44	80	8	3	07700	62,46	57,60	07700	62,46	57,60
8,0	21,0	7,7	40,0	44	80	8	3	08200	64,36	55,20	08200	64,36	55,20
8,5	26,0	8,2	50,0	54	94	10	3	08700	96,36	88,80	08700	96,36	88,80
9,0	26,0	8,7	50,0	54	94	10	3	09200	94,24	86,40	09200	94,24	86,40
9,5	26,0	9,2	50,0	54	94	10	3	09700	94,88	84,00	09700	94,88	84,00
10,0	26,0	9,7	50,0	54	94	10	3	10200	89,44	81,60	10200	89,44	81,60
10,5	31,0	10,1	60,0	64	109	12	3	10700	130,38	118,80	10700	130,38	118,80
11,0	31,0	10,6	60,0	64	109	12	3	11200	127,10	116,40	11200	127,10	116,40
11,5	31,0	11,1	60,0	64	109	12	3	11700	123,79	114,00	11700	123,79	114,00
12,0	31,0	11,6	60,0	64	109	12	3	12200	126,70	116,40	12200	126,70	116,40
12,5	36,0	12,1	70,0	74	119	14	3				12700	167,20	152,40
13,0	36,0	12,6	70,0	74	119	14	3				13200	165,00	152,40
13,5	36,0	13,1	70,0	74	119	14	3				13700	164,60	151,20
14,0	36,0	13,6	70,0	74	119	14	3				14200	172,10	158,40
14,5	41,0	14,0	80,0	84	132	16	3				14700	226,60	208,80
15,0	41,0	14,5	80,0	84	132	16	3				15200	223,20	204,00
15,5	41,0	15,0	80,0	84	132	16	3				15700	217,40	200,40
16,0	41,0	15,5	80,0	84	132	16	3				16200	204,60	212,40
16,5	47,0	16,0	90,0	94	142	18	3				16700	201,30	267,60
17,0	47,0	16,5	90,0	94	142	18	3				17200	204,80	261,60
17,5	47,0	17,0	90,0	94	142	18	3				17700	276,60	254,40
18,0	47,0	17,5	90,0	94	142	18	3				18200	276,40	253,20
18,5	52,0	18,0	100,0	104	154	20	3				18700	303,40	352,80
19,0	52,0	18,5	100,0	104	154	20	3				19200	373,60	343,20
19,5	52,0	19,0	100,0	104	154	20	3				19700	363,50	333,60
20,0	52,0	19,5	100,0	104	154	20	3				20200	365,40	336,00

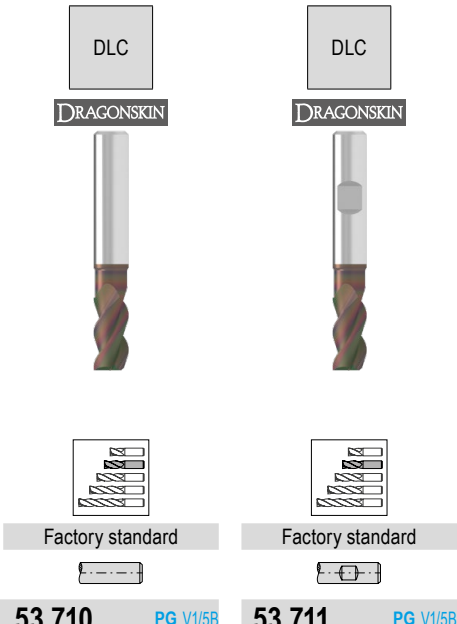


AluLine – End milling cutter with corner radius

▲ With polished chip flutes



Performance

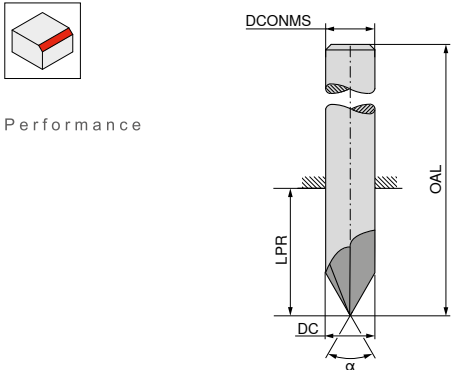
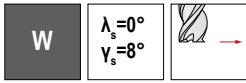


DC _{h6}	RE _{±0,05}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	53 710 ...	PG V1/5B	53 711 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR	EUR	EUR		
2	0,3	4,5	1,8	6	14	50	6	3	02103	41,29	37,20	02103	41,29	37,20
2	0,5	4,5	1,8	6	14	50	6	3	02105	41,29	37,20	02105	41,29	37,20
3	0,3	6,5	2,7	9	19	55	6	3	03103	42,16	38,40	03103	42,16	38,40
3	0,5	6,5	2,7	9	19	55	6	3	03105	42,16	38,40	03105	42,16	38,40
3	1,0	6,5	2,7	9	19	55	6	3	03110	42,16	38,40	03110	42,16	38,40
4	0,3	8,5	3,7	12	19	55	6	3	04103	44,26	40,80	04103	44,26	40,80
4	0,5	8,5	3,7	12	19	55	6	3	04105	44,26	40,80	04105	44,26	40,80
4	1,0	8,5	3,7	12	19	55	6	3	04110	44,26	40,80	04110	44,26	40,80
5	0,3	10,5	4,7	15	22	58	6	3	05103	48,38	44,40	05103	48,38	44,40
5	0,5	10,5	4,7	15	22	58	6	3	05105	48,38	44,40	05105	48,38	44,40
5	1,0	10,5	4,7	15	22	58	6	3	05110	48,38	44,40	05110	48,38	44,40
6	0,3	13,0	5,7	18	22	58	6	3	06103	50,66	46,80	06103	50,66	46,80
6	0,5	13,0	5,7	18	22	58	6	3	06105	50,66	46,80	06105	50,66	46,80
6	1,0	13,0	5,7	18	22	58	6	3	06110	50,66	46,80	06110	50,66	46,80
6	1,5	13,0	5,7	18	22	58	6	3	06115	50,66	46,80	06115	50,66	46,80
8	0,3	17,0	7,4	24	28	64	8	3	08103	55,74	50,40	08103	55,74	50,40
8	0,5	17,0	7,4	24	28	64	8	3	08105	55,74	50,40	08105	55,74	50,40
8	1,0	17,0	7,4	24	28	64	8	3	08110	55,74	50,40	08110	55,74	50,40
8	1,5	17,0	7,4	24	28	64	8	3	08115	55,74	50,40	08115	55,74	50,40
8	2,0	17,0	7,4	24	28	64	8	3	08120	55,74	50,40	08120	55,74	50,40
10	0,3	21,0	9,2	30	34	74	10	3	10103	60,78	74,40	10103	60,78	74,40
10	0,5	21,0	9,2	30	34	74	10	3	10105	60,78	74,40	10105	60,78	74,40
10	1,0	21,0	9,2	30	34	74	10	3	10110	60,78	74,40	10110	60,78	74,40
10	1,5	21,0	9,2	30	34	74	10	3	10115	60,78	74,40	10115	60,78	74,40
10	2,0	21,0	9,2	30	34	74	10	3	10120	60,78	74,40	10120	60,78	74,40
10	3,0	21,0	9,2	30	34	74	10	3	10130	60,78	74,40	10130	60,78	74,40
12	0,3	25,0	11,0	36	40	85	12	3	12103	114,40	105,60	12103	114,40	105,60
12	0,5	25,0	11,0	36	40	85	12	3	12105	114,40	105,60	12105	114,40	105,60
12	1,0	25,0	11,0	36	40	85	12	3	12110	114,40	105,60	12110	114,40	105,60
12	1,5	25,0	11,0	36	40	85	12	3	12115	114,40	105,60	12115	114,40	105,60
12	2,0	25,0	11,0	36	40	85	12	3	12120	114,40	105,60	12120	114,40	105,60
12	3,0	25,0	11,0	36	40	85	12	3	12130	114,40	105,60	12130	114,40	105,60
12	4,0	25,0	11,0	36	40	85	12	3	12140	114,40	105,60	12140	114,40	105,60
16	0,3	33,0	15,0	48	52	100	16	3				16103	183,40	168,00
16	0,5	33,0	15,0	48	52	100	16	3				16105	183,40	168,00
16	1,0	33,0	15,0	48	52	100	16	3				16110	183,40	168,00
16	1,5	33,0	15,0	48	52	100	16	3				16115	183,40	168,00
16	2,0	33,0	15,0	48	52	100	16	3				16120	183,40	168,00
16	3,0	33,0	15,0	48	52	100	16	3				16130	183,40	168,00
16	4,0	33,0	15,0	48	52	100	16	3				16140	183,40	168,00
20	0,5	42,0	19,0	60	64	114	20	3				20105	283,10	260,40
20	1,0	42,0	19,0	60	64	114	20	3				20110	283,10	260,40
20	1,5	42,0	19,0	60	64	114	20	3				20115	283,10	260,40
20	2,0	42,0	19,0	60	64	114	20	3				20120	283,10	260,40
20	3,0	42,0	19,0	60	64	114	20	3				20130	283,10	260,40
20	4,0	42,0	19,0	60	64	114	20	3				20140	283,10	260,40



AluLine – NC deburring cutter

▲ Point angle α = 90°



Performance

DC _{h6}	OAL	LPR	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	
4	50	22	4	4
6	55	19	6	4
8	58	22	8	4
10	60	20	10	4
12	70	25	12	4
16	80	32	16	4



CircularLine

Universal tool with 5 or 6 flutes for smooth operation and high material removal rate

Tools with chip breakers for optimum chip removal



CircularLine – End milling cutter with corner radius

- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 5 x DC

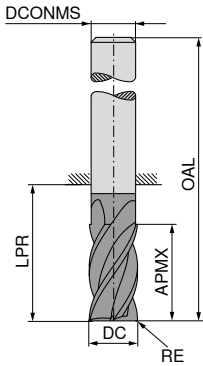
CCR
UNI

$\lambda_s = 35^\circ$
 $\gamma_s = 36^\circ$
 $\gamma_s = 9^\circ$

HPC



Performance



DPX72S

DRAGONSKIN



Factory standard

DC _{e8}	RE _{±0.05}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP
6	0.2	31	39	75	6	5
6	1.0	31	39	75	6	5
6	1.5	31	39	75	6	5
8	0.2	41	49	85	8	5
8	1.0	41	49	85	8	5
8	1.5	41	49	85	8	5
8	2.0	41	49	85	8	5
10	0.2	51	60	100	10	5
10	1.0	51	60	100	10	5
10	1.5	51	60	100	10	5
10	1.6	51	60	100	10	5
10	2.0	51	60	100	10	5
12	0.2	61	70	115	12	5
12	1.0	61	70	115	12	5
12	1.5	61	70	115	12	5
12	1.6	61	70	115	12	5
12	2.0	61	70	115	12	5
12	3.0	61	70	115	12	5
14	0.2	71	81	126	14	5
14	1.0	71	81	126	14	5
14	1.5	71	81	126	14	5
14	1.6	71	81	126	14	5
14	2.0	71	81	126	14	5
14	3.0	71	81	126	14	5
16	0.2	81	92	140	16	5
16	1.0	81	92	140	16	5
16	1.5	81	92	140	16	5
16	1.6	81	92	140	16	5
16	2.0	81	92	140	16	5
16	3.0	81	92	140	16	5
16	4.0	81	92	140	16	5
18	0.2	91	102	150	18	5
18	1.0	91	102	150	18	5
18	1.5	91	102	150	18	5
18	1.6	91	102	150	18	5
18	2.0	91	102	150	18	5
18	3.0	91	102	150	18	5
18	4.0	91	102	150	18	5
20	0.2	102	113	163	20	5
20	1.0	102	113	163	20	5
20	1.5	102	113	163	20	5
20	1.6	102	113	163	20	5
20	2.0	102	113	163	20	5
20	3.0	102	113	163	20	5
20	4.0	102	113	163	20	5

53 593 ...	PG V1/5B
06402	EUR 78.75 63.60
06410	EUR 78.75 63.60
06415	EUR 78.75 63.60
08402	EUR 98.78 73.20
08410	EUR 98.78 73.20
08415	EUR 98.78 73.20
08420	EUR 98.78 73.20
10402	EUR 125.38 100.80
10410	EUR 125.38 100.80
10415	EUR 125.38 100.80
10416	EUR 125.38 100.80
10420	EUR 125.38 100.80
12402	EUR 155.38 124.80
12410	EUR 155.38 124.80
12415	EUR 155.38 124.80
12416	EUR 155.38 124.80
12420	EUR 155.38 124.80
12430	EUR 155.38 124.80
14402	EUR 319.18 258.00
14410	EUR 319.18 258.00
14415	EUR 319.18 258.00
14416	EUR 319.18 258.00
14420	EUR 319.18 258.00
14430	EUR 319.18 258.00
16402	EUR 315.78 254.40
16410	EUR 315.78 254.40
16415	EUR 315.78 254.40
16416	EUR 315.78 254.40
16420	EUR 315.78 254.40
16430	EUR 315.78 254.40
16440	EUR 315.78 254.40
18402	EUR 361.88 291.60
18410	EUR 361.88 291.60
18415	EUR 361.88 291.60
18416	EUR 361.88 291.60
18420	EUR 361.88 291.60
18430	EUR 361.88 291.60
18440	EUR 361.88 291.60
20402	EUR 436.88 351.60
20410	EUR 436.88 351.60
20415	EUR 436.88 351.60
20416	EUR 436.88 351.60
20420	EUR 436.88 351.60
20430	EUR 436.88 351.60
20440	EUR 436.88 351.60

P	●
M	○
K	●
N	○
S	○
H	
O	

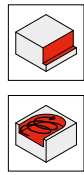
CircularLine – End milling cutter with corner radius

- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 3 x DC

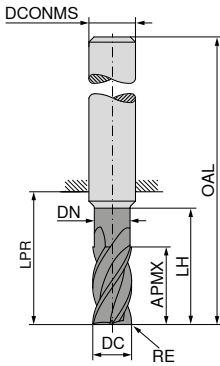
CCR
UNI

$\lambda_s = 30^\circ$
 $\gamma_s = 31^\circ$
 $\gamma_s = 8^\circ$

HPC



Performance



DPX72S

DRAGONSKIN



Factory standard

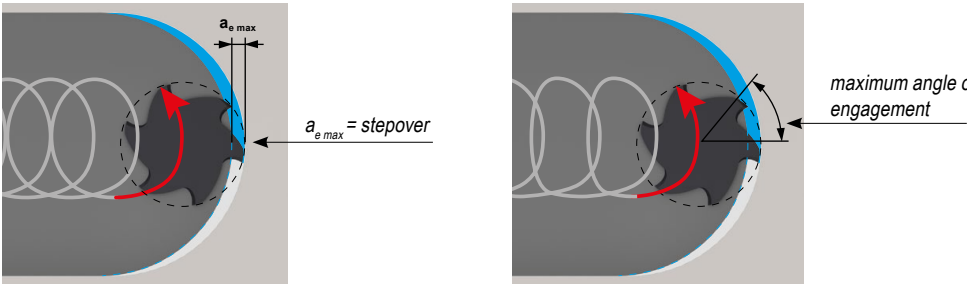
DC _{e8}	RE _{±0.05}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP
6	0.2	19	5.8	25	27	63	6	6
6	1.0	19	5.8	25	27	63	6	6
6	1.5	19	5.8	25	27	63	6	6
8	0.2	25	7.7	33	35	71	8	6
8	1.0	25	7.7	33	35	71	8	6
8	1.5	25	7.7	33	35	71	8	6
8	2.0	25	7.7	33	35	71	8	6
10	0.2	31	9.7	41	43	83	10	6
10	1.0	31	9.7	41	43	83	10	6
10	1.5	31	9.7	41	43	83	10	6
10	1.6	31	9.7	41	43	83	10	6
10	2.0	31	9.7	41	43	83	10	6
12	0.2	37	11.6	47	49	94	12	6
12	1.0	37	11.6	47	49	94	12	6
12	1.5	37	11.6	47	49	94	12	6
12	1.6	37	11.6	47	49	94	12	6
12	2.0	37	11.6	47	49	94	12	6
12	3.0	37	11.6	47	49	94	12	6
16	0.2	49	15.5	61	63	111	16	6
16	1.0	49	15.5	61	63	111	16	6
16	1.5	49	15.5	61	63	111	16	6
16	1.6	49	15.5	61	63	111	16	6
16	2.0	49	15.5	61	63	111	16	6
16	3.0	49	15.5	61	63	111	16	6
16	4.0	49	15.5	61	63	111	16	6
20	0.2	61	19.5	75	77	127	20	6
20	1.0	61	19.5	75	77	127	20	6
20	1.5	61	19.5	75	77	127	20	6
20	1.6	61	19.5	75	77	127	20	6
20	2.0	61	19.5	75	77	127	20	6
20	3.0	61	19.5	75	77	127	20	6
20	4.0	61	19.5	75	77	127	20	6

53 642 ...	PG V1/5B
06202	EUR 61.88 42.00
06210	EUR 63.75 42.00
06215	EUR 63.75 42.00
08202	EUR 88.58 54.00
08210	EUR 92.71 55.20
08215	EUR 92.71 55.20
08220	EUR 92.71 55.20
10202	EUR 112.88 76.80
10210	EUR 115.38 78.00
10215	EUR 115.38 78.00
10216	EUR 115.38 78.00
10220	EUR 115.38 78.00
12202	EUR 133.28 90.00
12210	EUR 136.68 92.40
12215	EUR 136.68 92.40
12216	EUR 136.68 92.40
12220	EUR 136.68 92.40
12230	EUR 136.68 92.40
16202	EUR 275.38 186.00
16210	EUR 278.18 188.40
16215	EUR 278.18 188.40
16216	EUR 278.18 188.40
16220	EUR 278.18 188.40
16230	EUR 278.18 188.40
16240	EUR 278.18 188.40
20202	EUR 385.48 261.60
20210	EUR 389.78 264.00
20215	EUR 389.78 264.00
20216	EUR 389.78 264.00
20220	EUR 389.78 264.00
20230	EUR 389.78 264.00
20240	EUR 389.78 264.00

P	●
M	○
K	●
N	○
S	○
H	
O	

Trochoidal milling

When programming the various CAM systems different information is required.



Features & benefits of trochoidal milling

- ▲ reduced tool wear
- ▲ higher material removal rate than HPC machining possible
- ▲ spindle and machine-friendly
- ▲ suitable for low-power machines
- ▲ suitable for thin-walled components and unstable workpiece clamping

Calculation of the average chip thickness

$$h_m \approx f_z \sqrt{\frac{a_e}{DC}}$$

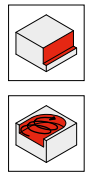
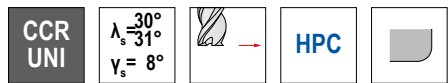
$$f_z \approx h_m \sqrt{\frac{DC}{a_e}}$$

- $a_{e\max}$ = maximum lateral infeed (depending on the material to be machined)
- f_z = maximum feed per tooth
- h_m = average chip thickness
- DC = tool diameter

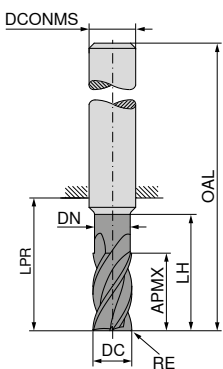
CircularLine – End milling cutter with corner radius

The specialist for trochoidal machining

- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 2 x DC



Performance



Factory standard

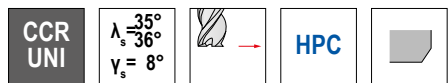
DC _{es}	OAL	RE _{±0.05}	APMX	DN	LH	LPR	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
6	57	1.0	13	5.8	19	21	6	6
6	57	0.2	13	5.8	19	21	6	6
6	57	1.5	13	5.8	19	21	6	6
8	63	1.5	21	7.7	25	27	8	6
8	63	0.2	21	7.7	25	27	8	6
8	63	1.0	21	7.7	25	27	8	6
8	63	2.0	21	7.7	25	27	8	6
10	72	1.5	22	9.7	30	32	10	6
10	72	0.2	22	9.7	30	32	10	6
10	72	1.0	22	9.7	30	32	10	6
10	72	1.6	22	9.7	30	32	10	6
10	72	2.0	22	9.7	30	32	10	6
12	83	1.5	26	11.6	36	38	12	6
12	83	0.2	26	11.6	36	38	12	6
12	83	1.0	26	11.6	36	38	12	6
12	83	1.6	26	11.6	36	38	12	6
12	83	2.0	26	11.6	36	38	12	6
12	83	3.0	26	11.6	36	38	12	6
16	92	4.0	36	15.5	42	44	16	6
16	92	0.2	36	15.5	42	44	16	6
16	92	1.0	36	15.5	42	44	16	6
16	92	1.5	36	15.5	42	44	16	6
16	92	1.6	36	15.5	42	44	16	6
16	92	2.0	36	15.5	42	44	16	6
16	92	3.0	36	15.5	42	44	16	6
20	104	1.6	41	19.5	52	54	20	6
20	104	0.2	41	19.5	52	54	20	6
20	104	1.0	41	19.5	52	54	20	6
20	104	1.5	41	19.5	52	54	20	6
20	104	2.0	41	19.5	52	54	20	6
20	104	3.0	41	19.5	52	54	20	6
20	104	4.0	41	19.5	52	54	20	6

P	●
M	○
K	●
N	○
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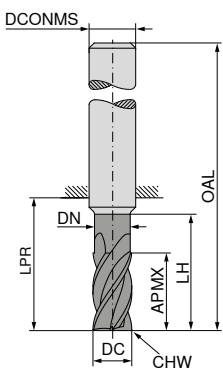
CircularLine – End milling cutter

The specialist for trochoidal machining

- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 4 x DC



Performance



Factory standard

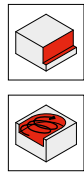
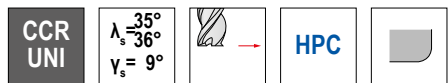
DC _{es}	OAL	APMX	DN	LH	LPR	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
6	67	25	5.8	29	31	6	0.2	5
8	76	33	7.7	38	40	8	0.2	5
10	89	41	9.7	47	49	10	0.2	5
12	102	49	11.6	55	57	12	0.2	5
16	123	65	15.5	73	75	16	0.2	5
20	143	82	19.5	91	93	20	0.2	5

P	●
M	○
K	●
N	○
S	○
H	
O	

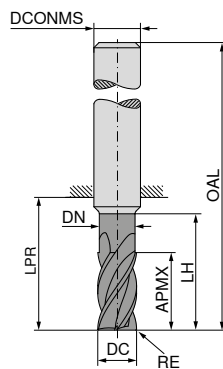
CircularLine – End milling cutter with corner radius

The specialist for trochoidal machining

- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 4 x DC



Performance

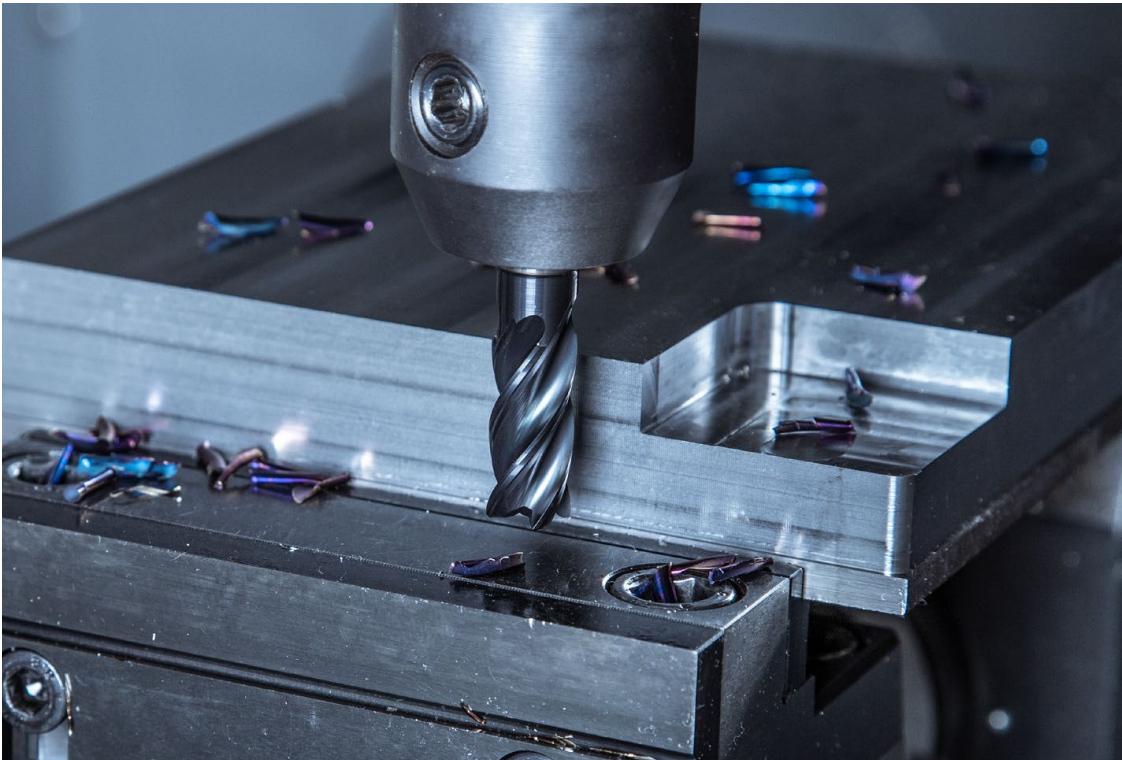


Factory standard

DC _{es}	OAL	RE _{±0.05}	APMX	DN	LH	LPR	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
6	67	1.5	25	5.8	29	31	6	5
6	67	1.0	25	5.8	29	31	6	5
6	67	0.2	25	5.8	29	31	6	5
8	76	1.5	33	7.7	38	40	8	5
8	76	1.0	33	7.7	38	40	8	5
8	76	2.0	33	7.7	38	40	8	5
8	76	0.2	33	7.7	38	40	8	5
10	89	1.5	41	9.7	47	49	10	5
10	89	1.0	41	9.7	47	49	10	5
10	89	1.6	41	9.7	47	49	10	5
10	89	2.0	41	9.7	47	49	10	5
10	89	0.2	41	9.7	47	49	10	5
12	102	1.0	49	11.6	55	57	12	5
12	102	1.5	49	11.6	55	57	12	5
12	102	1.6	49	11.6	55	57	12	5
12	102	2.0	49	11.6	55	57	12	5
12	102	3.0	49	11.6	55	57	12	5
12	102	0.2	49	11.6	55	57	12	5
16	123	1.6	65	15.5	73	75	16	5
16	123	1.0	65	15.5	73	75	16	5
16	123	1.5	65	15.5	73	75	16	5
16	123	2.0	65	15.5	73	75	16	5
16	123	3.0	65	15.5	73	75	16	5
16	123	4.0	65	15.5	73	75	16	5
16	123	0.2	65	15.5	73	75	16	5
20	143	2.0	82	19.5	91	93	20	5
20	143	1.0	82	19.5	91	93	20	5
20	143	1.5	82	19.5	91	93	20	5
20	143	3.0	82	19.5	91	93	20	5
20	143	4.0	82	19.5	91	93	20	5
20	143	0.2	82	19.5	91	93	20	5

P	●
M	○
K	●
N	○
S	○
H	
O	





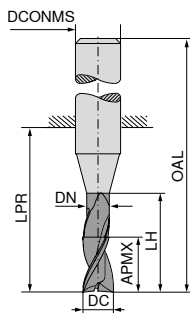
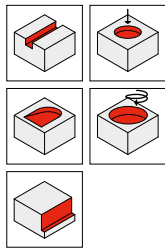
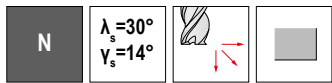
NEW

Ti 1000
CoreLine

- ▲ 2 Flute
- ▲ 3 Flute
- ▲ 4 Flute
- ▲ 5 Flute
- ▲ 6 Flute
- ▲ HA / HB shanks
- ▲ more flute, shank and length options



End milling cutter



NEW
Ti1000



NEW
Ti1000



NEW
Ti1000



NEW
Ti1000



NEW
Ti1000



Factory standard



Factory standard



Factory standard



Factory standard



Factory standard

DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	mm	mm	mm	
0,5	1,5			10	38	3	2
0,6	1,5			10	38	3	2
0,7	2,0			10	38	3	2
0,8	2,0			10	38	3	2
0,9	2,5			10	38	3	2
1,0	3,0			10	38	3	2
1,0	4,0	0,9	6	22	58	6	2
1,1	3,0			10	38	3	2
1,2	4,0			10	38	3	2
1,3	4,0			10	38	3	2
1,4	4,0			10	38	3	2
1,5	4,0			10	38	3	2
1,5	3,0	1,4	6	18	54	6	2
1,5	6,0	1,4	8	22	58	6	2
1,6	4,0			10	38	3	2
1,8	5,0			10	38	3	2
2,0	5,0			10	38	3	2
2,0	4,0	1,9	8	18	54	6	2
2,0	7,0	1,9	10	22	58	6	2
2,5	6,0			10	38	3	2
2,5	4,0	2,4	8	18	54	6	2
3,0	6,0			10	38	3	2
3,0	6,0	2,9	9	18	54	6	2
3,0	10,0	2,9	14	22	58	6	2
3,0	20,0	2,9	24	32	60	3	2
3,5	6,0	3,3	9	18	54	6	2
4,0	7,0	3,8	12	18	54	6	2
4,0	13,0	3,8	18	22	58	6	2
4,0	30,0	3,8	35	47	75	4	2
4,5	7,0	4,3	12	18	54	6	2
5,0	8,0	4,8	16	18	54	6	2
5,0	15,0	4,8	18	22	58	6	2
5,0	30,0	4,8	35	47	75	5	2
6,0	10,0	5,8	16	18	54	6	2
6,0	16,0	5,8	20	22	58	6	2
6,0	40,0	5,8	60	64	100	6	2
8,0	12,0	7,7	20	23	59	8	2
8,0	22,0	7,7	25	34	70	8	2
8,0	40,0	7,7	60	64	100	8	2
10,0	13,0	9,7	24	27	67	10	2
10,0	25,0	9,7	30	33	73	10	2
10,0	40,0	9,7	55	60	100	10	2
12,0	16,0	11,6	26	28	73	12	2
12,0	26,0	11,6	35	39	84	12	2
12,0	45,0	11,6	50	55	100	12	2

54 069 ... PG V3/5C
EUR EUR

95000	13,00	10,80
96000	13,00	10,80
97000	13,00	10,80
98000	13,00	10,80
99000	13,00	10,80
31000	13,00	10,80
31100	13,00	10,80
31200	13,00	10,80
31300	13,00	10,80
31400	13,00	10,80
31500	13,00	10,80
01500	13,00	10,80
31600	13,00	10,80
31800	13,00	10,80
32000	13,00	10,80
02000	13,00	10,80
32500	13,00	10,80
02500	13,00	10,80
33000	13,00	10,80
03000	13,00	10,80
03500	13,00	10,80
04000	13,00	10,80
04500	13,00	10,80
05000	13,00	10,80
06000	13,00	10,80
08000	17,50	15,60
10000	22,50	20,40
12000	30,00	27,60

54 079 ... PG V3/5C
EUR EUR

03000	13,00	10,80
04000	13,00	10,80
05000	13,00	10,80
06000	13,00	10,80
08000	17,50	15,60
10000	22,50	20,40
12000	30,00	27,60

54 080 ... PG V3/5C
EUR EUR

01000	13,00	10,80
01500	13,00	10,80
02000	13,00	10,80
03000	13,00	10,80
04000	13,00	10,80
05000	13,00	10,80
06000	13,00	10,80
08000	17,50	15,60
10000	22,50	20,40
12000	30,00	27,60

54 081 ... PG V3/5C
EUR EUR

03000	13,00	10,80
04000	13,00	10,80
05000	13,00	10,80
06000	13,00	10,80
08000	17,50	15,60
10000	22,50	20,40
12000	30,00	27,60

54 082 ... PG V3/5C
EUR EUR

33000	23,00	21,60
44000	23,00	21,60
55000	23,00	21,60
06000	23,00	21,60
08000	32,00	28,80
10000	41,00	37,20
12000	57,00	51,60

P	●	●	●	●	●
M	○	○	○	○	○
K	●	●	●	●	●
N	○	○	○	○	○
S	○	○	○	○	○
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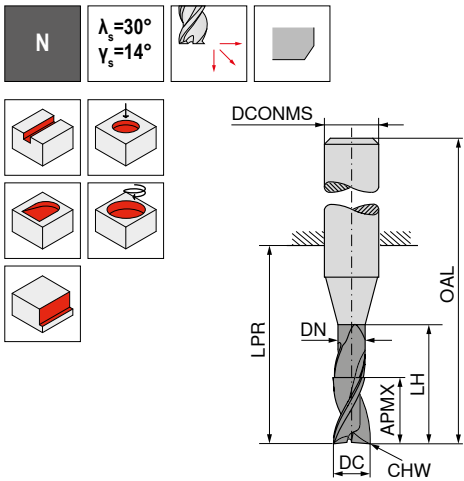
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End milling cutter



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Factory standard



Factory standard



Factory standard



Factory standard



Factory standard



DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
0,5	1,5			10	38	3	0,04	2
0,6	1,5			10	38	3	0,04	2
0,7	2,0			10	38	3	0,04	2
0,8	2,0			10	38	3	0,04	2
0,9	2,5			10	38	3	0,04	2
1,0	3,0			10	38	3	0,04	2
1,0	4,0	0,9	6	22	58	6	0,04	2
1,1	3,0			10	38	3	0,04	2
1,2	4,0			10	38	3	0,04	2
1,3	4,0			10	38	3	0,04	2
1,4	4,0			10	38	3	0,04	2
1,5	4,0			10	38	3	0,04	2
1,5	3,0	1,4	6	18	54	6	0,04	2
1,5	6,0	1,4	8	22	58	6	0,04	2
1,6	4,0			10	38	3	0,04	2
1,8	5,0			10	38	3	0,04	2
2,0	5,0			10	38	3	0,04	2
2,0	6,0			10	38	2	0,04	2
2,0	4,0	1,9	8	18	54	6	0,04	2
2,5	6,0			10	38	3	0,07	2
2,5	4,0	2,4	8	18	54	6	0,07	2
3,0	6,0			10	38	3	0,07	2
3,0	7,0			10	38	3	0,07	2
3,0	6,0	2,9	9	18	54	6	0,07	2
3,0	10,0	2,9	14	22	58	6	0,07	2
3,0	20,0	2,9	24	32	60	3	0,07	2
3,5	6,0	3,3	9	18	54	6	0,07	2
4,0	8,0	3,8	20	22	50	4	0,07	2
4,0	7,0	3,8	12	18	54	6	0,07	2
4,0	13,0	3,8	18	22	58	6	0,07	2
4,0	30,0	3,8	35	47	75	4	0,07	2
4,5	7,0	4,3	12	18	54	6	0,12	2
5,0	10,0	4,8	20	22	50	5	0,12	2
5,0	8,0	4,8	16	18	54	6	0,12	2
5,0	15,0	4,8	18	22	58	6	0,12	2
5,0	30,0	4,8	35	47	75	5	0,12	2
6,0	10,0	5,8	16	18	54	6	0,12	2
6,0	16,0	5,8	20	22	58	6	0,12	2
6,0	40,0	5,8	60	64	100	6	0,12	2
8,0	12,0	7,7	20	23	59	8	0,12	2
8,0	22,0	7,7	25	34	70	8	0,12	2
8,0	40,0	7,7	60	64	100	8	0,12	2
10,0	13,0	9,7	24	27	67	10	0,20	2
10,0	25,0	9,7	30	33	73	10	0,20	2
10,0	40,0	9,7	55	60	100	10	0,20	2
12,0	16,0	11,6	26	28	73	12	0,20	2
12,0	26,0	11,6	35	39	84	12	0,20	2
12,0	45,0	11,6	50	55	100	12	0,20	2

54 083 ... PG V3/5C

EUR	EUR
95000	13,00 10,80
96000	13,00 10,80
97000	13,00 10,80
98000	13,00 10,80
99000	13,00 10,80
31000	13,00 10,80
31100	13,00 10,80
31200	13,00 10,80
31300	13,00 10,80
31400	13,00 10,80
31500	13,00 10,80
01500	13,00 10,80
31600	13,00 10,80
31800	13,00 10,80
32000	13,00 10,80
02000	13,00 10,80
32500	13,00 10,80
02500	13,00 10,80
33000	13,00 10,80
03000	13,00 10,80
03500	13,00 10,80
04000	13,00 10,80
04500	13,00 10,80
05000	13,00 10,80
06000	13,00 10,80
08000	17,50 15,60
10000	22,50 20,40
12000	30,00 27,60

54 084 ... PG V3/5C

EUR	EUR
03000	13,00 10,80
04000	13,00 10,80
05000	13,00 10,80
06000	13,00 10,80
08000	17,50 15,60
10000	22,50 20,40
12000	30,00 27,60

54 085 ... PG V3/5C

EUR	EUR
01000	13,00 10,80
01500	13,00 10,80
22000	13,00 10,80
33000	13,00 10,80
44000	13,00 10,80
55000	13,00 10,80
06000	13,00 10,80
08000	17,50 15,60
10000	22,50 20,40
12000	30,00 27,60

54 086 ... PG V3/5C

EUR	EUR
03000	13,00 10,80
04000	13,00 10,80
05000	13,00 10,80
06000	13,00 10,80
08000	17,50 15,60
10000	22,50 20,40
12000	30,00 27,60

54 087 ... PG V3/5C

EUR	EUR
33000	23,00 21,60
44000	23,00 21,60
55000	23,00 21,60
06000	23,00 21,60
08000	32,00 28,80
10000	41,00 37,20
12000	57,00 51,60

P	●	●	●	●	●
M	○	○	○	○	○
K	●	●	●	●	●
N	○	○	○	○	○
S	○	○	○	○	○
H					
O					

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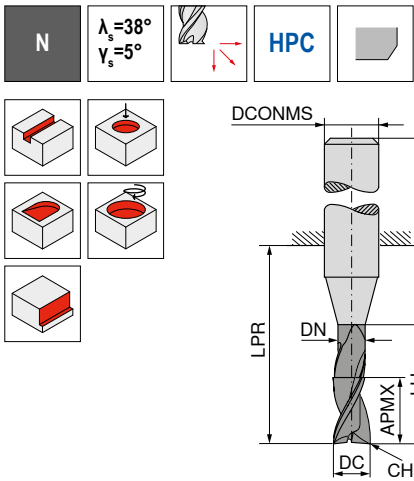


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End milling cutter

▲ Cutting edges with irregular pitch

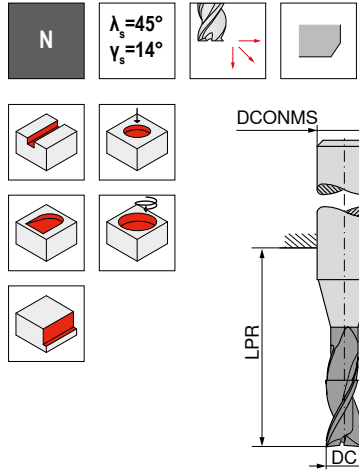


DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
2,0	4	1,9	8	18	54	6	0,04	3
2,0	7	1,9	10	22	58	6	0,04	3
2,5	5	2,4	8	18	54	6	0,07	3
3,0	6	2,9	9	18	54	6	0,07	3
3,0	10	2,9	14	22	58	6	0,07	3
4,0	7	3,8	12	18	54	6	0,07	3
4,0	13	3,8	17	22	58	6	0,07	3
5,0	8	4,8	16	18	54	6	0,12	3
5,0	15	4,8	19	22	58	6	0,07	3
6,0	10	5,8	16	18	54	6	0,12	3
6,0	16	5,8	20	22	58	6	0,12	3
8,0	12	7,7	20	23	59	8	0,12	3
8,0	22	7,7	26	34	70	8	0,12	3
10,0	14	9,7	24	27	67	10	0,20	3
10,0	25	9,7	31	33	73	10	0,20	3
12,0	16	11,6	26	28	73	12	0,20	3
12,0	28	11,6	37	39	84	12	0,20	3

P	●	●	●	●
M	○	○	○	○
K	●	●	●	●
N	○	○	○	○
S	○	○	○	○
H				
O				

NEW	NEW	NEW	NEW
Ti1000	Ti1000	Ti1000	Ti1000
Factory standard	Factory standard	Factory standard	Factory standard
54 088 ... PG V3/5C	54 089 ... PG V3/5C	54 090 ... PG V3/5C	54 091 ... PG V3/5C
EUR	EUR	EUR	EUR
02000	02000	02000	02000
02500	02500	02500	02500
03000	03000	03000	03000
04000	04000	04000	04000
05000	05000	05000	05000
06000	06000	06000	06000
08000	08000	08000	08000
10000	10000	10000	10000
12000	12000	12000	12000

End milling cutter



DC _{h10}	APMX	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	
3,0	15	23	59	6	0,15	3
3,5	15	23	59	6	0,15	3
4,0	19	27	63	6	0,15	3
4,5	19	27	63	6	0,15	3
5,0	24	32	68	6	0,15	3
5,5	24	32	68	6	0,15	3
6,0	24	32	68	6	0,15	3
6,5	30	44	80	8	0,15	3
7,0	30	44	80	8	0,15	3
8,0	38	52	88	8	0,15	3
10,0	45	55	95	10	0,15	3
12,0	53	65	110	12	0,15	3
16,0	63	75	123	16	0,15	3
20,0	75	91	141	20	0,15	3

P	●
M	○
K	●
N	○
S	
H	
O	

NEW
Ti1000
Factory standard
54 092 ... PG V3/5C
EUR
03000
03500
04000
04500
05000
05500
06000
06500
07000
08000
10000
12000
16000
20000

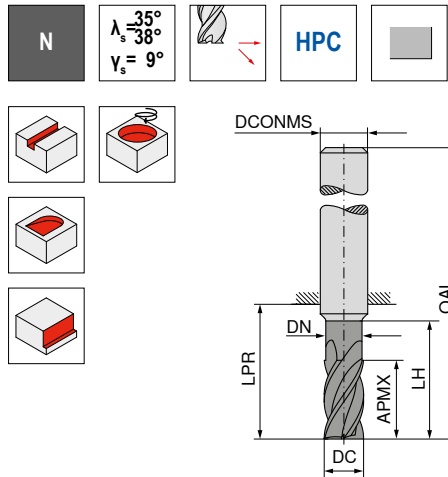


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End milling cutter



DC h10 mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS h6 mm	ZEFP
3	5			14	50	6	4
3	8	2,8	13	21	57	6	4
3	8	2,8	15	22	69	6	4
4	8			18	54	6	4
4	11	3,8	17	21	57	6	4
4	11	3,8	20	26	69	6	4
5	9			18	54	6	4
5	13	4,8	19	21	57	6	4
5	13	4,8	25	34	69	6	4
6	10			18	54	6	4
6	13	5,8	19	21	57	6	4
6	13	5,8	30	34	69	6	4
8	12			22	58	8	4
8	19	7,7	25	27	63	8	4
8	17	7,7	40	44	79	8	4
10	14			26	66	10	4
10	22	9,7	30	32	72	10	4
10	21	9,7	50	54	93	10	4
12	16			28	73	12	4
12	26	11,6	36	38	83	12	4
12	25	11,6	60	64	108	12	4
16	22			34	82	16	4
16	32	15,5	42	44	92	16	4
16	33	15,5	80	84	132	16	4
20	26			42	92	20	4
20	38	19,5	52	54	104	20	4
20	42	19,5	100	104	154	20	4

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

	Ti1000	Ti1000	Ti1000
			
			
	≈DIN 6527	≈DIN 6527	≈DIN 6527
			
54 070 ...	PG V3/5C	PG V3/5C	PG V3/5C
	EUR	EUR	EUR
03100	18,70	10,80	
04100	18,70	10,80	
05100	18,70	10,80	
06100	18,70	10,80	
08100	26,33	16,80	
10100	34,18	20,40	
12100	43,16	31,20	
16100	66,11	54,00	
20100	128,00	81,60	
03200	18,70	10,80	
04200	18,70	10,80	
05200	18,70	10,80	
06200	21,96	13,20	
08200	28,26	16,80	
10200	37,22	24,00	
12200	50,96	37,20	
16200	90,95	57,60	
20200	137,90	87,60	
03400	26,44	16,80	
04400	26,44	16,80	
05400	29,73	18,00	
06400	33,22	20,40	
08400	42,15	26,40	
10400	58,69	37,20	
12400	72,35	45,60	
16400	136,59	86,40	
20400	197,39	118,80	



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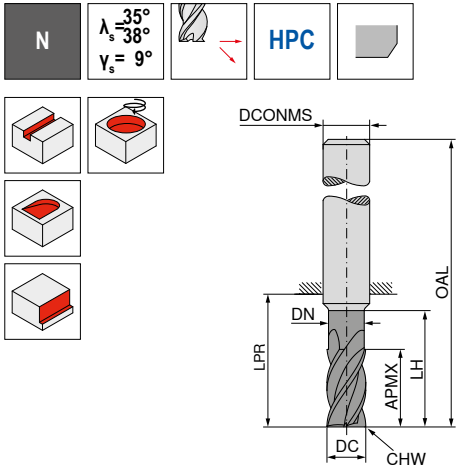
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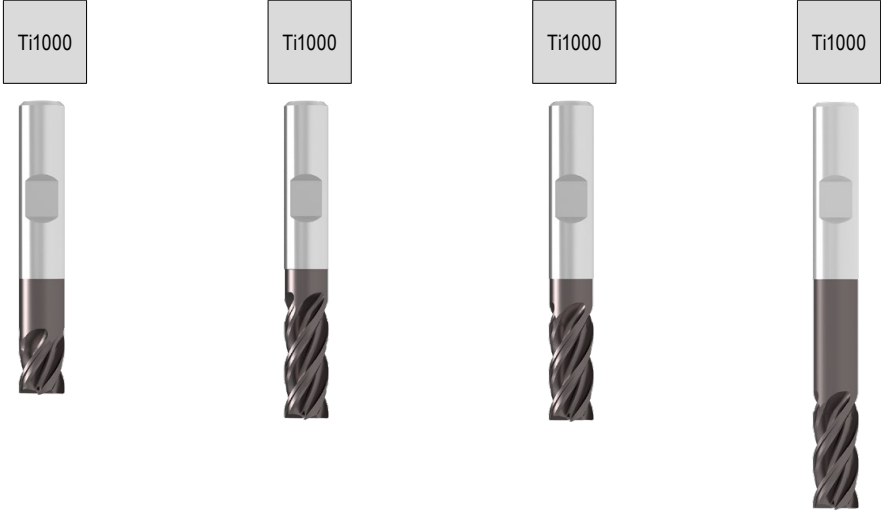


End milling cutter



DC h10	APMX	DN	LH	LPR	OAL	DCONMS h6	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
3	5			14	50	6	0,1	4
3	8	2,8	13	21	57	6	0,1	4
3	8	2,8	15	22	69	6	0,1	4
4	8			18	54	6	0,1	4
4	11	3,8	17	21	57	6	0,1	4
4	11	3,8	20	26	69	6	0,1	4
5	9			18	54	6	0,1	4
5	13	4,8	19	21	57	6	0,1	4
5	13	4,8	25	34	69	6	0,1	4
6	10			18	54	6	0,1	4
6	13	5,8	21	21	57	6	0,1	4
6	13	5,8	19	21	57	6	0,1	4
6	13	5,8	30	34	69	6	0,1	4
8	12			22	58	8	0,2	4
8	21	7,7	27	27	63	8	0,2	4
8	21	7,7	25	27	63	8	0,2	4
8	17	7,7	40	44	79	8	0,2	4
10	14			26	66	10	0,2	4
10	22	9,7	32	32	72	10	0,2	4
10	22	9,7	30	32	72	10	0,2	4
10	21	9,7	50	54	93	10	0,2	4
12	16			28	73	12	0,3	4
12	26	11,6	36	38	83	12	0,3	4
12	26	11,6	38	38	83	12	0,3	4
12	25	11,6	60	64	108	12	0,3	4
14	26	13,6	38	38	83	14	0,3	4
16	22			34	82	16	0,3	4
16	36	15,5	44	44	92	16	0,3	4
16	36	15,5	42	44	92	16	0,3	4
16	33	15,5	80	84	132	16	0,3	4
18	36	17,5	44	44	92	18	0,3	4
20	26			42	92	20	0,3	4
20	41	19,5	52	54	104	20	0,3	4
20	41	19,5	54	54	104	20	0,3	4
20	42	19,5	100	104	154	20	0,3	4

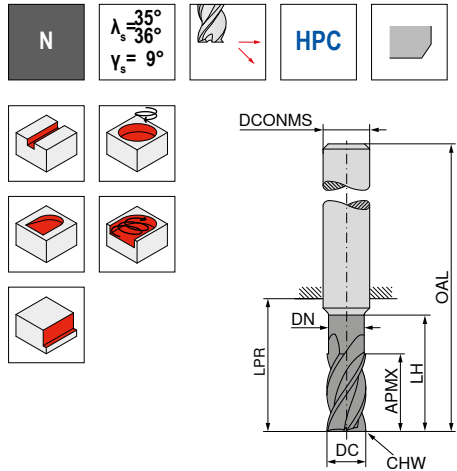
P	•	•	•	•
M	•	•	•	○
K	•	•	•	•
N	○	○	○	○
S	○	○	○	○
H				
O				



54 071 ...	PG V3/5C	EUR	EUR	54 071 ...	PG V3/5C	EUR	EUR	54 071 ...	PG V3/5C	EUR	EUR	54 071 ...	PG V3/5C	EUR	EUR
03100		18,70	10,80					03200		18,70	10,80				
04100		18,70	10,80					04200		18,70	10,80	03400		26,44	16,80
05100		18,70	10,80					05200		18,70	10,80	04400		26,44	16,80
06100		18,70	10,80					06200		18,70	10,80	05400		29,73	18,00
08100		26,44	16,80	06300		21,99	13,20	06200		21,99	13,20	06400		33,22	20,40
10100		34,31	20,40	08300		28,39	16,80	08200		28,39	16,80	08400		42,16	26,40
12100		49,29	31,20	10300		37,22	22,80	10200		37,22	24,00	10400		58,69	37,20
16100		86,24	54,00	12300		59,18	37,20	12200		59,18	37,20	12400		72,35	45,60
20100		128,00	81,60	14300		88,70	51,60	16300		91,30	57,60	16200		91,30	57,60
				16300		91,30	57,60	18300		121,10	76,80	20200		137,80	87,60
				20300		137,80	86,40	20300		137,80	86,40	20400		187,30	118,80

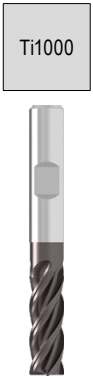
End milling cutter

▲ Cutting depth: 3 x DC

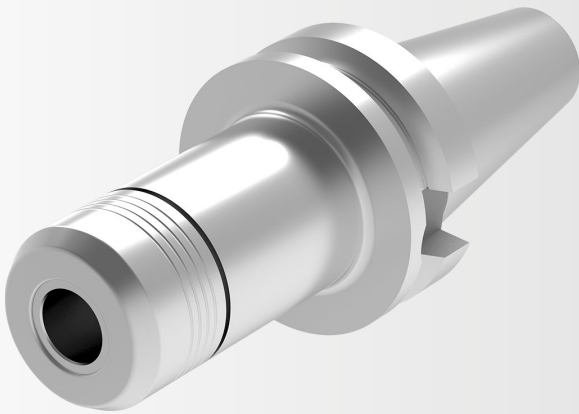


DC h8	APMX	DN	LH	LPR	OAL	DCONMS h6	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
6	19	5,8	24	26	62	6	0,1	4
8	25	7,7	30	32	68	8	0,2	4
10	31	9,7	38	40	80	10	0,2	4
12	37	11,6	46	48	93	12	0,2	4
16	49	15,5	58	60	108	16	0,3	4
20	61	19,5	74	76	126	20	0,3	4

P	•
M	•
K	•
N	○
S	○
H	
O	



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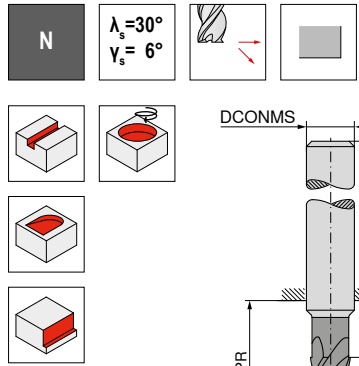


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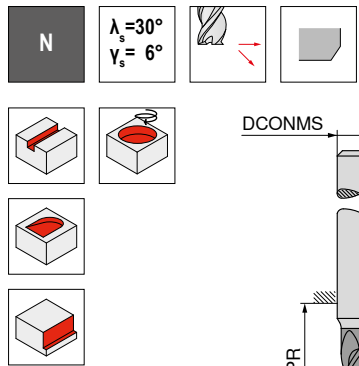
End milling cutter



DC _{h10}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	mm	
2,0	8	8	32	2,0	4
2,5	8	8	32	2,5	4
3,0	12	12	32	3,0	4
3,0	30	32	60	3,0	4
3,5	12	12	32	3,5	4
4,0	12	12	40	4,0	4
4,0	30	47	75	4,0	4
4,5	14	22	50	4,5	4
5,0	14	22	50	5,0	4
5,0	35	47	75	5,0	4
5,5	16	22	50	5,5	4
6,0	14	14	50	6,0	4
6,0	40	64	100	6,0	4
8,0	40	64	100	8,0	4
10,0	40	60	100	10,0	4
12,0	45	55	100	12,0	4
14,0	45	55	100	14,0	4
16,0	75	102	150	16,0	4

P	●	●
M	○	○
K	●	●
N	○	○
S	○	○
H		
O		

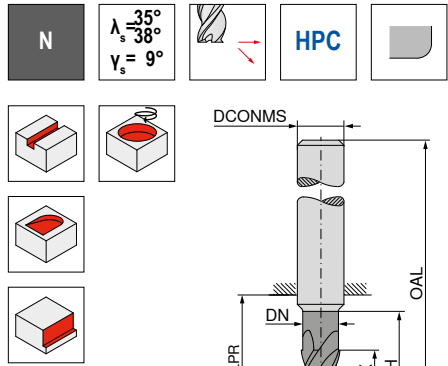
End milling cutter



DC _{h10}	APMX	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	
2,0	8	8	32	2,0	0,04	4
2,5	8	8	32	2,5	0,04	4
3,0	12	12	32	3,0	0,07	4
3,5	12	12	32	3,5	0,07	4
4,0	12	12	40	4,0	0,07	4
4,5	14	22	50	4,5	0,07	4
5,0	14	22	50	5,0	0,12	4
5,5	16	22	50	5,5	0,12	4
6,0	14	14	50	6,0	0,12	4

P	●	●
M	○	○
K	●	●
N	○	○
S	○	○
H		
O		

End milling cutter with corner radius



DC _{h10}	RE	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP
mm	±0,05 mm	mm	mm	mm	mm	mm	mm	
3	0,1	8	2,8	13	21	57	6	4
3	0,3	8	2,8	13	21	57	6	4
3	0,5	8	2,8	13	21	57	6	4
3	1,0	8	2,8	13	21	57	6	4
3	0,5	8	2,8	15	22	69	6	4
3	0,3	8	2,8	15	22	69	6	4
3	1,0	8	2,8	15	22	69	6	4
4	0,1	11	3,8	17	21	57	6	4
4	0,3	11	3,8	17	21	57	6	4
4	0,5	11	3,8	17	21	57	6	4
4	1,0	11	3,8	17	21	57	6	4
4	0,5	11	3,8	20	26	69	6	4
4	0,3	11	3,8	20	26	69	6	4
4	1,0	11	3,8	20	26	69	6	4
5	0,5	13	4,8	19	21	57	6	4
5	0,1	13	4,8	19	21	57	6	4
5	0,3	13	4,8	19	21	57	6	4
5	1,0	13	4,8	19	21	57	6	4
5	0,5	13	4,8	25	34	69	6	4
5	0,3	13	4,8	25	34	69	6	4
5	1,0	13	4,8	25	34	69	6	4
6	0,3	13	5,8	19	21	57	6	4
6	0,1	13	5,8	19	21	57	6	4
6	0,5	13	5,8	19	21	57	6	4
6	1,0	13	5,8	19	21	57	6	4
6	1,5	13	5,8	19	21	57	6	4
6	2,0	13	5,8	19	21	57	6	4
6	1,0	13	5,8	30	34	69	6	4
6	0,3	13	5,8	30	34	69	6	4
6	0,5	13	5,8	30	34	69	6	4
6	1,5	13	5,8	30	34	69	6	4
6	2,0	13	5,8	30	34	69	6	4
8	0,1	21	7,7	25	27	63	8	4
8	0,3	21	7,7	25	27	63	8	4
8	0,5	21	7,7	25	27	63	8	4
8	1,0	21	7,7	25	27	63	8	4
8	1,5	21	7,7	25	27	63	8	4
8	2,0	21	7,7	25	27	63	8	4
8	1,0	17	7,7	40	44	79	8	4
8	0,3	17	7,7	40	44	79	8	4
8	0,5	17	7,7	40	44	79	8	4
8	1,5	17	7,7	40	44	79	8	4
8	2,0	17	7,7	40	44	79	8	4
10	1,0	22	9,7	30	32	72	10	4
10	0,1	22	9,7	30	32	72	10	4
10	0,3	22	9,7	30	32	72	10	4
10	0,5	22	9,7	30	32	72	10	4
10	1,5	22	9,7	30	32	72	10	4
10	2,0	22	9,7	30	32	72	10	4
10	1,0	21	9,7	50	54	93	10	4
10	0,3	21	9,7	50	54	93	10	4
10	0,5	21	9,7	50	54	93	10	4
10	1,5	21	9,7	50	54	93	10	4
10	2,0	21	9,7	50	54	93	10	4
12	0,5	26	11,6	36	38	83	12	4
12	0,1	26	11,6	36	38	83	12	4
12	0,3	26	11,6	36	38	83	12	4
12	1,0	26	11,6	36	38	83	12	4
12	1,5	26	11,6	36	38	83	12	4
12	2,0	26	11,6	36	38	83	12	4
12	3,0	26	11,6	36	38	83	12	4
12	1,5	25	11,6	60	64	108	12	4
12	0,3	25	11,6	60	64	108	12	4
12	0,5	25	11,6	60	64	108	12	4
12	1,0	25	11,6	60	64	108	12	4
12	2,0	25	11,6	60	64	108	12	4
12	3,0	25	11,6	60	64	108	12	4
16	0,3	36	15,5	42	44	92	16	4
16	0,1	36	15,5	42	44	92	16	4
16	0,5	36	15,5	42	44	92	16	4
16	1,0	36	15,5	42	44	92	16	4
16	1,5	36	15,5	42	44	92	16	4
16	2,0	36	15,5	42	44	92	16	4
16	3,0	36	15,5	42	44	92	16	4
16	4,0	36	15,5	42	44	92	16	4
16	1,5	33	15,5	80	84	132	16	4
16	0,3	33	15,5	80	84	132	16	4
16	0,5	33	15,5	80	84	132	16	4
16	1,0	33	15,5	80	84	132	16	4
16	2,0	33	15,5	80	84	132	16	4
16	3,0	33	15,5	80	84	132	16	4
16	4,0	33	15,5	80	84	132	16	4
20	0,1	41	19,5	52	54	104	20	4
20	0,3	41	19,5	52	54	104	20	4
20	0,5	41	19,5	52	54	104	20	4
20	1,0	41	19,5	52	54	104	20	4
20	1,5	41	19,5	52	54	104	20	4
20	2,0	41	19,5	52	54	104	20	4
20	3,0	41	19,5	52	54	104	20	4
20	4,0	41	19,5	52	54	104	20	4
20	4,0	42	19,5	100	104	154	20	4
20	0,3	42	19,5	100	104	154	20	4
20	0,5	42	19,5	100	104	154	20	4
20	1,0	42	19,5	100	104	154	20	4
20	1,5	42	19,5	100	104	154	20	4
20	2,0	42	19,5	100	104	154	20	4
20	3,0	42	19,5	100	104	154	20	4

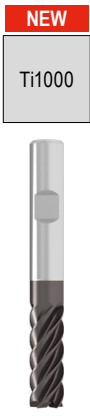
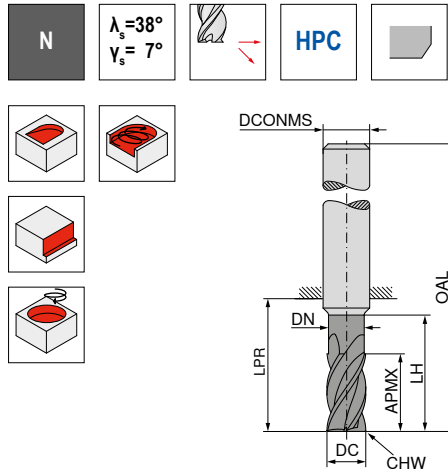
P	●	●
M	○	○
K	●	●
N	○	○
S	○	○
H		
O		



End milling cutter

Optimised for trochoidal machining

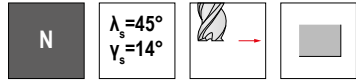
- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 3 x DC
- ▲ Cutting edges with irregular pitch



DC _{es} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP
6	18	5,8	24	26	62	6	0,1	5
8	24	7,7	30	32	68	8	0,2	5
10	30	9,7	38	40	80	10	0,2	5
12	36	11,6	46	48	93	12	0,3	5
16	48	15,5	58	60	108	16	0,3	5
20	60	19,5	74	76	126	20	0,3	5

P	●
M	○
K	●
N	○
S	○
H	○
O	○

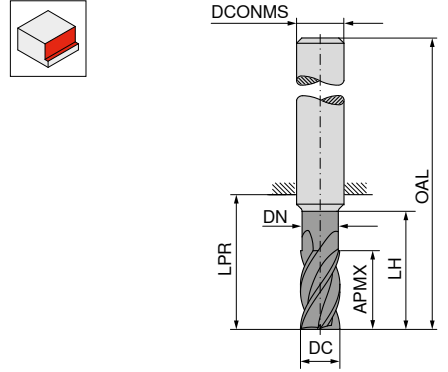
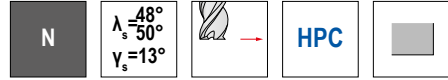
Finish milling cutter



DC _{h10} mm	APMX mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
4	16	26	62	6	6
5	18	26	62	6	6
6	18	26	62	6	6
8	24	32	68	8	6
10	30	40	80	10	6
12	36	48	93	12	6
16	48	60	108	16	6
20	60	76	126	20	8

P	●
M	○
K	●
N	○
S	○
H	○
O	○

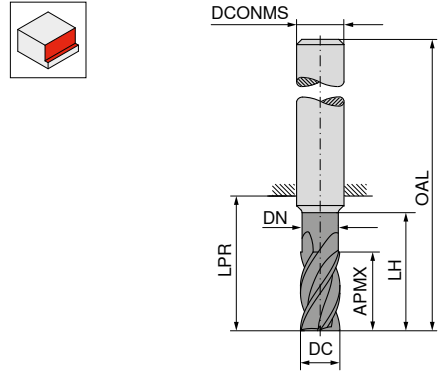
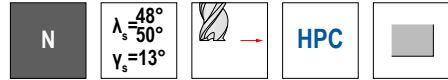
Finish milling cutter



DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
6	13	5,6	19	21	57	6	6
8	19	7,6	25	27	63	8	6
10	22	9,6	30	32	72	10	6
12	26	11,5	36	38	83	12	6
16	32	15,0	42	44	92	16	6
20	38	19,0	52	54	104	20	6

P	●
M	○
K	○
N	○
S	○
H	○
O	○

Finish milling cutter



DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
6	15	5,6	42	44	80	6	6
8	20	7,6	62	64	100	8	6
10	25	9,6	58	60	100	10	6
12	30	11,5	73	75	120	12	6
16	40	15,0	100	102	150	16	6
20	50	19,0	98	100	150	20	6

P	●
M	○
K	○
N	○
S	○
H	○
O	○

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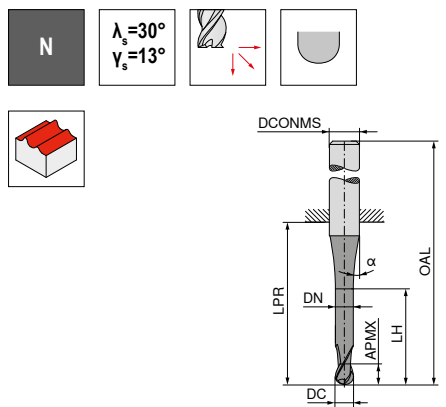
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Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm

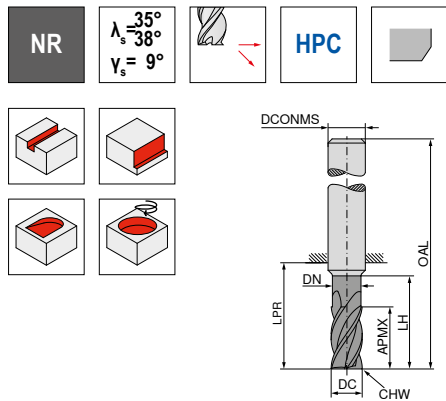


DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	α°	ZEFP
mm	mm	mm	mm	mm	mm	mm		
3	5	2,9	9	14	50	6	15	2
4	8	3,9	12	18	54	6	45	2
5	9	4,9	15	18	54	6	45	2
6	10	5,9	17	18	54	6	45	2
8	12	7,8	20	22	58	8	45	2
10	14	9,8	26	26	66	10	45	2
12	16	11,8	28	28	73	12	45	2
16	22	15,7	32	34	82	16	45	2
20	26	19,7	40	42	92	20	45	2

P	●
M	○
K	●
N	●
S	○
H	
O	

Rough milling cutter

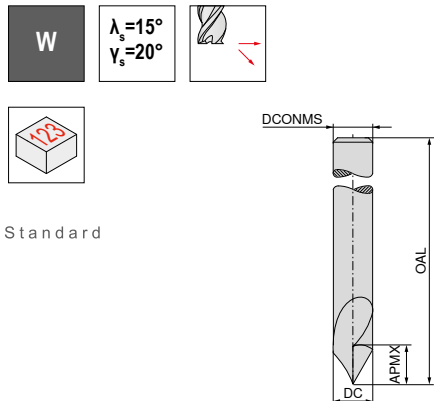
▲ With roughing profile



DC _{d11}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
3	8	2,8	13	21	57	6	0,1	4
4	11	3,8	17	21	57	6	0,1	4
5	13	4,8	19	21	57	6	0,1	4
6	13	5,8	19	21	57	6	0,1	4
8	21	7,7	25	27	63	8	0,2	4
10	22	9,7	30	32	72	10	0,2	4
12	26	11,6	36	38	83	12	0,3	4
16	36	15,5	42	44	92	16	0,3	4
20	41	19,5	52	54	104	20	0,3	4

P	●
M	●
K	●
N	○
S	○
H	
O	

Engraving cutter 60°

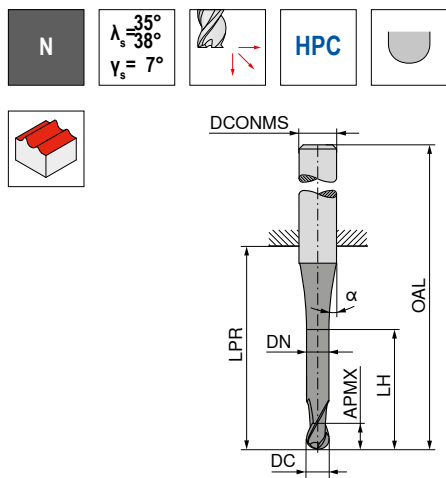


DC _{h6}	APMX	OAL	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	
3	15	50	3	1
4	18	50	4	1
6	20	54	6	1

P	○
M	○
K	○
N	○
S	○
H	○
O	●

Ball Nosed Cutter

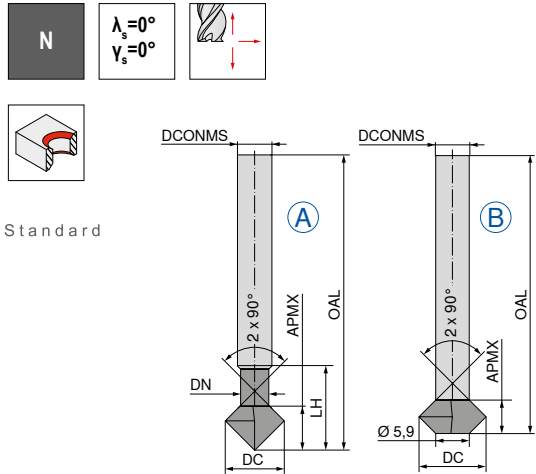
▲ Radius accuracy: ± 0,01 mm



DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	α°	ZEFP
mm	mm	mm	mm	mm	mm	mm		
3	8			21	57	6	30	4
3	8	2,8	13	21	57	6	30	4
4	11			21	57	6	30	4
4	11	3,8	17	21	57	6	30	4
5	13			21	57	6	30	4
5	13	4,8	19	21	57	6	30	4
6	13			21	57	6	30	4
6	13	5,8	19	21	57	6	30	4
8	19			36	72	8	30	4
8	19	7,7	25	27	72	8	30	4
10	22			32	72	10	30	4
10	22	9,7	30	32	72	10	30	4
12	26			38	83	12	30	4
12	26	11,6	36	38	83	12	30	4
16	32			44	92	16	30	4
16	32	15,5	42	44	92	16	30	4
20	38			54	104	20	30	4
20	38	19,5	52	54	104	20	30	4

P	●
M	●
K	●
N	○
S	○
H	
O	

NC front and rear chamfer milling cutter



DC	APMX	DN	LH	OAL	DCONMS _{h6}	ZEFP	Fig.
mm	mm	mm	mm	mm	mm		
3	2,0	2,2	12,0	75	4	4	A
4	2,7	2,9	17,7	75	4	4	A
5	3,0	3,9	18,0	75	5	4	A
6	4,0	3,9	19,0	100	6	4	A
8	2,0			100	6	4	B
10	4,0			100	6	4	B
12	6,0			100	6	4	B

P	●
M	○
K	●
N	○
S	○
H	○
O	●



MILLING TOOLS WITH INDEXABLE INSERTS

SYSTEM



MaxiMill 491 – first choice indexable shoulder milling system with 8 edges.



MaxiMill C 211-11 – first choice indexable end milling system.



MaxiMill A 271-12 – first choice indexable face milling system also with high feed geometry option.



MaxiMill A HFC – first choice indexable high feed milling system.



MaxiMill 252 – New generation heavy duty button milling system.



MaxiMill 251 – first choice indexable button milling system.



WPS – first choice indexable chamfer milling cutter.

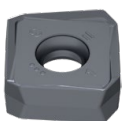


MaxiMill Slot-SX – New side and face milling cutters deliver maximum process security and optimum performance thanks to thro' coolant.

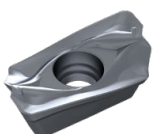


MaxiMill 242 – first choice chamfer milling system.

GRADES



CTPM240 – first choice for stainless steel and other corrosion resistant materials.



CTPP235 – first choice for steels with or without coolant.



CTWN215 – first choice for aluminium and other non ferrous materials.

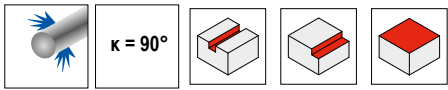


CTC5240 – first choice for titanium and heat resistant super alloys.

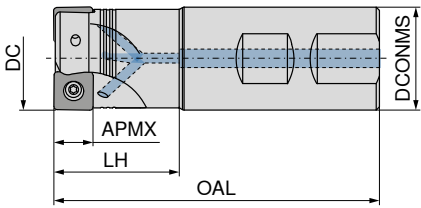


M1 – first choice chipbreaker for parting off.

MaxiMill – 491-09 End milling cutter



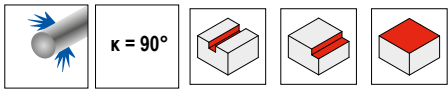
Performance



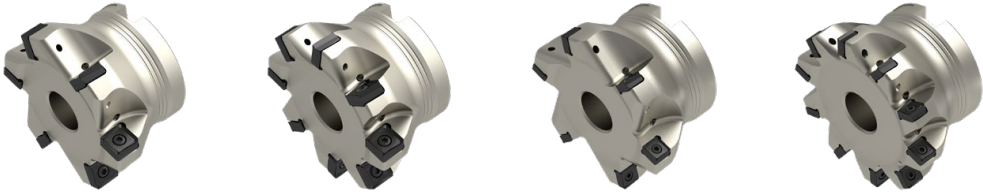
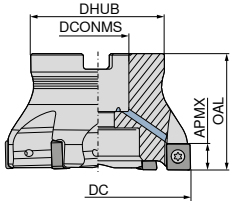
Designation	DC mm	OAL mm	LH mm	DCONMS _{h6} mm	APMX mm	Insert	ZNF
C491.25.R.03-09-B-32	25	89	32	25	6	SNHU 09T3	3
C491.25.R.03-09-A-50-225	25	225	50	25	6	SNHU 09T3	3
C491.32.R.03-09-B-40	32	101	40	32	6	SNHU 09T3	3
C491.32.R.04-09-B-40	32	101	40	32	6	SNHU 09T3	4
C491.32.R.03-09-A-63-250	32	250	63	32	6	SNHU 09T3	3
C491.32.R.04-09-A-63-250	32	250	63	32	6	SNHU 09T3	4

50 774 ...		PG 2B/40	50 774 ...		PG 2B/40
	EUR	EUR		EUR	EUR
325	454,00	76,80	425	454,00	76,80
			632	464,10	79,20
532	464,10	79,20	432	509,90	86,40
332	509,90	86,40			

MaxiMill – 491-09 Shell mill



Performance

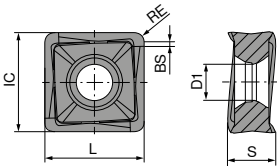


Designation	DC mm	OAL mm	DHUB mm	DCONMS mm	APMX mm	RPMX 1/min.	torque moment Nm	Insert	ZNF
A491.40.R.03-09	40	40	38	16	6	16800	2	SNHU 09T3	3
A491.40.R.05-09	40	40	38	16	6	16800	2	SNHU 09T3	5
A491.50.R.04-09	50	40	43	22	6	14600	2	SNHU 09T3	4
A491.50.R.06-09	50	40	43	22	6	14600	2	SNHU 09T3	6
A491.63.R.05-09	63	40	48	22	6	12700	2	SNHU 09T3	5
A491.63.R.08-09	63	40	48	22	6	12700	2	SNHU 09T3	8
A491.80.R.06-09	80	50	58	27	6	11100	2	SNHU 09T3	6
A491.80.R.10-09	80	50	58	27	6	11100	2	SNHU 09T3	10
A491.50.R.04-12	50	40	43	22	8	9800	3,2	SNHU 1204	4
A491.50.R.05-12	50	40	43	22	8	9800	3,2	SNHU 1204	5
A491.63.R.05-12	63	40	48	22	8	8500	3,2	SNHU 1204	5
A491.63.R.06-12	63	40	48	22	8	8500	3,2	SNHU 1204	6
A491.80.R.06-12	80	50	58	27	8	7400	3,2	SNHU 1204	6
A491.80.R.08-12	80	50	58	27	8	7400	3,2	SNHU 1204	8
A491.100.R.07-12	100	50	78	32	8	6500	3,2	SNHU 1204	7
A491.100.R.10-12	100	50	78	32	8	6500	3,2	SNHU 1204	10

50 775 ...		PG 2B/40	50 776 ...		PG 2B/40	50 775 ...		PG 2B/40	50 776 ...		PG 2B/40
	EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR
						240	490,50	84,00	240	570,20	97,20
						250	543,70	93,60	250	629,30	106,80
						263	640,80	111,60	263	760,00	132,00
						280	689,70	118,80	280	840,70	145,20
050	543,70	93,60	050	583,50	99,60						
063	640,80	111,60	063	689,70	118,80						
080	689,70	118,80	080	795,70	136,80						
100	875,20	150,00	100	994,70	170,40						

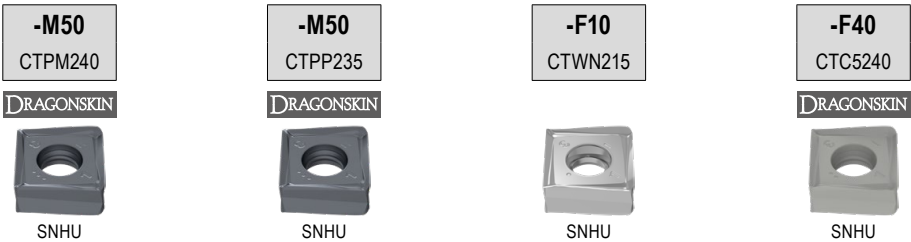
SNHU

Designation	IC mm	L mm	S mm	D1 mm
SNHU 09T3..	9,15	9,15	3,7	3,85
SNHU 1204..	12,20	12,20	5,0	4,40



SNHU

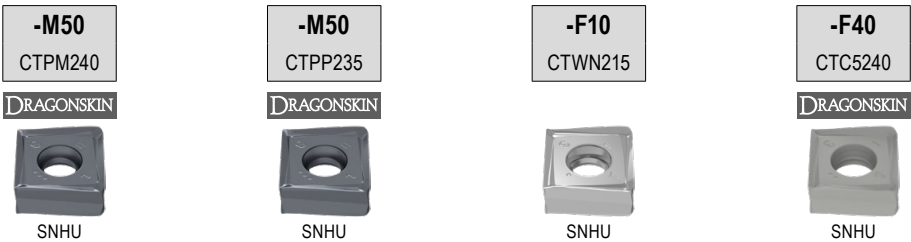
Performance



ISO	RE mm	51 120 ...			51 120 ...			51 118 ...			51 126 ...		
			PG 1B/61			PG 1B/61			PG 1B/61		PG 1H/17		
			EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR
09T308ER	0,8	408			108			358			15800		
09T308FR	0,8												
09T308SR	0,8												
09T312FR	1,2												
09T312SR	1,2	41200			11200			36200					
09T316FR	1,6												
09T316SR	1,6	41600			11600			36600					

SNHU

Performance

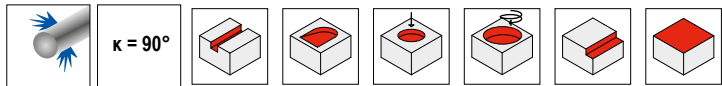


ISO	RE mm	51 100 ...		PG 1B/61		51 100 ...		PG 1B/61		51 101 ...		PG 1B/61		51 128 ...		PG 1H/17	
				EUR	EUR			EUR	EUR			EUR	EUR			EUR	EUR
120408ER	0,8	408				108				358				15800			
120408FR	0,8																
120408SR	0,8																
120412FR	1,2																
120412SR	1,2																
120416FR	1,6																
120416SR	1,6																
120420FR	2,0																
120420SR	2,0																

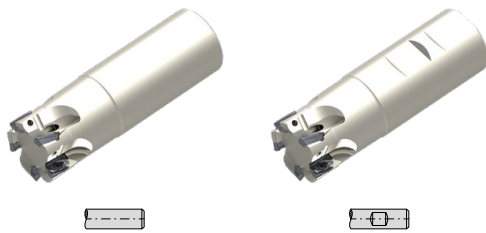
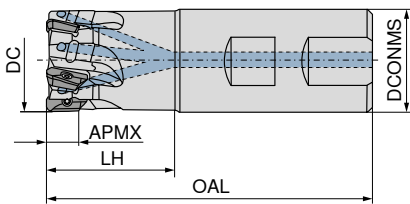


MaxiMill – 211-11 End milling cutter

▲ Insert radius >1,6 mm: Modify cutter body



Performance

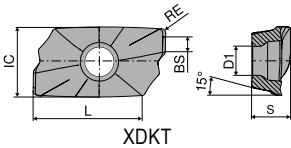


ISO designation	DC mm	OAL mm	LH mm	DCONMS _{h6} mm	APMX mm	RPMX 1/min.	Insert	ZNF
C211.16.R.02-11-A-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-B-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-A15-32-165	16	165	32	15	10	14800	XD.T 11T3	2
C211.16.R.02-11-A-32-165	16	165	32	16	10	14800	XD.T 11T3	2
C211.20.R.03-11-A-25	20	77	25	20	10	36900	XD.T 11T3	3
C211.20.R.03-11-B-25	20	77	25	20	10	36900	XD.T 11T3	3
C211.20.R.02-11-A-25	20	77	25	20	10	36900	XD.T 11T3	2
C211.20.R.03-11-A-32-165	20	165	32	20	10	15800	XD.T 11T3	3
C211.20.R.02-11-A19-40-200	20	200	40	19	10	10500	XD.T 11T3	2
C211.20.R.02-11-A-40-200	20	200	40	20	10	10500	XD.T 11T3	2
C211.25.R.03-11-A-32	25	90	32	25	10	33200	XD.T 11T3	3
C211.25.R.04-11-B-32	25	90	32	25	10	33200	XD.T 11T3	4
C211.25.R.04-11-A-32	25	90	32	25	10	33200	XD.T 11T3	4
C211.25.R.04-11-A-40-165	25	165	40	25	10	19900	XD.T 11T3	4
C211.25.R.03-11-A-50-225	25	225	50	25	10	9400	XD.T 11T3	3
C211.25.R.03-11-A24-50-225	25	225	50	24	10	9400	XD.T 11T3	3
C211.25.R.02-11-A-50-225	25	225	50	25	10	9400	XD.T 11T3	2
C211.32.R.04-11-A-40	32	102	40	32	10	30200	XD.T 11T3	4
C211.32.R.05-11-B-40	32	102	40	32	10	30200	XD.T 11T3	5
C211.32.R.05-11-A-40	32	102	40	32	10	30200	XD.T 11T3	5
C211.32.R.04-11-A25-40	32	102	40	25	10	30200	XD.T 11T3	4
C211.32.R.05-11-A-50-165	32	165	50	32	10	20900	XD.T 11T3	5
C211.32.R.04-11-A-64-250	32	250	64	32	10	8500	XD.T 11T3	4

50 737 ...	PG 2B/40	50 737 ...	PG 2B/40		
EUR	EUR	EUR	EUR		
116	291,50	49,20	016	291,50	49,20
316	291,50	49,20			
216	291,50	49,20			
120	331,00	56,40	020	331,00	56,40
12002	307,30	52,80			
320	331,00	56,40			
620	307,30	52,80			
420	307,30	52,80			
			025		
625	346,00	58,80			
125	370,50	63,60			
325	370,50	63,60			
425	346,00	58,80			
825	346,00	58,80			
02502	323,30	55,20			
			032	400,00	69,60
13204	386,20	66,00			
132	400,00	69,60			
53204	386,20	66,00			
332	400,00	69,60			
432	386,20	66,00			

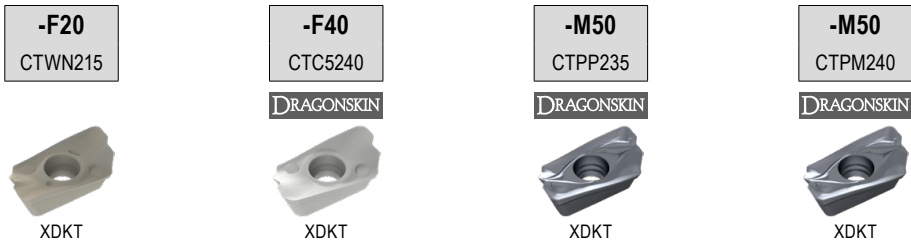
XDKT

Designation	IC mm	D1 mm	L mm	BS mm	S mm
XDKT 11T302..	6,8	2,8	10,6	2	3,8
XDKT 11T304..	6,8	2,8	10,6	1,8	3,8
XDKT 11T308..	6,8	2,8	10,6	1,4	3,8
XDKT 11T312..	6,8	2,8	10,6	1,4	3,8
XDKT 11T316..	6,8	2,8	10,6	1,4	3,8
XDKT 11T320..	6,8	2,8	10,6	1,4	3,8
XDKT 11T325..	6,8	2,8	10,6	1,4	3,8
XDKT 11T332..	6,8	2,8	10,6	0,8	3,8
XDKT 11T340..	6,8	2,8	10,6	-	3,8



XDKT

Performance



ISO		50 478 ...	PG 1A/90	50 463 ...	PG 1H/17	51 037 ...	PG 1B/61	51 037 ...	PG 1B/61
			EUR EUR		EUR EUR		EUR EUR		EUR EUR
11T302FR		502	18,48 14,40						
11T304ER				504	23,76 15,60				
11T304FR		504	18,48 14,40						
11T304SR						104	18,48 12,00	404	18,48 12,00
11T308ER				500	23,76 15,60				
11T308FR		508	18,48 14,40						
11T308SR						108	18,48 12,00	408	18,48 12,00
11T312ER				512	23,76 15,60				
11T312SR						112	18,48 12,00	412	18,48 12,00
11T316ER				516	23,76 15,60				
11T320ER				520 ¹⁾	23,76 15,60				
11T320FR		520 ¹⁾	18,48 14,40						
11T320SR						120 ¹⁾	18,48 12,00	420 ¹⁾	18,48 12,00
11T325ER				525 ¹⁾	23,76 15,60				
11T325FR		525 ¹⁾	18,48 14,40						
11T325SR						125 ¹⁾	18,48 12,00		
11T332ER				532 ¹⁾	23,76 15,60				
11T332SR								432 ¹⁾	18,48 12,00
11T340ER				540 ¹⁾	23,76 15,60				

P	●	○
M	○	●
K	○	○
N	●	○
S	○	○
H	○	○
O	○	○

1) Insert radius >1.6 mm: Modify cutter body



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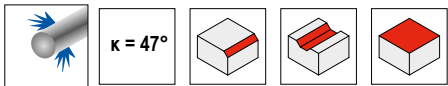
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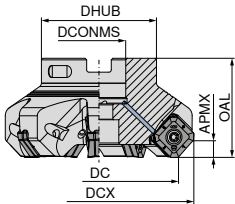
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MaxiMill – 271-12 Face mill

▲ 8 cutting edges per insert



Performance

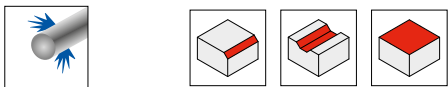


ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
A271.40.R.04-12	40	53	4	6,8	40	38	16	17900	3,2	SOHU 1204.. / XOHU 1204..
A271.50.R.05-12	50	63	5	6,8	40	43	22	15200	3,2	SOHU 1204.. / XOHU 1204..
A271.63.R.07-12	63	76	7	6,8	40	48	22	13100	3,2	SOHU 1204.. / XOHU 1204..
A271.80.R.06-12	80	93	6	6,8	50	58	27	11300	3,2	SOHU 1204.. / XOHU 1204..
A271.80.R.08-12	80	93	8	6,8	50	58	27	11300	3,2	SOHU 1204.. / XOHU 1204..
A271.100.R.07-12	100	113	7	6,8	63	78	32	9900	3,2	SOHU 1204.. / XOHU 1204..
A271.100.R.10-12	100	113	10	6,8	63	78	32	9900	3,2	SOHU 1204.. / XOHU 1204..

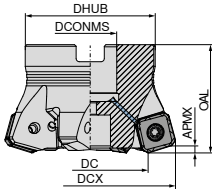
50 787 ...	PG 2B/40
EUR	EUR
04004	545,50 88,80
05005	529,40 90,00
06307	670,20 115,20
08008	773,20 133,20
10010	966,60 165,60

50 787 ...	PG 2B/40
EUR	EUR
08006	670,20 115,20
10007	850,50 146,40

MaxiMill – 271-12 HFC Face mill



Performance

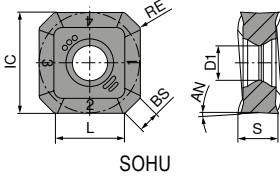


ISO designation	DC mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
A271.50.R.04-12-HFC	30	4	2,6	40	43	22	14600	3,2	SOHU 1204..
A271.63.R.06-12-HFC	43	6	2,6	40	48	22	12500	3,2	SOHU 1204..
A271.80.R.07-12-HFC	60	7	2,6	50	58	27	10800	3,2	SOHU 1204..

50 788 ...	PG 2B/40
EUR	EUR
05004	528,40 90,00
06306	670,20 115,20
08007	773,20 133,20

SOHU

Designation	IC mm	D1 mm	L mm	BS mm	S mm
SOHU 1204AB..	13,36	4,4	8,8	1,7	5,0



SOHU

Performance



ISO	RE mm
1204ABSR	0,8

51 140 ...	PG 1H/17
EUR	EUR
17000	44,67 27,60

51 138 ...	PG 1B/61
EUR	EUR
12000	33,98 21,60

51 138 ...	PG 1B/61
EUR	EUR
42000	33,98 21,60

P	●	○
M	○	○
K	○	○
N	○	○
S	○	○
H	○	○
O	○	○

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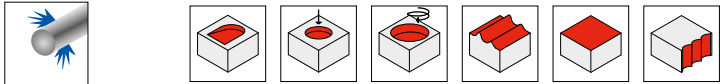
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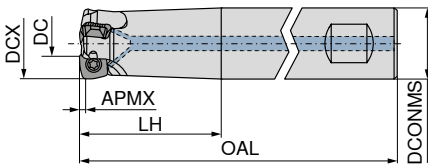
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MaxiMill – HFC high-feed end mill



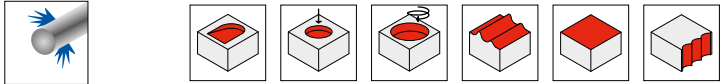
Performance



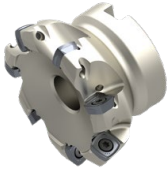
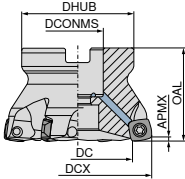
ISO designation	DC	OAL	LH	DCONMS _{h6}	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	1/min.		
CHFC.16.R.02-06-A-40-200	7,0	200	40	16	0,8	4600	XPLX 0603..	2
CHFC.16.R.02-06-B-40	7,0	89	40	16	0,8	17300	XPLX 0603..	2
CHFC.20.R.03-06-A-50-225	11,0	225	50	20	0,8	4200	XPLX 0603..	3
CHFC.20.R.03-06-B-50	11,0	101	50	20	0,8	14500	XPLX 0603..	3
CHFC.25.R.02-09-A-50-225	12,3	225	50	25	1,0	9000	XDLX 09T3..	2
CHFC.25.R.03-09-A-50-225	12,3	225	50	25	1,0	9000	XDLX 09T3..	3
CHFC.32.R.02-12-A-63-250	14,8	250	63	32	2,0	6480	XOLX 1204..	2
CHFC.25.R.04-06-A-50-225	16,0	225	50	25	0,8	4600	XPLX 0603..	4
CHFC.25.R.04-06-B-50	16,0	107	50	25	0,8	15600	XPLX 0603..	4
CHFC.35.R.03-12-A-63-250	17,8	250	63	32	2,0	6480	XOLX 1204..	3
CHFC.32.R.03-09-A-63-250	19,3	250	63	32	1,0	8100	XDLX 09T3..	3
CHFC.32.R.05-06-A-25-60-225	23,0	225	60	25	0,8	3900	XPLX 0603..	5
CHFC.32.R.05-06-B-25-60	23,0	117	60	25	0,8	11000	XPLX 0603..	5

50 681 ...		PG 2B/40	50 681 ...		PG 2B/40
	EUR	EUR		EUR	EUR
716	291,50	49,20	616	291,50	49,20
720	331,00	56,40	620	331,00	56,40
025	349,10	60,00			
125	371,70	63,60			
132	366,20	62,40			
725	370,50	63,60			
035	391,50	67,20	625	370,50	63,60
032	391,50	67,20			
732	409,00	69,60	632	409,00	69,60

MaxiMill – HFC high-feed face mill



Performance

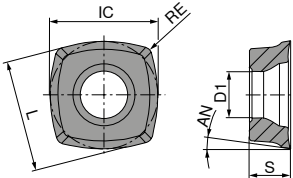


ISO designation	DC	OAL	DCONMS _{h6}	DHUB	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	1/min.		
AHFC.32.R.03-09	19,3	40	16	38	1	27700	XDLX 09T3..	3
AHFC.35.R.04-09	19,3	40	16	38	1	26700	XDLX 09T3..	4
AHFC.40.R.04-09	27,3	40	16	38	1	26400	XDLX 09T3..	4
AHFC.42.R.05-09	29,3	40	16	38	1	26100	XDLX 09T3..	5
AHFC.50.R.05-09	37,3	40	22	43	1	23500	XDLX 09T3..	5
AHFC.52.R.06-09	39,3	40	22	43	1	23000	XDLX 09T3..	6
AHFC.63.R.06-09	50,3	40	22	48	1	20500	XDLX 09T3..	6
AHFC.66.R.07-09	53,3	40	22	48	1	20000	XDLX 09T3..	7
AHFC.40.R.03-12	22,8	40	16	38	2	21120	XOLX 1204..	3
AHFC.42.R.04-12	24,8	40	16	38	2	20880	XOLX 1204..	4
AHFC.50.R.04-12	32,8	40	22	43	2	18800	XOLX 1204..	4
AHFC.52.R.05-12	34,8	40	22	43	2	18400	XOLX 1204..	5
AHFC.63.R.05-12	45,8	40	22	48	2	16400	XOLX 1204..	5
AHFC.66.R.06-12	48,8	40	22	48	2	16000	XOLX 1204..	6

50 683 ...		PG 2B/40
	EUR	EUR
032	391,50	67,20
035	417,00	70,80
140	434,10	74,40
142	459,50	78,00
150	510,70	87,60
152	536,20	92,40
163	597,20	100,80
16600	612,70	105,60
040	409,00	69,60
042	431,10	74,40
050	486,00	82,80
052	510,70	87,60
063	561,50	96,00
066	597,20	100,80

XPLX

Performance



ISO	RE	IC	D1	L	AN	S
	mm	mm	mm	mm	°	mm
060305ER	0,5	6,35	2,8	6	11	2,75
060305SR	0,5	6,35	2,8	6	11	2,75

-F40
CTC5240

DRAGONSKIN



XPLX

-M50
CTPP235

DRAGONSKIN



XPLX

-M50
CTPM240

DRAGONSKIN



XPLX

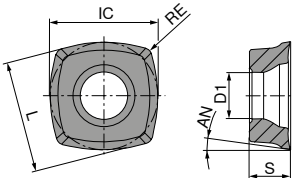
50 518 ...	PG 1H/17	50 518 ...	PG 1H/17
	EUR	EUR	EUR
558	10,78	13,20	

51 019 ...	PG 1B/61	51 019 ...	PG 1B/61
	EUR	EUR	EUR
105	16,22	10,80	

51 019 ...	PG 1B/61	51 019 ...	PG 1B/61
	EUR	EUR	EUR
405	16,22	10,80	

XDLX

Performance



ISO	RE	IC	D1	L	AN	S
	mm	mm	mm	mm	°	mm
09T308ER	0,8	9,52	4,4	9	15	3,97
09T308SR	0,8	9,52	4,4	9	15	3,97

-F40
CTC5240

DRAGONSKIN



XDLX

-M50
CTPP235

DRAGONSKIN



XDLX

-M50
CTPM240

DRAGONSKIN



XDLX

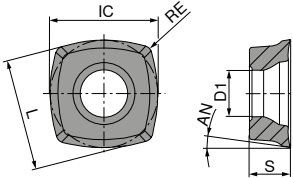
50 503 ...	PG 1H/17	50 503 ...	PG 1H/17
	EUR	EUR	EUR
558	20,19	13,20	

51 016 ...	PG 1B/61	51 016 ...	PG 1B/61
	EUR	EUR	EUR
108	16,73	10,80	

51 016 ...	PG 1B/61	51 016 ...	PG 1B/61
	EUR	EUR	EUR
408	16,73	10,80	

XOHX / XOLX

Performance



ISO	RE	IC	D1	L	AN	S
	mm	mm	mm	mm	°	mm
120410SR	1,0	12,7	5,5	12	10	4,76

-F50
CTC5240

DRAGONSKIN



XOHX

-M50
CTPP235

DRAGONSKIN



XOLX

-M50
CTPM240

DRAGONSKIN



XOLX

51 124 ...	PG 1H/17	51 124 ...	PG 1H/17
	EUR	EUR	EUR
16000	38,69	20,40	

51 017 ...	PG 1B/61	51 017 ...	PG 1B/61
	EUR	EUR	EUR
110	28,04	13,20	

51 017 ...	PG 1B/61	51 017 ...	PG 1B/61
	EUR	EUR	EUR
410	28,04	13,20	

P			
M			
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N			
S			
H			
O			



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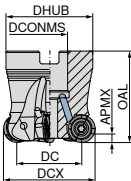
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MaxiMill – 252 Shell mill



Performance

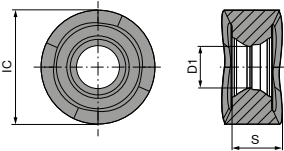
ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS mm	torque moment Nm	Insert
A252.40.R.04-12	28	40	4	3	40	38	16	3,2	RNHU 1205..
A252.50.R.05-12	38	50	5	3	40	43	22	3,2	RNHU 1205..
A252.52.R.05-12	40	52	5	3	40	43	22	3,2	RNHU 1205..
A252.63.R.06-12	51	63	6	3	40	48	22	3,2	RNHU 1205..



50 689 ...	PG 28/40
240	EUR 475,80
250	EUR 577,78
252	EUR 579,18
263	EUR 713,78

RNHU

Designation	IC mm	D1 mm	S mm
RNHU 1205..	12	4,4	5,3



RNHU

Performance

ISO	51 107 ...	PG 1H/17	50 521 ...	PG 1H/17
1205M4ER	475	EUR 35,74	552	EUR 35,74
P	•			
M	•			
K				
N				
S			•	
H				
O				

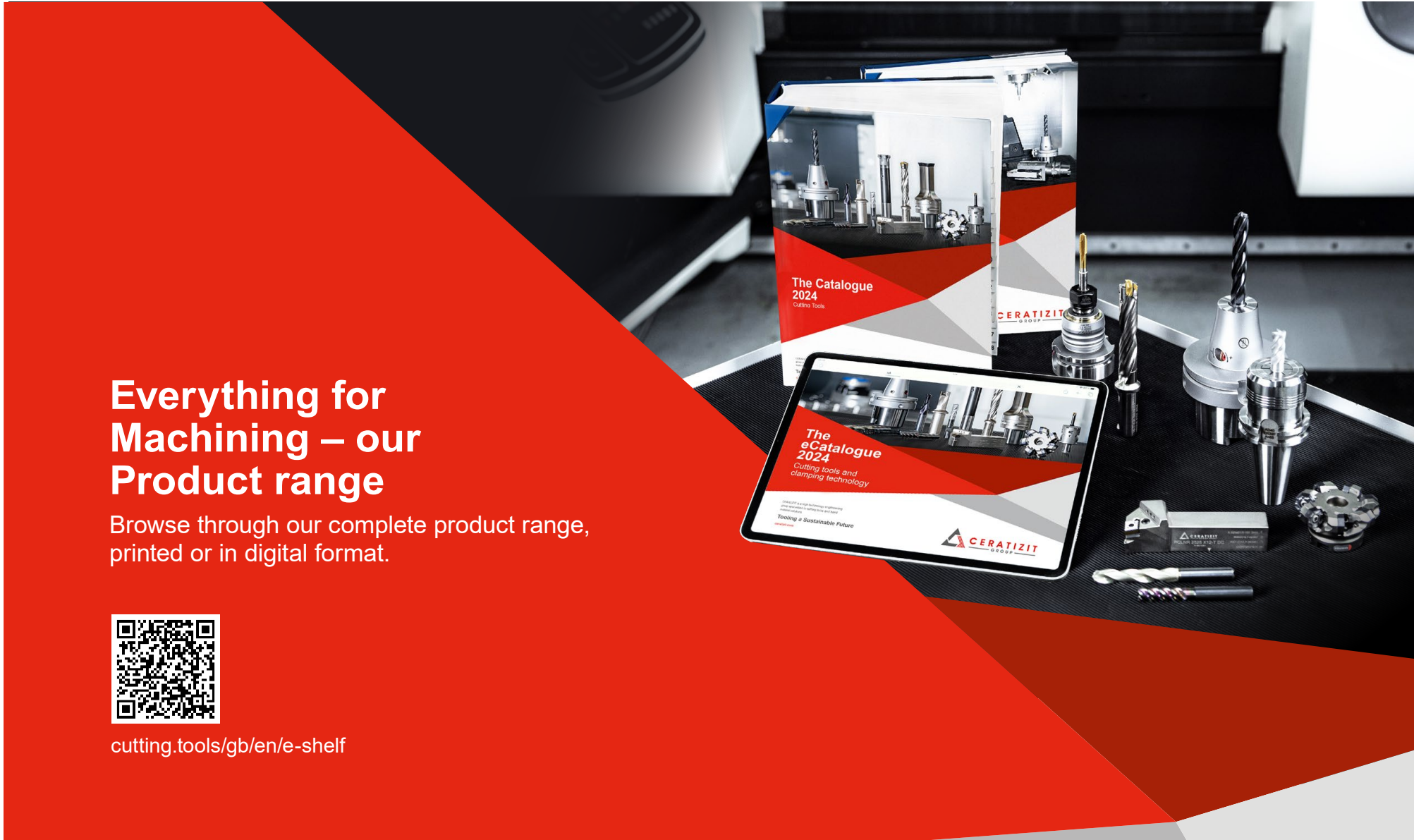


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MaxiMill – 251 RS Shell mill

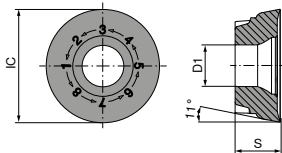


Performance

ISO designation	DCX mm	DC mm	OAL mm	APMX mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	Insert	ZNF		50 686 ...	PG 28/40
											EUR	EUR
A251.40.R.05-10-RS	40	30	40	5	38	16	16000	RP.X 10T3..	5		140	449,90 76,80
A251.42.R.06-10-RS	42	32	40	5	38	16	16000	RP.X 10T3..	6		142	517,16 88,80
A251.50.R.06-10-RS	50	40	40	5	43	22	12500	RP.X 10T3..	6		150	595,00 91,20
A251.52.R.06-10-RS	52	42	40	5	43	22	12500	RP.X 10T3..	6		152	595,00 91,20
A251.40.R.04-12-RS	40	28	40	6	38	16	15900	RP.X 1204..	4		340	413,80 70,80
A251.50.R.05-12-RS	50	38	40	6	43	22	12500	RP.X 1204..	5		050	502,20 86,40
A251.52.R.05-12-RS	52	40	40	6	43	22	12500	RP.X 1204..	5		052	526,80 90,00
A251.63.R.06-12-RS	63	51	40	6	48	22	10000	RP.X 1204..	6		063	620,10 106,80
A251.66.R.07-12-RS	66	54	40	6	48	22	9000	RP.X 1204..	7		166	653,70 111,60
A251.80.R.07-12-RS	80	68	50	6	58	27	8000	RP.X 1204..	7		080	699,50 120,00

RPHX / RPNX

Designation	IC mm	D1 mm	S mm
RP.X 10T3..	10	3,4	3,97
RP.X 1204..	12	4,4	4,76



RPHX / RPNX

Performance

-M31
CTC5240

DRAGONSKIN

RPHX

50 493 ... PG 1H/17

EUR EUR

550¹⁾ 21,28 14,40

551 21,28 14,40

552¹⁾ 23,45 15,60

56200 23,45 15,60

582 23,45 15,60

-M50
CTPP235

DRAGONSKIN

RPNX

51 054 ... PG 1B/61

EUR EUR

12000 12,84 8,40

125 14,74 9,60

-F50
CTPP235

DRAGONSKIN

RPHX

51 051 ... PG 1B/61

EUR EUR

12000 16,95 10,80

125 18,48 12,00

-M50
CTPM240

DRAGONSKIN

RPHX

51 050 ... PG 1B/61

EUR EUR

420 16,85 10,80

425 18,48 12,00

P				
M				
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H				
O				

1) Insert with 4 indexes

1

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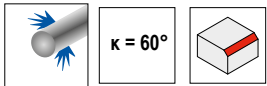
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77

MaxiMill – 242 Chamfer Cutter

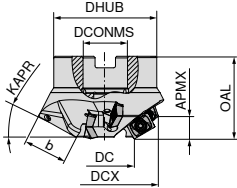
▲ Caution: Use only inserts with a corner radius of less than 1.6 mm
▲ ZEFP = number of inserts
▲ ZNP = tooth rows



Performance

KAPR °	DC mm	DCX mm	ZNF	APMX mm	ZEFP	b ±0,3 mm	OAL mm	DCONMS mm	DHUB mm	ZNP	torque moment Nm	Insert
30	35	83,60	3	13,6	6	27,6	50	27	62,5	2	3,2	LD.. 15...
45	35	74,60	3	19,3	6	27,6	50	27	62,5	2	3,2	LD.. 15...
15	35	89,60	3	7,0	6	27,6	50	27	62,5	2	3,2	LD.. 15...
60	35	62,70	3	23,6	6	27,6	50	22	49,0	2	3,2	LD.. 15...
75	35	49,48	3	26,7	6	27,6	60	22	49,0	2	3,2	LD.. 15...

1) Version with Powerscrew



50 768 ...	PG 2B/40
EUR	EUR
13003	476,16 81,60
14503	476,16 81,60
11503	476,16 81,60
16003	476,16 81,60
17503 1)	476,16 81,60

LDFT

Performance

ISO designation	IC mm	D1 mm	L mm	BS mm	S mm	ISO	RE mm
LDFT 150408FR	9,52	4,4	15	1,2	4,76	150408FR	0,8

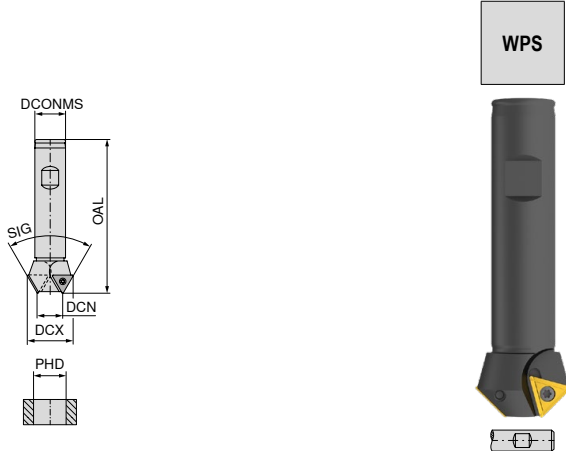


51 157 ...	PG 1A/90
EUR	EUR
00802	20,44 20,40

Indexable chamfer milling 90°

Scope of supply:
Indexable insert countersink including clamping screws

Performance

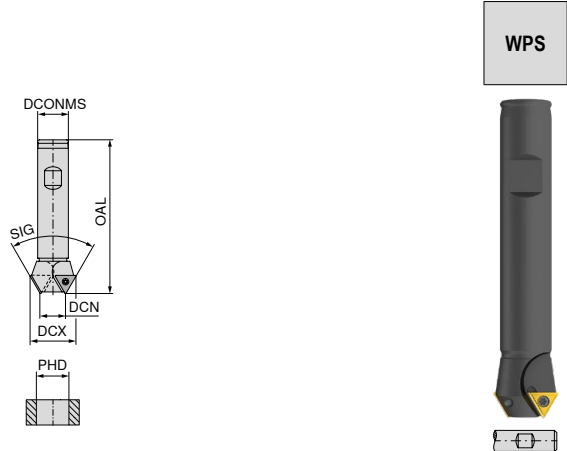


DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 196 ...	PG U1/4D
19	7	9,5	2	16	100	TOHX 090204	EUR	EUR
23	11	12,0	2	16	100	TOHX 090204	273,46 60,00	
26	11	12,0	1	16	100	TOHX 090204	277,26 60,00	
30	12	13,0	2	20	100	TOHX 140305	279,76 60,00	
34	16	17,0	2	20	100	TOHX 140305	292,60 60,00	
37	19	20,0	2	20	100	TOHX 140305	297,60 60,00	
							30000	297,60 60,00
							34000	297,60 60,00
							37000	297,60 60,00

Indexable chamfer milling 60°

Scope of supply:
Indexable insert countersink including clamping screws

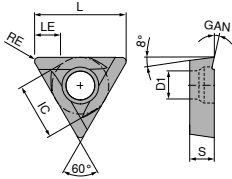
Performance



DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 197 ...	PG U1/4D
16,5	8,1	8,5	1	16	100	TOHX 090204	EUR	EUR
20,0	11,6	12,0	2	16	100	TOHX 090204	277,26 60,00	
22,0	13,6	14,0	2	16	100	TOHX 090204	279,76 60,00	
23,5	15,1	15,5	2	16	100	TOHX 090204	292,60 60,00	
25,5	17,1	17,5	2	16	100	TOHX 090204	297,60 60,00	
							16500	297,60 60,00
							20000	297,60 60,00
							22000	297,60 60,00
							23500	297,60 60,00
							25500	297,60 60,00

TOHX

Performance



ISO designation	L mm	S mm	D1 mm	IC mm	ISO	RE mm
TOHX 06T103EL	6,50	1,8	2,2	4,0	06T103EL	0,3
TOHX 090204EL	9,12	2,5	2,8	5,6	090204EL	0,4
TOHX 090204EN	9,12	2,5	2,8	5,6	090204EN	0,4
TOHX 140304EL	13,62	3,0	3,8	8,2	140304EL	0,4



62 603 ...	PG 1A/3#
EUR	EUR
31400	28,97 19,20
30200	24,96 15,60
31800	28,16 18,00
32600	31,75 20,40

P	•	•
M	•	•
K	•	•
N	○	○
S	•	•
H	○	○
O		



MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

Slot milling and parting off cutters **without** assembly key, **without** clamping screws

Direct

Cooling

$\kappa = 90^\circ$

Performance

Designation	DC mm	CW mm	CDX mm	DCONMS _{H6} mm	DHUB mm	OAL mm	ZEFP	Insert	Adapter
ASLOT.80.R.6.13.DC-SX2	80	2	23	13	32	2,675	6	SX E2 ..	AD.SLOT.13...
ASLOT.80.R.6.13.DC-SX3	80	3	23	13		2,750	6	SX E3 ..	AD.SLOT.13...
ASLOT.80.R.4.13.DC-SX4	80	4	23	13		3,750	4	SX E4 ..	AD.SLOT.13...
ASLOT.80.R.4.13.DC-SX5	80	5	23	13		4,750	4	SX E5 ..	AD.SLOT.13...

Spare parts for Article no.		
50 383 08002	EUR	70 950 ...
50 383 08003	30,00	836
50 383 08004	30,00	836
50 383 08005	30,00	837
50 383 08005	30,00	837

MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

Slot milling and parting off cutters **without** assembly key, **without** clamping screws

Direct

Cooling

$\kappa = 90^\circ$

Performance

Designation	DC mm	CW mm	CDX mm	DCONMS _{H6} mm	DHUB mm	OAL mm	ZEFP	Insert	Adapter
ASLOT.100.R.8.22.DC-SX2	100	2	29	22	40	2,675	8	SX E2 ..	AD.SLOT.22...
ASLOT.100.R.8.22.DC-SX3	100	3	29	22		2,750	8	SX E3 ..	AD.SLOT.22...
ASLOT.100.R.6.22.DC-SX4	100	4	29	22		3,750	6	SX E4 ..	AD.SLOT.22...
ASLOT.100.R.6.22.DC-SX5	100	5	29	22		4,750	6	SX E5 ..	AD.SLOT.22...
ASLOT.100.R.4.22.DC-SX6	100	6	29	22		5,700	4	SX E6 ..	AD.SLOT.22...

Spare parts for Article no.		
50 384 10002	EUR	70 950 ...
50 384 10003	30,00	836
50 384 10004	30,00	836
50 384 10005	30,00	837
50 384 10006	30,00	837

MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

Slot milling and parting off cutters **without** assembly key, **without** clamping screws

Direct

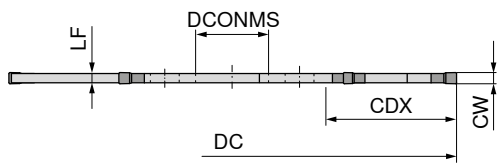
Cooling

$\kappa = 90^\circ$

Performance

Designation	DC mm	CW mm	CDX mm	DCONMS _{H6} mm	DHUB mm	OAL mm	ZEFP	Insert	Adapter
ASLOT.125.R.10.22.DC-SX2	125	2	42	22	40	2,675	10	SX E2 ..	AD.SLOT.22...
ASLOT.125.R.10.22.DC-SX3	125	3	42	22		2,750	10	SX E3 ..	AD.SLOT.22...

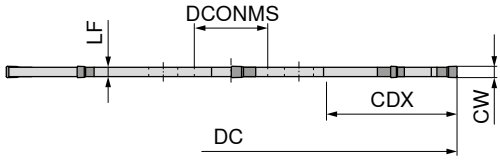
Spare parts for Article no.		
50 385 12502	EUR	70 950 ...
50 385 12503	30,00	836
50 385 12503	30,00	836



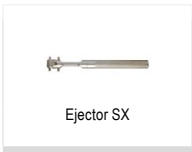
50 383 ...	PG 28/40
EUR	EUR
08002	605,00 110,40
08003	605,00 110,40
08004	605,00 110,40
08005	605,00 110,40



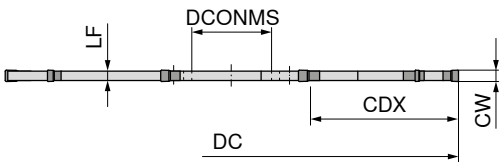
EUR	70 950 ...
30,00	836
30,00	836
30,00	837
30,00	837



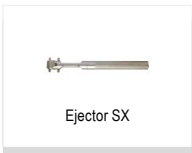
50 384 ...	PG 28/40
EUR	EUR
10002	806,70 146,40
10003	806,70 146,40
10004	806,70 146,40
10005	806,70 146,40
10006	806,70 146,40



EUR	70 950 ...
30,00	836
30,00	836
30,00	837
30,00	837



50 385 ...	PG 28/40
EUR	EUR
12502	1.000,00 183,60
12503	1.000,00 183,60



EUR	70 950 ...
30,00	836
30,00	836



Technical support: 1800 93 22 55

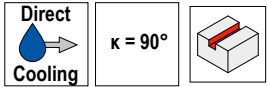
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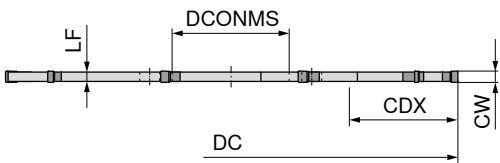
MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:
Slot milling and parting off cutters **without** assembly key, **without** clamping screws



Performance

Designation	DC mm	CW mm	CDX mm	DCONMS _{H6} mm	DHUB mm	OAL mm	ZEFP	Insert	Adapter
ASLOT.125.R.10.32.DC-SX2	125	2	30	32	63	2,675	10	SX E2 ..	AD.SLOT.32...
ASLOT.125.R.10.32.DC-SX3	125	3	30	32		2,750	10	SX E3 ..	AD.SLOT.32...
ASLOT.125.R.8.32.DC-SX4	125	4	30	32		3,750	8	SX E4 ..	AD.SLOT.32...
ASLOT.125.R.8.32.DC-SX5	125	5	30	32		4,750	8	SX E5 ..	AD.SLOT.32...
ASLOT.125.R.8.32.DC-SX6	125	6	30	32		5,700	8	SX E6 ..	AD.SLOT.32...



50 386 ...	PG 2B/40
EUR	EUR
12502	1,000.00 183,60
12503	1,000.00 183,60
12504	1,000.00 183,60
12505	1,000.00 183,60
12506	1,000.00 183,60

Spare parts
for Article no.
50 386 12502
50 386 12503
50 386 12504
50 386 12505
50 386 12506

Ejector SX	70 950 ...
EUR	EUR
30,00	836
30,00	836
30,00	837
30,00	837
30,00	837

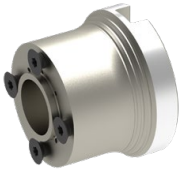
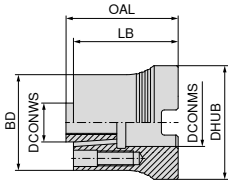
MaxiMill – Slot-SX multipurpose milling cutter adapter

Scope of supply:
Multipurpose milling cutter adapter including screws



Performance

Designation	DCONMS mm	DCONWS _{H6} mm	LB mm	OAL mm	BD mm
AD.SLOT.13.32.A16	16	13	35	37,5	32
AD.SLOT.22.40.A22	22	22	35	37,5	40
AD.SLOT.32.63.A27	27	32	45	47,5	63
AD.SLOT.40.80.A32.SK	32	40	55	57,5	80
AD.SLOT.40.80.A32.ZK	32	40	55	57,5	80



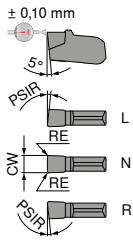
50 395 ...	PG 2E/45
EUR	EUR
01300	100.00 33,60
02200	100.00 34,80
03200	211.60 38,40
04000	268.10 48,00
04100	268.10 48,00

Insert SX

▲ Specially developed geometry with negative edge-chamfers available in right, left and neutral types



Performance



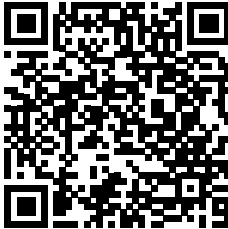
Designation	IH	CW +/-0,05 mm	for tool holder
SX E2.00 N 0.20	N	2	-SX2
SX E3.00 N 0.20	N	3	-SX3
SX E4.00 N 0.30	N	4	-SX4
SX E5.00 N 0.30	N	5	-SX5
SX E6.00 N 0.40	N	6	-SX6

70 342 ...	PG 10/72
EUR	EUR
622	15.87 10,80
623	16.00 12,00
624	17.00 12,00
625	18.00 13,20
626	20.44 14,40

P	●
M	●
K	●
N	○
S	●
H	
O	○



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CLAMPING TECHNOLOGY



Centro-P – highest performance and accuracy for all milling and drilling applications.



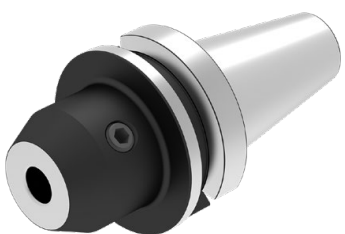
VDI – Full range



Standard Line – range of tools to support all standard applications.



CentriClamp ZSG4 – High performance, cost effective workholding solution.



BT-FC – face and taper contact. For highest stability and process security in compatible machines.



HSK-A – Full range of HSK-A toolholding for multi-tasking lathes

ER Precision Collet chuck – Centro-P

- ▲ for standard or sealed nuts
- ▲ maximum size collet to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ p_{max} = 80 bar
- ▲ also available with Balluff chip on request

Scope of supply:

Holder without nut, without backstop



G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	LSCX	l ₂ (l ₂)	for collet	84 524 ...	PG	Y8
	mm	mm	mm	mm	mm		EUR	EUR	
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	210	116,70	67,20
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	310	129,70	79,20
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	410	175,00	108,00
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	510	183,20	116,40
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	116	123,20	75,60
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	216	116,70	67,20
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	316	123,20	79,20
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	416	168,00	116,40
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	516	206,20	124,80
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	616	258,00	144,00
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	120	123,20	75,60
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	220	116,70	67,20
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	320	123,20	79,20
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	420	188,00	116,40
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	520	206,20	124,80

LSCX = clamping depth without back stop screw for shanks
l₂ = with back stop screw 1, dimension in brackets () = with back stop screw 2
dimension LPR when using tightening nuts with seals 4 mm longer

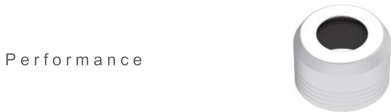
Roll key



Performance

for lock nut	DLN	84 950 ...	PG	Y8
	mm	EUR	EUR	
426E / ER 16 CP	30	027	77,65	52,80
430E / ER 25 CP	40	054	77,76	61,20
470E / ER 32 CP + STD	50	056	77,76	57,60

ER standard lock nut for precision collet chucks – Centro-P

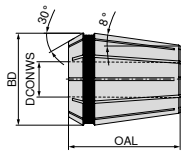


Performance

for collet	84 950 ...	PG	Y8
	EUR	EUR	
426E (ER16)	001	36,20	26,40
430E (ER25)	003	48,10	28,80
470E (ER32)	005	42,72	31,20

ER precision collet for precision collet chucks – Centro-P

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coloured ring as identification of precision collet
- ▲ ER08: 5 µm runout and repeatability
- ▲ Coated precision collet



DCONWS	BD = 17 OAL = 27,5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32
mm	84 596 ...	84 597 ...	84 598 ...
	EUR	EUR	EUR
1,0	010		
1,1	011		
1,2	012		
1,4	014		
1,5	015		
1,6	016		
1,8	018		
2,0	020		
2,2	022		
2,4	024		
2,5	025		
2,6	026		
2,8	028		
3,0	030		
3,2	032		
3,4	034		
3,5	035		
3,6	036		
3,8	038		
4,0	040		
4,5	045		
5,0	050		
5,5	055		
5,6	056		
6,0	060		
6,3	063		
6,5	065		

DCONWS	BD = 17 OAL = 27,5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32
mm	84 596 ...	84 597 ...	84 598 ...
	EUR	EUR	EUR
7,0	070		
7,1	071		
7,5	075		
8,0	080		
8,5	085		
9,0	090		
9,5	095		
10,0	100		
10,5			
11,0			
11,5			
12,0			
12,5			
13,0			
13,5			
14,0			
14,5			
15,0			
15,5			
16,0			
17,0			
18,0			
19,0			
20,0			

Clamping range covered: H10 corresponding to shank Ø DCONWS



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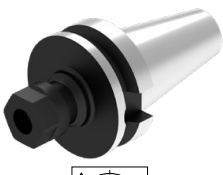
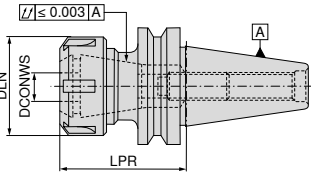
ER-Collet chuck

▲ also available with Balluff chip **on request**

Scope of supply:

Holder with lock nut and adjustable back stop

Standard



AD/B
G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 743 ...	PG	Y8
short	BT 40	1 - 10	60	28	56	426E (ER16)	11069 ¹⁾	73,65	32,40
	BT 40	1 - 16	70	42	104	430E (ER25)	11669	76,98	33,60
	BT 40	2 - 20	70	50	136	470E (ER32)	12069	77,22	33,60
	BT 40	3 - 26	70	63	176	472E (ER40)	12669	80,27	36,00
medium length	BT 40	1 - 10	120	28	56	426E (ER16)	21069 ¹⁾	80,76	36,00
	BT 40	1 - 16	120	42	104	430E (ER25)	21669	84,08	37,20
	BT 40	2 - 20	120	50	136	470E (ER32)	22069	84,32	37,20

1) with 6 position lock nut

Shell mill adapter

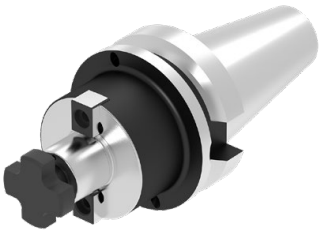
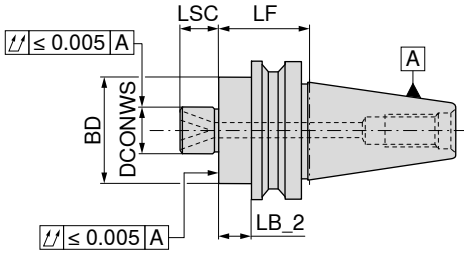
▲ With fixed drive dogs and enlarged contact face for milling cutters with transverse groove

▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder with clamping screw

Standard



AD/B
G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 745 ...	PG	Y8
short	BT 40	16	25	52	38	17	11669	72,83	32,40
	BT 40	22	25	52	48	19	12269	77,09	33,60
	BT 40	27	25	52	58	21	12769	78,62	34,80
	BT 40	32	23	50	78	24	13269	82,77	36,00
	BT 40	40	23	50	88	27	14069 ¹⁾	90,06	39,60

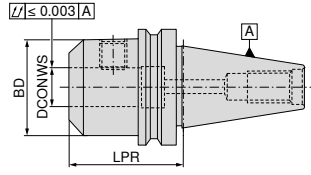
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Cylindrical shank adapter (Weldon)

▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat

▲ also available with Balluff chip **on request**

Standard



AD/B
G 2,5 n_{max} 25000

Version	Adapter	DCONWS_H4 mm	LPR mm	BD mm	82 740 ...	PG	Y8
short	BT 40	6	50	25	10669	52,74	22,80
	BT 40	8	50	28	10869	52,74	22,80
	BT 40	10	63	35	11069	49,78	21,60
	BT 40	12	63	42	11269	49,78	21,60
	BT 40	14	63	44	11469	49,78	21,60
	BT 40	16	63	48	11669	53,04	24,00
	BT 40	18	63	50	11869	53,04	24,00
	BT 40	20	63	52	12069	53,04	24,00
	BT 40	25	100	65	12569	59,14	26,40
medium length	BT 40	32	100	72	13269 ¹⁾	64,33	28,80
	BT 40	6	100	25	20669	54,08	24,00
	BT 40	8	100	28	20869	54,08	24,00
	BT 40	10	100	35	21069	54,08	22,80
	BT 40	12	100	42	21269	54,08	22,80
	BT 40	14	100	44	21469	54,56	22,80
	BT 40	16	100	48	21669	57,00	25,20
	BT 40	18	100	50	21869	56,75	25,20
extra-long	BT 40	20	100	52	22069	57,00	25,20
	BT 40	6	160	25	40669	63,26	27,60
	BT 40	8	160	28	40869	63,26	27,60
	BT 40	10	160	35	41069	59,04	26,40
	BT 40	12	160	42	41269	59,04	26,40
	BT 40	14	160	44	41469	59,04	26,40
	BT 40	16	160	48	41669	60,49	26,40
	BT 40	18	160	50	41869	60,49	26,40
extra-long	BT 40	20	160	52	42069	60,49	26,40
	BT 40	25	160	65	42569 ¹⁾	64,33	28,80

1) Version with two grub screws

HyTens – Compact

▲ Hydraulic chuck, short and stable version

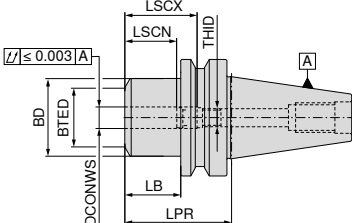
▲ for solid carbide and HSS shanks to h6 tolerance or better

▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw

Standard



AD
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCN mm	LSCX mm	THID	83 430 ...	PG	Y8
BT 40	12	58,0	42	32	31,0	36	46	M8x1	01269	196,40	142,80
BT 40	20	72,5	49	38	45,5	41	51	M16x1	02069	196,40	142,80
BT 50	20	83,5	49	38	45,5	41	51	M16x1	02068	351,00	254,40

 Spare parts can be found in → **Chapter 16 Adapters and accessoires in the clamping technology catalogue.**

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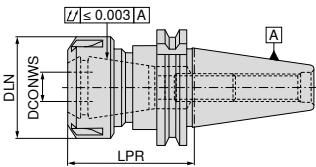
ER Collet chuck

▲ also available with Balluff chip **on request**

Scope of supply:

Holder with lock nut and adjustable back stop

Standard



AD/B
G 2,5 n_{max} 25000

82 743 ... PG Y8

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet			
short	SK 40	1 - 10	60	28	56	426E (ER16)	11079 ¹⁾	73,65	32,40
	SK 40	1 - 16	70	42	104	430E (ER25)	11679	76,98	33,60
	SK 40	2 - 20	70	50	136	470E (ER32)	12079	77,22	33,60
	SK 40	3 - 26	70	63	176	472E (ER40)	12679	80,27	36,00
medium length	SK 40	1 - 10	120	28	56	426E (ER16)	21079 ¹⁾	80,76	36,00
	SK 40	1 - 16	120	42	104	430E (ER25)	21679	84,08	37,20
	SK 40	2 - 20	120	50	136	470E (ER32)	22079	84,32	37,20

1) with 6 position lock nut

Shell mill adapter

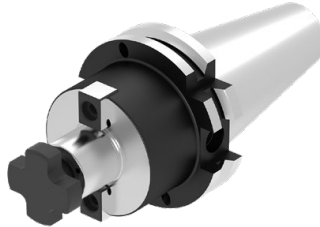
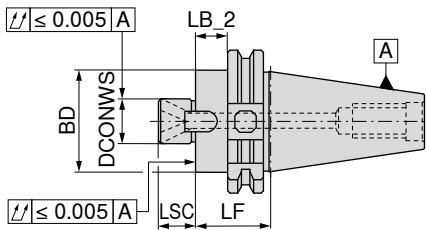
▲ Screwed drive dogs

▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder with clamping screw

Standard



AD/B
G 2,5 n_{max} 25000

82 745 ... PG Y8

Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm			
short	SK 40	16	25	44	38	17	11679	72,83	32,40
	SK 40	22	25	44	48	19	12279	77,22	33,60
	SK 40	27	36	55	58	21	12779	78,62	34,80
	SK 40	32	31	50	78	24	13279	82,77	36,00
	SK 40	40	31	50	88	27	14079 ¹⁾	86,06	39,60

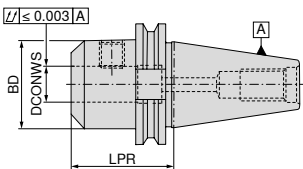
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Cylindrical shank adapter (Weldon)

▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat

▲ also available with Balluff chip **on request**

Standard



AD/B
G 2,5 n_{max} 25000

82 740 ... PG Y8

Version	Adapter	DCONWS _{H4} mm	LPR mm	BD mm					
short	SK 40	6	50	25	10679	52,74	22,80		
	SK 40	8	50	28	10879	52,74	22,80		
	SK 40	10	50	35	11079	49,78	21,60		
	SK 40	12	50	42	11279	49,78	21,60		
	SK 40	14	50	44	11479	49,78	21,60		
	SK 40	16	63	48	11679	53,04	24,00		
	SK 40	18	63	50	11879	53,04	24,00		
	SK 40	20	63	52	12079	53,04	24,00		
	SK 40	25	100	65	12579 ¹⁾	58,14	26,40		
medium length	SK 40	32	100	72	13279 ¹⁾	64,33	28,80		
	SK 40	6	100	25	20679	54,08	24,00		
	SK 40	8	100	28	20879	54,08	24,00		
	SK 40	10	100	35	21079	54,08	22,80		
	SK 40	12	100	42	21279	54,08	22,80		
	SK 40	14	100	44	21479	54,08	22,80		
	SK 40	16	100	48	21679	57,00	25,20		
	SK 40	18	100	50	21879	56,75	25,20		
extra-long	SK 40	20	100	52	22079	57,00	25,20		
	SK 40	6	160	25	40679	63,26	27,60		
	SK 40	8	160	28	40879	63,26	27,60		
	SK 40	10	160	35	41079	59,04	26,40		
	SK 40	12	160	42	41279	59,04	26,40		
	SK 40	14	160	44	41479	59,04	26,40		
	SK 40	16	160	48	41679	60,49	26,40		
	SK 40	18	160	50	41879	60,49	26,40		
	SK 40	20	160	52	42079	60,49	26,40		
extra-long	SK 40	25	160	65	42579 ¹⁾	64,33	28,80		

1) Version with two grub screws

HyTens – Compact

▲ Hydraulic chuck, short and stable version

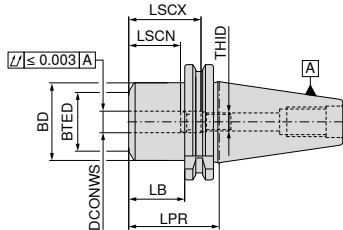
▲ for solid carbide and HSS shanks to h6 tolerance or better

▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw

Standard



AD
G 2,5 n_{max} 25000

83 430 ... PG Y8

Adapter	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCN mm	LSCX mm	THID			
SK 40	12	50,0	42	32	31,0	46	56	M8x1	01279	196,40	142,80
SK 40	20	64,5	49	38	45,5	41	51	M16x1	02079	196,40	142,80
SK 50	20	64,5	49	38	45,5	41	51	M16x1	02078	351,00	254,40

Spare parts can be found in → **Chapter 16 Adapters and accessoires in the clamping technology catalogue.**



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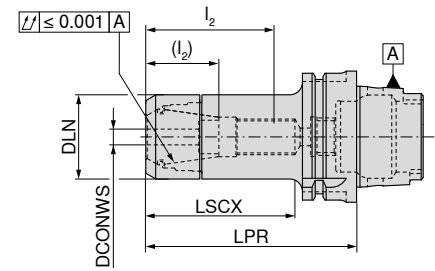
ER Precision Collet chuck – Centro-P

- ▲ for standard or sealed nuts
- ▲ maximum size collet to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ p_{max} = 80 bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop

Performance



AD
G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	LSCX	l ₂ (l ₂)	for collet
	mm	mm	mm	mm	mm	
HSK-A 50	2 - 16	60	40	37		430E (ER25)
HSK-A 50	2 - 16	70	40	49	34 - 35	430E (ER25)
HSK-A 63	1 - 10	55	30	32		426E (ER16)
HSK-A 63	1 - 10	100	30	71	28 - 45 (16 - 31)	426E (ER16)
HSK-A 63	1 - 10	130	30	87	26 - 50 (17 - 38)	426E (ER16)
HSK-A 63	1 - 10	160	30	106	28 - 45 (16 - 31)	426E (ER16)
HSK-A 63	1 - 10	200	30	136	28 - 45 (16 - 31)	426E (ER16)
HSK-A 63	2 - 16	60	40	37		430E (ER25)
HSK-A 63	2 - 16	100	40	70	35 - 55 (24 - 37)	430E (ER25)
HSK-A 63	2 - 16	130	40	89	37 - 60 (12 - 42)	430E (ER25)
HSK-A 63	2 - 16	160	40	128	35 - 60 (24 - 42)	430E (ER25)
HSK-A 63	2 - 20	70	50	46		470E (ER32)
HSK-A 63	2 - 20	100	50	71	41 - 57 (26 - 39)	470E (ER32)
HSK-A 63	2 - 20	130	50	101	42 - 69 (18 - 41)	470E (ER32)
HSK-A 63	2 - 20	160	50	129	52 - 70 (26 - 60)	470E (ER32)
HSK-A 63	3 - 26	80	63	56		472E (ER40)
HSK-A 63	3 - 26	120	63	91		472E (ER40)

- 1) Item cannot be combined with backstop screw
2) Non standard groove before tool change collar not according to DIN, not suitable for automatic tool change

 LSCX = clamping depth without back stop screw for shanks
l₂ = with back stop screw 1, dimension in brackets () = with back stop screw 2
dimension LPR when using tightening nuts with seals 4 mm longer

84 722 ...	PG	Y8
	EUR	EUR
504 ¹⁾	185,38	134,40
505	188,00	134,40
609 ¹⁾	154,28	129,60
610	154,28	127,20
613	188,00	146,40
611	213,00	153,60
612	271,00	260,40
615	154,28	129,60
616	154,28	127,20
619	283,50	157,20
617	226,00	162,00
620	154,28	127,20
621	154,28	127,20
625	283,50	157,20
622	226,00	162,00
626 ²⁾	194,48	163,20
62700	243,16	134,40

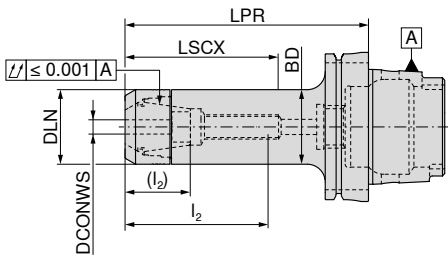
ER Precision collet chuck, slim version – Centro-P

- ▲ for Mini Clamping Nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ p_{max} 80 bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop

Performance



AD
G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	BD	DLN	LSCX	l ₂ (l ₂)	for collet
	mm	mm	mm	mm	mm	mm	
HSK-A 50	1 - 7	130	16	16	60	15 - 32 (7 - 22)	4008E (ER11)
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)

84 719 ...	PG	Y8
	EUR	EUR
407	242,38	168,00
610	164,60	129,60
710	164,60	129,60
810	213,00	165,60
910	297,20	165,60
507	164,60	129,60
607	164,60	134,40
707	213,00	165,60
608	297,20	176,40

 LSCX = clamping depth without back stop screw for shanks
l₂ = with back stop screw 1, dimension in brackets () = with back stop screw 2
dimension LPR when using tightening nuts with seals 4 mm longer



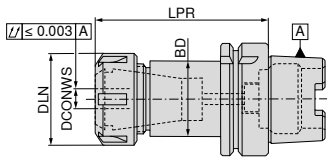
ER Collet chuck

▲ also available with Balluff chip **on request**

Scope of supply:

Toolholder including nut

Standard



AD

G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 743 ... PG Y8/3B		
medium length	HSK-A 63	1 - 10	100	22	56	426E (ER16 mini)	21157	148,00	61,20
	HSK-A 63	1 - 10	100	32	56	426E (ER16)	21057	145,00	52,80
	HSK-A 63	1 - 16	100	42	104	430E (ER25)	21657	145,00	52,80
	HSK-A 63	2 - 20	100	50	136	470E (ER32)	22057	145,00	52,80
	HSK-A 63	3 - 26	100	63	176	472E (ER40)	22657	145,00	52,80
extra-long	HSK-A 63	1 - 10	160	22	56	426E (ER16 mini)	41157	148,00	61,20
	HSK-A 63	1 - 10	160	32	56	426E (ER16)	41057	163,00	73,20
	HSK-A 63	1 - 16	160	42	104	430E (ER25)	41657	163,00	73,20
	HSK-A 63	2 - 20	160	50	136	470E (ER32)	42057	163,00	73,20
	HSK-A 63	3 - 26	160	63	176	472E (ER40)	42657	163,00	73,20

Shell mill adapter with reduced flange diameter

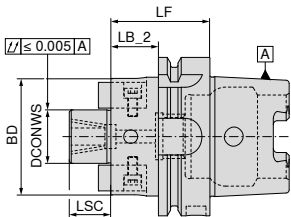
▲ Screwed drive dogs

▲ also available with Balluff chip **on request**

Scope of supply:

Base body with retaining screw and drive dog

Standard



AD

G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 315 ... PG Y8/3B		
short	HSK-A 63	22	34	60	38	19	12257	242,00	76,80
	HSK-A 63	27	34	60	48	21	12757	242,00	76,80

HyTens – Fit

▲ Hydraulic chuck, short and slim version

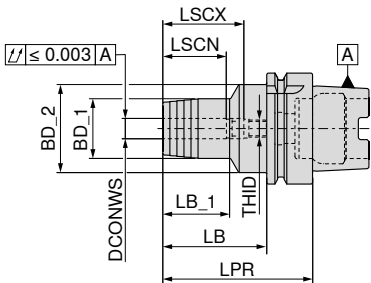
▲ for solid carbide and HSS shanks to h6 tolerance or better

▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw

Performance



AD

G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	83 726 ... PG Y8		
short	HSK-A 63	12	85	32	49,5	40	59	46	36	M10x1	612	474,50	315,60
	HSK-A 63	6	70	26	49,5	24	44	37	27	M5	606	546,50	344,40
	HSK-A 63	8	70	28	49,5	24	44	37	27	M6	608	546,50	344,40
	HSK-A 63	10	80	30	49,5	32	54	41	31	M8x1	610	546,50	344,40
	HSK-A 63	16	90	38	49,5	46	64	49	39	M12x1	616	546,50	344,40
	HSK-A 63	20	90	42	49,5	48	64	51	41	M16x1	620	474,50	315,60

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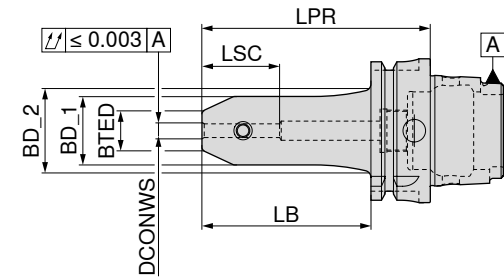


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Cylindrical shank adapter (Weldon)

▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
▲ also available with Balluff chip **on request**

Standard



Version	Adapter	DCONWS _{HS}	LPR	BTED	BD_1	BD_2	LB	LSC
		mm	mm	mm	mm	mm	mm	mm
short	HSK-A 63	6	65	17	30		39	34
	HSK-A 63	8	65	20	32		39	34
	HSK-A 63	10	65	25	35		39	39
	HSK-A 63	12	80	30	42		54	44
	HSK-A 63	14	80	32	45		54	44
	HSK-A 63	16	80	36	48		54	47
	HSK-A 63	18	80	38	48		54	47
	HSK-A 63	20	80	40	52		54	49
	HSK-A 63	25	110	45	63		84	54
	HSK-A 63	32	110	52	72		84	58
	HSK-A 100	6	80	17	30		51	34
	HSK-A 100	8	80	20	32		51	34
	HSK-A 100	10	80	25	35		51	39
	HSK-A 100	12	80	30	42		51	44
	HSK-A 100	14	80	32	45		51	44
	HSK-A 100	16	100	36	48		71	47
	HSK-A 100	18	100	38	48		71	47
	HSK-A 100	20	100	40	52		71	49
	HSK-A 100	25	100	45	65		71	54
	HSK-A 100	32	100	52	72		71	58
	HSK-A 100	40	110	60	80		81	68
medium length	HSK-A 63	6	100	17	30	36,2	74	34
	HSK-A 63	8	100	20	32	38,2	74	34
	HSK-A 63	10	100	25	35	41,2	74	39
	HSK-A 63	12	100	30	42		74	44
	HSK-A 63	14	100	32	45		74	44
	HSK-A 63	16	100	36	48		74	47
	HSK-A 63	18	100	38	48		74	47
	HSK-A 63	20	100	40	52		74	49
long	HSK-A 63	6	130	17	30	36,2	104	34
	HSK-A 63	8	130	20	32	38,2	104	34
	HSK-A 63	10	130	25	35	41,2	104	39
	HSK-A 63	12	130	30	42	48,2	104	44
	HSK-A 63	14	130	32	45	50,5	104	44
	HSK-A 63	16	130	36	48	50,1	104	47
	HSK-A 63	18	130	38	48	50,1	104	47
	HSK-A 63	20	130	40	52		104	49
	HSK-A 63	25	130	45	63		104	54
	HSK-A 63	32	130	52	72		104	58
	HSK-A 100	6	160	17	30	38,2	131	34
	HSK-A 100	8	160	20	32	40,2	131	34
	HSK-A 100	10	160	25	35	43,2	131	39
	HSK-A 100	12	160	30	42	50,2	131	44
	HSK-A 100	14	160	32	45	53,2	131	44
	HSK-A 100	16	160	36	48	56,2	131	47
	HSK-A 100	18	160	38	48	56,2	131	47
	HSK-A 100	20	160	40	52	60,2	131	49
	HSK-A 100	25	160	45	65	73,2	131	54
	HSK-A 100	32	160	52	72	79,5	134	58
extra-long	HSK-A 63	6	160	17	30	36,2	134	34
	HSK-A 63	8	160	20	32	38,2	134	34
	HSK-A 63	10	160	25	35	41,2	134	39
	HSK-A 63	12	160	30	42	48,2	134	44
	HSK-A 63	14	160	32	45	50,5	134	44
	HSK-A 63	16	160	36	48	50,1	134	47
	HSK-A 63	18	160	38	48	50,1	134	47
	HSK-A 63	20	160	40	52		134	49
	HSK-A 63	25	160	45	63		134	54
	HSK-A 100	6	200	17	30	38,2	161	34
	HSK-A 100	8	200	20	32	40,2	161	34
	HSK-A 100	10	200	25	35	43,2	161	39
	HSK-A 100	12	200	30	42	50,2	161	44
	HSK-A 100	14	200	32	45	53,2	161	44
	HSK-A 100	16	200	36	48	56,2	161	47
	HSK-A 100	18	200	38	48	56,2	161	47
	HSK-A 100	20	200	40	52	60,2	161	49
	HSK-A 100	25	200	45	65	73,2	161	54
	HSK-A 100	32	200	52	72	79,5	164	58

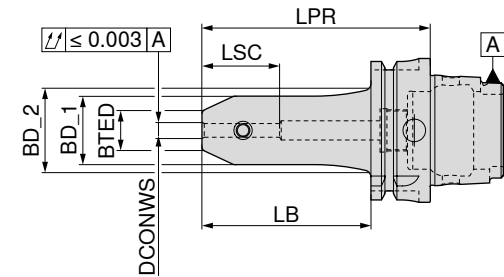
1) Version with two grub screws

AD - 2KMB G 2,5 n _{max} 25000				AD G 2,5 n _{max} 25000			
82 740 ...		PG Y8/3B		82 741 ...		PG Y8/3B	
		EUR	EUR			EUR	EUR
10657	140,60	63,60		10657	107,00	48,00	
10857	140,60	63,60		10857	107,00	48,00	
11057	140,60	63,60		11057	107,00	48,00	
11257	140,60	63,60		11257	107,00	48,00	
11457	140,60	63,60		11457	107,00	48,00	
11657	140,60	63,60		11657	107,00	48,00	
11857	140,60	63,60		11857	107,00	48,00	
12057	140,60	63,60		12057	107,00	48,00	
12557 ¹⁾	140,60	63,60		12557 ¹⁾	107,00	48,00	
13257 ¹⁾	140,60	63,60		13257 ¹⁾	107,00	48,00	
10655	100,50	85,20		10655	104,50	74,40	
10855	100,50	85,20		10855	104,50	74,40	
11055	100,50	85,20		11055	104,50	74,40	
11255	100,50	85,20		11255	104,50	74,40	
11455	100,50	85,20		11455	104,50	74,40	
11655	100,50	85,20		11655	104,50	74,40	
11855	100,50	85,20		11855	104,50	74,40	
12055	100,50	85,20		12055	104,50	74,40	
12555 ¹⁾	100,50	85,20		12555 ¹⁾	104,50	74,40	
13255 ¹⁾	100,50	85,20		13255 ¹⁾	104,50	74,40	
14055 ¹⁾	100,50	85,20		14055 ¹⁾	104,50	74,40	
20657	153,70	69,60		20657	122,80	55,20	
20857	153,70	69,60		20857	122,80	55,20	
21057	153,70	69,60		21057	122,80	55,20	
21257	153,70	69,60		21257	122,80	55,20	
21457	153,70	69,60		21457	122,80	55,20	
21657	153,70	69,60		21657	122,80	55,20	
21857	153,70	69,60		21857	122,80	55,20	
22057	153,70	69,60		22057	122,80	55,20	
30657	164,20	74,40		30657	135,30	61,20	
30857	164,20	74,40		30857	135,30	61,20	
31057	164,20	74,40		31057	135,30	61,20	
31257	164,20	74,40		31257	135,30	61,20	
31457	164,20	74,40		31457	135,30	61,20	
31657	164,20	74,40		31657	135,30	61,20	
31857	164,20	74,40		31857	135,30	61,20	
32057	164,20	74,40		32057	135,30	61,20	
32557 ¹⁾	164,20	74,40		32557 ¹⁾	135,30	61,20	
33257 ¹⁾	164,20	74,40		33257 ¹⁾	135,30	61,20	

Cylindrical shank adapter (Weldon)

▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
▲ also available with Balluff chip **on request**

Standard



Version	Adapter	DCONWS _{HS}	LPR	BTED	BD_1	BD_2	LB	LSC
		mm	mm	mm	mm	mm	mm	mm
extra-long	HSK-A 100	6	160	17	30	38,2	131	34
	HSK-A 100	8	160	20	32	40,2	131	34
	HSK-A 100	10	160	25	35	43,2	131	39
	HSK-A 100	12	160	30	42	50,2	131	44
	HSK-A 100	14	160	32	45	53,2	131	44
	HSK-A 100	16	160	36	48	56,2	131	47
	HSK-A 100	18	160	38	48	56,2	131	47
	HSK-A 100	20	160	40	52	60,2	131	49
	HSK-A 100	25	160	45	65	73,2	131	54
	HSK-A 100	32	160	52	72	79,5	134	58
	HSK-A 63	6	160	17	30	36,2	134	34
	HSK-A 63	8	160	20	32	38,2	134	34
	HSK-A 63	10	160	25	35	41,2	134	39
	HSK-A 63	12	160	30	42	48,2	134	44
	HSK-A 63	14	160	32	45	50,5	134	44
	HSK-A 63	16	160	36	48	50,1	134	47
	HSK-A 63	18	160	38	48	50,1	134	47
	HSK-A 63	20	160	40	52		134	49
	HSK-A 63	25	160	45	63		134	54
	HSK-A 100	6	200	17	30	38,2	161	34
	HSK-A 100	8	200	20	32	40,2	161	34
	HSK-A 100	10	200	25	35	43,2	161	39
	HSK-A 100	12	200	30	42	50,2	161	44
	HSK-A 100	14	200	32	45	53,2	161	44
	HSK-A 100	16	200	36	48	56,2	161	47
	HSK-A 100	18	200	38	48	56,2	161	47
	HSK-A 100	20	200	40	52	60,2	161	49
	HSK-A 100	25	200	45	65	73,2	161	54
	HSK-A 100	32	200	52	72	79,5	164	58

1) Version with two grub screws

					
AD - 2KMB	AD				
G 2,5 n _{max} 25000	G 2,5 n _{max} 25000				
82 740 ...	82 741 ...				
PG Y8/3B	PG Y8/3B				
EUR	EUR				
EUR	EUR				
40655	230,10	104,40	40655	214,40	97,20
40855	230,10	104,40	40855	214,40	97,20
41055	230,10	104,40	41055	214,40	97,20
41255	230,10	104,40	41255	214,40	97,20
41455	230,10	104,40	41455	214,40	97,20
41655	230,10	104,40	41655	214,40	97,20
41855	230,10	104,40	41855	214,40	97,20
42055	230,10	104,40	42055	214,40	97,20
42555 ¹⁾	230,10	104,40	42555 ¹⁾	214,40	97,20
43255 ¹⁾	230,10	104,40	43255 ¹⁾	214,40	97,20
40657	174,70	79,20	40657	148,00	67,20
40857	174,70	79,20	40857	148,00	67,20
41057	174,70	79,20	41057	148,00	67,20
41257	174,70	79,20	41257	148,00	67,20
41457	174,70	79,20	41457	148,00	67,20
41657	174,70	79,20	41657	148,00	67,20
41857	174,70	79,20	41857	148,00	67,20
42057	174,70	79,20	42057	148,00	67,20
42557 ¹⁾	174,70	79,20	42557 ¹⁾	148,00	67,20

ER precision collet

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ Double taper collet
- ▲ 16 times slotted



DCONWS mm	BD = 17 OAL = 27,5 426 E / ER16			BD = 21 OAL = 31,5 428 E / ER20			BD = 26 OAL = 34 430 E / ER25			BD = 33 OAL = 40 470 E / ER32			BD = 41 OAL = 46 472 E / ER40		
	82 687 ... PG Y8			82 688 ... PG Y8			82 689 ... PG Y8			82 690 ... PG Y8			82 691 ... PG Y8		
	EUR		EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR		EUR
1	01000	20,14	10,80	01000	20,81	10,80	02000	21,62	12,00				03000	22,03	12,00
2	02000	20,14	10,80	02000	20,81	10,80							04000	22,03	12,00
3	03000	16,36	8,40	03000	15,13	8,40	03000	16,22	8,40	03000	17,45	9,60	03000	22,03	12,00
4	04000	16,36	8,40	04000	15,13	8,40	04000	16,22	8,40	04000	17,45	9,60	04000	22,03	12,00
5	05000	16,36	8,40	05000	15,13	8,40	05000	16,22	8,40	05000	17,45	9,60	05000	22,03	12,00
6	06000	16,36	8,40	06000	15,13	8,40	06000	16,22	8,40	06000	17,45	9,60	06000	22,03	12,00
7	07000	16,36	8,40	07000	15,13	8,40	07000	16,22	8,40	07000	17,45	9,60	07000	22,03	12,00
8	08000	16,36	8,40	08000	15,13	8,40	08000	16,22	8,40	08000	17,45	9,60	08000	22,03	12,00
9	09000	16,36	8,40	09000	15,13	8,40	09000	16,22	8,40	09000	17,45	9,60	09000	22,03	12,00
10	10000	16,36	8,40	10000	15,13	8,40	10000	16,22	8,40	10000	17,45	9,60	10000	22,03	12,00
11				11000	15,13	8,40	11000	16,22	8,40	11000	17,45	9,60	11000	22,03	12,00
12				12000	15,13	8,40	12000	16,22	8,40	12000	17,45	9,60	12000	22,03	12,00
13				13000	15,13	8,40	13000	16,22	8,40	13000	17,45	9,60	13000	22,03	12,00
14							14000	16,22	8,40	14000	17,45	9,60	14000	22,03	12,00
15							15000	16,22	8,40	15000	17,45	9,60	15000	22,03	12,00
16							16000	16,22	8,40	16000	17,45	9,60	16000	22,03	12,00
17										17000	17,45	9,60	17000	22,03	12,00
18										18000	17,45	9,60	18000	22,03	12,00
19										19000	17,45	9,60	19000	22,03	12,00
20										20000	17,45	9,60	20000	22,03	12,00
21													21000	22,03	12,00
22													22000	22,03	12,00
23													23000	22,03	12,00
24													24000	22,03	12,00
25													25000	22,03	12,00
26													26000	22,03	12,00

Collet Set

Scope of supply

- 82 687 01000 DCONWS 1,0
82 687 02000 DCONWS 2,0
82 687 03000 DCONWS 3,0
82 687 04000 DCONWS 4,0
82 687 05000 DCONWS 5,0
- 82 687 06000 DCONWS 6,0
82 687 07000 DCONWS 7,0
82 687 08000 DCONWS 8,0
82 687 09000 DCONWS 9,0
82 687 10000 DCONWS 10,0



Set	BD mm	OAL mm	82 687 ... PG Y8	
			EUR	EUR
426 E / ER16	17	27,5	99900	101,30 99,60

Collet Set

Scope of supply

- 82 688 01000 DCONWS 1,0
82 688 02000 DCONWS 2,0
82 688 03000 DCONWS 3,0
82 688 04000 DCONWS 4,0
82 688 05000 DCONWS 5,0
82 688 06000 DCONWS 6,0
82 688 07000 DCONWS 7,0
- 82 688 08000 DCONWS 8,0
82 688 09000 DCONWS 9,0
82 688 10000 DCONWS 10,0
82 688 11000 DCONWS 11,0
82 688 12000 DCONWS 12,0
82 688 13000 DCONWS 13,0



Set	BD mm	OAL mm	82 688 ... PG Y8	
			EUR	EUR
428 E / ER20	21	31,5	99900	104,70 106,80

Collet Set

Scope of supply

- 82 689 02000 DCONWS 2,0
82 689 03000 DCONWS 3,0
82 689 04000 DCONWS 4,0
82 689 05000 DCONWS 5,0
82 689 06000 DCONWS 6,0
82 689 07000 DCONWS 7,0
82 689 08000 DCONWS 8,0
82 689 09000 DCONWS 9,0
- 82 689 10000 DCONWS 10,0
82 689 11000 DCONWS 11,0
82 689 12000 DCONWS 12,0
82 689 13000 DCONWS 13,0
82 689 14000 DCONWS 14,0
82 689 15000 DCONWS 15,0
82 689 16000 DCONWS 16,0



Set	BD mm	OAL mm	82 689 ... PG Y8	
			EUR	EUR
430 E / ER25	26	34	99900	255,60 140,40

Collet Set

Scope of supply

- 82 690 03000 DCONWS 3,0
82 690 04000 DCONWS 4,0
82 690 05000 DCONWS 5,0
82 690 06000 DCONWS 6,0
82 690 07000 DCONWS 7,0
82 690 08000 DCONWS 8,0
82 690 09000 DCONWS 9,0
82 690 10000 DCONWS 10,0
82 690 11000 DCONWS 11,0
- 82 690 12000 DCONWS 12,0
82 690 13000 DCONWS 13,0
82 690 14000 DCONWS 14,0
82 690 15000 DCONWS 15,0
82 690 16000 DCONWS 16,0
82 690 17000 DCONWS 17,0
82 690 18000 DCONWS 18,0
82 690 19000 DCONWS 19,0
82 690 20000 DCONWS 20,0



Set	BD mm	OAL mm	82 690 ... PG Y8	
			EUR	EUR
470 E / ER32	33	40	99900	313,70 171,60

Collet Set

Scope of supply

- 82 691 03000 DCONWS 3,0
82 691 04000 DCONWS 4,0
82 691 05000 DCONWS 5,0
82 691 06000 DCONWS 6,0
82 691 07000 DCONWS 7,0
82 691 08000 DCONWS 8,0
82 691 09000 DCONWS 9,0
82 691 10000 DCONWS 10,0
82 691 11000 DCONWS 11,0
82 691 12000 DCONWS 12,0
82 691 13000 DCONWS 13,0
82 691 14000 DCONWS 14,0
- 82 691 15000 DCONWS 15,0
82 691 16000 DCONWS 16,0
82 691 17000 DCONWS 17,0
82 691 18000 DCONWS 18,0
82 691 19000 DCONWS 19,0
82 691 20000 DCONWS 20,0
82 691 21000 DCONWS 21,0
82 691 22000 DCONWS 22,0
82 691 23000 DCONWS 23,0
82 691 24000 DCONWS 24,0
82 691 25000 DCONWS 25,0
82 691 26000 DCONWS 26,0

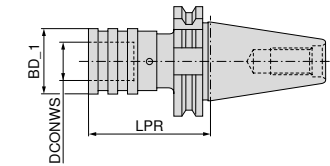


Set	BD mm	OAL mm	82 691 ... PG Y8	
			EUR	EUR
472 E / ER40	41	46	99900	530,00 290,40

Quick change tap chuck with length compensation

- ▲ With length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip **on request**

Standard

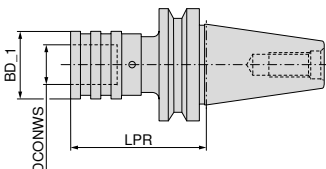


Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 428 ... PG Y8	
							EUR	EUR
SK 30	M6 - M20	02	101	55	31	15	320	388,00 250,80
SK 30	M3 - M12	01	60	38	19	9	312	340,70 220,80
SK 40	M6 - M20	02	100	55	31	15	420	205,10 184,80
SK 40	M3 - M12	01	60	38	19	9	412	265,00 170,40
SK 50	M6 - M20	02	83	55	31	15	520	428,60 276,00
SK 50	M3 - M12	01	62	38	19	9	512	393,10 255,60

Quick change tap chuck with length compensation

- ▲ With length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip **on request**

Standard



Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 528 ... PG Y8	
							EUR	EUR
BT 30	M3 - M12	01	63	38	19	9	312	200,30 222,00
BT 30	M6 - M20	02	96	55	31	15	320	367,80 278,40
BT 40	M3 - M12	01	68	38	19	9	412	231,30 178,80
BT 40	M6 - M20	02	93	55	31	15	420	244,70 184,80
BT 50	M3 - M12	01	80	38	19	9	512	390,70 298,80
BT 50	M6 - M20	02	102	55	31	15	520	450,10 344,40



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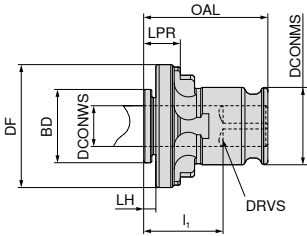


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Quick change tap adapter

- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads

Standard



AD

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR
	mm	mm			mm	mm	mm	mm
01	11,0	9,0		M14	30,2	19	31	9,5
01	3,5	2,7	M3		30,2	19	31	9,5
01	4,5	3,4	M4		30,2	19	31	9,5
01	4,0	3,0	M3,5		30,2	19	31	9,5
01	2,8	2,1	M2 - M2,6		30,2	19	31	9,5
01	5,5	4,3		M7	30,2	19	31	9,5
01	6,0	4,9	M4,5 - M6	M8	30,2	19	31	9,5
01	7,0	5,5	M7	M10	30,2	19	31	9,5
01	8,0	6,2	M8	M11	30,2	19	31	9,5
01	9,0	7,0	M9	M12	30,2	19	31	9,5
01	10,0	8,0	M10		30,2	19	31	9,5
02	11,0	9,0		M14	46,3	31	46	11,0
02	6,0	4,9	M4,5 - M6		46,3	31	46	11,0
02	7,0	5,5	M7		46,3	31	46	11,0
02	8,0	6,2	M8		46,3	31	46	11,0
02	9,0	7,0	M9		46,3	31	46	11,0
02	10,0	8,0	M10		46,3	31	46	11,0
02	12,0	9,0		M16	46,3	31	46	11,0
02	14,0	11,0		M18	46,3	31	46	11,0
02	16,0	12,0		M20	46,3	31	46	11,0
02	18,0	14,5		M22 - M24	46,3	31	46	11,0

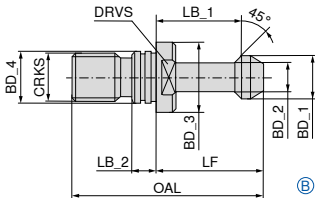
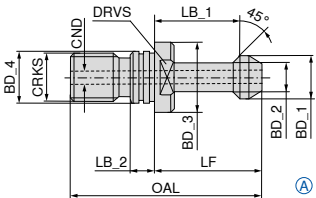
83 610 ...	PG	Y8
	EUR	EUR
110	26,49	18,00
100	26,49	18,00
101	26,49	18,00
102	26,49	18,00
103	26,49	18,00
104	26,49	18,00
105	26,49	18,00
106	26,49	18,00
107	26,49	18,00
108	26,49	18,00
109	26,49	18,00
205	36,61	25,20
200	36,61	25,20
201	36,61	25,20
202	36,61	25,20
203	36,61	25,20
204	36,61	25,20
206	36,61	25,20
207	36,61	25,20
208	36,61	25,20
209	36,61	25,20

Pull stud for tool holders according to ISO 7388-2

- ▲ MAS-BT 45° Form A and B

Scope of supply:
including O-Ring

Standard



Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	20
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	20
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	50
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	50
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	150
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	150

82 530 ...	PG	Y8
	EUR	EUR
030	12,16	8,40
040	7,62	7,20
050	12,27	9,60

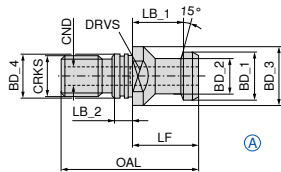
82 534 ...	PG	Y8
	EUR	EUR
030	12,94	8,40
040	9,91	8,40
050	13,39	10,80

Pull studs for tool holders according to ISO 7388-1

- ▲ ISO 7388-3 AD
- ▲ For tools with or without axial coolant supply

Scope of supply:
including O-Ring

Standard



Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
SK 30	13	9	17	13	M12	44	24	19	5	3,5	14	20
SK 40	19	14	23	17	M16	54	26	20	7	7,0	19	50
SK 50	28	21	36	25	M24	74	34	25	10	11,5	30	150

82 468 ...	PG	Y8
	EUR	EUR
030	12,16	7,20
040	6,66	6,00
050	10,11	8,40



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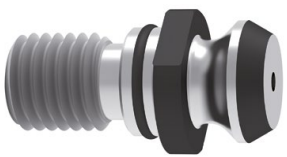
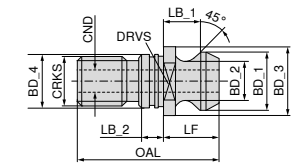
Pull studs for tool holders according to ISO 7388-1

- ▲ CAT Mazak
- ▲ Face ground flat

Scope of supply:

SK 50 including O-ring
SK 40 without O-ring groove

Standard



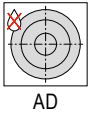
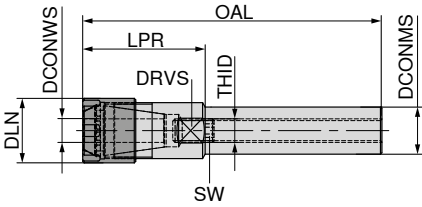
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
SK 40	18,79	12,44	21,8	17	M16	41,26	16,25	11,17	4,0	7,0	19	50
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	150

82 487 ...	PG	Y8
	EUR	EUR
040	7,05	6,00
050	10,11	9,60

ER collet chuck with mini clamping nut

- ▲ with cylindrical shank

Standard



DCONMS h6	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
8	1 - 5	81	26	12		9	4004E (ER08)
12	1 - 5	157	20	12	M5x0,8	10	4004E (ER08)
16	1 - 7	185	25	16	M7,5x0,5	14	4008E (ER11)
16	1 - 10	117	37	22	M11x1	17	426E (ER16)
16	1 - 10	199	39	22	M8x1,25	17	426E (ER16)
20	1 - 10	168	28	22	M11x1	17	426E (ER16)
25	1 - 13	168	28	28	M14x1	22	428E (ER20)
25	1 - 16	189	39	35	M18x1	27	430E (ER25)

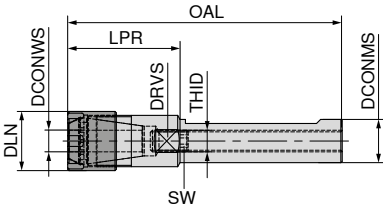
83 453 ...	PG	Y8
	EUR	EUR
081 ¹⁾	100,80	58,80
122	100,20	124,80
163	140,20	123,60
164	104,50	84,00
165	140,20	123,60
204	143,60	88,80
254	165,40	102,00
256	207,50	128,40

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

- ▲ with cylindrical shank and clamping flat

Standard



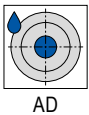
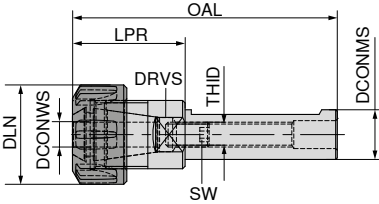
DCONMS h6	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
20	1 - 10	168	28	22	M11x1	17	426E (ER16)
20	1 - 13	138	38	28	M11x1	22	428E (ER20)
20	1 - 16	146	46	35	M14x1	27	430E (ER25)
25	1 - 13	168	28	28	M14x1	22	428E (ER20)
25	1 - 16	189	39	35	M18x1	27	430E (ER25)

83 454 ...	PG	Y8
	EUR	EUR
204	143,60	88,80
206	107,90	63,60
208	125,40	74,40
254	165,40	102,00
256	207,50	128,40

ER Collet Chuck

- ▲ with cylindrical shank and clamping flat

Standard



DCONMS h6	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
40	2 - 20	100	35	50	M22x1,5	36	470E (ER32)
40	2 - 20	160	35	50	M22x1,5	36	470E (ER32)
40	3 - 30	139	59	63	M28x1,5	40	472E (ER40)

83 455 ...	PG	Y8
	EUR	EUR
401	120,20	75,60
402	107,90	92,40
405	146,00	86,40

Note: Spanner to be ordered separately.



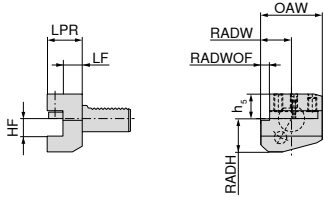
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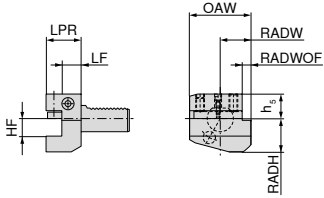
Radial tool holders, short

Performance

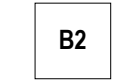


B2

DCONMS _{h6}	HF _{0±0,1}	OAW	RADW	RADWOF	h ₅	RADH	LF _{0±0,5}	LPR
mm	mm	mm	mm	mm	mm	mm	mm	mm
16	12	42	23,0	5,0	20,0	22	13,0	24
20	16	55	30,0	7,0	25,0	30	16,0	30
20	16	55	30,0	7,0	25,0	30	26,0	40
30	20	70	35,0	10,0	28,0	38	18,5	40
30	20	70	35,0	10,0	28,0	38	42,0	60
40	25	85	42,5	12,5	32,5	48	18,5	44
50	32	100	50,0	16,0	35,0	60	30,0	55



B1



Left-hand

82 189 ...	PG	Y8
EUR	EUR	
200	142,00	72,00
201	148,00	94,80
300	152,00	78,00
301	162,00	123,60
400	155,00	79,20
500	239,00	123,60

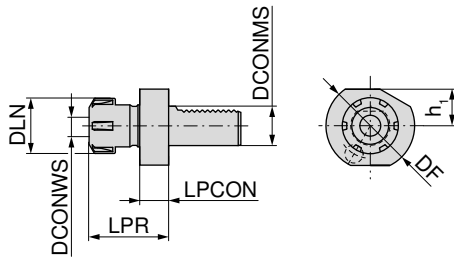


Right-hand

82 185 ...	PG	Y8
EUR	EUR	
160	132,00	85,20
200	151,00	76,80
201	146,10	88,80
300	137,00	70,80
301	141,30	117,60
400	142,00	72,00
500	236,00	121,20

ER Collet chucks

Performance

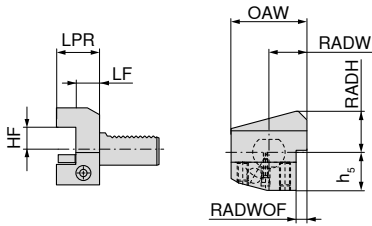


E4



Radial tool holders, overhead, short

Performance



B3



Right-hand

DCONMS _{h6}	HF _{0±0,1}	OAW	RADW	RADWOF	h ₅	RADH	LF _{0±0,5}	LPR
mm	mm	mm	mm	mm	mm	mm	mm	mm
16	12	42	23,0	5,0	20,0	22	13,0	24
20	16	55	30,0	7,0	25,0	30	26,0	40
30	20	70	35,0	10,0	35,0	38	18,5	40
40	25	85	42,5	12,5	42,5	48	18,5	44
50	32	100	50,0	16,0	50,0	60	30,0	55

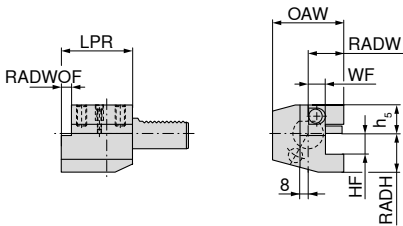
82 193 ...	PG	Y8
EUR	EUR	
160	140,70	88,80
201	174,50	111,60
300	143,20	73,20
400	144,70	76,80
500	299,00	123,60

DCONMS _{h6}	DCONWS	DF	DLN	h ₁	LPR	LPCON	for collet
mm	mm	mm	mm	mm	mm	mm	
16	1 - 10	40	28	18,0	43,5	14	426E (ER16)
16	1 - 13	40	34	18,0	44,0	14	428E (ER20)
20	1 - 16	50	42	23,0	57,0	18	430E (ER25)
20	2 - 20	50	50	23,0	62,0	18	470E (ER32)
30	1 - 16	68	42	28,0	57,0	22	430E (ER25)
30	2 - 20	68	50	28,0	75,0	22	470E (ER32)
40	1 - 16	83	42	32,5	75,0	22	430E (ER25)
40	2 - 20	83	50	32,5	75,0	22	470E (ER32)
40	3 - 26	83	63	32,5	75,0	22	472E (ER40)
50	2 - 20	94	50	35,0	75,0	30	470E (ER32)
50	3 - 26	94	63	35,0	63,0	30	472E (ER40)

82 286 ...	PG	Y8
EUR	EUR	
160	104,70	122,40
161	102,00	121,20
202	106,10	99,60
203	201,40	104,40
300	174,50	98,40
301	178,50	98,40
400	107,40	106,80
401	107,40	106,80
402	204,30	104,40
500	300,20	154,80
501	300,20	154,80

Axial tool holders

Performance



C1



Right-hand

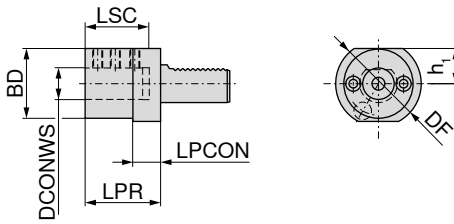
DCONMS _{h6}	HF _{0±0,1}	OAW	RADW	WF _{0±0,3}	h ₅	RADH	LPR	RADWOF
mm	mm	mm	mm	mm	mm	mm	mm	mm
30	20	70	35,0	17,0	28,0	38	70	10,0
40	25	85	42,5	20,5	32,5	48	85	12,5
50	32	100	50,0	25,5	35,0	60	100	16,0

82 211 ...	PG	Y8
EUR	EUR	
300	160,00	82,80
400	183,00	96,00
500	273,10	139,20

Boring bar holder

- ▲ for turning tools with cylindrical shank
- ▲ Coolant supply either through the tool or via the ball-shaped spray nozzle

Performance



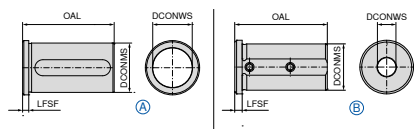
E2



Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank

Performance



DCONMS	DCONWS	OAL	LFSF	Fig.
mm	mm	mm	mm	
25	12	50	4	B
25	6	50	4	B
25	8	50	4	B
25	10	50	4	B
25	16	50	4	A
25	20	50	4	A
32	6	58	5	B
32	8	58	5	B
32	10	58	5	B
32	12	58	5	B
32	16	58	5	A
32	20	58	5	A
32	25	58	5	A
40	8	58	5	B
40	10	58	5	B
40	12	58	5	B
40	16	58	5	A
40	20	58	5	A
40	25	58	5	A
40	32	58	5	A
50	25	75	5	A
50	12	75	5	B
50	16	75	5	A
50	20	75	5	A
50	32	75	5	A
50	40	75	5	A

83 272 ...	PG	Y8
EUR	EUR	
262	63,73	48,00
256	62,34	63,60
258	63,70	48,00
260	63,70	48,00
266	63,70	48,00
270	63,70	48,00
326	95,05	64,80
328	95,05	64,80
330	95,05	49,20
332	95,05	49,20
336	95,05	49,20
340	95,05	49,20
345	95,05	49,20
408	103,30	79,20
410	95,05	64,80
412	94,92	64,80
416	94,92	64,80
420	94,92	64,80
425	94,92	64,80
432	94,92	64,80
525	95,73	73,20
512	95,73	73,20
516	95,73	73,20
520	95,73	73,20
532	95,73	73,20
540	95,73	73,20

DCONMS _{h6}	DCONWS _{h7}	DF	BD	h ₁	LPR	LPCON	LSC
mm	mm	mm	mm	mm	mm	mm	mm
16	6	40	32	18,0	44	13	34
16	8	40	32	18,0	44	13	34
16	10	40	32	18,0	44	13	34
16	12	40	40	18,0	44	13	34
16	16	40	40	18,0	44	13	34
20	8	50	40	23,0	50	18	41
20	10	50	40	23,0	50	18	41
20	12	50	40	23,0	50	18	41
20	16	50	40	23,0	50	18	41
20	20	50	50	23,0	50	18	41
20	25	50	50	23,0	60	18	51
30	8	68	55	28,0	60	22	51
30	10	68	55	28,0	60	22	51
30	12	68	55	28,0	60	22	51
30	16	68	55	28,0	60	22	51
30	20	68	55	28,0	60	22	51
30	25	68	55	28,0	60	22	51
30	32	68	68	28,0	75	22	61
40	8	83	55	32,5	75	22	61
40	10	83	55	32,5	75	22	61
40	12	83	55	32,5	75	22	61
40	16	83	55	32,5	75	22	61
40	20	83	55	32,5	75	22	61
40	25	83	55	32,5	75	22	61
40	32	83	83	32,5	75	22	61
40	40	83	83	32,5	90	22	76
50	12	98	68	35,0	90	30	76
50	16	98	68	35,0	90	30	76
50	20	98	68	35,0	90	30	76
50	25	98	68	35,0	90	30	76
50	32	98	68	35,0	90	30	76
50	40	98	98	35,0	90	30	76
50	50	98	98	35,0	100	30	86

82 268 ...	PG	Y8
EUR	EUR	
160 ¹⁾	162,40	104,40
161 ¹⁾	137,00	80,40
162 ¹⁾	137,00	80,40
163 ¹⁾	137,00	80,40
164 ¹⁾	137,00	80,40
200	144,70	74,40
201	144,70	74,40
202	144,70	74,40
203	144,70	74,40
204	144,70	74,40
205	144,70	74,40
300	142,00	72,00
301	142,00	72,00
302	142,00	72,00
303	142,00	72,00
304	142,00	72,00
305	142,00	72,00
306	142,00	72,00
400	144,70	74,40
401	144,70	74,40
402	144,70	74,40
403	144,70	74,40
404	144,70	74,40
405	144,70	74,40
406	144,70	74,40
407	144,70	74,40
500	206,00	106,80
501	206,00	106,80
502	206,00	106,80
503	107,40	102,00
504	107,40	102,00
505	107,40	102,00
506	107,40	102,00

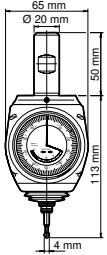
1) Coolant supply through pipe joint



Universal 3D-tester

- ▲ Quick and accurate positioning
- ▲ For locating and/or setting the zero point of the workpiece
- ▲ with adjustable concentricity
- ▲ Usable in all 3 axes (x, y, z)
- ▲ For all CNC and erosion machines (insulation between stylus and case)
- ▲ Reading of actual dimensions is independent of direction
- ▲ Reading precision 0.01 mm

Scope of supply
3D tester including tracer insert and
Allen key



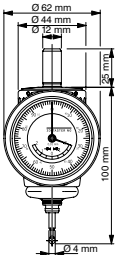
	85 290 ...	PG XX		
			EUR	EUR
			100	449,40 300,00

Universal 3D-tester

Universal 3D-Tester HQ

- ▲ fast and accurate positioning at reference edges
- ▲ Development of the existing universal 3D-Testers
- ▲ improved mechanics
- ▲ compact size
- ▲ characterised by over travel safety
- ▲ Functionality as with 85 290 100
- ▲ Accuracy 0,01 mm

Scope of supply
3D tester including tracer insert and
Allen key



	85 292 ...	PG XX		
			EUR	EUR
			100	449,40 336,00

Universal 3D-Tester HQ

Countersink 90°, DIN 335-C

- ▲ included in the set:
6.3 mm, 8.3 mm, 10.4 mm, 12.4 mm,
16.5 mm and 20.5 mm

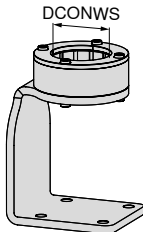


Set	30 100 ...	PG U1		
			EUR	EUR
			999	92,36 28,80

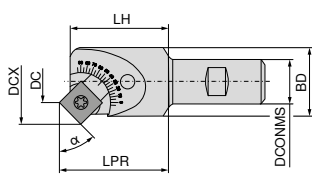
Assembly fixture for tool holders

- ▲ gripping by roller
- ▲ secure clamping
- ▲ quick assembly, no additional clamping necessary

Standard



Adjustable single angle milling cutter C 4500



Designation	DCONMS	DC	DCX	LH	BD	LPR	50 690 ...	PG 2B/40		
	mm	mm	mm	mm	mm	mm			EUR	EUR
C490.20.R.01	16.0	1.6-11.1	20.1-23.6	32.0	18.65	23.9-34.6			01600	185,46 32,40
C490.26.R.01	20.0	1.1-14.1	26.6-31.5	37.0	25.00	38.2-40.6	02000		247,60 38,40	

Zero height setting gauge



Designation	Height	85 900 ...	PG Y7		
	mm			EUR	EUR
Zero height setting gauge	100			018	160,00 90,00

Twist drill sets DIN 338 – Type N short

- ▲ In metal box
- ▲ In 0.1 mm steps



	Ø	mm	10 158 ...	PG T2		
					EUR	EUR
					050	115,70 48,00
0.1 mm steps	1.0–5.9		050		254,16 96,00	
0.1 mm steps	6.0–10		100			

Assembly device for ISO adapters

- ▲ Aluminium



Collet chuck	80 720 ...	PG Y7		
			EUR	EUR
SK 30			030	129,60 66,00
SK 40	040		120,60 72,00	
SK 50	050		216,20 81,60	

Collet Set

Scope of supply

82 689 02000 DCONWS 2,0
82 689 03000 DCONWS 3,0
82 689 04000 DCONWS 4,0
82 689 05000 DCONWS 5,0
82 689 06000 DCONWS 6,0
82 689 07000 DCONWS 7,0
82 689 08000 DCONWS 8,0
82 689 09000 DCONWS 9,0
82 689 10000 DCONWS 10,0
82 689 11000 DCONWS 11,0
82 689 12000 DCONWS 12,0
82 689 13000 DCONWS 13,0
82 689 14000 DCONWS 14,0
82 689 15000 DCONWS 15,0
82 689 16000 DCONWS 16,0

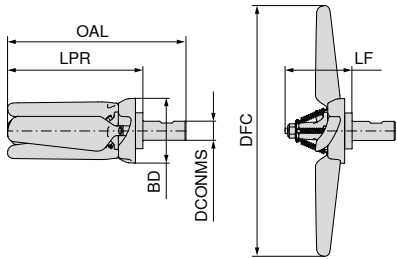


Countersink 90°, DIN 335-C	BD	OAL	82 689 ...	PG Y8		
	mm	mm			EUR	EUR
430 E / ER25	26	34			99900	255,60 140,40

Cleaning propeller

- ▲ Chip and emulsion removal or drying processes via the tool spindle
- ▲ Simple replacement of the rotor blades

Standard



IK central

80 399 ...	PG Y7		
		EUR	EUR
		02000	221,20 120,00

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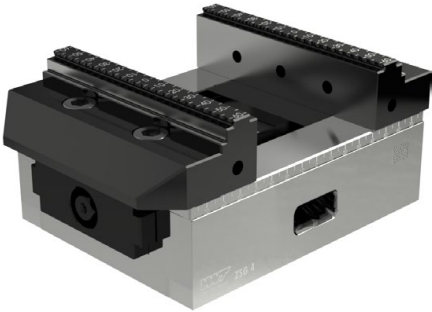
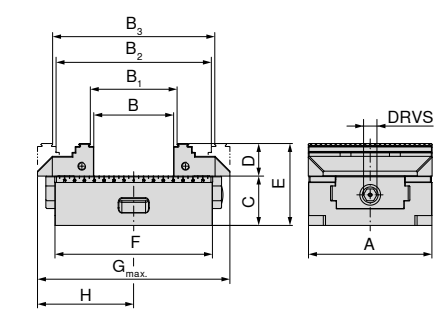


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CentriClamp – ZSG 4

- ▲ Sealed centric vice
- ▲ With grip jaws, 3 mm
- ▲ Ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability
- ▲ Suitable for PNG and MNG

ZSG 4 Standard



A	B	B ₁	B ₂	B ₃	C ±0.01	D	E	F	G _{max}	H	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
80	0 - 59	4 - 63	59 - 117	63 - 121	50	28	78	130	157	81	12	25	3.9
80	0 - 123	4 - 127	59 - 181	63 - 185	50	28	78	190	206	104	12	25	5.5
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111	12	35	8.7

80 878 ...	PG	Y4
	EUR	EUR
08700	777,00	627,60
08800	889,00	717,60
15300	986,00	792,00

Base plate, round



80 899 ...	PG	Y4
	EUR	EUR
125	574,00	460,80

MNG indexing bolt



80 899 ...	PG	Y4
	EUR	EUR
51500	47,30	13,20

MNG pull studs



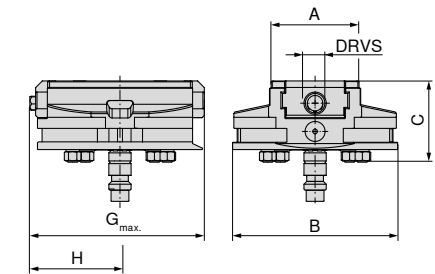
80 899 ...	PG	Y4
	EUR	EUR
025	48,60	39,60

i It is not possible to fit top jaws with a height of 40 mm, if this height is required, please use the reversible jaws with D = 40 mm (Article No. **80 878 520**).

CentriClamp – ZSG 4

- ▲ Sealed centric vice for Erowa ITS 148
- ▲ Ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability

ZSG 4 Standard



A	C	F	G _{max}	DRVS	MXC	WT
mm	mm	mm	mm	mm	kN	kg
80	73	148	130	12	25	5,6

80 878 ...	PG	Y4
	EUR	EUR
08900	1.370,00	1.104,00



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