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VALID: 01.02.2026 – 30.04.2026

NEW

WTX – UNI & WTX – Quattro

from CERATIZIT

Available from 3xD up to 12xD!
 WTX – UNI Deep also available
 from 16xD up to 50xD in our
 Online Shop...

→ See pages 3-5

Cone-shaped finish

Patented end geometry



SPECIAL OFFERS

With 100,000+ high quality cutting tools CERATIZIT leads the market with the most comprehensive product range available. In this brochure you will find 8,000+ carefully selected products to cover 80% of your metal cutting applications at special nett prices to give you a competitive edge.

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

Tooling a Sustainable Future




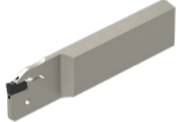










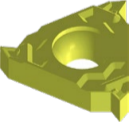

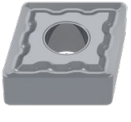

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CERATIZIT
 GROUP



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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

SEE THE NEW SPECIAL OFFERS E-CATALOGUE

Download your e-Catalogue here



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



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.



SOLID CARBIDE DRILLING



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



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

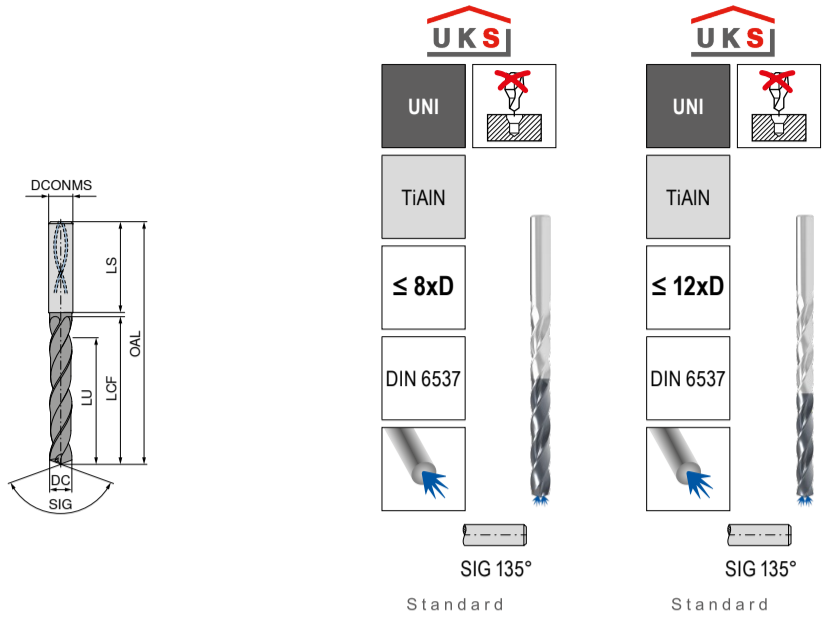


WPC Change – good solution for lathes with mis-alignment and lower powered machines. Cost effective solution in larger diameters above $\text{\O} 20$ mm in 0.1 mm increments.



WPC Change – Cost effective and high performance solution for structural steel applications.

WPC – High Performance Drill, factory standard

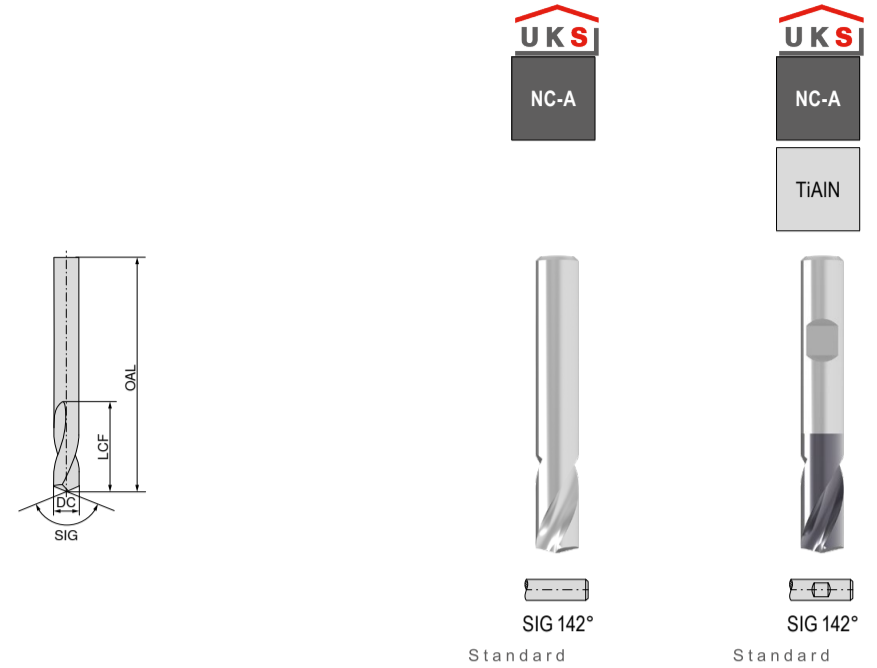


DC h7 mm	11 704 ... PG CX		11 705 ... PG CX	
	£	£	£	£
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3.1	62.72	48.00	64.33	65.00
3.2	62.72	48.00	64.33	65.00
3.3	62.72	48.00	64.33	65.00
3.4	62.72	48.00	64.33	65.00
3.5	62.72	48.00	64.33	65.00
3.6	62.72	48.00	64.33	65.00
3.7	62.72	48.00	64.33	65.00
3.8	62.72	48.00	64.33	65.00
3.9	62.72	48.00	64.33	65.00
4.0	62.72	48.00	64.33	65.00
4.1	62.72	48.00	64.33	65.00
4.2	62.72	48.00	64.33	65.00
4.3	62.72	48.00	64.33	65.00
4.4	62.72	48.00	64.33	65.00
4.5	62.72	48.00	64.33	65.00
4.6	62.72	48.00	64.33	65.00
4.7	62.72	48.00	64.33	65.00
4.8	62.72	48.00	64.33	65.00
4.9	62.72	48.00	64.33	65.00
5.0	62.72	48.00	64.33	65.00
5.1	62.72	48.00	64.33	65.00
5.2	62.72	48.00	64.33	65.00
5.3	62.72	48.00	64.33	65.00
5.4	62.72	48.00	64.33	65.00
5.5	62.72	48.00	64.33	65.00
5.6	62.72	48.00	64.33	65.00
5.7	62.72	48.00	64.33	65.00
5.8	62.72	48.00	64.33	65.00
5.9	62.72	48.00	64.33	65.00
6.0	62.72	48.00	64.33	65.00
6.1	77.32	60.00	66.10	72.00
6.2	77.32	60.00	66.10	72.00
6.3	77.32	60.00	66.10	72.00
6.4	77.32	60.00	66.10	72.00
6.5	77.32	60.00	66.10	72.00
6.6	77.32	60.00	66.10	72.00
6.7	77.32	60.00	66.10	72.00
6.8	77.32	60.00	66.10	72.00
6.9	77.32	60.00	66.10	72.00
7.0	77.32	60.00	66.10	72.00
7.1	77.32	60.00	66.10	72.00
7.2	77.32	60.00	66.10	72.00
7.3	77.32	60.00	66.10	72.00
7.4	77.32	60.00	66.10	72.00
7.5	77.32	60.00	66.10	72.00
7.6	77.32	60.00	66.10	72.00
7.7	77.32	60.00	66.10	72.00
7.8	77.32	60.00	66.10	72.00
7.9	77.32	60.00	66.10	72.00
8.0	77.32	60.00	66.10	72.00
8.1	95.20	73.00	101.50	101.00
8.2	95.20	73.00	101.50	101.00
8.3	95.20	73.00	101.50	101.00
8.4	95.20	73.00	101.50	101.00
8.5	95.20	73.00	101.50	101.00
8.6	95.20	73.00	101.50	101.00
8.7	95.20	73.00	101.50	101.00
8.8	95.20	73.00	101.50	101.00
8.9	95.20	73.00	101.50	101.00
9.0	95.20	73.00	101.50	101.00
9.1	95.20	73.00	101.50	101.00
9.2	95.20	73.00	101.50	101.00
9.3	95.20	73.00	101.50	101.00
9.4	95.20	73.00	101.50	101.00
9.5	95.20	73.00	101.50	101.00
9.6	95.20	73.00	101.50	101.00
9.7	95.20	73.00	101.50	101.00
9.8	95.20	73.00	101.50	101.00
9.9	95.20	73.00	101.50	101.00
10.0	95.20	73.00	101.50	101.00
10.2	126.51	98.00	101.20	140.00
10.5	126.51	98.00	101.20	140.00
10.8	126.51	98.00	101.20	140.00
11.0	126.51	98.00	101.20	140.00
11.5	126.51	98.00	101.20	140.00
11.8	126.51	98.00	101.20	140.00
12.0	126.51	98.00	101.20	140.00
12.2	189.72	146.00	101.20	140.00
12.5	189.72	146.00	101.20	140.00
12.7	189.72	170.00	101.20	140.00
12.8	189.72	170.00	233.40	180.00
13.0	189.72	146.00	233.40	180.00
13.5	189.72	146.00	233.40	180.00
13.8	189.72	146.00	233.40	180.00
14.0	189.72	146.00	233.40	180.00
14.5	247.85	192.00	267.70	238.00
14.8	247.85	192.00	267.70	238.00
15.0	247.85	192.00	267.70	238.00
15.5	247.85	192.00	267.70	238.00
15.8	247.85	192.00	267.70	238.00
16.0	247.85	192.00	267.70	238.00
16.5	247.85	192.00	267.70	238.00
17.0	247.85	192.00	267.70	238.00
17.5	247.85	192.00	267.70	238.00
18.0	247.85	192.00	267.70	238.00
18.5	267.50	276.00	267.50	284.00
19.0	267.50	276.00	267.50	284.00
19.5	267.50	276.00	267.50	284.00
20.0	267.50	276.00	267.50	284.00

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NC Spot Drill, factory standard



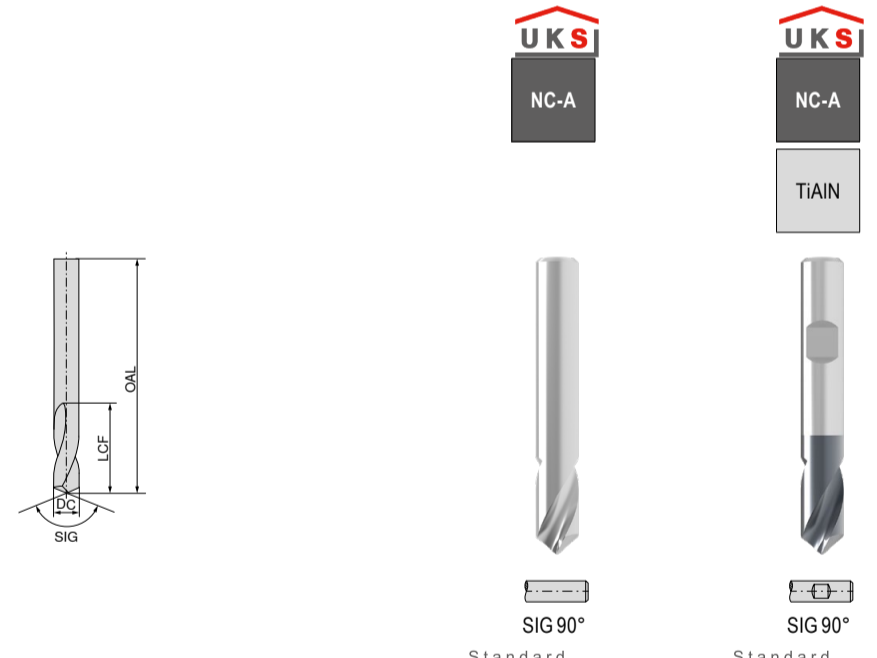
DC js8 mm	OAL mm	LCF mm	10 704 ... PG CX		10 718 ... PG CX	
			£	£	£	£
2	32	6	12.12	10.00	18.63	17.00
3	32	8	12.12	10.00	18.63	17.00
4	40	10	13.51	13.00	20.19	18.00
5	50	13	15.47	15.00	22.16	20.00
6	50	13	17.23	17.00	23.85	22.00
8	60	23	26.59	23.00	33.51	30.00
10	70	24	37.33	33.00	44.14	40.00
12	70	24	50.35	45.00	57.35	52.00
14	75	26	73.99	63.00	85.42	77.00
16	75	29	91.33	82.00	98.47	90.00
18	100	35	172.26	155.00	177.25	162.00
20	100	35	161.59	150.00	186.19	170.00

P	○	○
M		
K	○	○
N	●	●
S		
H		
O		

P	○	○
M		
K	○	○
N	●	●
S		
H		
O	○	○

1) DIN 6535 HA Shank

NC Spot Drill, factory standard



DC js8 mm	OAL mm	LCF mm	10 702 ... PG CX		10 716 ... PG CX	
			£	£	£	£
2	32	6	12.12	10.00	18.63	17.00
3	32	8	12.12	10.00	18.63	17.00
4	40	10	13.51	13.00	20.19	18.00
5	50	13	15.47	15.00	22.16	20.00
6	50	13	17.23	17.00	23.85	22.00
8	60	23	26.59	23.00	33.51	30.00
10	70	24	37.33	33.00	44.14	40.00
12	70	24	50.35	45.00	57.35	52.00
14	75	26	73.99	63.00	85.42	77.00
16	75	29	91.33	82.00	98.47	90.00
18	100	35	172.26	155.00	177.25	162.00
20	100	35	161.59	150.00	186.19	170.00

P	○	○
M		
K	○	○
N	●	●
S		
H		
O		

P	○	○
M		
K	○	○
N	●	●
S		
H		
O	○	○

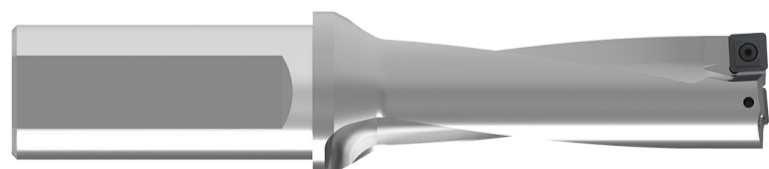
1) DIN 6535 HA Shank



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.



REAMING



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



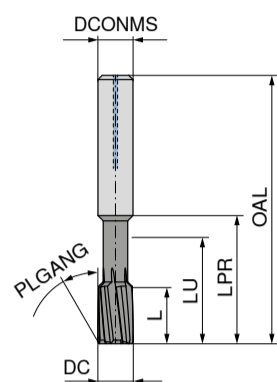
Type N – for all standard low volume applications.

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	RT
4	12	17	22	50	4	4	04000	115.50	64.00
5	12	23	28	64	6	4	05000	117.30	65.00
6	12	23	28	64	6	4	06000	119.80	66.00
7	16	29	39	75	8	6	07000	125.22	69.00
8	16	29	39	75	8	6	08000	125.22	69.00
9	16	35	40	80	10	6	09000	176.73	98.00
10	16	35	40	80	10	6	10000	176.73	98.00
11	20	40	45	90	12	6	11000	234.61	130.00
12	20	40	45	90	12	6	12000	234.61	130.00
16	20	40	45	93	16	8	16000	347.79	193.00

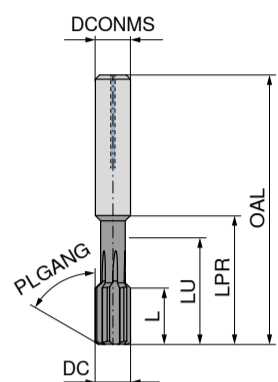
P	●
M	●
K	●
N	○
S	○
H	○
O	○

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	RT
4	12	17	22	50	4	4	04000	96.32	53.00
5	12	23	28	64	6	4	05000	98.04	54.00
6	12	23	28	64	6	4	06000	102.43	57.00
7	16	29	39	75	8	6	07000	107.67	60.00
8	16	29	39	75	8	6	08000	107.67	60.00
9	16	35	40	80	10	6	09000	154.03	85.00
10	16	35	40	80	10	6	10000	154.03	85.00
11	20	40	45	90	12	6	11000	204.77	114.00
12	20	40	45	90	12	6	12000	204.77	114.00
16	20	40	45	93	16	8	16000	311.23	173.00

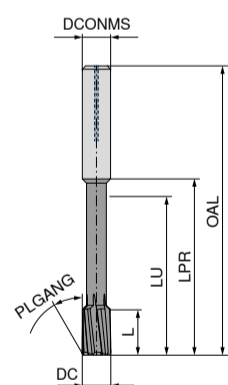
P	●
M	●
K	●
N	○
S	○
H	○
O	○

KOMET Fullmax – High-performance machine reamers, long

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



Performance



52P.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	40 484 ...	PG	RT
4	12	28	32	60	4	4	04000	149.12	86.00
5	12	35	40	76	6	4	05000	151.36	87.00
6	12	35	40	76	6	4	06000	154.71	89.00
7	16	60	65	101	8	6	07000	161.42	93.00
8	16	60	65	101	8	6	08000	161.42	93.00
9	16	63	68	108	10	6	09000	228.07	132.00
10	16	63	68	108	10	6	10000	228.07	132.00
11	20	80	85	130	12	6	11000	302.63	175.00
12	20	80	85	130	12	6	12000	302.63	175.00
16	20	97	102	150	16	6	16000	397.49	230.00

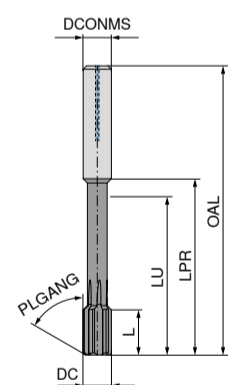
P	●
M	●
K	●
N	○
S	○
H	○
O	○

KOMET Fullmax – High-performance machine reamers, long

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



Performance



52M.57

straight flute
PLGANG 60°
ASG2110
Solid carbide
Blind hole

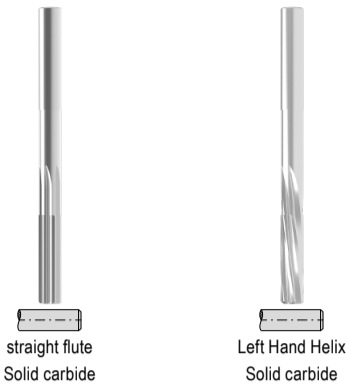
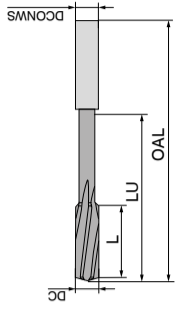
DC _{H7} mm	L mm	LU mm	LPR mm	OAL mm	DCONMS _{H6} mm	ZEFP	40 485 ...	PG	RT
4	12	28	32	60	4	4	04000	124.18	71.00
5	12	35	40	76	6	4	05000	126.51	73.00
6	12	35	40	76	6	4	06000	132.18	76.00
7	16	60	65	101	8	6	07000	138.09	80.00
8	16	60	65	101	8	6	08000	138.09	80.00
9	16	63	68	108	10	6	09000	198.75	115.00
10	16	63	68	108	10	6	10000	198.75	115.00
11	20	80	85	130	12	6	11000	264.36	152.00
12	20	80	85	130	12	6	12000	264.36	152.00
16	20	97	102	150	16	6	16000	355.70	205.00

P	●
M	●
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N	○
S	○
H	○
O	○



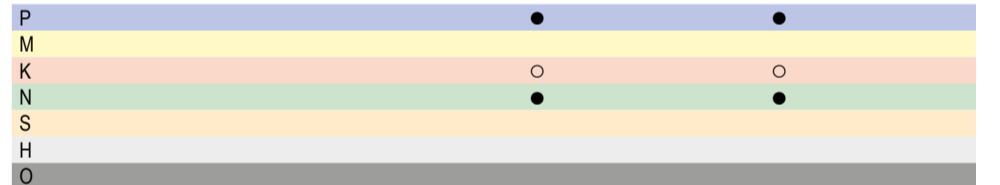
Machine reamers, similar to DIN 8093-A / -B

▲ extremely irregular pitch



DC _{H7} mm	OAL mm	L mm	LU mm	DCONMS _{H7} mm	ZEFP	40 405 ... PG CX		40 415 ... PG CX	
						£	£	£	£
2.0	49	11	31	2.0	4	02000	22.34 20.00	02000	22.34 20.00
2.1	49	11	31	2.0	4	02100	26.70 24.00	02100	26.70 24.00
2.2	53	12	35	2.2	4	02200	26.70 24.00	02200	26.70 24.00
2.3	53	12	35	2.2	4	02300	26.70 24.00	02300	26.70 24.00
2.4	57	14	34	2.5	4	02400	26.70 24.00	02400	26.70 24.00
2.5	57	14	34	2.5	4	02500	23.99 21.00	02500	23.99 21.00
2.6	57	14	34	2.5	4	02600	28.70 25.00	02600	28.70 25.00
2.7	61	15	36	3.0	4	02700	28.70 25.00	02700	28.70 25.00
2.8	61	15	36	3.0	4	02800	28.70 25.00	02800	28.70 25.00
2.9	61	15	36	3.0	4	02900	28.70 25.00	02900	28.70 25.00
3.0	61	15	36	3.0	4	03000	25.85 23.00	03000	25.85 23.00
3.1	61	15	36	3.0	4	03100	30.99 27.00	03100	30.99 27.00
3.2	70	18	40	3.5	4	03200	30.99 27.00	03200	30.99 27.00
3.3	70	18	40	3.5	4	03300	30.99 27.00	03300	30.99 27.00
3.4	70	18	40	3.5	4	03400	30.99 27.00	03400	30.99 27.00
3.5	70	18	40	3.5	4	03500	29.46 26.00	03500	29.46 26.00
3.6	70	18	40	3.5	4	03600	35.38 31.00	03600	35.38 31.00
3.7	70	18	40	3.5	4	03700	35.38 31.00	03700	35.38 31.00
3.8	75	19	43	4.0	4	03800	35.38 31.00	03800	35.38 31.00
3.9	75	19	43	4.0	4	03900	35.38 31.00	03900	35.38 31.00
4.0	75	19	43	4.0	4	04000	31.65 28.00	04000	31.65 28.00
4.1	75	19	43	4.0	4	04100	38.12 34.00	04100	38.12 34.00
4.2	75	19	43	4.0	4	04200	38.12 34.00	04200	38.12 34.00
4.3	75	21	42	4.5	4	04300	38.12 34.00	04300	38.12 34.00
4.4	75	21	42	4.5	4	04400	38.12 34.00	04400	38.12 34.00
4.5	75	21	42	4.5	4	04500	34.49 31.00	04500	34.49 31.00
4.6	75	21	42	4.5	4	04600	41.39 37.00	04600	41.39 37.00
4.7	75	21	42	4.5	4	04700	41.39 37.00	04700	41.39 37.00
4.8	86	23	52	5.0	6	04800	41.39 37.00	04800	41.39 37.00
4.9	86	23	52	5.0	6	04900	41.39 37.00	04900	41.39 37.00
5.0	86	23	52	5.0	6	05000	38.87 34.00	05000	38.87 34.00
5.1	86	23	52	5.0	6	05100	44.88 40.00	05100	44.88 40.00
5.2	86	23	52	5.0	6	05200	44.88 40.00	05200	44.88 40.00
5.3	86	23	52	5.0	6	05300	44.88 40.00	05300	44.88 40.00
5.4	93	26	57	5.6	6	05400	44.88 40.00	05400	44.88 40.00
5.5	93	26	57	5.6	6	05500	41.16 36.00	05500	41.16 36.00
5.6	93	26	57	5.6	6	05600	47.42 42.00	05600	47.42 42.00
5.7	93	26	57	5.6	6	05700	47.42 42.00	05700	47.42 42.00
5.8	93	26	57	5.6	6	05800	47.42 42.00	05800	47.42 42.00
5.9	93	26	57	5.6	6	05900	47.42 42.00	05900	47.42 42.00
6.0	93	26	57	5.6	6	06000	49.27 44.00	06000	49.27 44.00
6.1	93	26	57	5.6	6	06100	56.73 50.00	06100	56.73 50.00
6.2	93	26	57	5.6	6	06200	56.73 50.00	06200	56.73 50.00
6.3	101	28	63	6.3	6	06300	56.73 50.00	06300	56.73 50.00
6.4	101	28	63	6.3	6	06400	56.73 50.00	06400	56.73 50.00

DC _{H7} mm	OAL mm	L mm	LU mm	DCONMS _{H7} mm	ZEFP	40 405 ... PG CX	40 415 ... PG CX
6.5	101	28	63	6.3	6	06500	55.20 49.00
6.6	101	28	63	6.3	6	06600	63.61 57.00
6.7	101	28	63	6.3	6	06700	63.61 57.00
6.8	109	31	69	7.1	6	06800	63.61 57.00
6.9	109	31	69	7.1	6	06900	63.61 57.00
7.0	109	31	69	7.1	6	07000	61.76 55.00
7.1	109	31	69	7.1	6	07100	70.95 63.00
7.2	109	31	69	7.1	6	07200	70.95 63.00
7.3	109	31	69	7.1	6	07300	70.95 63.00
7.4	109	31	69	7.1	6	07400	70.95 63.00
7.5	109	31	69	7.1	6	07500	66.80 60.00
7.6	117	33	75	8.0	6	07600	76.88 69.00
7.7	117	33	75	8.0	6	07700	76.88 69.00
7.8	117	33	75	8.0	6	07800	76.88 69.00
7.9	117	33	75	8.0	6	07900	76.88 69.00
8.0	117	33	75	8.0	6	08000	70.95 63.00
8.1	117	33	75	8.0	6	08100	78.17 70.00
8.2	117	33	75	8.0	6	08200	78.17 70.00
8.3	117	33	75	8.0	6	08300	78.17 70.00
8.4	117	33	75	8.0	6	08400	78.17 70.00
8.5	117	33	75	8.0	6	08500	77.12 69.00
8.6	125	36	81	9.0	6	08600	84.67 76.00
8.7	125	36	81	9.0	6	08700	84.67 76.00
8.8	125	36	81	9.0	6	08800	84.67 76.00
8.9	125	36	81	9.0	6	08900	84.67 76.00
9.0	125	36	81	9.0	6	09000	82.56 74.00
9.1	125	36	81	9.0	6	09100	90.82 81.00
9.2	125	36	81	9.0	6	09200	90.82 81.00
9.3	125	36	81	9.0	6	09300	90.82 81.00
9.4	125	36	81	9.0	6	09400	90.82 81.00
9.5	125	36	81	9.0	6	09500	88.41 79.00
9.6	133	38	87	10.0	6	09600	97.35 87.00
9.7	133	38	87	10.0	6	09700	97.35 87.00
9.8	133	38	87	10.0	6	09800	97.35 87.00
9.9	133	38	87	10.0	6	09900	97.35 87.00
10.0	133	38	87	10.0	6	10000	95.29 85.00
10.1	133	38	87	10.0	6	10100	104.92 94.00
10.2	133	38	87	10.0	6	10200	104.92 94.00
10.3	133	38	87	10.0	6	10300	104.92 94.00
10.4	133	38	87	10.0	6	10400	104.92 94.00
10.5	133	38	87	10.0	6	10500	99.67 89.00
10.6	133	38	87	10.0	6	10600	109.48 98.00
10.7	142	41	96	10.0	6	10700	109.48 98.00
10.8	142	41	96	10.0	6	10800	109.48 98.00
10.9	142	41	96	10.0	6	10900	109.48 98.00
11.0	142	41	96	10.0	6	11000	107.84 96.00
11.1	142	41	96	10.0	6	11100	119.28 107.00
11.2	142	41	96	10.0	6	11200	119.28 107.00
11.3	142	41	96	10.0	6	11300	119.28 107.00
11.4	142	41	96	10.0	6	11400	119.28 107.00
11.5	142	41	96	10.0	6	11500	115.87 103.00
11.6	142	41	96	10.0	6	11600	125.99 113.00
11.7	142	41	96	10.0	6	11700	125.99 113.00
11.8	142	41	96	10.0	6	11800	125.99 113.00
11.9	151	44	100	10.0	6	11900	125.99 113.00
12.0	151	44	100	10.0	6	12000	123.75 111.00



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HSS TAPS



UNI – universal taps for all standard materials.



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

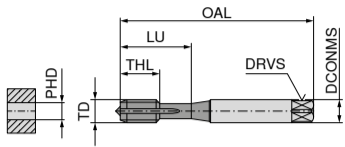


Roll tapping – For all suitable applications and materials.

Through hole – Machine taps, right hand



Standard



UKS
UNI ISO 2 6H
B TiN
4-5

UKS
VA ISO 2 6H
B nitr.
4-5



POWDERSTEEL
HSS-PM
FHA 0°
≤ 1000 N/mm²
≤ 3xD



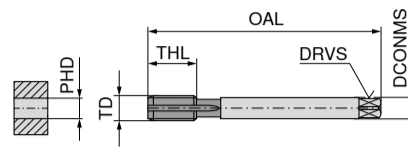
POWDERSTEEL
HSS-PM
FHA 0°
≤ 1200 N/mm²
≤ 3xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	Flutes	23 010 ...	PG	CX	£	
												£	£
M2	0.40	45	2.8	2.1	1.6	4	13.5	2	020	8.56	7.00		
M3	0.50	56	3.5	2.7	2.5	11	18.0	3	030	10.66	9.00		
M4	0.70	63	4.5	3.4	3.3	13	21.0	3	040	9.79	8.00		
M5	0.80	70	6.0	4.9	4.2	15	25.0	3	050	10.95	9.00		
M6	1.00	80	6.0	4.9	5.0	17	30.0	3	060	13.06	11.00		
M8	1.25	90	8.0	6.2	6.8	20	35.0	3	080	14.56	13.00		
M10	1.50	100	10.0	8.0	8.5	22	39.0	3	100	19.24	17.00		

Through hole – Machine taps, right hand



Standard



UKS
UNI ISO 2 6H
B TiN
4-5

UKS
VA ISO 2 6H
B nitr.
4-5



POWDERSTEEL
HSS-PM
FHA 0°
≤ 1000 N/mm²
≤ 3xD



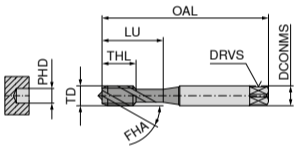
POWDERSTEEL
HSS-PM
FHA 0°
≤ 1200 N/mm²
≤ 3xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	Flutes	23 021 ...	PG	CX	£	
											£	£
M12	1.75	110	9	7	10.2	24	3	120	22.93	20.00		
M14	2.00	110	11	9	12.0	26	3	140	34.75	31.00		
M16	2.00	110	12	9	14.0	27	3	160	32.20	29.00		
M18	2.50	125	14	11	15.5	25	4	180	56.63	50.00		
M20	2.50	140	16	12	17.5	32	3	200	50.39	52.00		

Blind hole – Machine taps, right hand



Standard



UKS
UNI ISO 2 6H
C TiN
2-3

UKS
VA ISO 2 6H
C TiN
2-3



POWDERSTEEL
HSS-PM
FHA 50°
≤ 1000 N/mm²
≤ 2,5xD



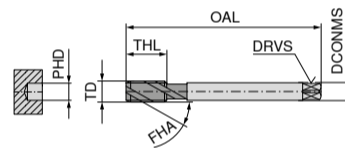
POWDERSTEEL
HSS-PM
FHA 40°
≤ 1200 N/mm²
≤ 2,5xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	Flutes	23 026 ...	PG	CX	£	
												£	£
M3	0.50	56	3.5	2.7	2.5	6	18	3	030	12.04	10.00		
M4	0.70	63	4.5	3.4	3.3	7	21	3	040	12.04	10.00		
M5	0.80	70	6.0	4.9	4.2	8	25	3	050	12.03	11.00		
M6	1.00	80	6.0	4.9	5.0	10	30	3	060	15.03	13.00		
M8	1.25	90	8.0	6.2	6.8	14	35	3	080	17.04	16.00		
M10	1.50	100	10.0	8.0	8.5	16	39	3	100	22.40	20.00		

Blind hole – Machine taps, right hand



Standard



UKS
UNI ISO 2 6H
C TiN
2-3

UKS
VA ISO 2 6H
C TiN
2-3



POWDERSTEEL
HSS-PM
FHA 50°
≤ 1000 N/mm²
≤ 2,5xD



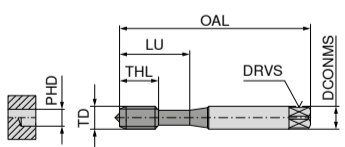
POWDERSTEEL
HSS-PM
FHA 40°
≤ 1200 N/mm²
≤ 2,5xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	Flutes	23 027 ...	PG	CX	£	
											£	£
M12	1.75	110	9	7	10.2	18	4	120	26.48	23.00		
M12	1.75	110	9	7	10.2	18	3					
M14	2.00	110	11	9	12.0	20	4	140	38.13	34.00		
M16	2.00	110	12	9	14.0	22	4	160	38.13	34.00		
M16	2.00	110	12	9	14.0	22	3					
M20	2.50	140	16	12	17.5	25	3	200	43.64	39.00		

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



Standard



UKS
UNI ISO 2X 6HX
C TiN
2-3

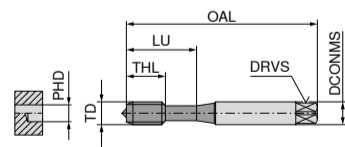


HSS-E
≤ 850 N/mm²
≤ 3xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	23 810 ...	PG	CX	£	
											£	£
M2	0.40	45	2.8	2.1	1.85	7	12	020	22.30	20.00		
M2,5	0.45	50	2.8	2.1	2.33	9	14	025	10.04	18.00		
M3	0.50	56	3.5	2.7	2.80	11	18	030	14.46	13.00		
M4	0.70	63	4.5	3.4	3.70	13	21	040	15.04	13.00		
M5	0.80	70	6.0	4.9	4.65	15	25	050	15.04	14.00		
M6	1.00	80	6.0	4.9	5.60	17	30	060	18.04	17.00		
M8	1.25	90	8.0	6.2	7.45	20	35	080	24.03	19.00		
M10	1.50	100	10.0	8.0	9.35	22	39	100	28.10	25.00		



Standard



UKS
UNI SN ISO 2X 6HX
C TiN
2-3



HSS-E
≤ 850 N/mm²
≤ 3xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	23 814 ...	PG	CX	£	
											£	£
M2	0.40	45	2.8	2.1	1.85	7	12	020	25.36	23.00		
M2,5	0.45	50	2.8	2.1	2.33	9	14	025	23.04	20.00		
M3	0.50	56	3.5	2.7	2.80	11	18	030	16.47	15.00		
M4	0.70	63	4.5	3.4	3.70	13	21	040	17.10	15.00		
M5	0.80	70	6.0	4.9	4.65	15	25	050	18.00	16.00		
M6	1.00	80	6.0	4.9	5.60	17	30	060	20.02	19.00		
M8	1.25	90	8.0	6.2	7.45	20	35	080	23.03	21.00		
M10	1.50	100	10.0	8.0	9.35	22	39	100	30.05	27.00		



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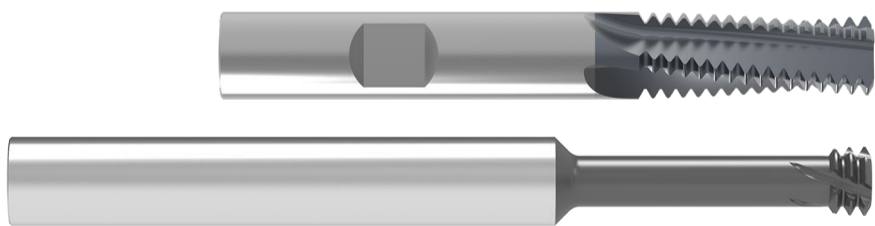
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THREAD MILLING CUTTERS



Standard Line

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

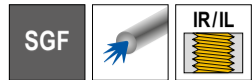


Performance Line

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

MonoThread – Thread milling cutter

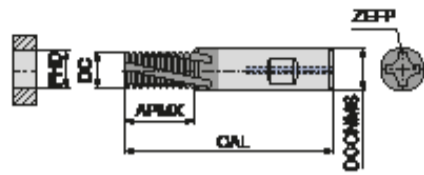
▲ Profile corrected
▲ Hard machining from Ø DC = 4 mm possible



≤ 2xD



M



Standard

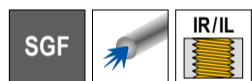
DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} mm	OAL mm	ZEFP	PHD mm	Solid carbide	
2.40	M3	0.50	7.0	4	42	2	2.50	54 821 ...	PG CX
3.15	M4	0.70	10.0	6	55	3	3.30	03000 ¹⁾	£ 82.07 £ 83.00
4.00	M5	0.80	12.2	6	55	3	4.20	04000 ²⁾	£ 105.05 £ 95.00
4.80	M6	1.00	14.3	6	55	3	5.00	05000 ²⁾	£ 105.05 £ 95.00
6.00	M8	1.25	19.0	6	60	3	6.75	06000 ²⁾	£ 109.05 £ 98.00
8.00	M10	1.50	23.0	8	70	3	8.50	08000	£ 116.73 £ 105.00
9.90	M12	1.75	28.6	10	75	4	10.25	10000	£ 145.77 £ 143.00
11.60	M14	2.00	32.6	12	85	4	12.00	12000	£ 167.53 £ 150.00
12.00	M16	2.00	36.6	12	85	4	14.00	14000	£ 205.20 £ 200.00
14.00	M18	2.50	43.3	14	90	4	15.50	16000	£ 210.70 £ 210.00
16.00	M20	2.50	43.3	16	90	4	17.50	18000	£ 251.64 £ 248.00
								20000	£ 256.97 £ 231.00

P	●
M	○
K	●
N	●
S	●
H	●
O	●

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

MonoThread – Thread milling cutter

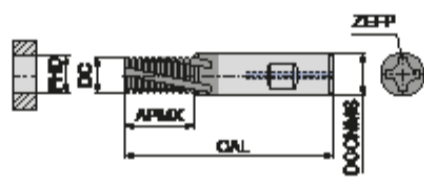
▲ Profile corrected
▲ Hard machining from Ø DC = 4 mm possible



≤ 2xD



MF



Standard

DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} mm	OAL mm	ZEFP	PHD mm	Solid carbide	
4.0	M 5x0,5	0.50	11.6	6	55	3	4.50	54 822 ...	PG CX
4.8	M 6x0,75	0.75	14.5	6	55	3	5.25	05000 ¹⁾	£ 110.42 £ 99.00
6.0	M 8x1	1.00	19.3	6	60	3	7.00	06000 ¹⁾	£ 113.69 £ 113.00
8.0	M 10x1,25	1.25	21.6	8	70	3	8.75	08000	£ 121.69 £ 118.00
9.9	M 12x1	1.00	27.3	10	75	4	11.00	10000	£ 151.88 £ 143.00
9.9	M 12x1,25	1.25	27.9	10	75	4	10.75	12000	£ 174.58 £ 173.00
9.9	M 12x1,5	1.50	27.5	10	75	4	10.50	12100	£ 174.58 £ 173.00
11.6	M 14x1	1.00	31.3	12	85	4	13.00	12200	£ 174.58 £ 173.00
11.6	M 14x1,5	1.50	32.0	12	85	4	12.50	14000	£ 213.88 £ 200.00
12.0	M 16x1,5	1.50	35.0	12	85	4	14.50	14100	£ 213.88 £ 200.00
14.0	M 18x1,5	1.50	42.5	14	90	4	16.50	16000	£ 210.56 £ 210.00
16.0	M 20x1,5	1.50	42.5	16	90	4	18.50	18000	£ 262.21 £ 248.00
								20000	£ 267.89 £ 258.00

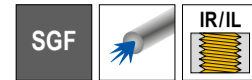
P	●
M	○
K	●
N	●
S	●
H	●
O	●

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 – Thread Milling Cutter

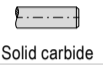
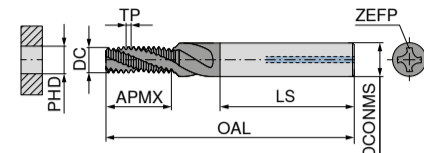
▲ Profile corrected



≤ 2xD

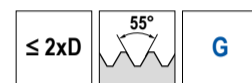


G



Performance

DC mm	Thread	TP mm	OAL mm	APMX mm	LS mm	DCONMS _{h6} mm	ZEFP	Solid carbide	
7.79	G 1/8-28	0.907	74	20.35	40	10	4	8.80	50 530 ...
10.92	G 1/4-19	1.337	89	27.34	45	14	5	11.80	01800
13.92	G 3/8-19	1.337	102	35.36	48	16	5	15.25	01400
15.90	G 1-11	2.309	102	33.29	48	16	5	30.75	03800
15.98	G 1/2-14	1.814	110	42.51	50	20	5	19.00	10000
									01200

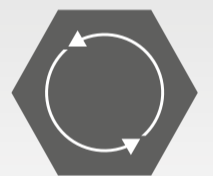


DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEFP	Solid carbide	
7.790	G1/8	0.907	64	2.72	19.5	8	3	01800	£ 106.12 £ 95.00
10.015	G 1/4-3/8	1.337	73	4.01	30.0	10	4	01400	£ 125.47 £ 112.00
12.013	G 1/2-G7/8	1.814	84	5.44	37.0	12	4	01200	£ 155.49 £ 139.00
15.900	G 1-2	2.309	105	6.93	44.0	16	4	01000	£ 203.09 £ 183.00

P	●
M	○
K	●
N	●
S	●
H	●
O	●

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When you see this logo it's
in stock in Sheffield

MonoThread – Thread Milling Cutter

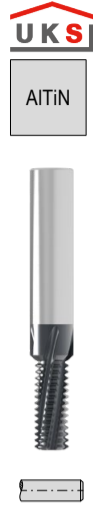
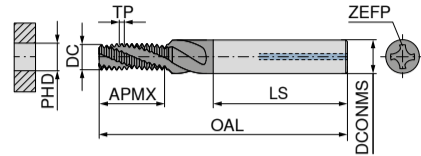
▲ Profile corrected

SGF

IR/IL

$\leq 2xD$

M



Performance

DC	Thread	TP	OAL	APMX	LS	DCONMS _{h6}	ZEFP	PHD	50 531 ... PG CS	
mm		mm	mm	mm	mm	mm		mm	£	£
2.44	M3	0.50	42	6.24	36	4	3	2.5	03000	146.80 94.00
3.14	M4	0.70	49	8.00	36	6	3	3.3	04000	163.31 104.00
3.95	M5	0.80	55	10.00	36	6	3	4.2	05000	163.31 104.00
4.68	M6	1.00	55	12.47	36	6	4	5.0	06000	160.13 107.00
6.22	M8	1.25	62	16.83	36	8	4	6.8	08000	177.07 113.00
7.79	M10	1.50	74	20.20	40	10	4	8.5	10000	202.44 129.00
9.38	M12	1.75	79	25.32	45	12	5	10.2	12000	232.00 148.00
10.92	M14	2.00	89	28.93	45	14	5	12.0	14000	285.18 182.00
12.83	M16	2.00	102	32.94	48	16	5	14.0	16000	292.74 187.00
15.83	M20	2.50	110	41.17	50	20	5	17.5	20000	357.07 228.00

1) Without Through Coolant

MonoThread – Thread Milling Cutter

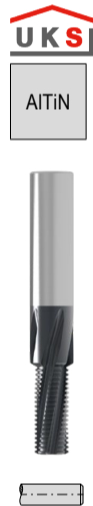
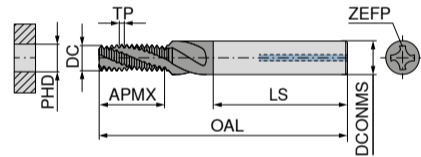
▲ Profile corrected

SGF

IR/IL

$\leq 2xD$

UNJC



Performance

DC	Thread	TP	OAL	APMX	LS	DCONMS _{h6}	ZEFP	PHD	50 524 ... PG CS	
mm		mm	mm	mm	mm	mm		mm	£	£
4.70	UNJC 1/4-20	0.907	55	14.27	36	6	4	5.6	01400	148.07 105.00
6.22	UNJC 5/16-18	1.411	62	16.32	36	8	4	7.0	05160	161.85 115.00
7.79	UNJC 3/8-16	1.588	74	20.01	40	10	4	8.6	03800	173.55 123.00
8.57	UNJC 7/16-14	1.814	79	22.87	45	12	4	10.0	07160	210.06 155.00
9.38	UNJC 1/2-13	1.270	79	26.75	45	12	5	11.5	01200	210.06 155.00

$\leq 2xD$ UNJC

DC	Thread	TP	OAL	APMX	LS	DCONMS _{h6}	ZEFP	PHD	50 533 ... PG CS	
mm		mm	mm	mm	mm	mm		mm	£	£
2.44	UNJF 6-40	0.635	42	7.42	28	4	3	2.95	06000	146.80 94.00
3.14	UNJF 8-36	0.706	49	8.91	36	6	3	3.50	08000	160.55 102.00
3.95	UNJF 10-32	0.794	55	9.97	36	6	3	4.10	10000	160.55 102.00
4.70	UNJF 1/4-28	0.907	55	14.27	36	6	4	5.60	01400	165.38 105.00
6.22	UNJF 5/16-24	1.058	62	16.59	36	8	4	7.00	05160	170.83 115.00
7.79	UNJF 3/8-24	1.058	74	19.77	40	10	4	8.60	03800	192.90 123.00
9.32	UNJF 7/16-20	1.270	79	22.39	45	12	5	10.00	07160	192.90 123.00
9.38	UNJF 1/2-20	1.270	79	25.34	45	12	5	11.50	01200	210.06 155.00
12.90	UNJF 5/8-18	1.411	102	33.59	48	16	5	14.50	05800	292.74 187.00

P	•
M	•
K	•
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O	•



MonoThread – Circular shank thread milling cutter

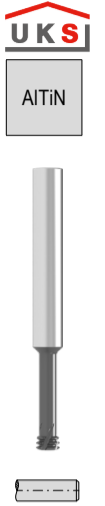
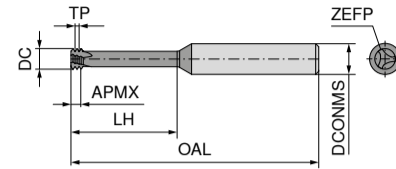
▲ Profile corrected

ZSGF

IR/IL

$\leq 3xD$

M



Performance

DC	Thread	TP	OAL	APMX	LH	DCONMS _{h6}	ZEFP	50 545 ... PG CS	
mm		mm	mm	mm	mm	mm		£	£
1.53	M2	0.40	39	0.80	6.0	3	3	02000	85.78 77.00
2.37	M3	0.50	58	1.35	9.5	6	3	03000	85.78 77.00
3.10	M4	0.70	58	1.95	12.5	6	3	04000	85.78 77.00
3.80	M5	0.80	58	2.30	16.0	6	3	05000	85.78 77.00
4.65	M6	1.00	58	2.70	20.0	6	3	06000	85.78 77.00
6.00	M8	1.25	58	3.20	24.0	6	3	08000	85.78 77.00
7.80	M10	1.50	64	3.80	31.5	8	3	10000	106.90 96.00
9.00	M12	1.75	73	4.55	37.8	10	3	12000	120.14 108.00

$\leq 4xD$ M

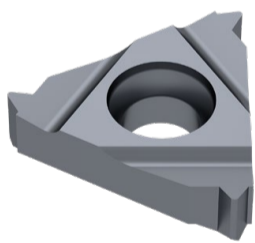
DC	Thread	TP	OAL	APMX	LH	DCONMS _{h6}	ZEFP	50 550 ... PG CS	
mm		mm	mm	mm	mm	mm		£	£
1.53	M2	0.40	39	1.00	10.4	3	3	02000	96.40 86.00
2.37	M3	0.50	39	1.30	12.5	3	3	03000	92.28 83.00
3.10	M4	0.70	58	1.80	16.7	6	3	04000	92.28 83.00
4.00	M5	0.80	58	2.10	20.8	6	3	05000	92.28 83.00
4.80	M6	1.00	58	2.55	25.0	6	3	06000	92.28 83.00
6.40	M8	1.25	64	3.15	33.5	8	3	08000	114.29 102.00
8.00	M10	1.50	76	3.85	41.5	8	3	10000	114.29 102.00

P	•
M	•
K	•
N	•
S	•
H	•
O	•

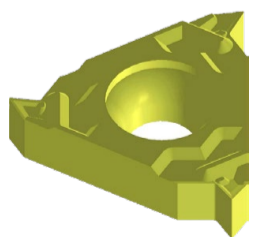
1) 5xD



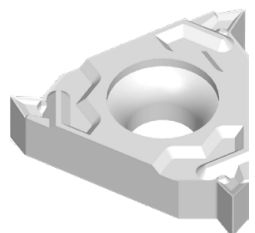
THREAD TURNING



CTPP525 – Universal grade for all normal materials.



CTPX525 – Universal grade for use on all normal materials.



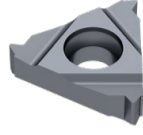
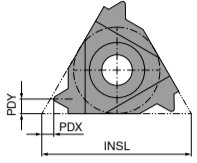
CTPM520 – Tough and temperature/wear resistant grade for machining stainless steels and hard to machine materials.

Right hand external thread turning insert

▲ Full profile



Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm		ER	
						71 220 ...	PG TR
11 ER 0,35	0.35	11	0.8	0.4	00401	24.70	9.00
11 ER 0,4	0.40	11	0.7	0.4	00601	24.70	9.00
11 ER 0,45	0.45	11	0.7	0.4	00801	24.70	9.00
11 ER 0,5	0.50	11	0.6	0.6	00901	24.70	9.00
11 ER 0,6	0.60	11	0.6	0.6	01001	24.70	9.00
11 ER 0,7	0.70	11	0.6	0.6	01101	24.70	9.00
11 ER 0,75	0.75	11	0.6	0.6	01201	24.70	9.00
11 ER 0,8	0.80	11	0.6	0.6	01301	24.70	9.00
11 ER 1,0	1.00	11	0.7	0.7	01401	24.70	9.00
11 ER 1,25	1.25	11	0.8	0.9	01601	24.70	9.00
11 ER 1,5	1.50	11	0.8	1.0	01801	24.70	9.00
11 ER 1,75	1.75	11	0.8	1.1	02001	24.70	9.00

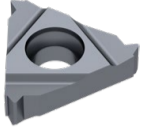
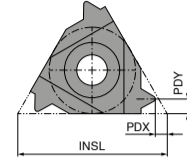
P	●
M	○
K	●
N	○
S	○
H	○
O	○

Right hand internal thread turning insert

▲ Full profile



Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm		IR	
						71 224 ...	PG TR
11 IR 0,35	0.35	11	0.8	0.3	00401	24.70	9.00
11 IR 0,5	0.50	11	0.6	0.6	00901	24.70	9.00
11 IR 0,7	0.70	11	0.6	0.6	01101	24.70	9.00
11 IR 0,75	0.75	11	0.6	0.6	01201	24.70	9.00
11 IR 0,8	0.80	11	0.6	0.6	01301	24.70	9.00
11 IR 1,0	1.00	11	0.6	0.7	01401	24.70	9.00
11 IR 1,25	1.25	11	0.8	0.9	01601	24.70	9.00
11 IR 1,5	1.50	11	0.8	1.0	01801	24.70	9.00
11 IR 1,75	1.75	11	0.9	1.1	02001	24.70	9.00
11 IR 2,0	2.00	11	0.9	1.1	02201	24.70	9.00
11 IR 2,5	2.50	11	0.9	1.1	02401	24.70	9.00

P	●
M	○
K	●
N	○
S	○
H	○
O	○

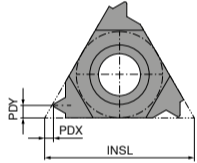
Right hand external thread turning insert

▲ Thread-turning inserts precision-sintered with chip breaker

▲ Full profile



Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm		ER-M	
						71 220 ...	PG TR
16 ER-M 1,0	1.00	16	0.7	0.7	04400	17.15	9.00
16 ER-M 1,25	1.25	16	0.8	0.9	04600	17.15	9.00
16 ER-M 1,5	1.50	16	0.8	1.0	04800	17.15	9.00
16 ER-M 1,75	1.75	16	0.9	1.2	05000	17.15	9.00
16 ER-M 2,0	2.00	16	1.0	1.3	05200	17.15	9.00
16 ER-M 2,5	2.50	16	1.1	1.5	05400	17.15	9.00
16 ER-M 3,0	3.00	16	1.2	1.6	05600	17.15	9.00

Designation	TP mm	INSL mm	PDX mm	PDY mm		ER-M	
						71 220 ...	PG TR
16 ER-M 1,0	1.00	16	0.6	0.7	44400	17.15	9.00
16 ER-M 1,25	1.25	16	0.8	0.9	44600	17.15	9.00
16 ER-M 1,5	1.50	16	0.8	1.0	44800	17.15	9.00
16 ER-M 1,75	1.75	16	0.9	1.2	45000	17.15	9.00
16 ER-M 2,0	2.00	16	1.0	1.3	45200	17.15	9.00
16 ER-M 2,5	2.50	16	1.1	1.5	45400	17.15	9.00
16 ER-M 3,0	3.00	16	1.1	1.5	45600	17.15	9.00

P	●
M	○
K	○
N	○
S	○
H	○
O	○

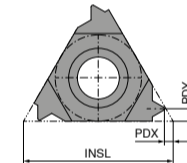
Right hand internal thread turning insert

▲ Thread-turning inserts precision-sintered with chip breaker

▲ Full profile



Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm		IR-M	
						71 224 ...	PG TR
16 IR-M 1,0	1.00	16	0.6	0.7	04400	17.15	9.00
16 IR-M 1,25	1.25	16	0.8	0.9	04600	17.15	9.00
16 IR-M 1,5	1.50	16	0.8	1.0	04800	17.15	9.00
16 IR-M 1,75	1.75	16	0.9	1.2	05000	17.15	9.00
16 IR-M 2,0	2.00	16	1.0	1.3	05200	17.15	9.00
16 IR-M 2,5	2.50	16	1.1	1.5	05400	17.15	9.00
16 IR-M 3,0	3.00	16	1.1	1.5	05600	17.15	9.00

P	●
M	○
K	○
N	○
S	○
H	○
O	○

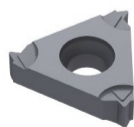
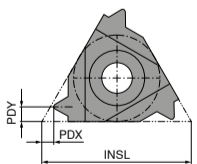
Right hand external thread turning insert

▲ Full profile

▲ CCN7525 grade with sintered chip breaker for universal application



Performance



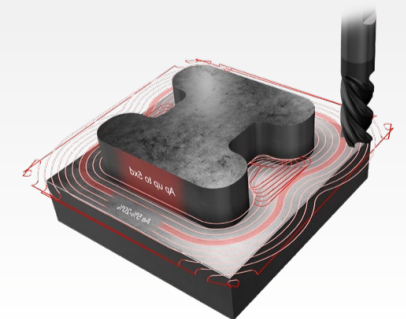
Designation	TPI	INSL mm	PDX mm	PDY mm		ER	
						71 228 ...	PG TR
16 ER 11	11	16	1.1	1.5	966	26.37	9.00
16 ER 14	14	16	1.0	1.2	962	26.37	9.00
16 ER 19	19	16	0.8	1.0	956	26.37	9.00

P	●
M	○
K	○
N	○
S	○
H	○
O	○

Tool data always at your fingertips

Cutting data and CAD models for day-to-day assistance

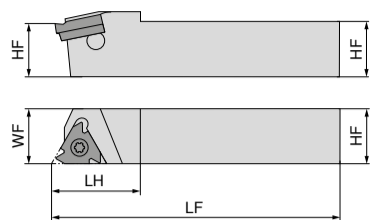
In addition to detailed cutting data we also offer 2D and 3D models to assist you with your tool management or for simulating an operation. All data for this Service is available for you in our Online Shop.



Standard External Thread Turning Holder

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

Performance



Illustrations show right-hand versions



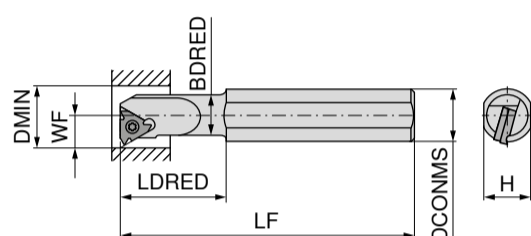
ISO designation	HF	WF	LF	LH	H	Insert	torque moment
	mm	mm	mm	mm	mm		Nm
SE R 12 12 F16	12	16	80	22	12	16 ..	3,5
SE R 16 16 H16	16	16	100	25	16	16 ..	3,5
SE R 20 20 K16	20	20	125	30	20	16 ..	3,5
SE R 25 25 M16	25	25	150	30	25	16 ..	3,5
SE R 32 32 P16	32	32	170	30	32	16 ..	3,5

Right-hand		PG	TO
71 280 ...		£	£
012	410.34	21.00	
016	435.74	26.00	
020	435.74	26.00	
025	455.75	29.00	
032	470.54	32.00	

Standard Internal Thread Turning Holder

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

Performance



Illustrations show right-hand versions



ISO designation	H	LF	LDRED	DCONMS	BDRED	WF	DMIN	Insert	torque moment
	mm	mm	mm	mm	mm	mm	mm		Nm
SI R 0010 H11	9.0	100	25	10	9.5	7.4	12	11 ..	1,3
SI R/L 0010 K11	14.0	125	25	16	10.0	7.4	12	11 ..	1,3
SI R 0013 L11	14.0	140	32	16	12.0	8.9	15	11 ..	1,3
SI R/L 0013 M16	14.0	150	32	16	13.0	10.2	16	16 ..	3,5
SI R/L 0016 P16	18.0	170	40	20	15.0	11.7	19	16 ..	3,5
SI R/L 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/L 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

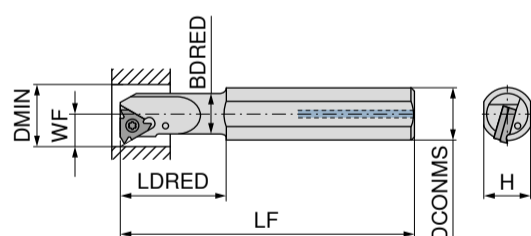
Left-hand		PG	TO	Right-hand		PG	TO
71 283 ...		£	£	71 282 ...		£	£
010	410.85	22.00		011	455.75	29.00	
				010	410.85	22.00	
				013	427.28	24.00	
015	420.60	25.00		015	420.60	25.00	
016	420.60	25.00		016	420.60	25.00	
020	452.74	29.00		020	452.74	29.00	
				026	485.33	35.00	
032	500.24	38.00		032	500.24	38.00	
				040	526.53	57.00	

1) without shim

Standard Internal Thread Turning Holder with thro' coolant

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

Performance



Illustrations show right-hand versions



ISO designation	H	LF	LDRED	DCONMS	BDRED	WF	DMIN	Insert	torque moment
	mm	mm	mm	mm	mm	mm	mm		Nm
SI R 0010 M11CB	9.0	150	25	10	9.5	7.4	12	11 ..	1,3
SI R 0012 P11CB	11.0	170	30	12	11.5	8.4	15	11 ..	1,3
SI R/L 0010 K11B	14.0	125	25	16	10.0	7.4	12	11 ..	1,3
SI R/L 0013 M16B	14.0	150	32	16	13.0	10.2	16	16 ..	3,5
SI R 0016 P16B	18.0	170	40	20	16.0	11.7	19	16 ..	3,5
SI R 0020 P16B	18.0	170	40	20	19.5	13.7	24	16 ..	3,5
SI R/L 0032 S16B	28.8	250	50	32	31.5	19.7	36	16 ..	3,5

Left-hand		PG	TO	Right-hand		PG	TO
71 283 ...		£	£	71 282 ...		£	£
310	442.42	27.00		510	546.86	94.00	
				512	540.88	99.00	
315	455.75	29.00		310	442.42	27.00	
				315	455.75	29.00	
				316	455.75	29.00	
332	525.32	43.00		320	482.23	35.00	
				332	525.32	43.00	

1) with shim seat
2) Carbide version



Technical support: 0800 073 2 075
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday
Email: techsupport.uk@ceratizit.com



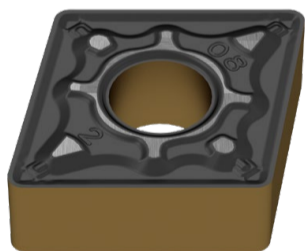
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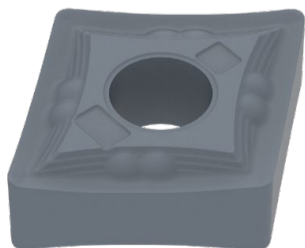
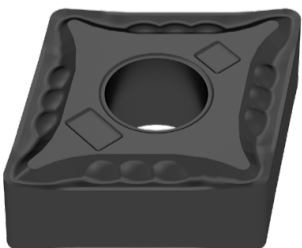
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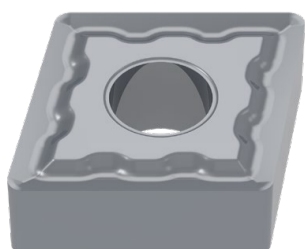
TURNING



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



CTCM120 / CTCM130 / CTPM125
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!

SPECIAL OFFER

Buy 30 inserts and get a tool holder for only £10

→ valid for inserts on page 35–40

→ See tool holders on page 41–43

CNMG

UKS -M50 CTCP115-P DRAGONSKIN

UKS -M50 CTCP125-P DRAGONSKIN

UKS -M50 CTCP135-P DRAGONSKIN

Performance

ISO	RE mm	76 135 ... M PG TR		76 135 ... M PG TR		76 135 ... M PG TR	
		£	£	£	£	£	£
120404EN	0.4	32801	12.73	7.00	52801	12.73	7.00
120408EN	0.8	33001	12.73	7.00	53001	12.73	7.00
120412EN	1.2	32001	12.73	7.00	53201	12.73	7.00
120416EN	1.6	33401	12.73	7.00	53401	12.73	7.00
160608EN	0.8	34201	20.55	12.00	54201	20.55	12.00
160612EN	1.2	34401	20.55	12.00	54401	20.55	12.00
160616EN	1.6	34601	20.55	12.00	54601	20.55	12.00

P ● M ● K ○ N S H O

DNMG

UKS -M50 CTCP115-P DRAGONSKIN

UKS -M50 CTCP125-P DRAGONSKIN

UKS -M50 CTCP135-P DRAGONSKIN

Performance

ISO	RE mm	76 136 ... M PG TR		76 136 ... M PG TR		76 136 ... M PG TR	
		£	£	£	£	£	£
110404EN	0.4	30401	13.57	8.00	50401	13.57	8.00
110408EN	0.8	30601	13.57	8.00	50601	13.57	8.00
110412EN	1.2	30801	13.57	8.00	50801	13.57	8.00
150404EN	0.4	31601	16.46	9.00	51401	16.46	9.00
150408EN	0.8	31801	16.46	9.00	51801	16.46	9.00
150412EN	1.2	32001	16.46	9.00	51601	16.46	9.00
150416EN	1.6	32201	16.46	9.00	52201	16.46	9.00
150604EN	0.4	32801	17.83	10.00	52801	17.83	10.00
150608EN	0.8	33001	17.83	10.00	53001	17.83	10.00
150612EN	1.2	33201	17.83	10.00	53201	17.83	10.00
150616EN	1.6	33401	17.83	10.00	53401	17.83	10.00

P ● M ● K ○ N S H O

TNMG

UKS -M50 CTCP115-P DRAGONSKIN

UKS -M50 CTCP125-P DRAGONSKIN

UKS -M50 CTCP135-P DRAGONSKIN

Performance

ISO	RE mm	76 138 ... M PG TR		76 138 ... M PG TR		76 138 ... M PG TR	
		£	£	£	£	£	£
160404EN	0.4	31601	11.35	6.00	51601	11.35	6.00
160408EN	0.8	31801	11.35	6.00	51801	11.35	6.00
160412EN	1.2	32001	11.35	6.00	52001	11.35	6.00
220408EN	0.8	33001	15.33	9.00	53001	15.33	9.00
220412EN	1.2	33201	15.33	9.00	53201	15.33	9.00

P ● M ● K ○ N S H O

WNMG

UKS -M50 CTCP115-P DRAGONSKIN

UKS -M50 CTCP125-P DRAGONSKIN

UKS -M50 CTCP135-P DRAGONSKIN

Performance

ISO	RE mm	76 139 ... M PG TR		76 139 ... M PG TR		76 139 ... M PG TR	
		£	£	£	£	£	£
060404EN	0.4	30401	11.08	6.00	50401	11.08	6.00
060408EN	0.8	30601	11.08	6.00	50601	11.08	6.00
060412EN	1.2	30801	11.08	6.00	50801	11.08	6.00
080404EN	0.4	31601	13.96	8.00	51601	13.96	8.00
080408EN	0.8	31801	13.96	8.00	51801	13.96	8.00
080412EN	1.2	32001	13.96	8.00	52001	13.96	8.00
080416EN	1.6	32201	13.96	8.00	52201	13.96	8.00

P ● M ● K ○ N S H O



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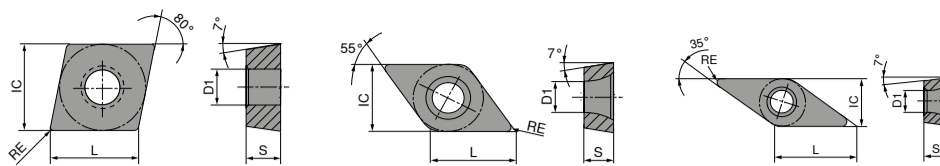
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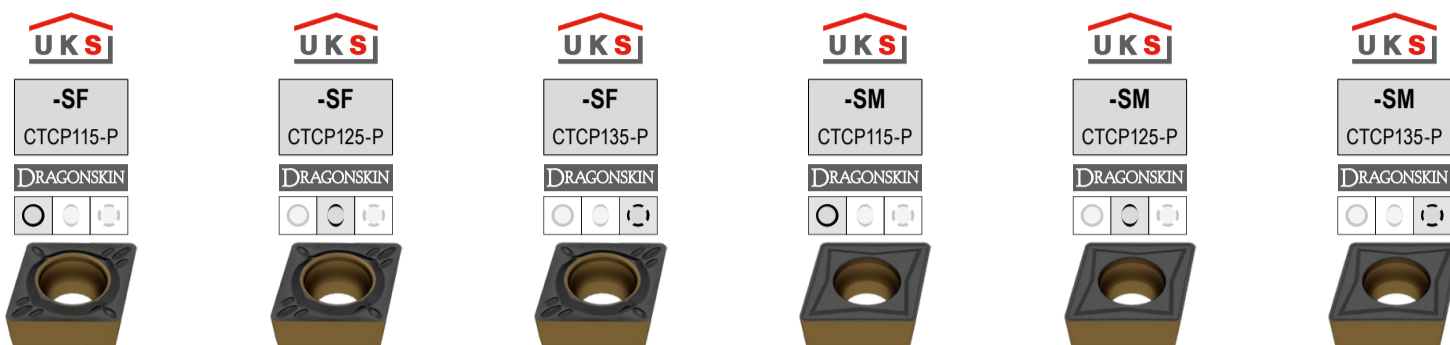
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CCMT / DCMT / VCMT

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

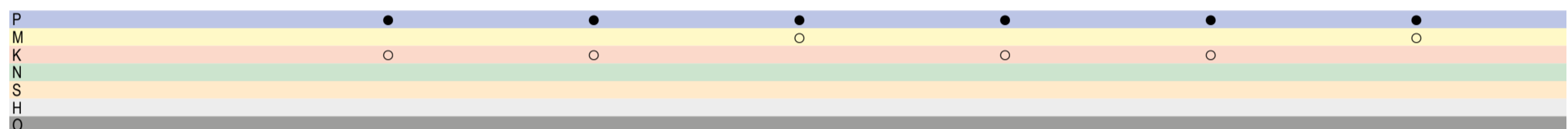


CCMT



Performance

ISO	RE mm	76 253 ...		76 253 ...		76 253 ...		76 252 ...		76 252 ...		76 252 ...	
		F	PG TR	F	PG TR	F	PG TR	M	PG TR	M	PG TR	M	PG TR
		£	£	£	£	£	£	£	£	£	£	£	£
060204EN	0.4	30401	8.68 5.00	50401	8.68 5.00	70401	8.68 5.00	30401	8.68 5.00	50401	8.68 5.00	70401	8.68 5.00
060208EN	0.8							30601	8.68 5.00			70601	8.68 5.00
09T304EN	0.4	31601	10.82 6.00	51601	10.82 6.00	71601	10.82 6.00	31601	10.82 6.00	51601	10.82 6.00	71601	10.82 6.00
09T308EN	0.8	31801	10.82 6.00	51801	10.82 6.00	71801	10.82 6.00	31801	10.82 6.00	51801	10.82 6.00	71801	10.82 6.00
120404EN	0.4			52801	15.22 9.00			32801	15.22 9.00	52801	15.22 9.00	72801	15.22 9.00
120408EN	0.8			53001	15.22 9.00			33001	15.22 9.00	53001	15.22 9.00	73001	15.22 9.00
120412EN	1.2							53201	15.22 9.00				

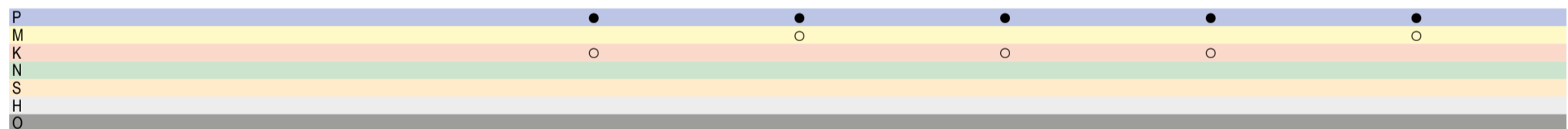


DCMT



Performance

ISO	RE mm	76 259 ...		76 259 ...		76 258 ...		76 258 ...		76 258 ...	
		F	PG TR	F	PG TR	M	PG TR	M	PG TR	M	PG TR
		£	£	£	£	£	£	£	£	£	£
070204EN	0.4	50401	8.68 5.00	70401	8.68 5.00	30401	8.68 5.00	50401	8.68 5.00	70401	8.68 5.00
070208EN	0.8					30601	8.68 5.00	50601	8.68 5.00	70601	8.68 5.00
11T304EN	0.4	51601	12.17 7.00	71601	12.17 7.00	31601	12.17 7.00	51601	12.17 7.00	71601	12.17 7.00
11T308EN	0.8	51801	12.17 7.00	71801	12.17 7.00	31801	12.17 7.00	51801	12.17 7.00	71801	12.17 7.00
11T312EN	1.2							52001	12.17 7.00		

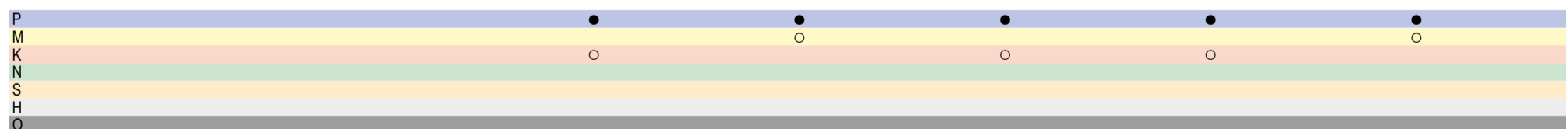


VCMT



Performance

ISO	RE mm	76 279 ...		76 279 ...		76 278 ...		76 278 ...		76 278 ...	
		F	PG TR	F	PG TR	M	PG TR	M	PG TR	M	PG TR
		£	£	£	£	£	£	£	£	£	£
160404EN	0.4	52801	17.83 10.00	72801	17.83 10.00	32801	17.83 10.00	52801	17.83 10.00	72801	17.83 10.00
160406EN	0.6					32901	17.83 10.00				
160408EN	0.8					33001	17.83 10.00	53001	17.83 10.00	73001	17.83 10.00
160412EN	1.2	53001	17.83 10.00			33201	17.83 10.00	53201	17.83 10.00	73201	17.83 10.00



UK LOGISTICS
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STAINLESS STEEL MACHINING MADE EASY

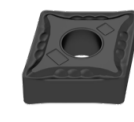
Dragonskin – new grades with the high-performance coating technology from CERATIZIT

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.



CTCM120

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

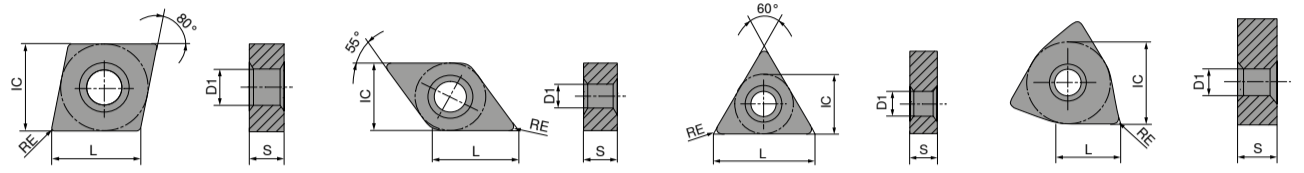


CTCM130

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

CNMG / DNMG / WNMG / TNMG

Designation	L mm	S mm	D1 mm	IC 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
TNMG 1604..	16.5	4.76	3.81	9.52



CNMG

UKS

-M30

CTCM120

DRAGONSKIN

UKS

-M30

CTPM125

DRAGONSKIN

UKS

-M30

CTCM130

DRAGONSKIN

Performance

ISO	RE mm	75 011 ... M		75 011 ... M		75 011 ... M	
		PG	TR	PG	TR	PG	TR
120408EN	0.8	13000	12.73 7.00	230	12.73 7.00	33000	12.73 7.00
120412EN	1.2	13200	12.73 7.00	232	12.73 7.00	33200	12.73 7.00
120416EN	1.6	13400	12.73 7.00	234	12.73 7.00	33400	12.73 7.00

Material compatibility: P (○), M (●), K, N, S, H, O

DNMG

UKS

-M30

CTCM120

DRAGONSKIN

UKS

-M30

CTPM125

DRAGONSKIN

UKS

-M30

CTCM130

DRAGONSKIN

Performance

ISO	RE mm	75 014 ... M		75 014 ... M		75 014 ... M	
		PG	TR	PG	TR	PG	TR
110408EN	0.8	10600	13.57 8.00	206	13.57 8.00	30600	13.57 8.00
110412EN	1.2	10800	13.57 8.00	208	13.57 8.00	30800	13.57 8.00
150608EN	0.8	13000	17.83 10.00	230	17.83 10.00	33000	17.83 10.00
150612EN	1.2	13200	17.83 10.00	232	17.83 10.00	33200	17.83 10.00

Material compatibility: P (○), M (●), K, N, S, H, O

TNMG

UKS

-M30

CTCM120

DRAGONSKIN

UKS

-M30

CTPM125

DRAGONSKIN

UKS

-M30

CTCM130

DRAGONSKIN

Performance

ISO	RE mm	75 020 ... M		75 020 ... M		75 020 ... M	
		PG	TR	PG	TR	PG	TR
160408EN	0.8	11800	11.35 6.00	218	11.35 6.00	31800	11.35 6.00
160412EN	1.2	12000	11.35 6.00	220	11.35 6.00	32000	11.35 6.00

Material compatibility: P (○), M (●), K, N, S, H, O

WNMG

UKS

-M30

CTCM120

DRAGONSKIN

UKS

-M30

CTPM125

DRAGONSKIN

UKS

-M30

CTCM130

DRAGONSKIN

Performance

ISO	RE mm	75 025 ... M		75 025 ... M		75 025 ... M	
		PG	TR	PG	TR	PG	TR
060408EN	0.8	10600	11.88 6.00	206	11.88 6.00	30600	11.88 6.00
060412EN	1.2	10800	11.88 6.00	208	11.88 6.00	30800	11.88 6.00
080408EN	0.8	11800	13.96 8.00	218	13.96 8.00	31800	13.96 8.00
080412EN	1.2	12000	13.96 8.00	220	13.96 8.00	32000	13.96 8.00

Material compatibility: P (○), M (●), K, N, S, H, O

SPECIAL OFFER

Buy 30 inserts and get a tool holder for only £ 10

→ valid for inserts on page 35–40

→ See tool holders on page 41–43



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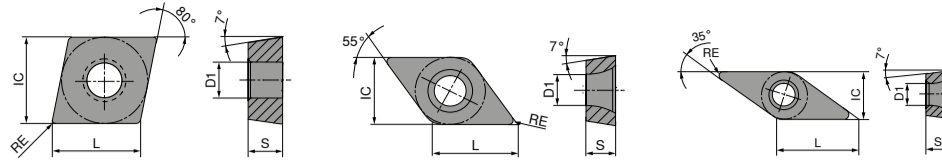
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CCMT / DCMT / VCMT

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

ISO	RE mm
060204EN	0.4
09T304EN	0.4
09T308EN	0.8

UKS		UKS		UKS	
-M25		-M25		-M25	
CTCM120		CTPM125		CTCM130	
DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
F		F		F	
75 210 ...	PG TR	75 210 ...	PG TR	75 210 ...	PG TR
£	£	£	£	£	£
10400	8.60 5.00	204	8.60 5.00	30400	8.60 5.00
11600	10.82 6.00	216	10.82 6.00	31600	10.82 6.00
11800	10.82 6.00	218	10.82 6.00	31800	10.82 6.00

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

DCMT

Performance

ISO	RE mm
070202EN	0.2
070204EN	0.4
11T302EN	0.2
11T304EN	0.4
11T308EN	0.8

UKS		UKS		UKS	
-M25		-M25		-M25	
CTCM120		CTPM125		CTCM130	
DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
F		F		F	
75 213 ...	PG TR	75 213 ...	PG TR	75 213 ...	PG TR
£	£	£	£	£	£
10200	8.60 5.00	202	8.60 5.00	30200	8.60 5.00
10400	8.60 5.00	204	8.60 5.00	30400	8.60 5.00
11400	12.17 7.00	214	12.17 7.00	31400	12.17 7.00
11600	12.17 7.00	216	12.17 7.00	31600	12.17 7.00
11800	12.17 7.00	218	12.17 7.00	31800	12.17 7.00

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

VCMT

Performance

ISO	RE mm
160404EN	0.4
160408EN	0.8

UKS		UKS		UKS	
-M25		-M25		-M25	
CTCM120		CTPM125		CTCM130	
DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
F		F		F	
75 219 ...	PG TR	75 219 ...	PG TR	75 219 ...	PG TR
£	£	£	£	£	£
12800	17.83 10.00	228	17.83 10.00	32800	17.83 10.00
13000	17.83 10.00	23000	17.83 10.00	33000	17.83 10.00

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

SPECIAL OFFER
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→ valid for inserts on page 35–40

→ See tool holders on page 41–43



X7-Line

HRSA and Ti machining made easy

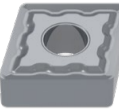
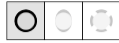
CNMG

Performance



-M34
CTPX710

DRAGONSKIN



ISO	RE mm	M	
		75 003 ...	PG TR
		£	£
120404EN	0.4	62800	41.97 7.00
120408EN	0.8	63000	41.97 7.00
120412EN	1.2	63200	41.97 7.00
120416EN	1.6	63400	41.97 7.00

P	•
M	•
K	
N	○
S	•
H	
O	

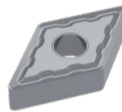
DNMG

Performance



-M34
CTPX710

DRAGONSKIN



ISO	RE mm	M	
		75 004 ...	PG TR
		£	£
150404EN	0.4	61600	47.48 10.00
150408EN	0.8	61800	47.48 10.00
150412EN	1.2	62000	47.48 10.00
150608EN	0.8	63000	48.83 11.00
150612EN	1.2	63200	48.83 11.00

P	•
M	•
K	
N	○
S	•
H	
O	

TNMG

Performance



-M34
CTPX710

DRAGONSKIN



ISO	RE mm	M	
		75 006 ...	PG TR
		£	£
160408EN	0.8	61800	41.27 6.00
220404EN	0.4	62800	46.49 9.00
220408EN	0.8	63000	46.49 9.00
220416EN	1.6	63400	46.49 9.00

P	•
M	•
K	
N	○
S	•
H	
O	

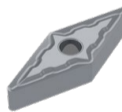
VNMG

Performance



-M34
CTPX710

DRAGONSKIN



ISO	RE mm	M	
		75 009 ...	PG TR
		£	£
160404EN	0.4	61600	24.88 13.00
160408EN	0.8	61800	24.88 13.00
160412EN	1.2	62000	24.88 13.00

P	•
M	•
K	
N	○
S	•
H	
O	

WNMG

Performance



-M34
CTPX710

DRAGONSKIN



ISO	RE mm	M	
		75 008 ...	PG TR
		£	£
080408EN	0.8	61800	44.58 8.00
080412EN	1.2	62000	44.58 8.00

P	•
M	•
K	
N	○
S	•
H	
O	

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→ valid for inserts on page 35–40

→ See tool holders on page 41–43



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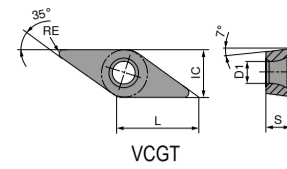
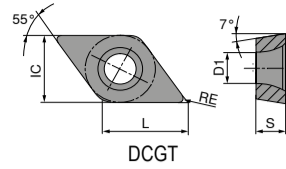
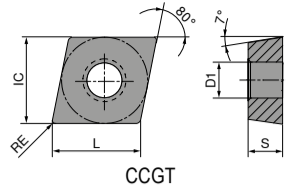
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CCGT / DCGT / VCGT

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	TR
				£	£
060202FN	0.2		70200	14.46	8.00
060204FN	0.4		70400	14.46	8.00
09T302FN	0.2		71400	14.83	8.00
09T304FN	0.4		71600	14.83	8.00
09T308FN	0.8		71800	14.83	8.00
120404FN	0.4		72800	18.04	11.00
120408FN	0.8		73000	18.04	11.00
P		•			
M		•			
K		•			
N		•			
S		•			
H		•			
O		•			

VCGT

Performance



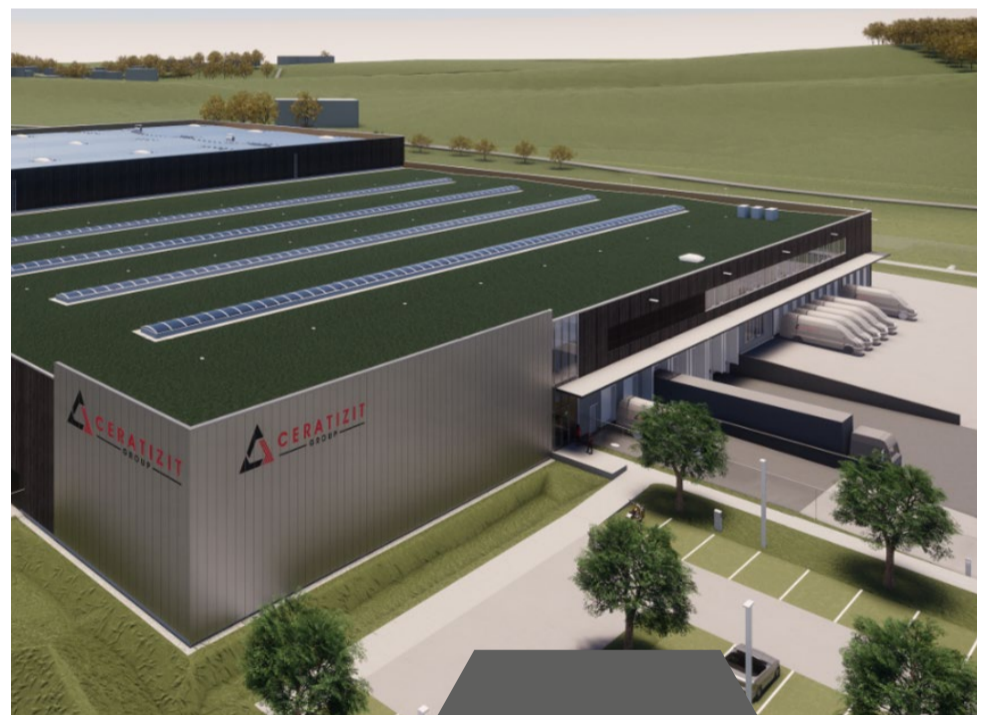
ISO	RE mm	M	70 282 ...	PG	TR
				£	£
110302FN	0.2		71400	10.32	11.00
110304FN	0.4		71600	10.32	11.00
160404FN	0.4		72800	23.03	14.00
160408FN	0.8		73000	23.03	14.00
160412FN	1.2		73200	23.03	14.00
220530FN	3.0		75000	31.00	19.00
P		•			
M		•			
K		•			
N		•			
S		•			
H		•			
O		•			

DCGT

Performance



ISO	RE mm	M	70 263 ...	PG	TR
				£	£
070202FN	0.2		70200	13.10	7.00
070204FN	0.4		70400	13.10	7.00
11T302FN	0.2		71400	15.82	9.00
11T304FN	0.4		71600	15.82	9.00
11T308FN	0.8		71800	15.82	9.00
P		•			
M		•			
K		•			
N		•			
S		•			
H		•			
O		•			



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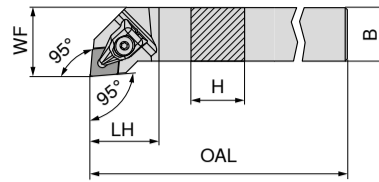


MaxiLock-D – DCLN 95° – Toolholder with top clamping

Scope of supply:
Tool holder with Torx key

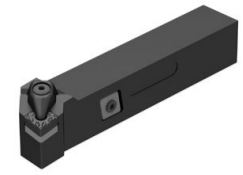


Performance



Illustrations show right-hand versions

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	torque moment Nm	Insert
DCLN R/L 2020 K12	20	20	125	32	25	4	CN.. 1204
DCLN R/L 2525 M12	25	25	150	32	32	4	CN.. 1204
DCLN R/L 3225 P12	32	25	170	32	32	4	CN.. 1204



Left-hand

Right-hand

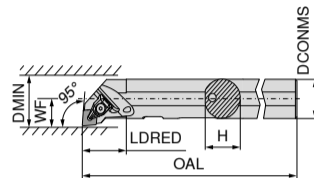
70 509 ...		PG	TO	70 508 ...		PG	TO
£	£			£	£		
620	104.15	15.00		620	104.15	15.00	
625	107.67	15.00		625	107.67	15.00	
632	115.50	17.00		632	115.50	17.00	

MaxiLock-D – DCLN 95° – Boring bar with top clamping

Scope of supply:
Boring bar with Torx key



Performance



Illustrations show right-hand versions

ISO designation	DCONMS mm	H mm	OAL mm	LDRED mm	WF mm	DMIN mm	torque moment Nm	Insert
A25R DCLN R/L 12	25	24	200	36	17	32	4	CN.. 1204
A32S DCLN R/L 12	32	31	250	40	22	40	4	CN.. 1204
A40T DCLN R/L 12	40	39	300	45	27	50	4	CN.. 1204



Left-hand

Right-hand

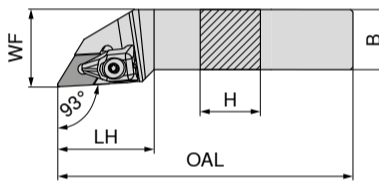
70 557 ...		PG	TO	70 556 ...		PG	TO
£	£			£	£		
825	274.93	40.00		825	274.93	40.00	
832	284.13	41.00		832	284.13	41.00	
840	313.30	46.00		840	313.30	46.00	

MaxiLock-D – DDJN 93° – Toolholder with top clamping

Scope of supply:
Tool holder with Torx key

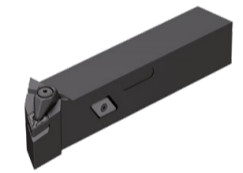


Performance



Illustrations show right-hand versions

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	torque moment Nm	Insert
DDJN R/L 2020 K15	20	20	125	40	25	4	DN.. 1504 / 1506
DDJN R/L 2525 M15	25	25	150	40	32	4	DN.. 1504 / 1506
DDJN R/L 3225 P15	32	25	170	40	32	4	DN.. 1504 / 1506



Left-hand

Right-hand

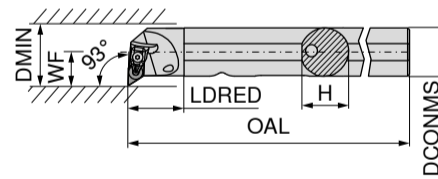
70 541 ...		PG	TO	70 540 ...		PG	TO
£	£			£	£		
720	104.15	15.00		720	104.15	15.00	
725	107.67	15.00		725	107.67	15.00	
832	115.50	17.00		832	115.50	17.00	

MaxiLock-D – DDUN 93° – Boring bar with top clamping

Scope of supply:
Boring bar with Torx key



Performance



Illustrations show right-hand versions

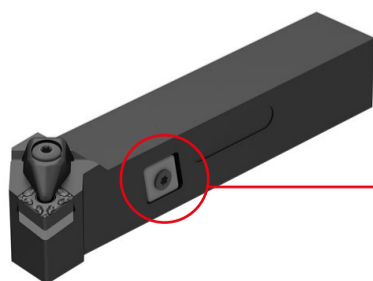
ISO designation	DCONMS mm	H mm	OAL mm	LDRED mm	WF mm	DMIN mm	torque moment Nm	Insert
A40T DDUN R/L 15	40	39	300	45	27	50	4	DN.. 1506



Left-hand

Right-hand

70 569 ...		PG	TO	70 568 ...		PG	TO
£	£			£	£		
840	313.30	46.00		840	313.30	46.00	



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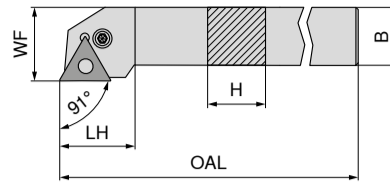
MaxiLock-N – PTGN 91° – Toolholder with lever clamping



Scope of supply:
Tool holder with allen key



Performance



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	torque moment Nm	Insert
PTGN R/L 1616 H16	16	16	100	20	20	3	TNM. 1604
PTGN R/L 2020 K16	20	20	125	20	25	3	TNM. 1604
PTGN R/L 2525 M16	25	25	150	22	32	3	TNM. 1604
PTGN R/L 3225 P16	32	25	170	22	32	3	TNM. 1604

Left-hand			Right-hand		
70 533 ...	PG	TO	70 532 ...	PG	TO
£	£	£	£	£	£
016	99.40	13.00	016	99.40	13.00
020	104.15	15.00	020	104.15	15.00
025	107.67	15.00	025	107.67	15.00
032	115.50	17.00	032	115.50	17.00

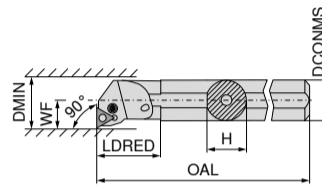
MaxiLock-N – PTFN 90° – Boring bar with lever clamping

▲ A... = with thro' coolant
▲ S... = without thro' coolant

Scope of supply:
Boring bar with Allen key



Performance



Illustrations show right-hand versions



ISO designation	DCONMS mm	H mm	OAL mm	LDRED mm	WF mm	DMIN mm	torque moment Nm	Insert
S25T PTFN R 16	25	23	300	36	17	32	3	TNM. 1604
A25R PTFN R/L 16	25	23	200	36	17	32	3	TNM. 1604
A32S PTFN R/L 16	32	30	250	50	22	40	3	TNM. 1604

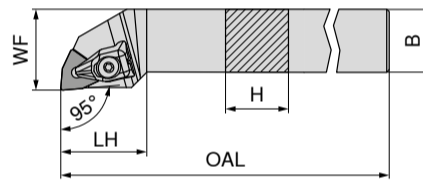
Left-hand			Right-hand		
70 565 ...	PG	TO	70 564 ...	PG	TO
£	£	£	£	£	£
225	271.00	40.00	02500	271.00	40.00
232	281.13	41.00	225	271.00	40.00
			232	281.13	41.00

MaxiLock-D – DWLN 95° – Toolholder with top clamping

Scope of supply:
Tool holder with Torx key



Performance



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	torque moment Nm	Insert
DWLN R/L 1616 H06	16	16	100	25	20	2	WN.. 0604
DWLN R/L 2020 K06	20	20	125	27	25	2	WN.. 0604
DWLN R/L 2525 M06	25	25	150	27	32	2	WN.. 0604
DWLN R/L 2020 K08	20	20	125	34	25	4	WN.. 0804
DWLN R/L 2525 M08	25	25	150	34	32	4	WN.. 0804

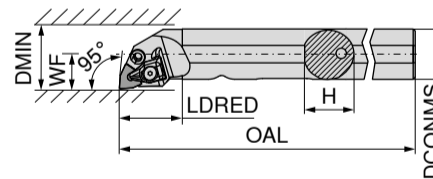
Left-hand			Right-hand		
70 543 ...	PG	TO	70 542 ...	PG	TO
£	£	£	£	£	£
716	99.40	13.00	716	99.40	13.00
720	104.15	15.00	720	104.15	15.00
725	107.67	15.00	725	107.67	15.00
620	104.15	15.00	620	104.15	15.00
625	107.67	15.00	625	107.67	15.00

MaxiLock-D – DWLN 95° – Boring bar with top clamping

Scope of supply:
Boring bar with Torx key



Performance

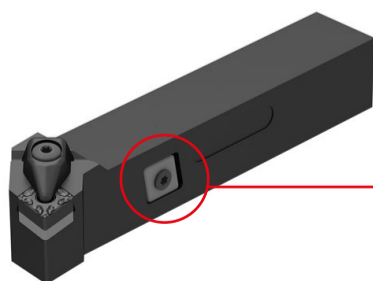


Illustrations show right-hand versions



ISO designation	DCONMS mm	H mm	OAL mm	LDRED mm	WF mm	DMIN mm	torque moment Nm	Insert
A25R DWLN R/L 06	25	24	200	32	17	32	2	WN.. 0604
A32S DWLN R/L 08	32	31	250	40	22	44	4	WN.. 0804
A40T DWLN R/L 08	40	39	300	45	27	50	4	WN.. 0804

Left-hand			Right-hand		
70 573 ...	PG	TO	70 572 ...	PG	TO
£	£	£	£	£	£
725	271.00	40.00	725	271.00	40.00
732	281.13	41.00	732	281.13	41.00
64000	313.30	46.00	640	313.30	46.00



With integrated spare seat

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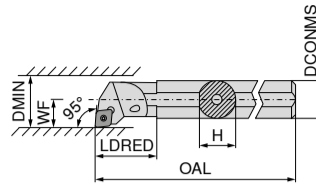
MaxiLock-S – SCLC 95° – Boring bar with screw clamping

- ▲ A... = with thro' coolant
- ▲ S... = without thro' coolant

Scope of supply:
Boring bar with Torx key



Performance



Illustrations show right-hand versions



ISO designation	DCONMS mm	H mm	OAL mm	LDRED mm	WF mm	DMIN mm	torque moment Nm	Insert
S08H SCLC R/L 06	8	7.2	100	11.0	5	11	1,2	CC..0602
A08F SCLC R/L 06	8	7.6	80	17.0	5	11	1,2	CC..0602
S10K SCLC R/L 06	10	9.0	125	15.0	7	13	1,2	CC..0602
A10H SCLC R/L 06	10	9.5	100	19.0	7	13	1,2	CC..0602
S12Q SCLC R/L 06	12	11.0	180	18.8	9	16	1,2	CC..0602
A12K SCLC R/L 06	12	11.5	125	22.0	9	16	1,2	CC..0602
A16M SCLC R/L 06	16	14.0	150	50.0	9	18	1,2	CC..0602
S16R SCLC R/L 09	16	14.5	200	25.0	11	20	3,2	CC..09T3
A16M SCLC R/L 09	16	15.0	150	29.0	11	20	3,2	CC..09T3
S20S SCLC R/L 09	20	18.0	250	25.0	13	25	3,2	CC..09T3
A20Q SCLC R/L 09	20	18.5	180	32.0	13	25	3,2	CC..09T3
S25T SCLC R/L 09	25	23.0	300	20.0	17	32	3,2	CC..09T3
A25R SCLC R/L 09	25	23.0	200	36.0	17	32	3,2	CC..09T3

Left-hand			Right-hand		
70 717 ...	PG	TO	70 716 ...	PG	TO
£	£	£	£	£	£
008	120.40	17.00	008	120.40	17.00
208	120.40	17.00	208	120.40	17.00
010	120.40	17.00	010	120.40	17.00
210	120.40	17.00	210	120.40	17.00
012	120.40	17.00	012	120.40	17.00
212	120.40	17.00	212	120.40	17.00
116	120.74	17.00	116	120.74	17.00
016	123.07	17.00	016	123.07	17.00
216	123.07	17.00	216	123.07	17.00
020	153.42	22.00	020	153.42	22.00
220	153.42	22.00	220	153.42	22.00
025	176.39	25.00	025	176.39	25.00
225	176.39	25.00	225	176.39	25.00

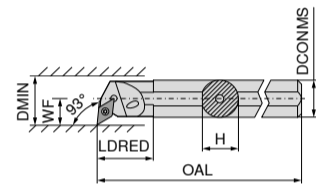
MaxiLock-S – SDUC 93° – Boring bar with screw clamping

- ▲ A... = with thro' coolant
- ▲ S... = without thro' coolant

Scope of supply:
Boring bar with Torx key



Performance



Illustrations show right-hand versions



ISO designation	DCONMS mm	H mm	OAL mm	LDRED mm	WF mm	DMIN mm	torque moment Nm	Insert
S12Q SDUC R/L 07	12	11.0	180	12.5	9	17	1,2	DC..0702
A12K SDUC R/L 07	12	11.5	125	22.0	9	16	1,2	DC..0702
S16R SDUC R/L 07	16	15.0	200	13.0	11	21	1,2	DC..0702
A16M SDUC R/L 07	16	15.0	150	29.0	11	20	1,2	DC..0702
S20S SDUC R 07	20	18.0	250	20.0	13	25	1,2	DC..0702
A20Q SDUC R/L 07	20	18.5	180	32.0	13	25	1,2	DC..0702
S20S SDUC R 11	20	18.0	250	20.0	13	25	3,2	DC..11T3
A20Q SDUC R/L 11	20	19.0	180	32.0	13	25	3,2	DC..11T3
S25T SDUC R/L 11	25	23.0	300	17	32	32	3,2	DC..11T3
A25R SDUC R/L 11	25	24.0	200	36.0	17	32	3,2	DC..11T3

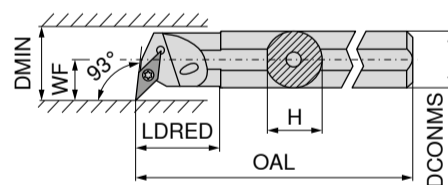
Left-hand			Right-hand		
70 737 ...	PG	TO	70 736 ...	PG	TO
£	£	£	£	£	£
012	120.40	17.00	012	120.40	17.00
212	120.40	17.00	212	120.40	17.00
016	123.07	17.00	016	123.07	17.00
216	123.07	17.00	216	123.07	17.00
020	153.42	22.00	020	153.42	22.00
220	153.42	22.00	220	153.42	22.00
120	153.42	22.00	120	153.42	22.00
320	153.42	22.00	320	153.42	22.00
125	176.39	25.00	125	176.39	25.00
325	176.39	25.00	325	176.39	25.00

MaxiLock-S – SVUC 93° – Boring bar with screw clamping

Scope of supply:
Boring bar with Torx key



Performance



Illustrations show right-hand versions



ISO designation	DCONMS mm	H mm	OAL mm	LDRED mm	WF mm	DMIN mm	torque moment Nm	Insert
A16M SVUC R/L 11	16	15	150	29	11	20	1,2	VC..1103
A20Q SVUC R/L 11	20	19	180	43	13	25	1,2	VC..1103
A25R SVUC R/L 11	25	24	200	38	17	32	1,2	VC..1103
A32S SVUC R/L 16	32	31	250	50	22	40	3,2	VC..1604
A40T SVUC R/L 16	40	39	300	60	27	50	3,2	VC..1604

Left-hand			Right-hand		
70 745 ...	PG	TO	70 744 ...	PG	TO
£	£	£	£	£	£
216	157.04	22.00	216	157.04	22.00
220	181.03	26.00	220	181.03	26.00
225	221.70	32.00	225	221.70	32.00
232	266.08	38.00	232	266.08	38.00
240	308.74	44.00	240	308.74	44.00

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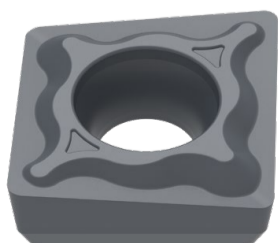
ECOCUT



EcoCut – Mini – from \varnothing 2 mm to \varnothing 8 mm
CTPP435 – universal grade for all materials



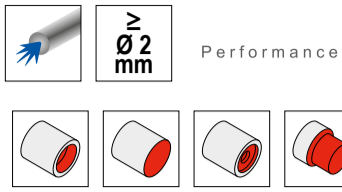
EcoCut – Classic – from \varnothing 10 mm upwards



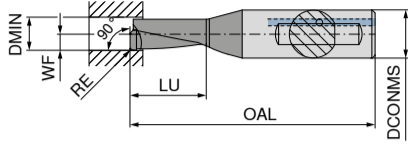
CTPP430 – universal grade for all materials.

EcoCut – Mini

▲ Drilling and turning tool for small diameters

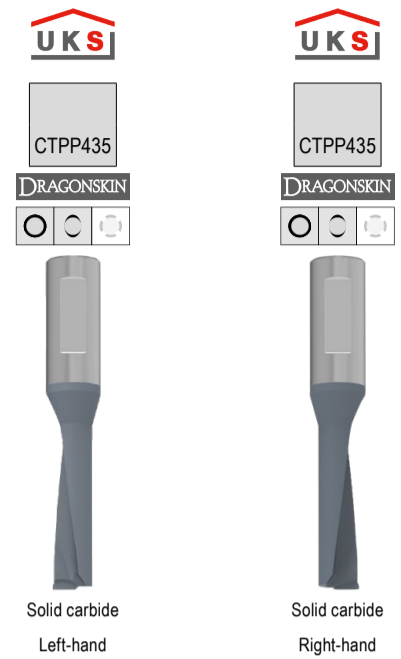


Performance



Illustrations show right-hand versions

ISO designation	DMIN mm	DCONMS mm	OAL mm	LU mm	WF mm	RE mm
ECM 02 R/L 2,25D	2.0	4	28	4.50	1.00	0.1
ECM 02 R/L 4,00D	2.0	4	31	8.00	1.00	0.1
ECM 02,5 R/L 2,25D	2.5	4	29	5.63	1.25	0.1
ECM 02,5 R/L 4,00D	2.5	4	33	10.00	1.25	0.1
ECM 03 R/L 2,25D	3.0	4	31	6.75	1.50	0.1
ECM 03 R/L 4,00D	3.0	4	35	12.00	1.50	0.1
ECM 03,5 R/L 2,25D	3.5	4	32	7.88	1.75	0.1
ECM 03,5 R/L 4,00D	3.5	4	37	14.00	1.75	0.1
ECM 04 R/L 2,25D	4.0	6	35	9.00	2.00	0.2
ECM 04 R/L 4,00D	4.0	6	41	16.00	2.00	0.2
ECM 05 R/L 2,25D	5.0	6	37	11.25	2.50	0.2
ECM 05 R/L 4,00D	5.0	6	45	20.00	2.50	0.2
ECM 06 R/L 2,25D	6.0	8	38	13.50	3.00	0.2
ECM 06 R/L 4,00D	6.0	8	49	24.00	3.00	0.2
ECM 07 R/L 2,25D	7.0	8	42	15.75	3.50	0.2
ECM 07 R/L 4,00D	7.0	8	53	28.00	3.50	0.2
ECM 08 R/L 2,25D	8.0	8	45	18.00	4.00	0.2
ECM 08 R/L 4,00D	8.0	8	57	32.00	4.00	0.2



70 805 ... PG SH		70 804 ... PG SH			
	£	£	£		
320	67.57	40.00	320	67.57	40.00
321	70.00	42.00	321	70.00	42.00
325	60.66	41.00	325	60.66	41.00
326	73.10	43.00	326	73.10	43.00
330	74.85	42.00	330	74.85	42.00
331	75.45	44.00	331	75.45	44.00
335	74.61	44.00	335	74.61	44.00
336	78.34	46.00	336	78.34	46.00
300	79.24	47.00	300	79.24	47.00
301	89.20	49.00	301	89.20	49.00
302	81.00	48.00	302	81.00	48.00
303	85.70	50.00	303	85.70	50.00
306	84.11	49.00	306	84.11	49.00
312	88.32	52.00	312	88.32	52.00
308	86.69	51.00	308	86.69	51.00
314	91.25	54.00	314	91.25	54.00
310	89.61	53.00	310	89.61	53.00
316	93.93	55.00	316	93.93	55.00

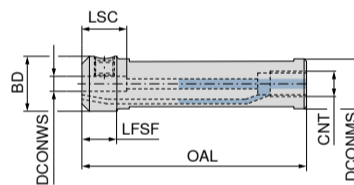
EcoCut – Mini adapter with coolant connection thread

Scope of supply:

Toolholder with one clamping screw



Performance



Designation	DCONWS mm	DCONMS mm	BD mm	OAL mm	LFSF mm	LSC mm	CNT
ECA 16-04	4	16	20.0	75	14	18	G 1/8
ECA 16-06	6	16	22.0	75	14	18	G 1/8
ECA 16-08	8	16	22.0	75	14	18	G 1/8
ECA 20-04	4	20	19.6	90	14	18	G 1/8
ECA 20-06	6	20	22.0	90	14	18	G 1/8
ECA 20-08	8	20	22.0	90	14	18	G 1/8
ECA 22-04	4	22	21.6	110	14	18	G 1/8
ECA 22-06	6	22	21.6	110	14	18	G 1/8
ECA 22-08	8	22	21.6	110	14	18	G 1/8

70 801 ... PG TO		
	£	
716	125.65	18.00
816	125.65	18.00
916	125.65	18.00
720	128.40	18.00
820	128.40	18.00
920	128.40	18.00
722	132.27	19.00
822	132.27	19.00
922	132.27	19.00

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.



Technical support: 0800 073 2 075
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

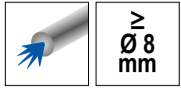


When you see this logo it's
in stock in Sheffield

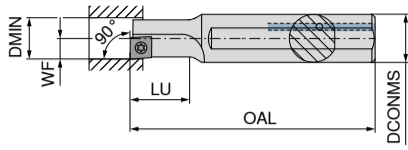
EcoCut – Classic 1.5xD

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver

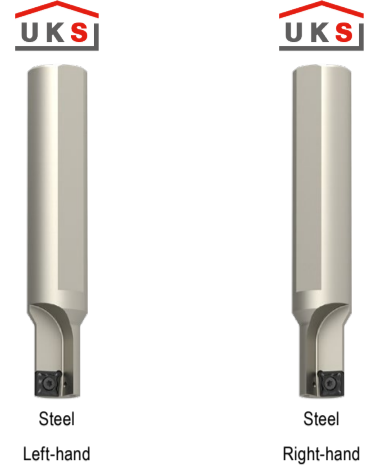


Performance



Illustrations show right-hand versions

ISO designation	DMIN mm	DCONMS mm	OAL mm	LU mm	WF mm	torque moment Nm	Insert
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..



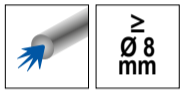
70 805 ...		PG	TO	70 804 ...		PG	TO
	£		£		£		£
010	198.57		28.00	010	198.57		28.00
012	291.76		29.00	012	291.76		29.00
014	286.57		30.00	014	286.57		30.00
016	289.84		30.00	016	289.84		30.00
018	242.00		35.00	018	242.00		35.00
020	272.74		39.00	020	272.74		39.00
025	314.67		45.00	025	314.67		45.00
032	356.64		51.00	032	356.64		51.00

EcoCut – Classic 2.25xD

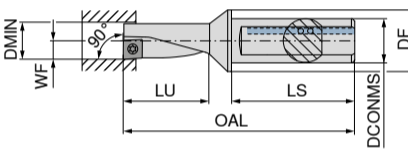
▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



Performance



Illustrations show right-hand versions

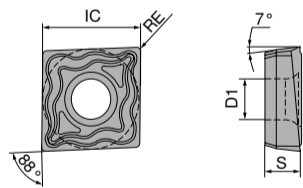
ISO designation	DMIN mm	DCONMS mm	OAL mm	LU mm	LS mm	WF mm	torque moment Nm	Insert
ECC 10 R/L 2,25D 05	10	12	69.5	22.5	42	5.0	0,7	XC.T 0502..
ECC 12 R/L 2,25D 06	12	16	78.0	27.0	45	6.0	1,0	XC.T 0602..
ECC 14 R/L 2,25D 07	14	16	83.5	31.5	45	7.0	1,2	XC.T 0703..
ECC 16 R/L 2,25D 08	16	20	94.0	36.0	50	8.0	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..



70 805 ...		PG	TO	70 804 ...		PG	TO
	£		£		£		£
110	295.15		42.00	110	295.15		42.00
112	393.44		44.00	112	393.44		44.00
114	310.03		45.00	114	310.03		45.00
116	316.48		46.00	116	316.48		46.00
118	348.73		50.00	118	348.73		50.00
120	379.43		55.00	120	379.43		55.00
125	440.58		64.00	125	440.58		64.00
132	495.36		72.00	132	495.36		72.00

XCNT

Performance

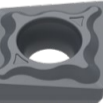


ISO designation	RE mm	S mm	D1 mm	IC mm
XCNT 050202EN	0.2	2.1	2.25	5.8
XCNT 050204EN	0.4	2.1	2.25	5.8
XCNT 060202EN	0.2	2.38	2.50	6.5
XCNT 060204EN	0.4	2.38	2.50	6.5
XCNT 070304EN	0.4	3.18	2.80	7.6
XCNT 080304EN	0.4	3.18	3.40	8.5
XCNT 09T304EN	0.4	3.97	3.40	9.6
XCNT 10T304EN	0.4	3.97	4.40	10.6
XCNT 10T308EN	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



-EN
CTPP430

DRAGONSKIN



XCNT

70 386 ...		PG	MT
	£		£
923	47.24		10.00
903	47.24		10.00
924	47.24		10.00
904	47.24		10.00
905	47.24		10.00
906	47.50		10.00
907	47.77		10.00
908	48.66		11.00
938	48.66		11.00
910	21.33		12.00
940	21.33		12.00
912	22.50		13.00

P	●
M	●
K	○
N	○
S	○
H	○
O	○





GROOVING TOOLS



SX System – first choice system for parting off.



M1 – first choice chipbreaker for parting off.

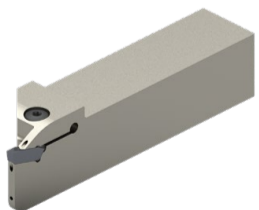


M2 – first choice all purpose geometry for parting, grooving and turning.



F2 – high precision ground insert for excellent chip control.

CTP1340 – universal grade for all materials.

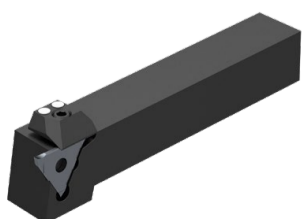


GX System – first choice system for grooving and groove turning.



M40 – first choice chipbreaker for grooving and turning.

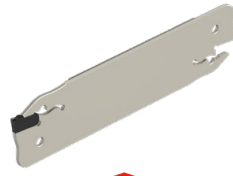
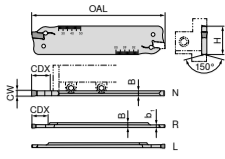
CTP1340 – universal grade for all materials.



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

MonoClamp – Radial Blade SX Standard

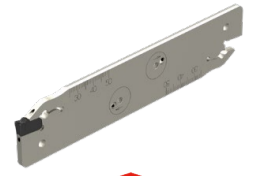
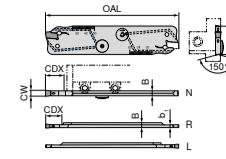
Performance



ISO designation	R/L/N	CW mm	H mm	B mm	OAL mm	b ₁ mm	CDX mm	for grooving inserts	70 884 ...	PG	TO	£	£
XLCF L 2602-SX2	L	2	26	2.4	110	1.5	25	SX 2..	01	212		108.27	16.00
XLCF R 2602-SX2	R	2	26	2.4	110	1.5	25	SX 2..	03	012		108.27	16.00
XLCF N 2603-SX3	N	3	26	2.4	110		35	SX 3..	05	113		108.27	16.00
XCLF N 2604-SX4	N	4	26	3.2	110		40	SX 4..	07	114		108.27	16.00
XLCF L 3202-SX2	L	2	32	2.4	150	1.5	25	SX 2..	02	202		113.26	16.00
XLCF R 3202-SX2	R	2	32	2.4	150	1.5	25	SX 2..	04	002		113.26	16.00
XLCF N 3203-SX3	N	3	32	2.4	150		50	SX 3..	06	103		113.26	16.00
XLCF N 3204-SX4	N	4	32	3.2	150		50	SX 4..	08	104		113.26	16.00
XLCF N 3205-SX5	N	5	32	4.2	150		55	SX 5..	09	105		113.26	16.00
XLCF N 3206-SX6	N	6	32	5.2	150		60	SX 6..	10	106		113.26	16.00

MonoClamp – Radial Blade SX-DC Standard

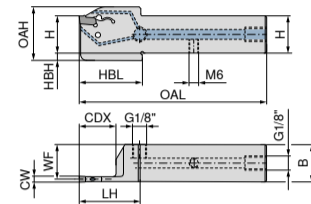
Performance



ISO designation	R/L/N	CW mm	H mm	B mm	b ₁ mm	OAL mm	CDX mm	for grooving inserts	70 884 ...	PG	TO	£	£
XLCF L 2602-DC-SX2	L	2	26	2.4	1.6	110	25	SX 2..		712		104.73	27.00
XLCF R 2602-DC-SX2	R	2	26	2.4	1.6	110	25	SX 2..		512		104.73	27.00
XLCF N 2603-DC-SX3	N	3	26	2.5		110	35	SX 3..		613		104.73	27.00
XLCF N 2604-DC-SX4	N	4	26	3.3		110	40	SX 4..		614		104.73	27.00
XLCF L 3202-DC-SX2	L	2	32	2.4	1.6	150	26	SX 2..		702		200.21	29.00
XLCF R 3202-DC-SX2	R	2	32	2.4	1.6	150	26	SX 2..		502		200.21	29.00
XLCF N 3203-DC-SX3	N	3	32	2.5		150	50	SX 3..		603		200.21	29.00
XLCF N 3204-DC-SX4	N	4	32	3.3		150	50	SX 4..		604		200.21	29.00
XLCF N 3205-DC-SX5	N	5	32	4.3		150	55	SX 5..		605		200.21	29.00
XLCF N 3206-DC-SX6	N	6	32	5.2		150	60	SX 6..		606		200.21	29.00

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	70 847 ... Left-hand	PG	TO	£	£	70 847 ... Right-hand	PG	TO	£	£
E12 R/L 0022-1212X-K-DC-SX2	12	12	2	11.20	71	27	28	27	22	5	SX 2..	21201			470.70	26.00	21200			470.70	26.00
E16 R/L 0026-1616X-K-DC-SX2	16	16	2	15.20	87	32	33	30	26	4	SX 2..	21601			488.06	28.00	21600			488.06	28.00
E16 R/L 0026-1616X-K-DC-SX3	16	16	3	14.75	87	32	33	30	26	4	SX 3..	31601			488.06	28.00	31600			488.06	28.00
E20 R/L 0026-2020X-K-DC-SX2	20	20	2	19.20	102	32	33	36	26	5	SX 2..	22001			214.14	31.00	22000			214.14	31.00
E20 R/L 0026-2020X-K-DC-SX3	20	20	3	18.75	102	32	33	36	26	5	SX 3..	32001			214.14	31.00	32000			214.14	31.00
E20 R/L 0033-2020X-K-DC-SX4	20	20	4	18.30	109	39	40	37	33	5	SX 4..	42001			214.14	31.00	42000			214.14	31.00
E25 R/L 0033-2525X-K-DC-SX2	25	25	2	24.20	126	41	42	41	33	5	SX 2..	22501			230.40	34.00	22500			230.40	34.00
E25 R/L 0026-2525X-K-DC-SX3	25	25	3	23.75	117	33		31	26		SX 3..	32501			230.40	34.00	32500			230.40	34.00
E25 R/L 0033-2525X-K-DC-SX3	25	25	3	23.75	126	41	42	41	33	5	SX 3..	32601			230.40	34.00	32600			230.40	34.00
E25 R/L 0033-2525X-K-DC-SX4	25	25	4	23.30	126	41	42	41	33	5	SX 4..	42501			230.40	34.00	42500			230.40	34.00
E25 R/L 0040-2525X-K-DC-SX4	25	25	4	23.30	133	48	49	44	40	6	SX 4..	42601			230.40	34.00	42600			230.40	34.00
E25 R/L 0040-2525X-K-DC-SX5	25	25	5	22.85	133	48	49	44	40	6	SX 5..	52501			230.40	34.00	52500			230.40	34.00
E25 R/L 0040-2525X-K-DC-SX6	25	25	6	22.35	133	48	49	44	40	6	SX 6..	62501			230.40	34.00	62500			230.40	34.00



Ejector SX

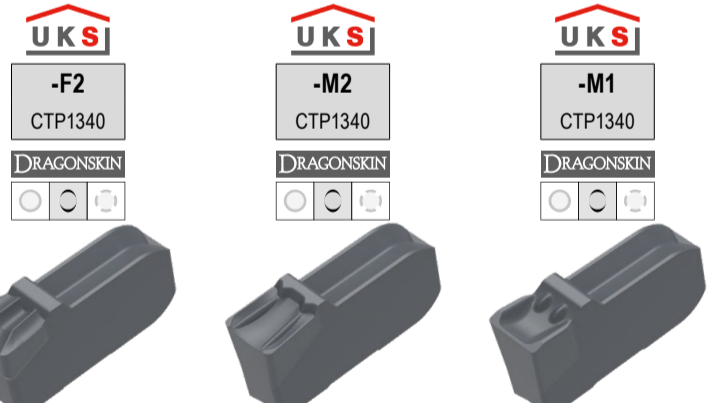
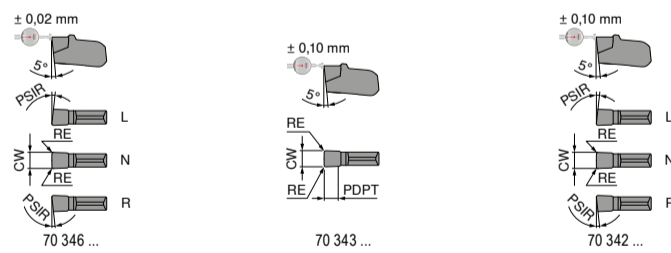
Spare parts
for grooving inserts
SX 2..
SX 3..
SX 4..
SX 5..
SX 6..

70 950 ...	£	£
836	22.00	836
837	22.00	837
837	22.00	837
837	22.00	837

Insert SX



Performance



Designation	IH	CW +/-0.05/-0.02 mm	RE +/-0.05 mm	PDPT mm	for tool holder	70 346 ...	PG	IG	£	£	70 343 ...	PG	IG	£	£	70 342 ...	PG	IG	£	£	
SX E2.00 L 6	L	2	0.2	2.0	-SX2											612			44.60	9.00	
SX E3.00 L 6	L	3	0.2	2.5	-SX3											613			45.61	9.00	
SX E4.00 L 6	L	4	0.3	2.9	-SX4											614			46.46	10.00	
SX E2.00 N 0.20	N	2	0.2	1.5	-SX2						622			44.60	13.00	622			44.60	9.00	
SX E3.00 N 0.20	N	3	0.2	2.0	-SX3						623			45.61	14.00	623			45.61	9.00	
SX E4.00 N 0.30	N	4	0.3	2.5	-SX4						624			46.46	15.00	624			46.46	10.00	
SX E5.00 N 0.30	N	5	0.3	2.7	-SX5						625			47.52	10.00	625			47.52	11.00	
SX E5.00 N 0.40	N	5	0.4	2.7	-SX5						626			48.00	11.00	626			48.00	12.00	
SX E6.00 N 0.40	N	6	0.4	3.0	-SX6											602			44.60	9.00	
SX E6.00 N 0.50	N	6	0.5	3.0	-SX6											603			45.61	9.00	
SX E2.00 R 6	R	2	0.2	2.0	-SX2											604			46.46	10.00	
SX E3.00 R 6	R	3	0.2	2.5	-SX3																
SX E4.00 R 6	R	4	0.3	2.9	-SX4																

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



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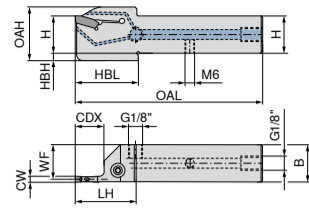


MonoClamp – Radial Monoholder GX-DC 16

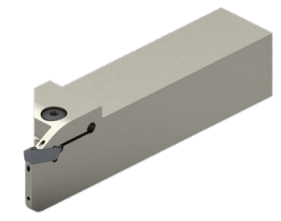
Scope of supply:

Mono holder incl. Torx key and clamping screw

Performance



Illustrations show right-hand versions



ISO designation	H mm	B mm	CW mm	WF mm	OAH mm	OAL mm	LH mm	HBL mm	HBH mm	CDX mm	for grooving inserts
E16 R/L 0013S2-1616X-S-DC-GX16	16	16	2	15.20	25	90	35	36	4	13	GX 16-1 E2..
E16 R/L 0013S3-1616X-S-DC-GX16	16	16	3	14.85	25	90	35	36	4	13	GX 16-2 E3..
E16 R/L 0013S4-1616X-S-DC-GX16	16	16	4	14.40	25	90	35	36	4	13	GX 16-3 E4..
E16 R/L 0013S5-1616X-S-DC-GX16	16	16	5	14.00	25	90	35	36	4	13	GX 16-3 E5..
E20 R/L 0013S2-2020X-S-DC-GX16	20	20	2	19.20	25	104	35			13	GX 16-1 E2..
E20 R/L 0013S3-2020X-S-DC-GX16	20	20	3	18.85	25	104	35			13	GX 16-2 E3..
E20 R/L 0013S4-2020X-S-DC-GX16	20	20	4	18.40	25	104	35			13	GX 16-3 E4..
E20 R/L 0013S5-2020X-S-DC-GX16	20	20	5	18.00	25	104	35			13	GX 16-3 E5..
E25 R/L 0013S3-2525X-S-DC-GX16	25	25	3	23.85	30	119	35			13	GX 16-2 E3..
E25 R/L 0013S4-2525X-S-DC-GX16	25	25	4	23.40	30	119	35			13	GX 16-3 E4..
E25 R/L 0013S5-2525X-S-DC-GX16	25	25	5	23.00	30	119	35			13	GX 16-3 E5..

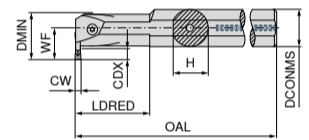
UKS Left-hand				UKS Right-hand			
70 842 ...	PG	TO	£	70 842 ...	PG	TO	£
21601			180.34 26.00	21600			180.34 26.00
31601			180.34 26.00	31600			180.34 26.00
41601			180.34 26.00	41600			180.34 26.00
51601			180.34 26.00	51600			180.34 26.00
22001			207.60 30.00	22000			207.60 30.00
32001			207.60 30.00	32000			207.60 30.00
42001			207.60 30.00	42000			207.60 30.00
52001			207.60 30.00	52000			207.60 30.00
32501			220.85 32.00	32500			220.85 32.00
42501			220.85 32.00	42500			220.85 32.00
52501			220.85 32.00	52500			220.85 32.00

MonoClamp – Radial Mono-boring bars GX 16

Scope of supply:

Boring bar incl. key and clamping screw

Performance



Illustrations show right-hand versions

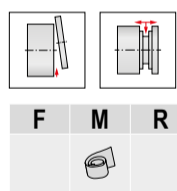


ISO designation	H mm	DCONMS mm	DMIN mm	CW mm	CDX mm	WF mm	OAL mm	LDRED mm	for grooving inserts
I16 R/L 90-2.0D-GX16-1	15.25	16	20.5	2,00 - 2,75	5.0	13.5	150	32	GX 16-1
I16 R/L 90-2.0D-GX16-2	15.25	16	20.5	2,76 - 3,75	5.0	13.5	150	32	GX 16-2
I20 R/L 90-2.0D-GX16-2	19.00	20	25.0	2,76 - 3,75	5.5	15.5	180	40	GX 16-2
I25 R/L 90-2.0D-GX16-2	24.00	25	32.0	2,76 - 3,75	8.0	20.5	200	50	GX 16-2
I25 R/L 90-2.0D-GX16-3	24.00	25	32.0	3,76 - 5,00	10.0	22.5	200	50	GX 16-3
I32 R/L 90-2.0D-GX16-2	31.00	32	42.0	2,76 - 3,75	11.0	27.5	250	64	GX 16-2
I32 R/L 90-2.0D-GX16-3	31.00	32	42.0	3,76 - 5,00	11.0	27.5	250	64	GX 16-3

UKS Left-hand				UKS Right-hand			
70 893 ...	PG	TO	£	70 892 ...	PG	TO	£
516			163.14 24.00	516			163.14 24.00
616			163.14 24.00	616			163.14 24.00
620			176.21 26.00	620			176.21 26.00
625			204.85 30.00	625			204.85 30.00
725			204.85 30.00	725			204.85 30.00
632			238.13 35.00	632			238.13 35.00
732			238.13 35.00	732			238.13 35.00

Insert GX 16

▲ Very good swarf control



Performance

Designation	INSL mm	CW $\pm 0,05$ mm	RE $\pm 0,05$ mm	PDPT mm	for tool holder
GX 16-1 E2.00 N 0.20	16	2	0.2	2.5	GX 16-1
GX 16-2 E3.00 N 0.30	16	3	0.3	3.0	GX 16-2
GX 16-3 E4.00 N 0.40	16	4	0.4	3.5	GX 16-3
GX 16-3 E5.00 N 0.40	16	5	0.4	3.5	GX 16-3
GX 16-4 E6.00 N 0.50	16	6	0.5	4.0	GX 16-4



UKS			
70 351 ...	PG	IG	£
602			20.82 12.00
610			20.82 12.00
618			23.10 13.00
626			25.54 15.00
630			27.86 16.00

P	●
M	●
K	●
N	○
S	●
H	●
O	○



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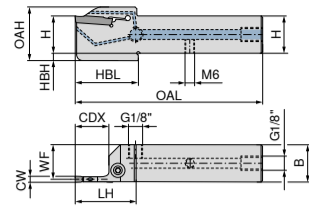


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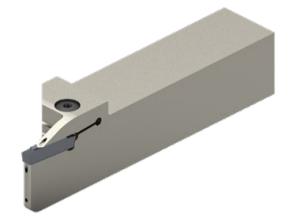
MonoClamp – Radial Monoholder GX-DC 24

Scope of supply:
Mono holder incl. key and clamping screw

Performance



Illustrations show right-hand versions



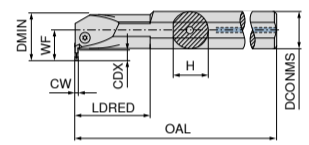
ISO designation	H	B	CW	WF	OAH	OAL	LH	HBL	HBH	CDX	for grooving inserts
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
E16 R/L 0021S2-1616X-S-DC-GX24	16	16	2	15.2	26	94	39	40	4	21	GX 24-1 E2..
E16 R/L 0021S3-1616X-S-DC-GX24	16	16	3	14.8	26	94	39	40	4	21	GX 24-2 E3..
E20 R/L 0021S2-2020X-S-DC-GX24	20	20	2	19.2	26	109	40			21	GX 24-1 E2..
E20 R/L 0021S3-2020X-S-DC-GX24	20	20	3	18.8	26	109	40			21	GX 24-2 E3..
E20 R/L 0021S4-2020X-S-DC-GX24	20	20	4	18.3	26	109	40			21	GX 24-3 E4..
E20 R/L 0021S5-2020X-S-DC-GX24	20	20	5	18.0	26	109	40			21	GX 24-3 E5..
E25 R/L 0021S3-2525X-S-DC-GX24	25	25	3	23.8	31	124	40			21	GX 24-2 E3..
E25 R/L 0021S4-2525X-S-DC-GX24	25	25	4	23.3	31	124	40			21	GX 24-3 E4..
E25 R/L 0021S5-2525X-S-DC-GX24	25	25	5	23.0	31	124	40			21	GX 24-3 E5..
E25 R/L 0021S6-2525X-S-DC-GX24	25	25	6	22.5	31	124	40			21	GX 24-4 E6..

UKS Left-hand 70 844 ...				UKS Right-hand 70 844 ...				
	PG	TO	£		PG	TO	£	
21601			199.99	28.00	21600		199.99	28.00
31601			199.99	28.00	31600		199.99	28.00
22001		32.00	229.17		22000		229.17	32.00
32001		32.00	229.17		32000		229.17	32.00
42001		32.00	229.17		42000		229.17	32.00
52001		32.00	229.17		52000		229.17	32.00
32501		35.00	239.65		32500		239.65	35.00
42501		35.00	239.65		42500		239.65	35.00
52501		35.00	239.65		52500		239.65	35.00
62501		35.00	239.65		62500		239.65	35.00

MonoClamp – Radial Mono-boring bars GX 24

Scope of supply:
Boring bar incl. key and clamping screw

Performance



Illustrations show right-hand versions



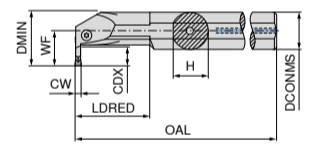
ISO designation	H	DCONMS	DMIN	CW	CDX	WF	OAL	LDRED	for grooving inserts
	mm	mm	mm	mm	mm	mm	mm	mm	
132 R/L 90-2.0D-GX24-2	31.0	32	42	2,76 - 3,75	11	27.5	250	64	GX 24-2
132 R/L 90-2.0D-GX24-3	31.0	32	42	3,76 - 5,00	11	27.5	250	64	GX 24-3
140 R/L 90-2.0D-GX24-3	38.5	40	53	3,76 - 5,00	12	32.5	300	80	GX 24-3

UKS Left-hand 70 895 ...				UKS Right-hand 70 894 ...				
	PG	TO	£		PG	TO	£	
132			239.13	35.00	132		239.13	35.00
232			239.13	35.00	232		239.13	35.00
240		43.00	295.93		240		295.93	43.00

MonoClamp – Radial Mono-boring bars GX 24

Scope of supply:
Boring bar incl. key and clamping screw

Performance



Illustrations show right-hand versions

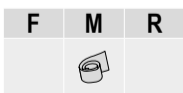
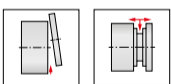


ISO designation	H	DCONMS	DMIN	CW	CDX	WF	OAL	LDRED	for grooving inserts
	mm	mm	mm	mm	mm	mm	mm	mm	
132 R/L 90-2.0D-GX24-4	31.0	32	47	5,01 - 6,50	17.5	30.4	250	64	GX 24-4
140 R/L 90-2.0D-GX24-4	38.5	40	57	5,01 - 6,50	17.5	34.4	300	80	GX 24-4

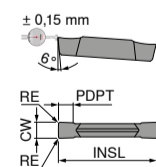
UKS Left-hand 70 895 ...				UKS Right-hand 70 894 ...				
	PG	TO	£		PG	TO	£	
332			239.13	35.00	332		239.13	35.00
340		43.00	295.93		340		295.93	43.00

Insert GX 24

▲ Very good swarf control



Performance



UKS

-M40
CTP1340



Designation	INSL	CW +0,05	RE +0,05	PDPT	for tool holder
	mm	mm	mm	mm	
GX 24-2 E3.00 N 0.30	24	3	0.3	3.5	GX 24-2
GX 24-3 E4.00 N 0.40	24	4	0.4	4.0	GX 24-3
GX 24-3 E5.00 N 0.40	24	5	0.4	4.0	GX 24-3
GX 24-4 E6.00 N 0.50	24	6	0.5	4.0	GX 24-4

UKS 70 364 ...		
	PG	IG
600		22.19
602		24.28
604		26.19
606		29.12

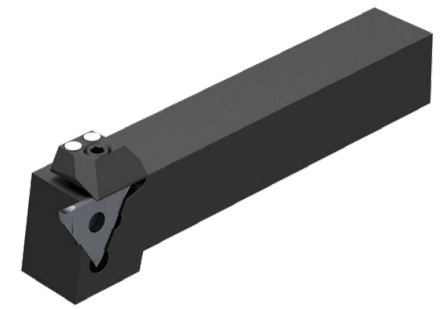
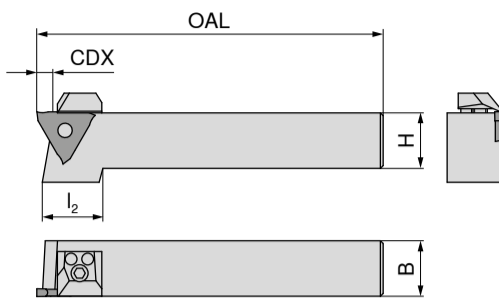
P	●
M	●
K	●
N	●
S	○
H	●
O	○



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 ± 0.1 mm	OAL mm	l 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 207.1616.2	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 207.2020.3	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

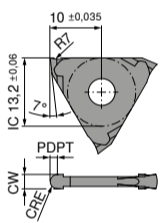
Right-hand

73 500 ...	PG	TO
£	£	£
112	453.05	38.00
116	437.26	34.00
120	406.38	26.00
125	441.63	28.00
216	437.26	34.00
220	406.38	26.00
225	441.63	28.00
320	406.38	26.00
325	441.63	28.00
332	430.29	32.00

Radial TX insert for corner recessing

- ▲ Full radius for cutting width 0.5–5.0 mm

Performance



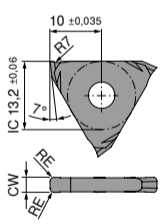
Neutral

Designation	CRE mm	CW ± 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

73 304 ...	PG	IG
£	£	£
204	35.00	27.00
206	37.39	29.00

TX insert for fine and copy turning

Performance



Neutral

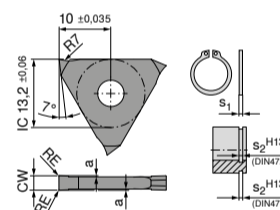
Designation	CW ± 0.03 mm
TX N 0150.02.1	1.5
TX N 0200.02.1	2.0
TX N 0200.04.1	2.0
TX N 0300.06.2	3.0
TX N 0300.02.2	3.0
TX N 0300.08.2	3.0
TX N 0400.08.3	4.0
TX N 0400.02.3	4.0
TX N 0400.12.3	4.0

73 303 ...	PG	IG
£	£	£
204	28.36	21.00
206	28.36	21.00
208	28.36	21.00
212	29.84	23.00
210	29.84	23.00
214	29.84	23.00
218	30.43	23.00
216	30.43	23.00
220	30.43	23.00

TX insert for circlip grooves

- ▲ For circlip grooves according to DIN 471 / 472

Performance



Neutral

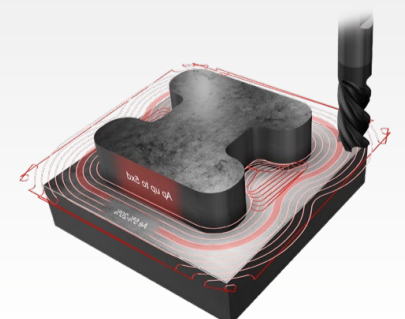
Designation	CW ± 0.05 mm	a ± 0.02 mm
TX N 0050.00.1	0.57	0.07
TX N 0060.00.1	0.67	0.07
TX N 0070.00.1	0.77	0.08
TX N 0080.00.1	0.87	0.08
TX N 0090.00.1	0.97	0.08
TX N 0100.00.1	1.07	0.09
TX N 0110.00.1	1.24	0.15
TX N 0130.00.1	1.44	0.15
TX N 0160.00.1	1.74	0.20
TX N 0185.00.1	1.99	0.20
TX N 0215.00.2	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	IG
£	£	£
204	22.00	17.00
206	22.00	17.00
208	22.00	17.00
210	22.00	17.00
212	22.00	17.00
214	22.00	17.00
216	22.00	17.00
218	22.00	17.00
220	22.00	17.00
222	22.00	17.00
224	22.00	17.00
226	22.00	17.00
228	24.08	18.00

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MINIATURE TURNING TOOLS



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



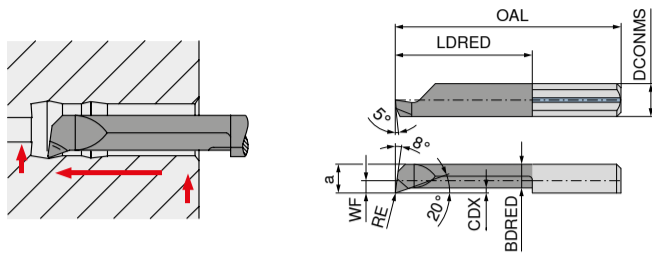
MiniCut system – for small diameter internal features from 8 mm onwards.

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

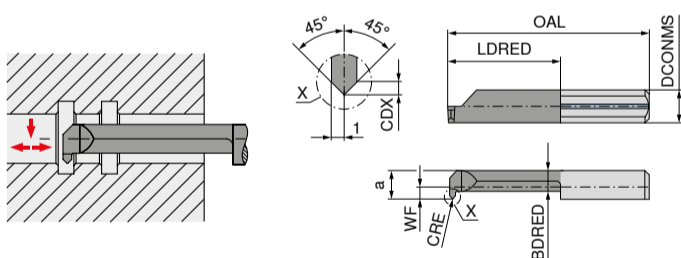
73 004 ...	PG	ST	£	£
520			31.66	25.00
521			32.36	25.00
522			34.17	27.00
531			34.06	27.00
530			34.58	27.00
532			36.43	29.00
541			34.34	27.00
540			34.05	27.00
542			36.55	29.00
545			39.62	31.00
546			44.12	35.00
551			32.26	25.00
552			34.09	27.00
550			35.09	28.00
553			40.06	32.00
554			44.12	35.00
556			48.08	38.00
561			35.36	29.00
560			36.82	29.00
562			40.82	32.00
563			44.76	35.00
564			48.09	38.00
565			53.66	42.00
572			36.07	29.00
573			46.37	37.00
574			47.15	37.00
575			48.07	39.00
576			54.33	43.00
577			57.62	46.00
578			62.12	49.00

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	ST	£	£
551			32.38	25.00
550			34.17	27.00
570			37.89	30.00



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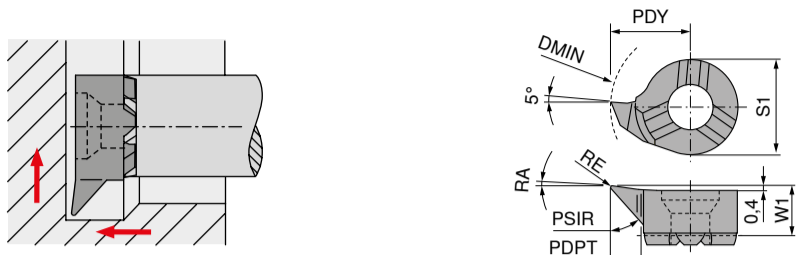
MiniCut – Internal undercut insert

▲ CDX = a_{pmax}



CWX500

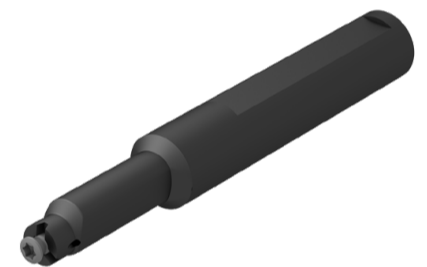
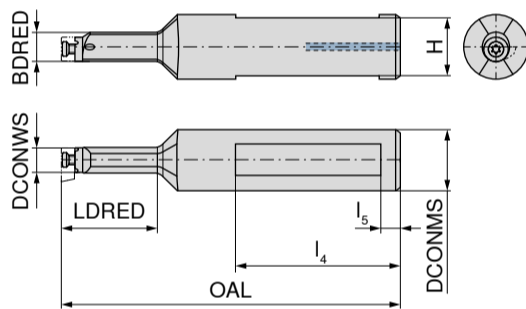
Performance



Size	ISO designation	DMIN mm	PDPT mm	W1 mm	PDY mm	S1 mm	RE mm	CDX mm	PSIR °	RA °	Right-hand		
											73 326 ...	PG	EH
08	8,00. R. 30°1,0	7.8	1.0	3.5	4.65	6	0.2	0.4	30	3	£	£	
	8,00. R. 47°1,2	7.8	1.2	3.5	4.65	6	0.2	0.4	47	3	23.77	21.00	
11	11,00. R. 30°2,3	11.0	2.3	4.2	6.70	8	0.2	0.6	30	3	20.55	18.00	
	11,00. R. 47°2,3	11.0	2.3	4.2	6.70	8	0.2	0.6	47	3	23.42	20.00	
14	13,70. R. 47°3,0	13.7	3.0	5.3	8.70	9	0.2	0.8	47	3	20.06	18.00	
	13,70. R. 30°4,0	13.7	4.0	5.3	8.70	9	0.2	0.8	30	3	20.55	18.00	
P											•		
M											•		
K											•		
N											•		
S											•		
H											•		
O											•		

MiniCut – Steel Tool holder

Performance



Designation	a mm	DCONMS ₁₇ mm	OAL mm	l ₄ mm	LDRED mm	BDRED mm	H mm	l ₅ mm	73 522 ...		
									PG	TO	£
8,00/16.N.12.1,0	7.8	16	80	60	12		15.0	5	419.45	38.00	
8,00/16.N.22.1,0	7.8	16	90	60	22	7.0	15.0	5	436.04	43.00	
11,00/16.N.16.2,3	10.7	16	97	60	16		14.5	5	419.45	38.00	
11,00/16.N.29.2,3	10.7	16	110	60	29	9.5	14.5	5	436.04	43.00	
14,00/16.N.18.4,0	13.8	16	100	60	18	11.0	14.5	5	436.04	43.00	
14,00/16.N.38.4,0	13.8	16	120	60	38	11.0	14.5	5	436.04	43.00	

1
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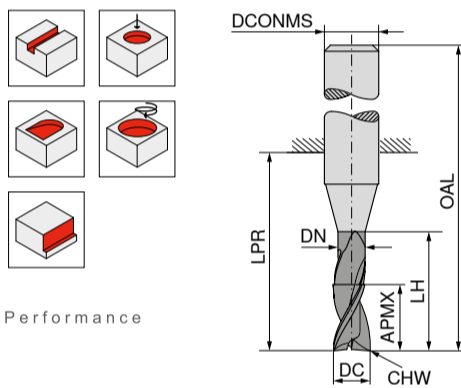
- ▲ Smoother processing
- ▲ Lower forces during chip formation
- ▲ Reduced heat generation

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



Performance

DC ₁₆	APMX	DN	LH	LPR	OAL	DCNMS ₁₆	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
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
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	•	•	•
M	•	•	•
K	•	•	•
N	○	○	○
S	•	•	•
H	•	•	•
O	•	•	•

UKS	UKS	UKS
DPB72S	DPB72S	DPB72S
DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
≈DIN 6527	≈DIN 6527	≈DIN 6527
50 966 ... PG SA	50 966 ... PG SA	50 966 ... PG SA
£ £	£ £	£ £
04100	04200	04400
05100	05200	05400
06100	06200	06400
08100	08200	08400
10100	10200	10400
12100	12200	12400
14100	14200	14400
16100	16200	16400
20100	20200	20400



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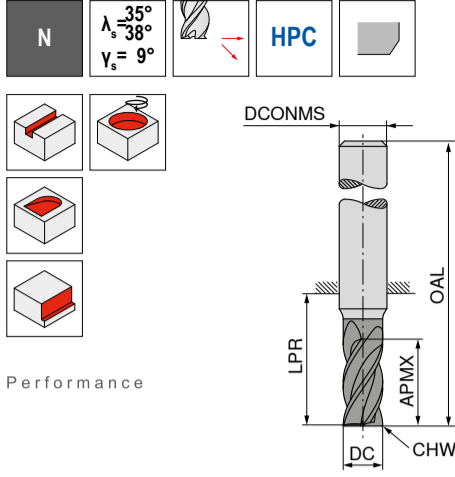


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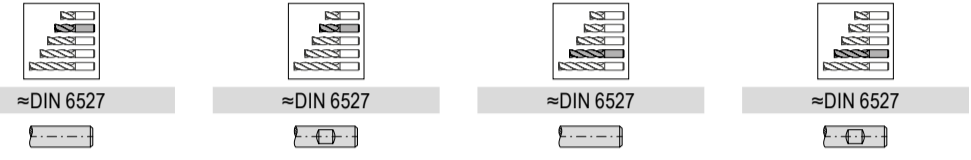
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SilverLine – End milling cutter



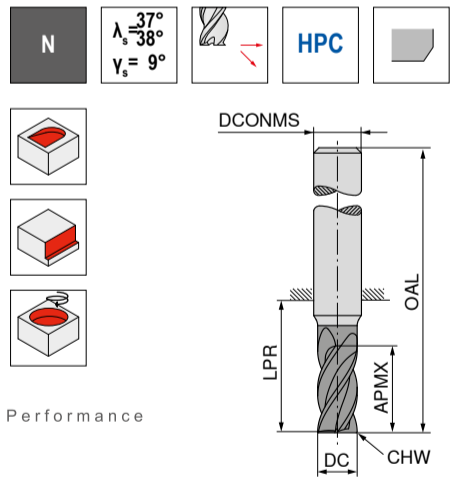
DC _{es}	APMX	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	
3.0	5	14	50	6	0.1	4
3.0	8	21	57	6	0.1	4
3.5	8	18	54	6	0.1	4
3.5	11	21	57	6	0.1	4
4.0	8	18	54	6	0.1	4
4.0	11	21	57	6	0.1	4
4.5	9	18	54	6	0.1	4
4.5	13	21	57	6	0.1	4
5.0	9	18	54	6	0.1	4
5.0	13	21	57	6	0.1	4
5.5	10	18	54	6	0.1	4
5.5	13	21	57	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
18.0	22	34	82	18	0.3	4
18.0	36	44	92	18	0.3	4
20.0	26	42	92	20	0.3	4
20.0	41	54	104	20	0.3	4

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



Code	50 972 ... PG SA		50 973 ... PG SA		50 972 ... PG SA		50 973 ... PG SA	
	£	£	£	£	£	£	£	£
03100	47.20	28.00	03100	47.20	28.00	03200	47.20	28.00
03600	47.20	28.00	03600	47.20	28.00	03700	47.20	28.00
04100	47.20	28.00	04100	47.20	28.00	04200	47.20	28.00
04600	48.20	28.00	04600	48.20	28.00	04700	48.20	28.00
05100	48.20	28.00	05100	48.20	28.00	05200	48.20	28.00
05600	46.74	28.00	05600	46.74	28.00	05700	46.74	28.00
06100	46.74	28.00	06100	46.74	28.00	06200	46.74	28.00
07100	62.44	37.00	07100	62.44	37.00	07200	62.44	37.00
08100	62.44	37.00	08100	62.44	37.00	08200	62.44	37.00
09100	84.05	48.00	09100	84.05	48.00	09200	84.05	48.00
10100	84.05	48.00	10100	84.05	48.00	10200	84.05	48.00
11100	128.44	76.00	11100	128.44	76.00	11200	128.44	76.00
12100	128.44	76.00	12100	128.44	76.00	12200	128.44	76.00
14100	164.69	98.00	14100	164.69	98.00	14200	164.69	98.00
16100	203.30	121.00	16100	203.30	121.00	15200	203.30	121.00
20100	343.84	188.00	20100	343.84	188.00	20200	343.84	188.00

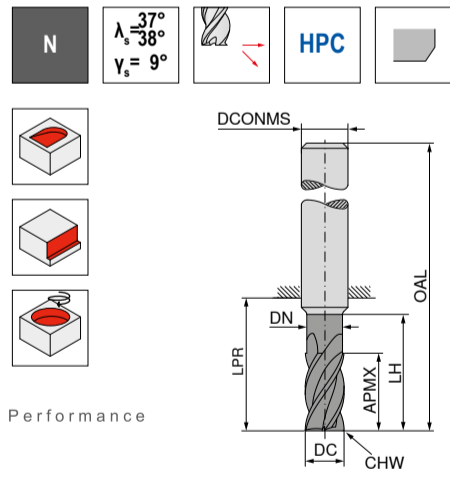
SilverLine – End milling cutter



DC _{es}	APMX	LPR	OAL	DCONMS _{h6}	α°	ZEFP
mm	mm	mm	mm	mm		
6	10	18	54	6	45	5
8	12	22	58	8	45	5
10	14	26	66	10	45	5
12	16	28	73	12	45	5
16	22	34	82	16	45	5
20	26	42	92	20	45	5

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

SilverLine – End milling cutter



DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	α°	ZEFP
mm	mm	mm	mm	mm	mm	mm		
6	13	5.8	19	21	57	6	45	5
8	21	7.7	25	27	63	8	45	5
10	22	9.7	30	32	72	10	45	5
12	26	11.6	36	38	83	12	45	5
16	36	15.5	42	44	92	16	45	5
20	41	19.5	52	54	104	20	45	5

Code	50 994 ... PG SA		50 995 ... PG SA		50 994 ... PG SA		50 996 ... PG SA	
	£	£	£	£	£	£	£	£
06100	54.30	30.00	06100	54.30	30.00	06200	50.05	30.00
08100	88.84	41.00	08100	88.84	41.00	08200	88.48	41.00
10100	88.48	53.00	10100	88.48	53.00	10200	88.48	61.00
12100	116.87	70.00	12100	116.87	70.00	12200	128.78	74.00
16100	223.77	134.00	16100	223.77	134.00	16200	207.50	172.00
20100	345.42	207.00	20100	345.42	207.00	20200	355.45	236.00



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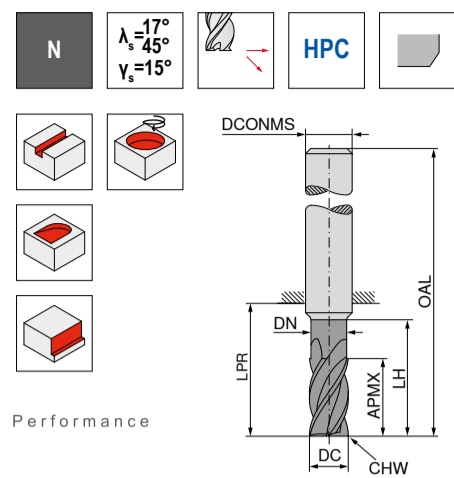
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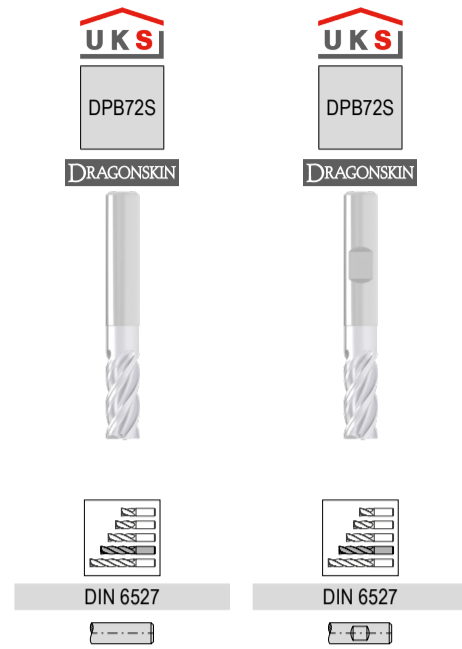
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SilverLine – End milling cutter

▲ Especially for high-volume milling



Performance



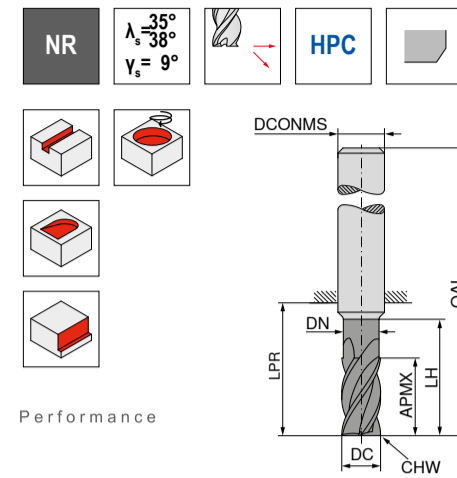
DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 976 ... PG SA		50 977 ... PG SA			
									£	£	£	£		
3	8	2.8	13	21	57	6	0.1	4	03200	50.77	30.00	03200	50.77	30.00
4	11	3.8	17	21	57	6	0.1	4	04200	50.77	30.00	04200	50.77	30.00
5	13	4.8	19	21	57	6	0.1	4	05200	50.77	30.00	05200	50.77	30.00
6	13	5.8	19	21	57	6	0.1	4	06200	50.77	30.00	06200	50.77	30.00
8	21	7.7	25	27	63	8	0.2	4	08200	58.45	41.00	08200	58.45	41.00
10	22	9.7	30	32	72	10	0.2	4	10200	100.19	60.00	10200	100.19	60.00
12	26	11.6	36	38	83	12	0.3	4	12200	127.07	76.00	12200	127.07	76.00
14	26	13.6	36	38	83	14	0.3	4	14200	176.09	106.00	14200	176.09	106.00
16	36	15.5	42	44	92	16	0.3	4	16200	280.79	173.00	16200	280.79	173.00
20	41	19.5	52	54	104	20	0.3	4	20200	399.79	236.00	20200	399.79	236.00

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

SilverLine – Rough milling cutter

The all-rounder for universal application

▲ With roughing profile

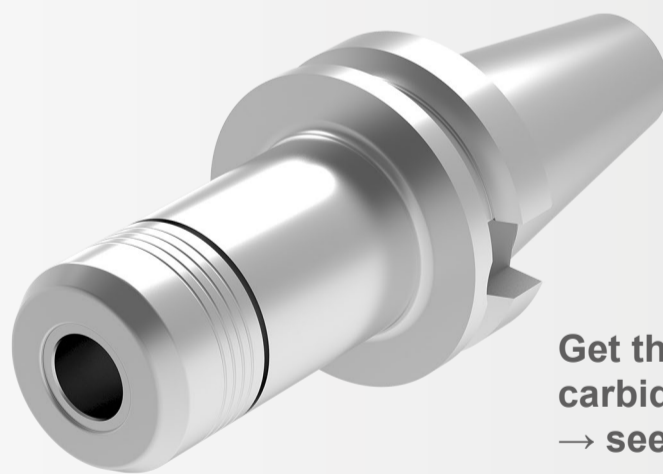


Performance



DC ₀₁₁ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 979 ... PG SA		
									£	£	
3.0	8	2.8	13	21	57	6	0.1	4	03200	80.13	48.00
3.5	11	3.3	17	21	57	6	0.1	4	03700	80.13	48.00
4.0	11	3.8	17	21	57	6	0.1	4	04200	80.13	48.00
4.5	13	4.3	19	21	57	6	0.1	4	04700	80.13	48.00
5.0	13	4.8	19	21	57	6	0.1	4	05200	80.13	48.00
5.5	13	5.3	19	21	57	6	0.1	4	05700	80.13	48.00
6.0	13	5.8	19	21	57	6	0.1	4	06200	80.13	48.00
7.0	21	6.7	25	27	63	8	0.2	4	07200	85.46	51.00
8.0	21	7.7	25	27	63	8	0.2	4	08200	85.46	51.00
10.0	22	9.7	30	32	72	10	0.2	4	10200	106.12	63.00
12.0	26	11.6	36	38	83	12	0.3	4	12200	167.76	100.00
14.0	26	13.6	36	38	83	14	0.3	4	14200	215.52	129.00
16.0	36	15.5	42	44	92	16	0.3	4	16200	266.34	159.00
20.0	41	19.5	52	54	104	20	0.3	4	20200	410.74	246.00

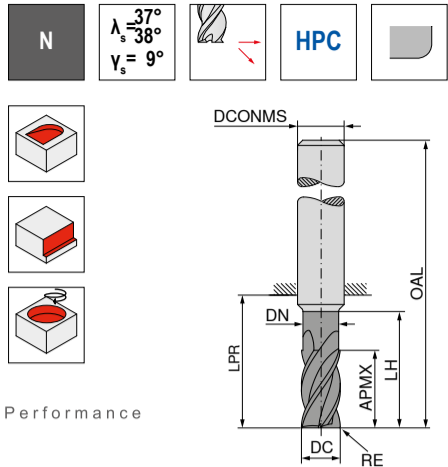
P	●
M	●
K	●
N	○
S	●
H	●
O	●



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→ see page 91



SilverLine – End milling cutter with corner radius

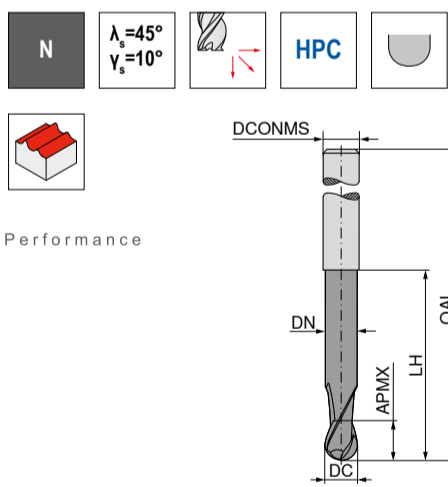


Performance

DC _{es}	RE _{±0.05}	APMX	LPR	OAL	DCONMS _{ns}	ZEFP
mm	mm	mm	mm	mm	mm	mm
6	0.2	13	21	57	6	5
6	0.5	13	21	57	6	5
6	1.0	13	21	57	6	5
8	0.2	21	27	63	8	5
8	0.5	21	27	63	8	5
8	1.0	21	27	63	8	5
8	1.5	21	27	63	8	5
10	0.2	22	32	72	10	5
10	0.5	22	32	72	10	5
10	1.0	22	32	72	10	5
10	1.5	22	32	72	10	5
10	1.6	22	32	72	10	5
10	2.0	22	32	72	10	5
12	0.3	26	38	83	12	5
12	0.5	26	38	83	12	5
12	1.0	26	38	83	12	5
12	1.5	26	38	83	12	5
12	1.6	26	38	83	12	5
12	2.0	26	38	83	12	5
12	2.5	26	38	83	12	5
16	0.3	36	44	92	16	5
16	0.5	36	44	92	16	5
16	1.0	36	44	92	16	5
16	1.5	36	44	92	16	5
16	1.6	36	44	92	16	5
16	2.0	36	44	92	16	5
16	2.5	36	44	92	16	5
16	3.0	36	44	92	16	5
20	0.3	41	54	104	20	5
20	0.5	41	54	104	20	5
20	1.0	41	54	104	20	5
20	1.5	41	54	104	20	5
20	2.0	41	54	104	20	5
20	2.5	41	54	104	20	5
20	3.0	41	54	104	20	5
20	4.0	41	54	104	20	5

SilverLine – Ball Nosed Cutter

The all-rounder for universal application



Performance

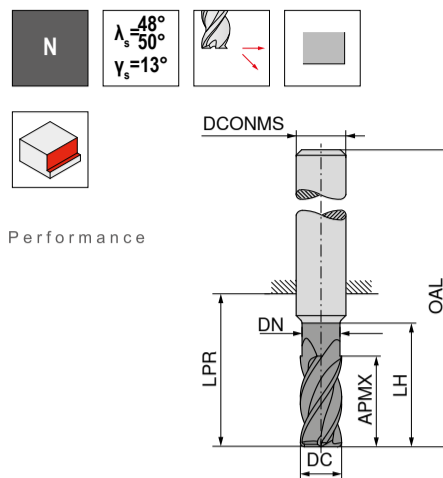
DC _{rs}	APMX	DN	LH	LPR	OAL	DCONMS _{ns}	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm
4	11	3.9	16	21	57	6	3
5	13	4.9	19	21	57	6	3
6	13	5.9	19	21	57	6	3
8	19	7.8	25	27	63	8	3
10	22	9.7	30	32	72	10	3
12	26	11.7	36	38	83	12	3
16	36	15.5	42	44	92	16	3
20	38	19.5	52	54	104	20	3

	50 953 ... PG SA	£	£
P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	●	●	●
O	●	●	●

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



Performance

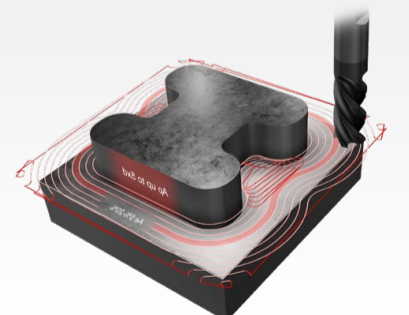
DC _{rs}	APMX	DN	LH	LPR	OAL	DCONMS _{ns}	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm
6	13	5.6	19	21	57	6	6
6	10	5.8	18	22	58	6	6
6	13	5.8	27	31	67	6	6
6	13	5.8	36	40	76	6	6
6	15	5.6	42	44	80	6	6
8	19	7.6	25	27	63	8	6
8	13	7.7	24	28	64	8	6
8	17	7.7	36	40	76	8	6
8	17	7.7	48	53	89	8	6
8	20	7.6	62	64	100	8	6
10	22	9.6	30	32	72	10	6
10	16	9.7	30	34	74	10	6
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
12	19	11.6	36	40	85	12	6
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
16	25	15.5	48	52	100	16	6
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
20	32	19.5	60	64	114	20	6
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
25	52	24.5	113	118	174	25	6
25	52	24.5	150	154	210	25	6

	50 991 ... PG SA	£	£
P	●	●	●
M	●	●	●
K	○	○	○
N	○	○	○
S	●	●	●
H	●	●	●
O	●	●	●

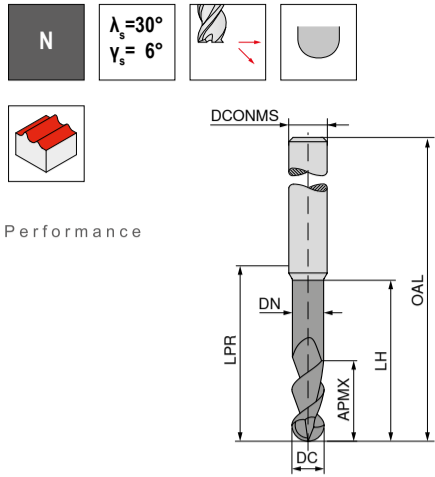
Tool data always at your fingertips

Cutting data and CAD models for day-to-day assistance

In addition to detailed cutting data we also offer 2D and 3D models to assist you with your tool management or for simulating an operation. All data for this Service is available for you in our Online Shop.



SilverLine – Ball Nosed Cutter



Performance

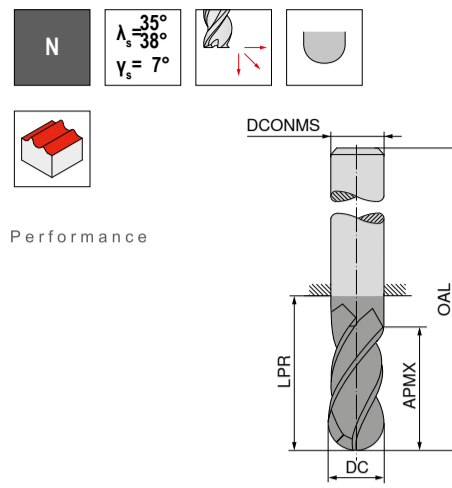


DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEPF	50 963 ...	PG	SA
mm	mm	mm	mm	mm	mm	mm			£	£
3	4	2.8	10	14	50	6	2	03115	60.05	36.00
3	7			24	60	6	2			
4	8	3.8	12	18	54	6	2	04120	60.05	36.00
4	10			39	75	6	2			
5	9	4.8	16	18	54	6	2	05125	60.05	36.00
5	12			39	75	6	2			
6	10	5.7	16	18	54	6	2	06130	60.05	36.00
6	12			64	100	6	2			
7	11	6.6	20	22	58	8	2	07135	73.00	43.00
8	12	7.6	20	22	58	8	2	08140	73.00	43.00
8	14			64	100	8	2			
10	14	9.6	24	26	66	10	2	10150	91.42	54.00
10	18			60	100	10	2			
12	16	11.5	26	28	73	12	2	12160	102.07	79.00
12	22			55	100	12	2			
14	18	13.3	28	30	75	14	2	14170	154.20	92.00
16	22	15.2	32	34	82	16	2	16180	195.65	117.00
16	30			102	150	16	2			
20	26	19.0	40	42	92	20	2	20110	322.33	193.00
20	38			100	150	20	2			
20								20410	566.40	339.00

Material	50 963 ...	PG	SA
P	•	•	•
M	•	•	•
K	•	•	•
N	○	○	○
S	•	•	•
H	○	○	○
O	•	•	•

SilverLine – Ball Nosed Cutter

The all-rounder for universal application



Performance

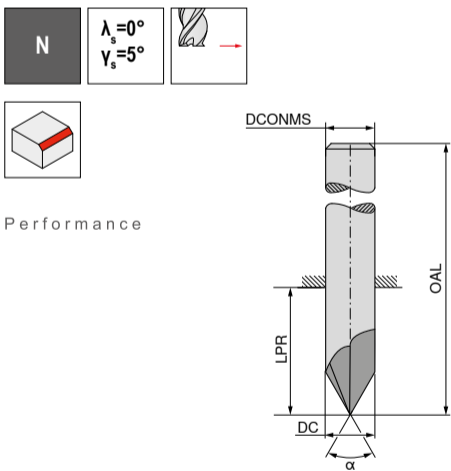


DC _{h6}	APMX	LPR	OAL	DCONMS _{h6}	ZEPF	50 990 ...	PG	SA
mm	mm	mm	mm	mm			£	£
4	11	21	57	6	4	04220	58.40	35.00
5	13	21	57	6	4	05225	58.40	35.00
6	13	21	57	6	4	06230	58.40	41.00
8	19	36	72	8	4	08280	94.77	50.00
10	22	32	72	10	4	10250	106.98	64.00
12	26	38	83	12	4	12260	160.33	101.00
16	32	44	92	16	4	16280	240.92	149.00
20	38	54	104	20	4	20210	362.06	217.00

Material	50 990 ...	PG	SA
P	•	•	•
M	•	•	•
K	•	•	•
N	○	○	○
S	•	•	•
H	•	•	•
O	•	•	•

SilverLine – NC deburring cutter

▲ High performance 5 flute chamfering tool



Performance



DC _{h6}	OAL	LPR	DCONMS _{h6}	ZEPF	50 326 ...	PG	SA	50 327 ...	PG	SA	50 324 ...	PG	SA	50 325 ...	PG	SA
mm	mm	mm	mm			£	£	£	£	£	£	£	£	£	£	
4	50	22	4	5	04000	46.46	27.00	04000	46.46	27.00	04000	46.46	27.00	04000	46.46	27.00
6	55	19	6	5	06000	54.06	30.00	06000	54.06	30.00	06000	54.06	30.00	06000	54.06	30.00
8	58	22	8	5	08000	66.53	39.00	08000	66.53	39.00	08000	66.53	39.00	08000	66.53	39.00
10	60	20	10	5	10000	79.07	47.00	10000	79.07	47.00	10000	79.07	47.00	10000	79.07	47.00
12	70	25	12	5	12000	101.05	60.00	12000	101.05	60.00	12000	101.05	60.00	12000	101.05	60.00

Material	50 326 ...	PG	SA	50 327 ...	PG	SA	50 324 ...	PG	SA	50 325 ...	PG	SA
P	•	•	•	•	•	•	•	•	•	•	•	•
M	•	•	•	•	•	•	•	•	•	•	•	•
K	•	•	•	•	•	•	•	•	•	•	•	•
N	•	•	•	•	•	•	•	•	•	•	•	•
S	•	•	•	•	•	•	•	•	•	•	•	•
H	•	•	•	•	•	•	•	•	•	•	•	•
O	•	•	•	•	•	•	•	•	•	•	•	•



AluLine

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

First Choice for high performance Aluminium Milling

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.

Advantages/benefits

- ▲ **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

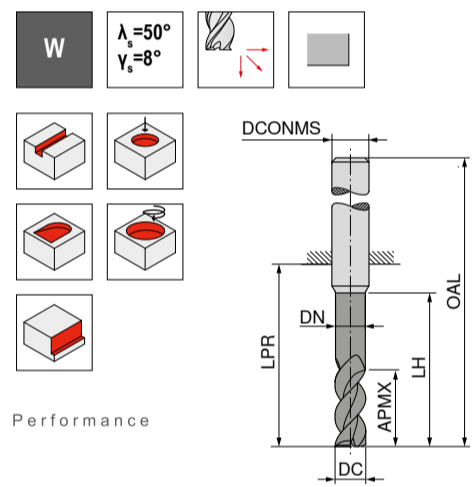
“ Our AluLine milling cutter impresses with its outstanding coating. It achieves first-rate results even in dry machining.

Product Manager CERATIZIT, Michael Wucher

AluLine – End milling cutter

The specialist for machining non-ferrous metals

▲ With polished chip flutes



Performance

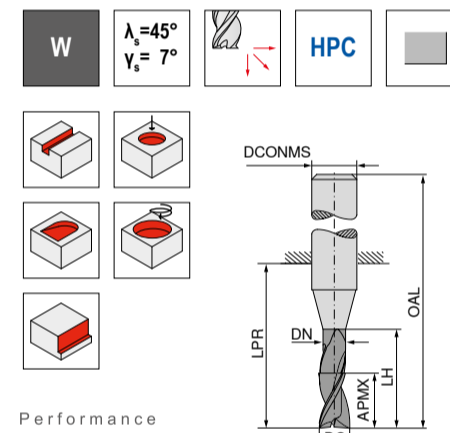
DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP
5.0	10.5	4.8	15	22	58	6	2
5.5	13.0	5.3	18	22	58	6	2
6.0	13.0	5.8	18	22	58	6	2
8.0	17.0	7.7	24	28	64	8	2
10.0	21.0	9.7	30	34	74	10	2
12.0	25.0	11.6	36	40	85	12	2

Material	53 625 ... PG SA	53 625 ... PG SA
P	£	£
M	52.52	32.00
K	62.92	37.00
N	60.54	36.00
S	64.95	38.00
H	92.36	55.00
O	130.72	78.00

Material	53 617 ... PG SA	53 617 ... PG SA
P	£	£
M	49.83	29.00
K	49.37	29.00
N	50.34	30.00
S	52.30	31.00
H	52.81	31.00
O	64.45	38.00
	57.72	34.00
	65.46	39.00
	60.40	36.00
	66.55	39.00
	96.23	57.00
	136.14	81.00
	141.00	110.00
	248.92	148.00
	364.94	218.00

AluLine – End milling cutter

▲ With polished chip flutes



Performance

DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP
2.0	4.5	1.8	6.0	14	50	6	3
2.5	5.5	2.3	7.5	19	55	6	3
3.0	6.5	2.8	9.0	19	55	6	3
3.5	8.5	3.3	12.0	19	55	6	3
4.0	8.5	3.8	12.0	19	55	6	3
4.5	10.5	4.3	15.0	22	58	6	3
5.0	10.5	4.8	15.0	22	58	6	3
5.5	13.0	5.3	18.0	22	58	6	3
6.0	13.0	5.8	18.0	22	58	6	3
8.0	17.0	7.7	24.0	28	64	8	3
10.0	21.0	9.7	30.0	34	74	10	3
12.0	25.0	11.6	36.0	40	85	12	3
14.0	29.0	13.6	42.0	46	91	14	3
16.0	33.0	15.5	48.0	52	100	16	3
20.0	42.0	19.5	60.0	64	114	20	3

Material	53 617 ... PG SA	53 617 ... PG SA
P	£	£
M	49.83	29.00
K	49.37	29.00
N	50.34	30.00
S	52.30	31.00
H	52.81	31.00
O	64.45	38.00
	57.72	34.00
	65.46	39.00
	60.40	36.00
	66.55	39.00
	96.23	57.00
	136.14	81.00
	141.00	110.00
	248.92	148.00
	364.94	218.00



Technical support: 0800 073 2 075
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday
Email: techsupport.uk@ceratizit.com



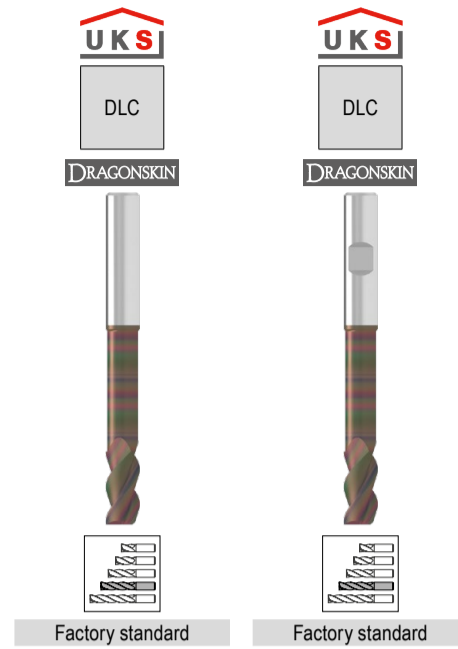
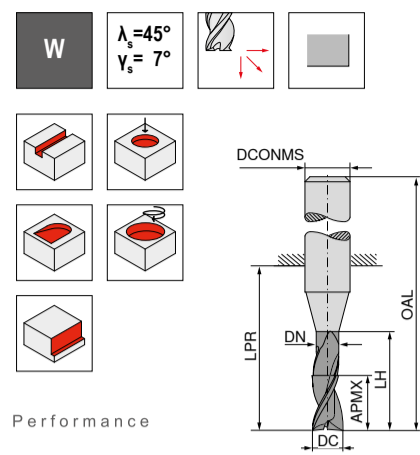
Order by 6:00 pm and get your guaranteed free express delivery



When you see this logo it's in stock in Sheffield

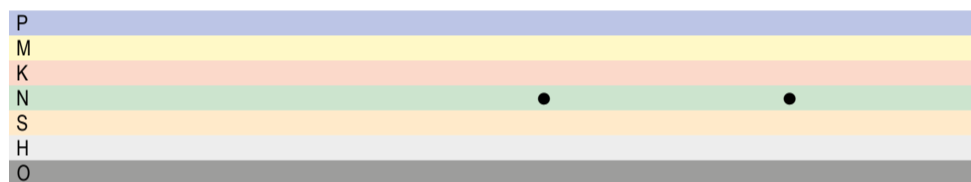
AluLine – End milling cutter

▲ With polished chip flutes



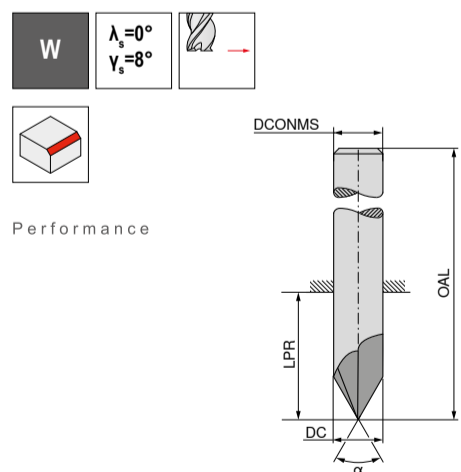
Performance

DC h6	APMX	DN	LH	LPR	OAL	DCONMS h6	ZEPF	53 617 ... PG SA	53 618 ... PG SA
mm	mm	mm	mm	mm	mm	mm		£	£
2.0	5.5	1.8	10.0	19	55	6	3 02200	57.63	34.00
2.5	6.5	2.3	12.5	22	58	6	3 02700	57.04	34.00
3.0	8.0	2.8	15.0	22	58	6	3 03200	58.26	34.00
3.5	10.5	3.3	20.0	26	62	6	3 03700	60.67	36.00
4.0	10.5	3.8	20.0	26	62	6	3 04200	61.26	36.00
4.5	13.0	4.3	25.0	34	70	6	3 04700	74.84	44.00
5.0	13.0	4.8	25.0	34	70	6	3 05200	67.92	40.00
5.5	16.0	5.3	30.0	34	70	6	3 05700	76.42	45.00
6.0	16.0	5.8	30.0	34	70	6	3 06200	70.03	42.00
8.0	21.0	7.7	40.0	44	80	8	3 08200	77.85	46.00
10.0	26.0	9.7	50.0	54	94	10	3 10200	112.32	67.00
12.0	31.0	11.6	60.0	64	109	12	3 12200	159.10	95.00
14.0	36.0	13.6	70.0	74	119	14		142.00	129.00
16.0	41.0	15.5	80.0	84	132	16		290.77	174.00
20.0	52.0	19.5	100.0	104	154	20		458.04	275.00



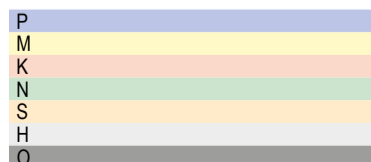
AluLine – NC deburring cutter

▲ Point angle α = 90°



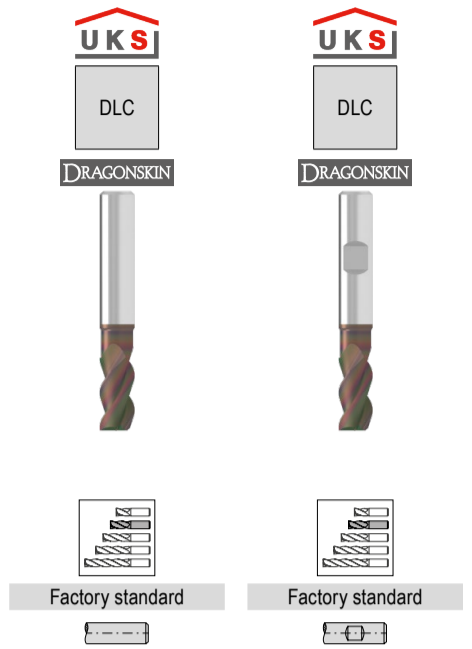
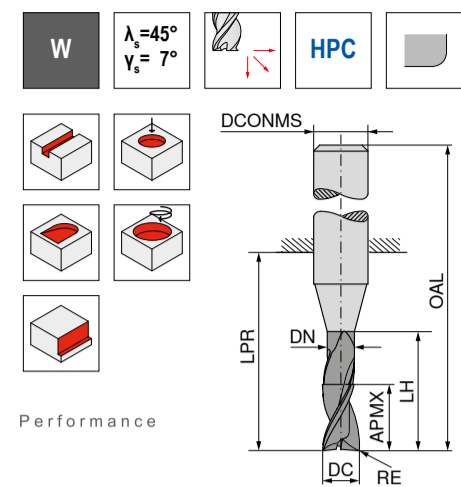
Performance

DC h6	OAL	LPR	DCONMS h6	ZEPF
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



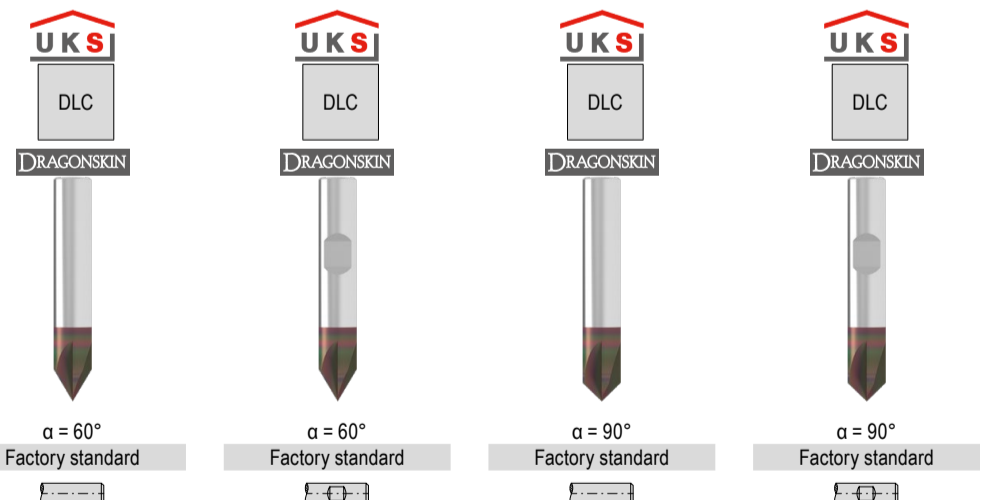
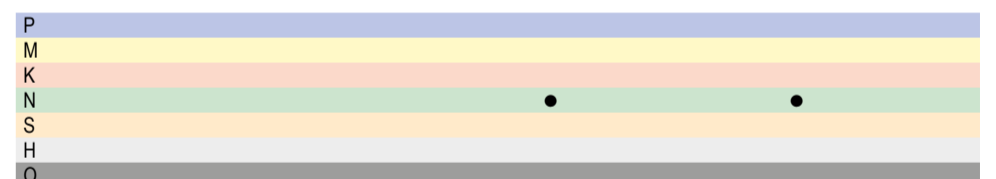
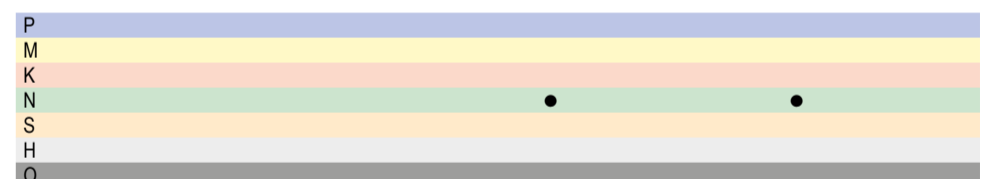
AluLine – End milling cutter with corner radius

▲ With polished chip flutes

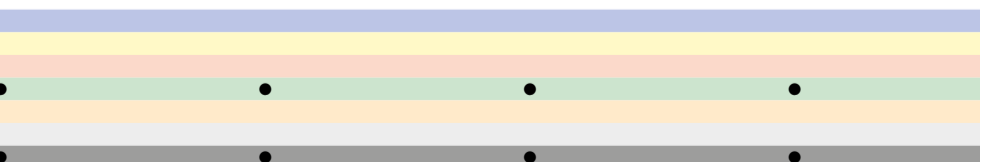
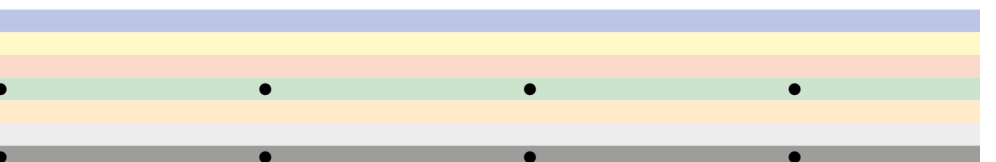


Performance

DC h6	RE ±0.05	APMX	DN	LH	LPR	OAL	DCONMS h6	ZEPF	53 710 ... PG SA	53 711 ... PG SA
mm	mm	mm	mm	mm	mm	mm	mm		£	£
2	0.3	4.5	1.8	6	14	50	6	3 02103	54.84	31.00
2	0.5	4.5	1.8	6	14	50	6	3 02105	54.84	31.00
3	0.3	6.5	2.7	9	19	55	6	3 03103	52.94	31.00
3	0.5	6.5	2.7	9	19	55	6	3 03105	52.94	31.00
3	1.0	6.5	2.7	9	19	55	6	3 03110	52.94	31.00
4	0.3	8.5	3.7	12	19	55	6	3 04103	55.67	33.00
4	0.5	8.5	3.7	12	19	55	6	3 04105	55.67	33.00
4	1.0	8.5	3.7	12	19	55	6	3 04110	55.67	33.00
5	0.3	10.5	4.7	15	22	58	6	3 05103	58.74	36.00
5	0.5	10.5	4.7	15	22	58	6	3 05105	58.74	36.00
5	1.0	10.5	4.7	15	22	58	6	3 05110	58.74	36.00
6	0.3	13.0	5.7	18	22	58	6	3 06103	63.61	38.00
6	0.5	13.0	5.7	18	22	58	6	3 06105	63.61	38.00
6	1.0	13.0	5.7	18	22	58	6	3 06110	63.61	38.00
6	1.5	13.0	5.7	18	22	58	6	3 06115	63.61	38.00
8	0.3	17.0	7.4	24	28	64	8	3 08103	69.95	41.00
8	0.5	17.0	7.4	24	28	64	8	3 08105	69.95	41.00
8	1.0	17.0	7.4	24	28	64	8	3 08110	69.95	41.00
8	1.5	17.0	7.4	24	28	64	8	3 08115	69.95	41.00
8	2.0	17.0	7.4	24	28	64	8	3 08120	69.95	41.00
10	0.3	21.0	9.2	30	34	74	10	3 10103	104.39	60.00
10	0.5	21.0	9.2	30	34	74	10	3 10105	104.39	60.00
10	1.0	21.0	9.2	30	34	74	10	3 10110	104.39	60.00
10	1.5	21.0	9.2	30	34	74	10	3 10115	104.39	60.00
10	2.0	21.0	9.2	30	34	74	10	3 10120	104.39	60.00
10	3.0	21.0	9.2	30	34	74	10	3 10130	104.39	60.00
12	0.3	25.0	11.0	36	40	85	12	3 12103	143.62	86.00
12	0.5	25.0	11.0	36	40	85	12	3 12105	143.62	86.00
12	1.0	25.0	11.0	36	40	85	12	3 12110	143.62	86.00
12	1.5	25.0	11.0	36	40	85	12	3 12115	143.62	86.00
12	2.0	25.0	11.0	36	40	85	12	3 12120	143.62	86.00
12	3.0	25.0	11.0	36	40	85	12	3 12130	143.62	86.00
12	4.0	25.0	11.0	36	40	85	12	3 12140	143.62	86.00
16	0.3	33.0	15.0	48	52	100	16		16103	230.34
16	0.5	33.0	15.0	48	52	100	16		16105	230.34
16	1.0	33.0	15.0	48	52	100	16		16110	230.34
16	1.5	33.0	15.0	48	52	100	16		16115	230.34
16	2.0	33.0	15.0	48	52	100	16		16120	230.34
16	3.0	33.0	15.0	48	52	100	16		16130	230.34
16	4.0	33.0	15.0	48	52	100	16		16140	230.34
20	0.5	42.0	19.0	60	64	114	20		20105	355.44
20	1.0	42.0	19.0	60	64	114	20		20110	355.44
20	1.5	42.0	19.0	60	64	114	20		20115	355.44
20	2.0	42.0	19.0	60	64	114	20		20120	355.44
20	3.0	42.0	19.0	60	64	114	20		20130	355.44
20	4.0	42.0	19.0	60	64	114	20		20140	355.44

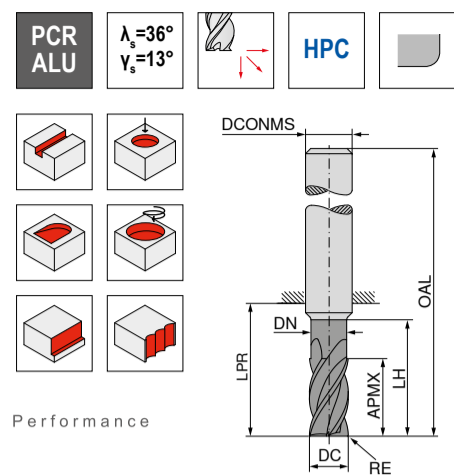


DC h6	OAL	LPR	DCONMS h6	ZEPF	53 662 ... PG SA	53 663 ... PG SA	53 660 ... PG SA	53 661 ... PG SA
mm	mm	mm	mm		£	£	£	£
4	50	22	4	4	58.84	35.00	58.84	35.00
6	55	19	6	4	64.66	38.00	64.66	38.00
8	58	22	8	4	75.20	45.00	75.20	45.00
10	60	20	10	4	104.45	62.00	104.45	62.00
12	70	25	12	4	117.48	70.00	117.48	70.00
16	80	32	16	4	191.52	114.00	191.52	114.00

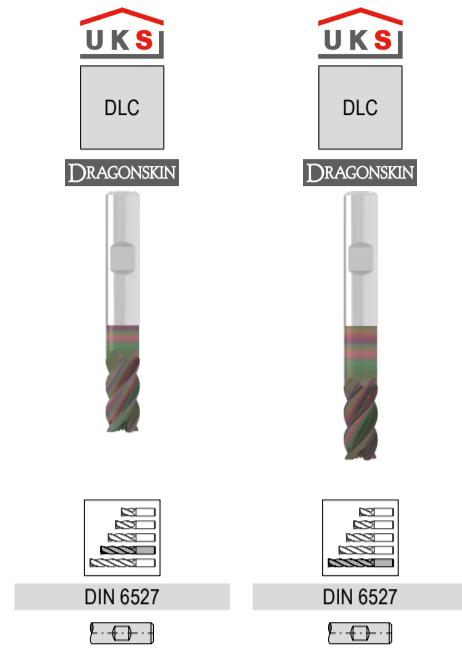


MonsterMill – Plunge milling cutter with corner radius

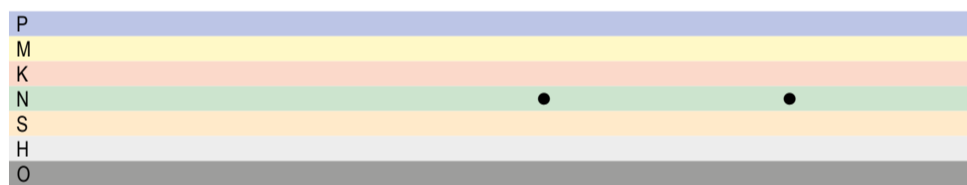
The specialist for ramping, plunging and helical milling



Performance



DC ₁₈ mm	RE _{±0.03} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP	52 616 ... PG SA		52 617 ... PG SA	
									£	£	£	£
5.0	0.20	13	4.8	19	21	57	6	4	050	85.42	41.00	
5.0	0.20	13	4.8	24	26	62	6	4				050 84.17 45.00
5.7	0.20	13	5.5	19	21	57	6	4	057	85.42	41.00	
5.7	0.20	13	5.5	24	26	62	6	4				057 84.17 45.00
6.0	0.20	13	5.8	19	21	57	6	4	060	87.08	42.00	
6.0	0.20	13	5.8	24	26	62	6	4				060 87.04 46.00
7.7	0.20	19	7.5	25	27	63	8	4	077	104.34	49.00	
7.7	0.20	21	7.4	30	32	68	8	4				077 126.59 61.00
8.0	0.20	19	7.8	25	27	63	8	4	080	107.93	51.00	
8.0	0.20	21	7.7	30	32	68	8	4				080 132.10 63.00
9.0	0.32	19	8.8	30	32	72	10	4	090	144.64	68.00	
9.0	0.32	22	8.7	38	40	80	10	4				090 155.83 75.00
10.0	0.32	22	9.8	30	32	72	10	4	100	157.34	66.00	
10.0	0.32	22	9.7	38	40	80	10	4				100 149.84 72.00
10.0	0.32	22	9.7	38	40	80	10	4				
11.7	0.32	26	11.5	36	38	83	12	4	117	183.70	88.00	
12.0	0.32	26	11.8	36	38	83	12	4	120	175.04	84.00	
12.0	0.32	26	11.6	46	48	93	12	4				120 205.20 99.00
13.7	0.32	26	13.5	36	38	83	14	4	137	210.70	105.00	
14.0	0.32	26	13.8	36	38	83	14	4	140	226.64	109.00	
14.0	0.32	26	13.6	52	54	99	14	4				140 254.47 123.00
16.0	0.32	32	15.8	42	44	92	16	4	160	303.49	146.00	
16.0	0.32	36	15.5	58	60	108	16	4				160 354.05 169.00
20.0	0.50	38	19.8	52	54	104	20	4	200	474.30	229.00	
20.0	0.50	41	19.5	74	76	126	20	4				200 573.70 277.00



Our recycling service

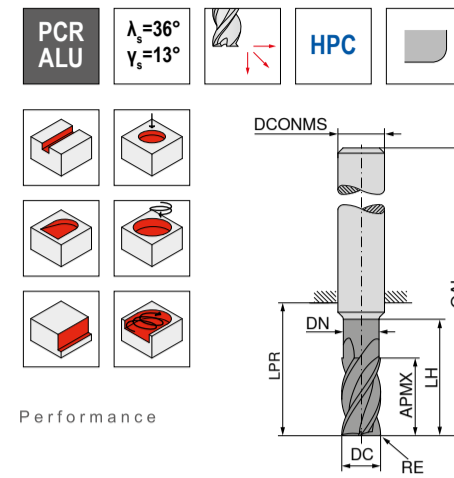
For all our vending customers only, we will collect your used carbide, recycle it back into our system and pay you a 10% premium on market rate for it, current rate £35 per kg.



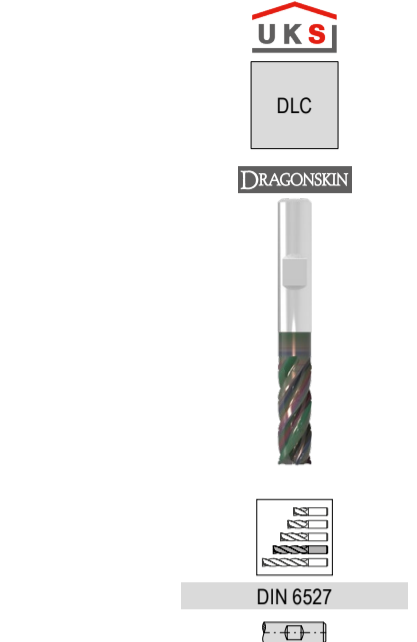
MonsterMill – Plunge milling cutter with corner radius

The specialist for ramping, plunging and helical milling

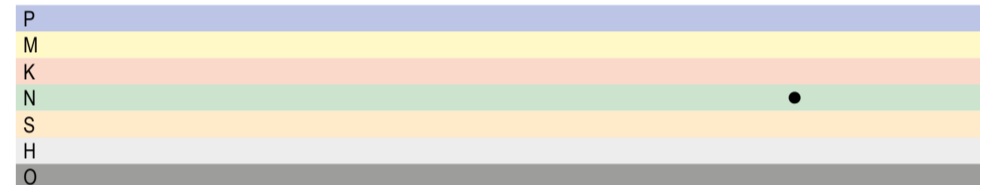
- ▲ suitable for trochoidal milling
- ▲ Chip breaker 0.9 x DC



Performance



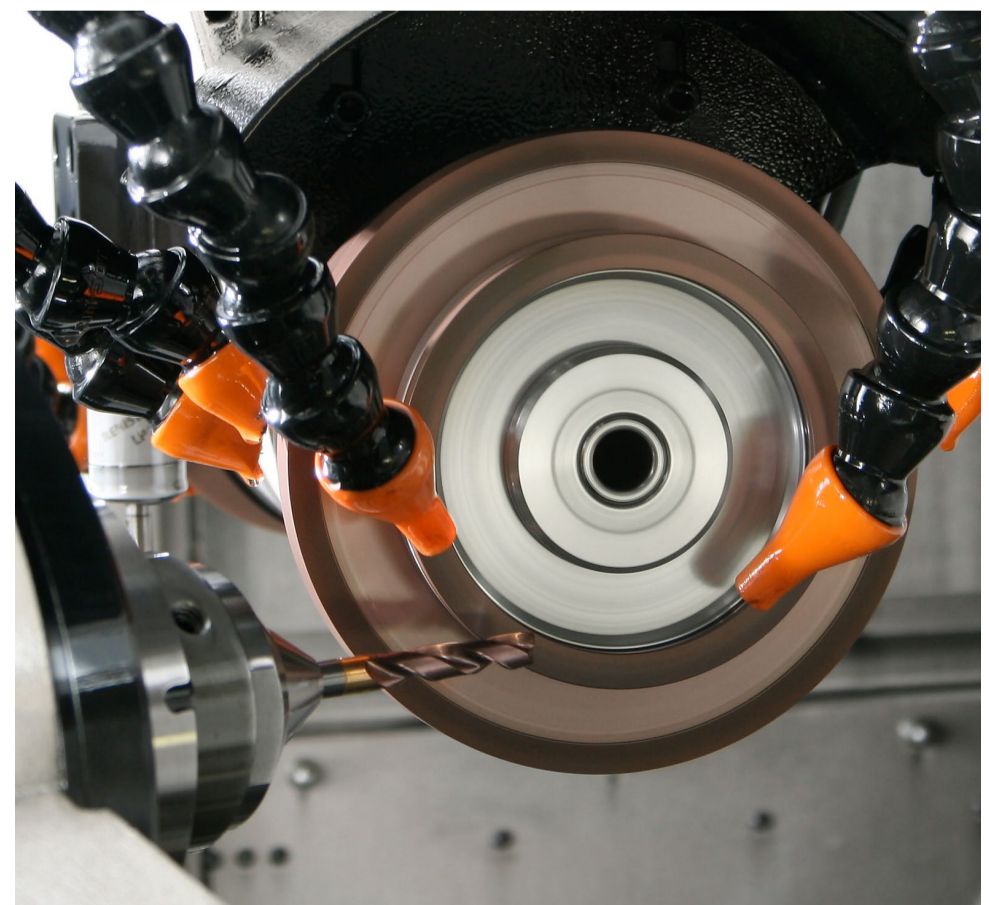
DC ₁₈ mm	RE _{±0.03} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP	52 618 ... PG SA	
									£	£
5	0.20	17	4.8	24	26	62	6	4	05202	100.02 50.00
6	0.20	18	5.8	25	26	62	6	4	06202	100.02 50.00
8	0.20	24	7.7	30	32	68	8	4	08202	104.24 66.00
10	0.32	30	9.7	35	40	80	10	4	10203	152.02 77.00
12	0.32	36	11.6	45	48	93	12	4	12203	206.57 104.00
14	0.32	42	13.6	50	54	99	14	4	14203	262.39 132.00
16	0.32	48	15.5	56	60	108	16	4	16203	347.27 175.00
18	0.32	54	17.5	67	69	117	18	4	18203	434.30 219.00
20	0.50	60	19.5	70	76	126	20	4	20205	564.25 284.00



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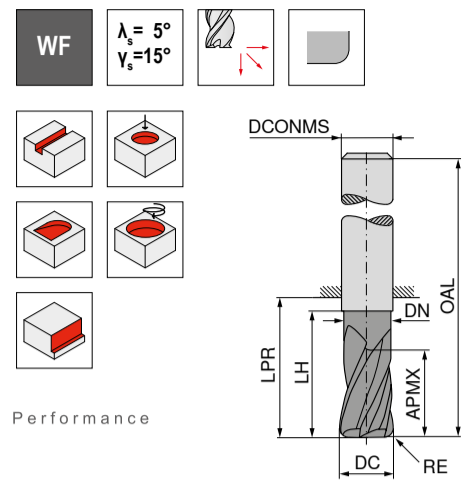
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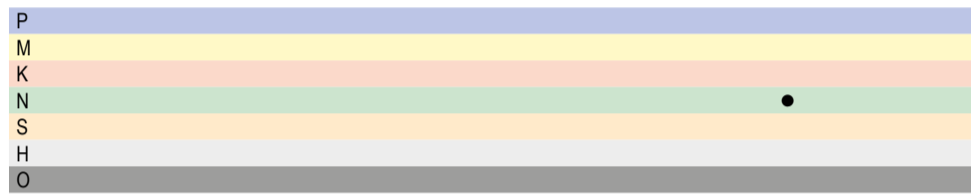
AluLine – Roughing-Finishing Cutter

The specialist for machining non-ferrous metals



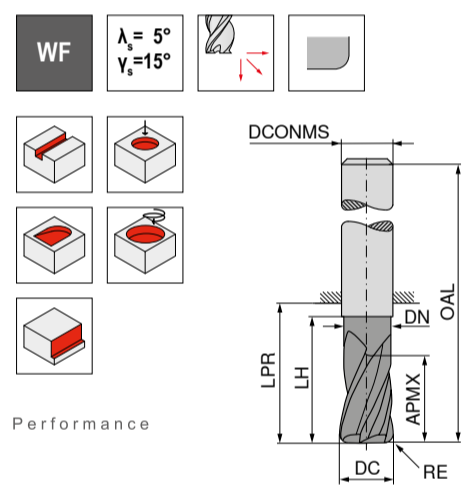
Performance

DC _{es}	RE _{±0.05}	APMX	DN	LH	LPR	OAL	DCONMS _{ns}	ZEPF	53 582 ...	PG	SA
mm	mm	mm	mm	mm	mm	mm	mm		£	£	
5	0.15	8	4.7	16	18	54	6	3	05101	59.80	35.00
6	0.20	10	5.7	17	18	54	6	3	06102	59.80	35.00
8	0.25	13	7.4	20	22	58	8	3	08103	69.55	41.00
10	0.30	16	9.2	24	26	66	10	3	10103	95.07	57.00
12	0.35	19	11.0	26	28	73	12	3	12104	131.49	78.00



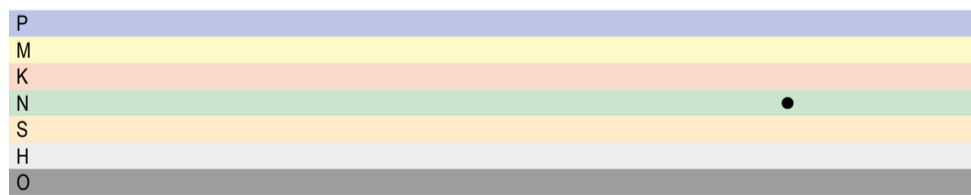
AluLine – Roughing-Finishing Cutter

The specialist for machining non-ferrous metals



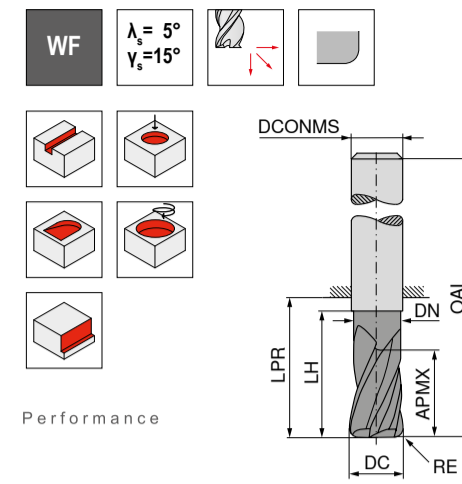
Performance

DC _{es}	RE _{±0.05}	APMX	DN	LH	LPR	OAL	DCONMS _{ns}	ZEPF	53 582 ...	PG	SA
mm	mm	mm	mm	mm	mm	mm	mm		£	£	
5	0.15	13	4.7	18	21	57	6	3	05201	59.80	35.00
6	0.20	13	5.7	18	21	57	6	3	06202	59.80	35.00
8	0.25	21	7.4	25	27	63	8	3	08203	73.54	44.00
10	0.30	22	9.2	30	32	72	10	3	10203	101.14	60.00
12	0.35	26	11.0	36	38	83	12	3	12204	136.48	81.00



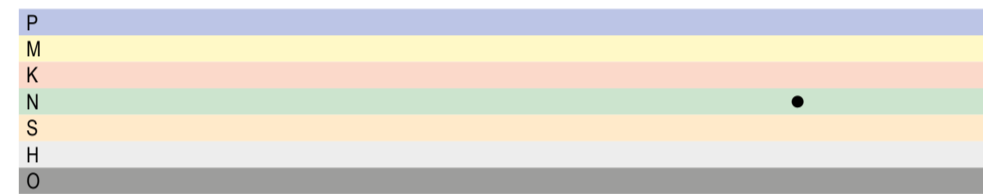
AluLine – Roughing-Finishing Cutter

The specialist for machining non-ferrous metals



Performance

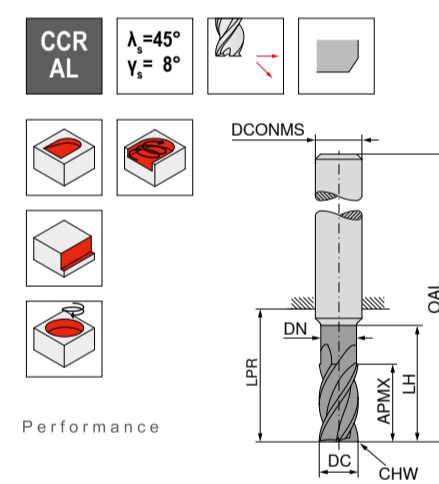
DC _{es}	RE _{±0.05}	APMX	DN	LH	LPR	OAL	DCONMS _{ns}	ZEPF	53 582 ...	PG	SA
mm	mm	mm	mm	mm	mm	mm	mm		£	£	
3	0.10	5	2.7	18	44	80	6	3	03301	68.45	41.00
4	0.10	7	3.7	24	44	80	6	3	04301	78.75	42.00
5	0.15	8	4.7	30	44	80	6	3	05301	74.48	44.00
6	0.20	10	5.7	42	44	80	6	3	06302	81.38	48.00
8	0.25	13	7.4	62	64	100	8	3	08303	99.48	53.00
10	0.30	16	9.2	58	60	100	10	3	10303	125.82	75.00
12	0.35	19	11.0	73	75	120	12	3	12304	161.54	96.00



CircularLine – End milling cutter

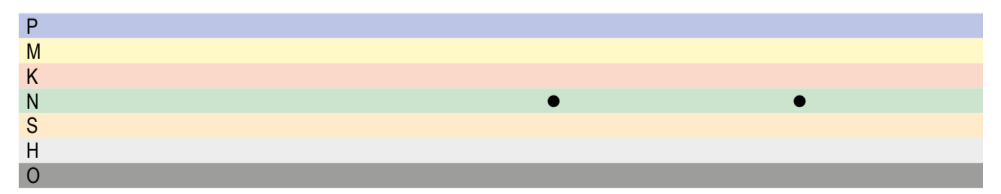
The specialist for trochoidal machining

- ▲ Chip breaker 1.8 x DC
- ▲ 53 590 ... Cutting depth: 3 x DC
- ▲ 53 591 ... Cutting depth: 4 x DC



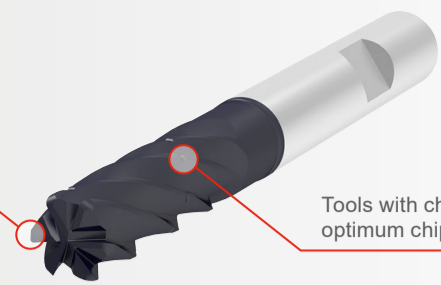
Performance

DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{ns}	ZEPF	53 591 ...	PG	SM	53 590 ...	PG	SM
mm	mm	mm	mm	mm	mm	mm		£	£		£	£	
6	25	5.8	30	35	71	6	4	060	84.38	50.00	060	94.65	48.00
6	19	5.8	24	30	66	6	4	080	108.96	65.00	080	106.24	63.00
8	33	7.7	40	44	80	8	4	100	158.76	90.00	100	148.04	88.00
8	25	7.7	32	37	73	8	4	120	187.48	112.00	120	178.08	106.00
10	41	9.7	50	55	95	10	4	14000	279.24	167.00	14000	272.74	163.00
10	31	9.7	40	49	89	10	4	160	372.98	223.00	160	365.67	219.00
12	49	11.6	60	64	109	12	4	200	525.72	315.00	200	543.46	307.00
12	37	11.6	48	56	101	12	4						
14	57	13.0	70	74	119	14	4						
14	43	13.0	56	60	105	14	4						
16	65	15.5	80	84	132	16	4						
16	49	15.5	64	72	120	16	4						
20	82	19.5	100	104	154	20	4						
20	62	19.5	80	84	134	20	4						



CircularLine

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



DRAGONSKIN

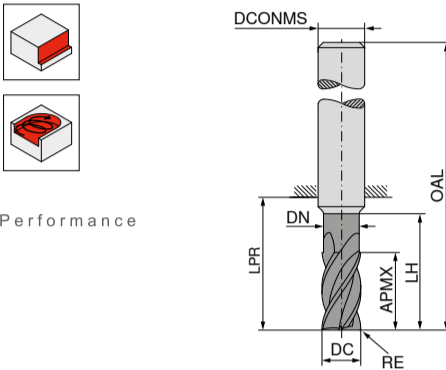
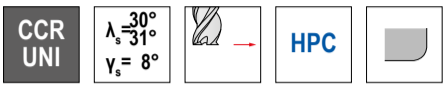
Tools with chip breakers for optimum chip removal



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

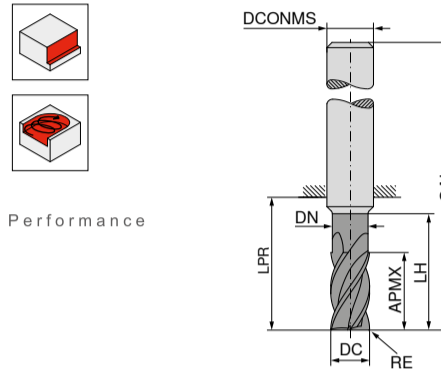
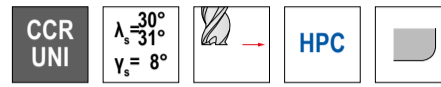
DC _{as}	OAL	RE _{±0.05}	APMX	DN	LH	LPR	DCONMS _{h6}	ZEFP	53 586 ...	PG	SM
mm	mm	mm	mm	mm	mm	mm	mm				
6	57	1.0	13	5.8	19	21	6	6	06010	77.47	35.00
6	57	0.2	13	5.8	19	21	6	6	06002	77.06	35.00
6	57	1.5	13	5.8	19	21	6	6	06015	77.47	35.00
8	63	1.0	21	7.7	25	27	8	6	08010	102.86	47.00
8	63	0.2	21	7.7	25	27	8	6	08002	100.45	46.00
8	63	1.5	21	7.7	25	27	8	6	08015	102.86	47.00
8	63	2.0	21	7.7	25	27	8	6	08020	102.86	47.00
10	72	1.5	22	9.7	30	32	10	6	10015	132.61	61.00
10	72	0.2	22	9.7	30	32	10	6	10002	129.09	59.00
10	72	1.0	22	9.7	30	32	10	6	10010	132.61	61.00
10	72	2.0	22	9.7	30	32	10	6	10020	132.61	61.00
12	83	1.5	26	11.6	36	38	12	6	12015	166.04	77.00
12	83	0.2	26	11.6	36	38	12	6	12002	165.00	77.00
12	83	1.0	26	11.6	36	38	12	6	12010	166.04	77.00
12	83	1.6	26	11.6	36	38	12	6	12016	166.04	77.00
12	83	2.0	26	11.6	36	38	12	6	12020	166.04	77.00
12	83	3.0	26	11.6	36	38	12	6	12030	166.04	77.00
16	92	3.0	36	15.5	42	44	16	6	16030	344.95	160.00
16	92	0.2	36	15.5	42	44	16	6	16002	331.01	153.00
16	92	1.0	36	15.5	42	44	16	6	16010	336.09	165.00
16	92	1.5	36	15.5	42	44	16	6	16015	344.95	160.00
16	92	1.6	36	15.5	42	44	16	6	16016	344.95	160.00
16	92	2.0	36	15.5	42	44	16	6	16020	344.95	160.00
16	92	4.0	36	15.5	42	44	16	6	16040	344.95	160.00
20	104	2.0	41	19.5	52	54	20	6	20020	480.04	223.00
20	104	0.2	41	19.5	52	54	20	6	20002	476.01	220.00
20	104	1.0	41	19.5	52	54	20	6	20010	480.04	223.00
20	104	1.5	41	19.5	52	54	20	6	20015	480.04	223.00
20	104	3.0	41	19.5	52	54	20	6	20030	480.04	223.00
20	104	4.0	41	19.5	52	54	20	6	20040	480.04	223.00

P	●
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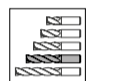
CircularLine – End milling cutter with corner radius

The specialist for trochoidal machining

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



Performance



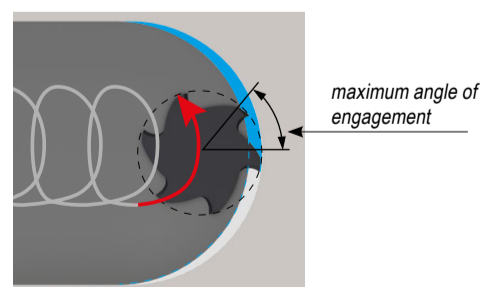
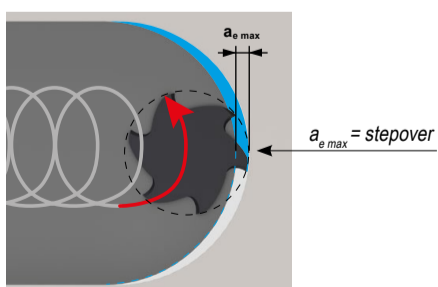
Factory standard

DC _{as}	RE _{±0.05}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	53 642 ...	PG	SM
mm	mm	mm	mm	mm	mm	mm	mm				
6	0.2	19	5.8	25	27	63	6	6	06202	77.68	35.00
6	1.0	19	5.8	25	27	63	6	6	06210	80.05	35.00
6	1.5	19	5.8	25	27	63	6	6	06215	80.05	35.00
8	0.2	25	7.7	33	35	71	8	6	08202	101.74	45.00
8	1.0	25	7.7	33	35	71	8	6	08210	103.09	46.00
8	1.5	25	7.7	33	35	71	8	6	08215	103.09	46.00
8	2.0	25	7.7	33	35	71	8	6	08220	103.09	46.00
10	0.2	31	9.7	41	43	83	10	6	10202	141.64	64.00
10	1.0	31	9.7	41	43	83	10	6	10210	144.74	65.00
10	1.5	31	9.7	41	43	83	10	6	10215	144.74	65.00
10	2.0	31	9.7	41	43	83	10	6	10220	144.74	65.00
12	0.2	37	11.6	47	49	94	12	6	12202	167.27	75.00
12	1.0	37	11.6	47	49	94	12	6	12210	171.48	77.00
12	1.5	37	11.6	47	49	94	12	6	12215	171.48	77.00
12	1.6	37	11.6	47	49	94	12	6	12216	171.48	77.00
12	2.0	37	11.6	47	49	94	12	6	12220	171.48	77.00
12	3.0	37	11.6	47	49	94	12	6	12230	171.48	77.00
16	0.2	49	15.5	61	63	111	16	6	16202	345.63	155.00
16	1.0	49	15.5	61	63	111	16	6	16210	349.16	157.00
16	1.5	49	15.5	61	63	111	16	6	16215	349.16	157.00
16	1.6	49	15.5	61	63	111	16	6	16216	349.16	157.00
16	2.0	49	15.5	61	63	111	16	6	16220	349.16	157.00
16	3.0	49	15.5	61	63	111	16	6	16230	349.16	157.00
16	4.0	49	15.5	61	63	111	16	6	16240	349.16	157.00
20	0.2	61	19.5	75	77	127	20	6	20202	483.02	218.00
20	1.0	61	19.5	75	77	127	20	6	20210	489.34	220.00
20	1.5	61	19.5	75	77	127	20	6	20215	489.34	220.00
20	1.6	61	19.5	75	77	127	20	6	20216	489.34	220.00
20	2.0	61	19.5	75	77	127	20	6	20220	489.34	220.00
20	3.0	61	19.5	75	77	127	20	6	20230	489.34	220.00
20	4.0	61	19.5	75	77	127	20	6	20240	489.34	220.00

P	●
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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



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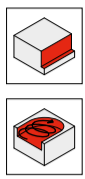
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CircularLine – End milling cutter

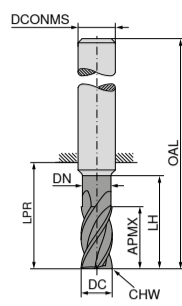
The specialist for trochoidal machining

- ▲ Chip breaker 0,9 x DC
- ▲ Cutting depth: 4 x DC

CCR UNI $\lambda_s = 35^\circ$
 $\lambda_n = 36^\circ$
 $\gamma_s = 8^\circ$ **HPC**



Performance



Factory standard

DC _{es}	OAL	APMX	DN	LH	LPR	DCONMS _{n6}	CHW	ZEPF		53 589 ...	PG SM
mm	mm	mm	mm	mm	mm	mm	mm			£	£
6	67	25	5.8	29	31	6	0.2	5		80.39	36.00
8	76	33	7.7	38	40	8	0.2	5		103.09	46.00
10	89	41	9.7	47	49	10	0.2	5		144.39	64.00
12	102	49	11.6	55	57	12	0.2	5		175.07	79.00
16	123	65	15.5	73	75	16	0.2	5		352.06	158.00
20	143	82	19.5	91	93	20	0.2	5		496.74	223.00

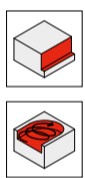
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CircularLine – End milling cutter with corner radius

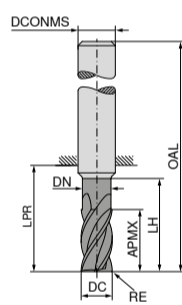
The specialist for trochoidal machining

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

CCR UNI $\lambda_s = 35^\circ$
 $\lambda_n = 36^\circ$
 $\gamma_s = 9^\circ$ **HPC**



Performance



Factory standard

DC _{es}	OAL	RE _{±0.05}	APMX	DN	LH	LPR	DCONMS _{n6}	ZEPF		53 593 ...	PG SM
mm	mm	mm	mm	mm	mm	mm	mm			£	£
6	67	1.5	25	5.8	29	31	6	5		82.74	37.00
6	67	1.0	25	5.8	29	31	6	5		82.74	37.00
6	67	0.2	25	5.8	29	31	6	5		80.39	36.00
8	76	1.5	33	7.7	38	40	8	5		106.55	47.00
8	76	1.0	33	7.7	38	40	8	5		106.55	47.00
8	76	2.0	33	7.7	38	40	8	5		106.55	47.00
8	76	0.2	33	7.7	38	40	8	5		103.09	46.00
10	89	1.0	41	9.7	47	49	10	5		147.66	66.00
10	89	1.5	41	9.7	47	49	10	5		147.66	66.00
10	89	2.0	41	9.7	47	49	10	5		147.66	66.00
10	89	0.2	41	9.7	47	49	10	5		144.39	64.00
12	102	1.0	49	11.6	55	57	12	5		188.34	81.00
12	102	1.5	49	11.6	55	57	12	5		188.34	81.00
12	102	1.6	49	11.6	55	57	12	5		188.34	81.00
12	102	2.0	49	11.6	55	57	12	5		188.34	81.00
12	102	3.0	49	11.6	55	57	12	5		188.34	81.00
12	102	0.2	49	11.6	55	57	12	5		175.07	79.00
16	123	1.6	65	15.5	73	75	16	5		358.36	161.00
16	123	1.0	65	15.5	73	75	16	5		358.36	161.00
16	123	1.5	65	15.5	73	75	16	5		358.36	161.00
16	123	2.0	65	15.5	73	75	16	5		358.36	161.00
16	123	3.0	65	15.5	73	75	16	5		358.36	161.00
16	123	4.0	65	15.5	73	75	16	5		358.36	161.00
16	123	0.2	65	15.5	73	75	16	5		352.06	158.00
20	143	3.0	82	19.5	91	93	20	5		583.07	227.00
20	143	1.0	82	19.5	91	93	20	5		583.07	227.00
20	143	1.5	82	19.5	91	93	20	5		583.07	227.00
20	143	2.0	82	19.5	91	93	20	5		583.07	227.00
20	143	4.0	82	19.5	91	93	20	5		583.07	227.00
20	143	0.2	82	19.5	91	93	20	5		496.74	223.00

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CircularLine – End milling cutter with corner radius

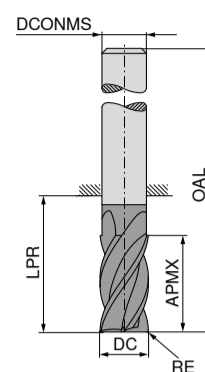
The specialist for trochoidal machining

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

CCR UNI $\lambda_s = 35^\circ$
 $\lambda_n = 36^\circ$
 $\gamma_s = 9^\circ$ **HPC**



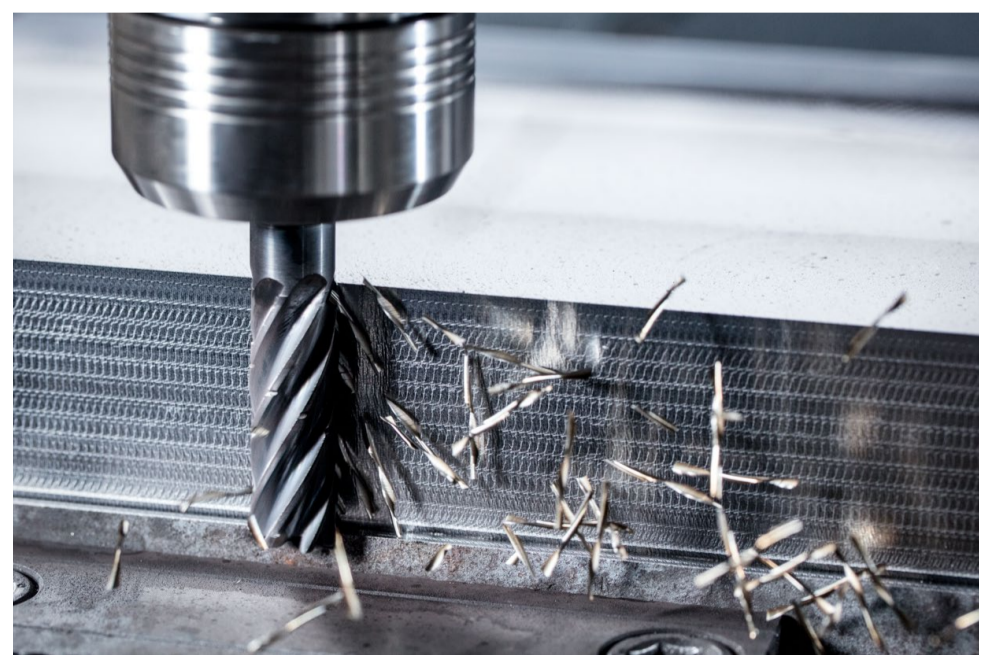
Performance



Factory standard

DC _{es}	RE _{±0.05}	APMX	LPR	OAL	DCONMS _{n6}	ZEPF		53 593 ...	PG SM
mm	mm	mm	mm	mm	mm			£	£
6	0.2	31	39	75	6	5		06402	53.00
6	1.0	31	39	75	6	5		06410	53.00
6	1.5	31	39	75	6	5		06415	53.00
8	0.2	41	49	85	8	5		08402	61.00
8	1.0	41	49	85	8	5		08410	61.00
8	1.5	41	49	85	8	5		08415	61.00
8	2.0	41	49	85	8	5		08420	61.00
10	0.2	51	60	100	10	5		10402	84.00
10	1.0	51	60	100	10	5		10410	84.00
10	1.5	51	60	100	10	5		10415	84.00
10	1.6	51	60	100	10	5		10416	84.00
10	2.0	51	60	100	10	5		10420	84.00
12	0.2	61	70	115	12	5		12402	104.00
12	1.0	61	70	115	12	5		12410	104.00
12	1.5	61	70	115	12	5		12415	104.00
12	1.6	61	70	115	12	5		12416	104.00
12	2.0	61	70	115	12	5		12420	104.00
12	3.0	61	70	115	12	5		12430	104.00
14	0.2	71	81	126	14	5		14402	104.00
14	1.0	71	81	126	14	5		14410	215.00
14	1.5	71	81	126	14	5		14415	215.00
14	2.0	71	81	126	14	5		14420	215.00
14	3.0	71	81	126	14	5		14430	215.00
16	0.2	81	92	140	16	5		16402	212.00
16	1.0	81	92	140	16	5		16410	212.00
16	1.5	81	92	140	16	5		16415	212.00
16	2.0	81	92	140	16	5		16420	212.00
16	3.0	81	92	140	16	5		16430	212.00
16	4.0	81	92	140	16	5		16440	212.00
18	0.2	91	102	150	18	5		18402	243.00
20	0.2	102	113	163	20	5		20402	293.00
20	1.0	102	113	163	20	5		20410	293.00
20	1.5	102	113	163	20	5		20415	293.00
20	2.0	102	113	163	20	5		20420	293.00
20	3.0	102	113	163	20	5		20430	293.00
20	4.0	102	113	163	20	5		20440	293.00

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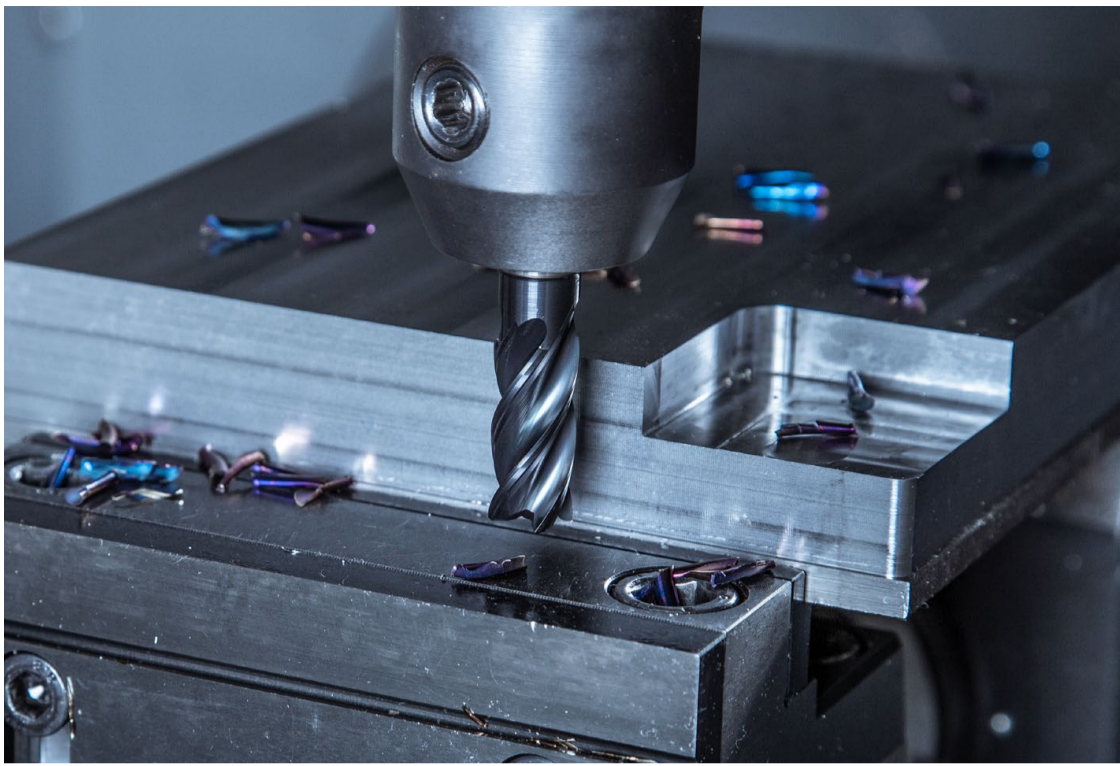


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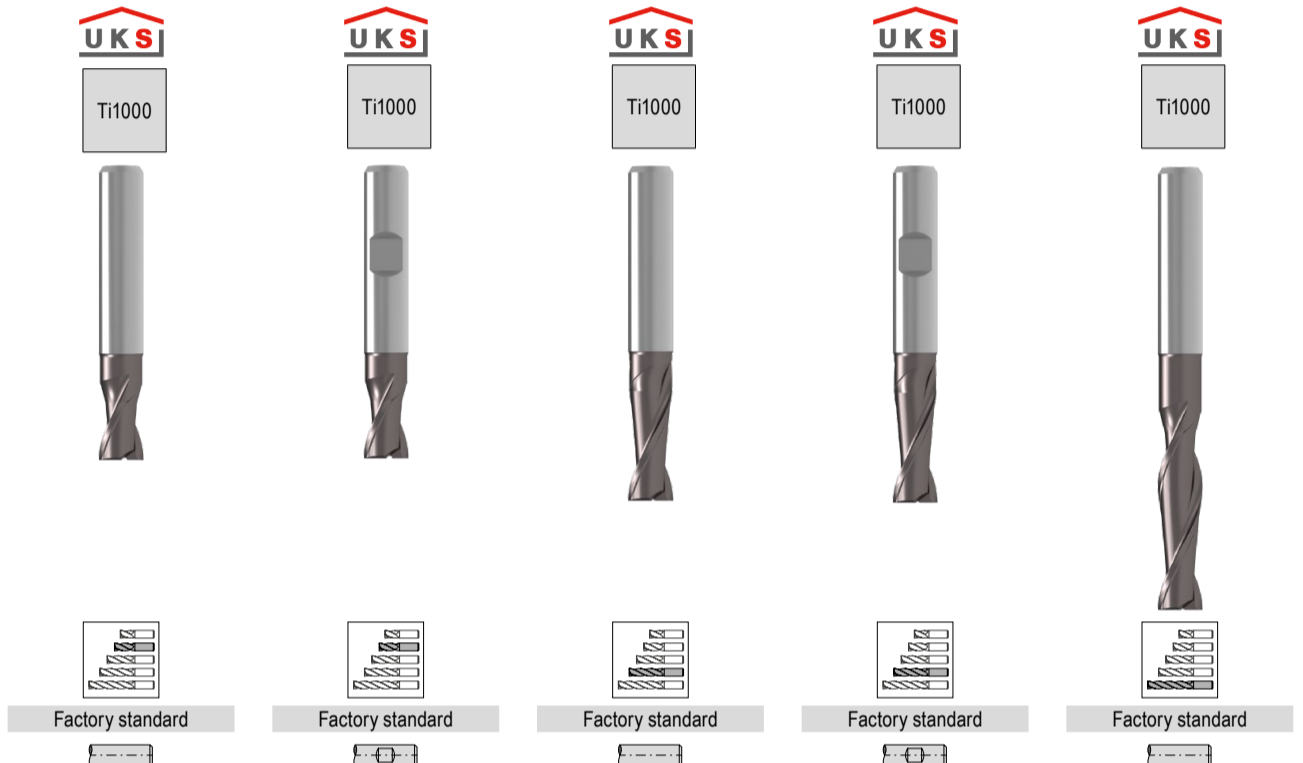
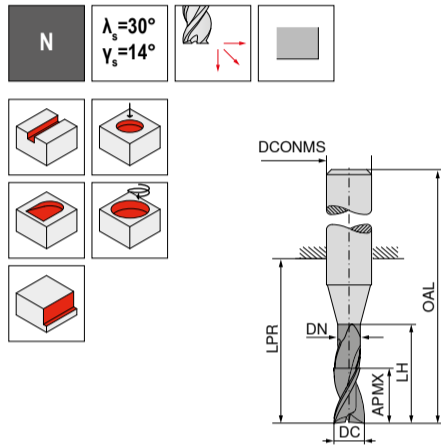


Ti 1000 CoreLine

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



End milling cutter



DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	54 069 ...	PG	CX	54 079 ...	PG	CX	54 080 ...	PG	CX	54 081 ...	PG	CX	54 082 ...	PG	CX
mm	mm	mm	mm	mm	mm	mm			£	£	£	£	£	£	£	£	£	£	£	£	£	£
0.5	1.5			10	38	3	2	95000	11.83	9.00												
0.6	1.5			10	38	3	2	96000	11.83	9.00												
0.7	2.0			10	38	3	2	97000	11.83	9.00												
0.8	2.0			10	38	3	2	98000	11.83	9.00												
0.9	2.5			10	38	3	2	99000	11.83	9.00												
1.0	3.0			10	38	3	2	31000	11.83	9.00												
1.0	4.0	0.9	6	22	58	6	2							01000	11.83	9.00						
1.1	3.0			10	38	3	2	31100	11.83	9.00												
1.2	4.0			10	38	3	2	31200	11.83	9.00												
1.3	4.0			10	38	3	2	31300	11.83	9.00												
1.4	4.0			10	38	3	2	31400	11.83	9.00												
1.5	4.0			10	38	3	2	31500	11.83	9.00												
1.5	3.0	1.4	6	18	54	6	2	01500	11.83	9.00												
1.5	6.0	1.4	8	22	58	6	2							01500	11.83	9.00						
1.6	4.0			10	38	3	2	31600	11.83	9.00												
1.8	5.0			10	38	3	2	31800	11.83	9.00												
2.0	5.0			10	38	3	2	32000	11.83	9.00												
2.0	4.0	1.9	8	18	54	6	2	02000	11.83	9.00												
2.0	7.0	1.9	10	22	58	6	2							02000	11.83	9.00						
2.5	6.0			10	38	3	2	32500	11.83	9.00												
2.5	4.0	2.4	8	18	54	6	2	02500	11.83	9.00												
3.0	6.0			10	38	3	2	33000	11.83	9.00												
3.0	6.0	2.9	9	18	54	6	2	03000	11.83	9.00												
3.0	10.0	2.9	14	22	58	6	2							03000	11.83	9.00						
3.0	20.0	2.9	24	32	60	3	2															
3.5	6.0	3.3	9	18	54	6	2	03500	11.83	9.00												
4.0	7.0	3.8	12	18	54	6	2	04000	11.83	9.00												
4.0	13.0	3.8	18	22	58	6	2							04000	11.83	9.00						
4.0	30.0	3.8	35	47	75	4	2															
4.5	7.0	4.3	12	18	54	6	2	04500	11.83	9.00												
5.0	8.0	4.8	16	18	54	6	2	05000	11.83	9.00												
5.0	15.0	4.8	18	22	58	6	2							05000	11.83	9.00						
5.0	30.0	4.8	35	47	75	5	2															
6.0	10.0	5.8	16	18	54	6	2	06000	11.83	9.00												
6.0	16.0	5.8	20	22	58	6	2							06000	11.83	9.00						
6.0	40.0	5.8	60	64	100	6	2															
8.0	12.0	7.7	20	23	59	8	2	08000	15.93	13.00												
8.0	22.0	7.7	25	34	70	8	2							08000	15.93	13.00						
8.0	40.0	7.7	60	64	100	8	2															
10.0	13.0	9.7	24	27	67	10	2	10000	20.49	17.00												
10.0	25.0	9.7	30	33	73	10	2							10000	20.49	17.00						
10.0	40.0	9.7	55	60	100	10	2															
12.0	16.0	11.6	26	28	73	12	2	12000	27.30	23.00												
12.0	26.0	11.6	35	39	84	12	2							12000	27.30	23.00						
12.0	45.0	11.6	50	55	100	12	2															

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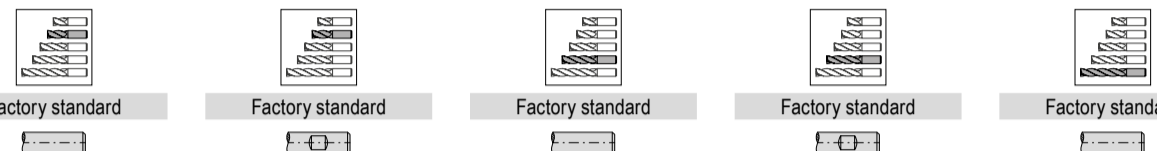
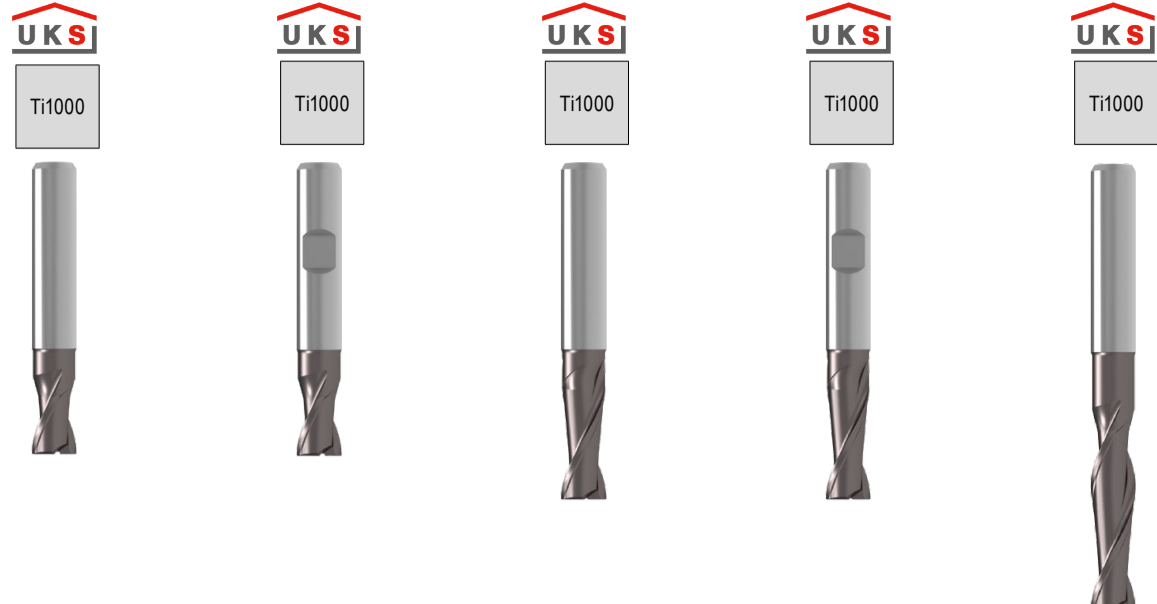
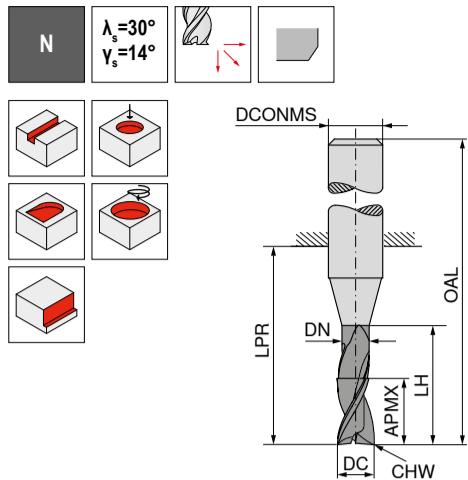


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End milling cutter



DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEPF	54 083 ...	PG	CX	54 084 ...	PG	CX	54 085 ...	PG	CX	54 086 ...	PG	CX	54 087 ...	PG	CX
mm	mm	mm	mm	mm	mm	mm	mm			£	£		£	£		£	£		£	£		£	£
0.5	1.5			10	38	3	0.04	2	95000	11.83	9.00												
0.6	1.5			10	38	3	0.04	2	96000	11.83	9.00												
0.7	2.0			10	38	3	0.04	2	97000	11.83	9.00												
0.8	2.0			10	38	3	0.04	2	98000	11.83	9.00												
0.9	2.5			10	38	3	0.04	2	99000	11.83	9.00												
1.0	3.0			10	38	3	0.04	2	31000	11.83	9.00												
1.0	4.0	0.9	6	22	58	6	0.04	2				01000	11.83	9.00									
1.1	3.0			10	38	3	0.04	2	31100	11.83	9.00												
1.2	4.0			10	38	3	0.04	2	31200	11.83	9.00												
1.3	4.0			10	38	3	0.04	2	31300	11.83	9.00												
1.4	4.0			10	38	3	0.04	2	31400	11.83	9.00												
1.5	4.0			10	38	3	0.04	2	31500	11.83	9.00												
1.5	3.0	1.4	6	18	54	6	0.04	2	01500	11.83	9.00												
1.5	6.0	1.4	8	22	58	6	0.04	2				01500	11.83	9.00									
1.6	4.0			10	38	3	0.04	2	31600	11.83	9.00												
1.8	5.0			10	38	3	0.04	2	31800	11.83	9.00												
2.0	5.0			10	38	3	0.04	2	32000	11.83	9.00												
2.0	6.0			10	38	2	0.04	2				22000	11.83	9.00									
2.0	4.0	1.9	8	18	54	6	0.04	2	02000	11.83	9.00												
2.5	6.0			10	38	3	0.07	2	32500	11.83	9.00												
2.5	4.0	2.4	8	18	54	6	0.07	2	02500	11.83	9.00												
3.0	6.0			10	38	3	0.07	2	33000	11.83	9.00												
3.0	7.0			10	38	3	0.07	2				33000	11.83	9.00									
3.0	6.0	2.9	9	18	54	6	0.07	2	03000	11.83	9.00	03000	11.83	9.00									
3.0	10.0	2.9	14	22	58	6	0.07	2									03000	11.83	9.00				
3.0	20.0	2.9	24	32	60	3	0.07	2													33000	20.94	18.00
3.5	6.0	3.3	9	18	54	6	0.07	2	03500	11.83	9.00												
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	04000	11.83	9.00	04000	11.83	9.00									
4.0	13.0	3.8	18	22	58	6	0.07	2										04000	11.83	9.00			
4.0	30.0	3.8	35	47	75	4	0.07	2													44000	20.94	18.00
4.5	7.0	4.3	12	18	54	6	0.12	2	04500	11.83	9.00												
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	05000	11.83	9.00	05000	11.83	9.00									
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													05000	20.94	18.00
6.0	10.0	5.8	16	18	54	6	0.12	2	06000	11.83	9.00	06000	11.83	9.00									
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													06000	20.94	18.00
8.0	12.0	7.7	20	23	59	8	0.12	2	08000	15.83	13.00	08000	15.83	13.00									
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													08000	20.13	24.00
10.0	13.0	9.7	24	27	67	10	0.20	2	10000	20.49	17.00	10000	20.49	17.00									
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													10000	27.32	31.00
12.0	16.0	11.6	26	28	73	12	0.20	2	12000	27.32	23.00	12000	27.32	23.00									
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													12000	51.88	43.00

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K	●	●	●	●	●
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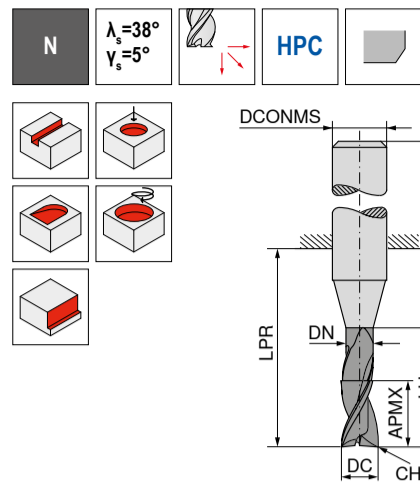


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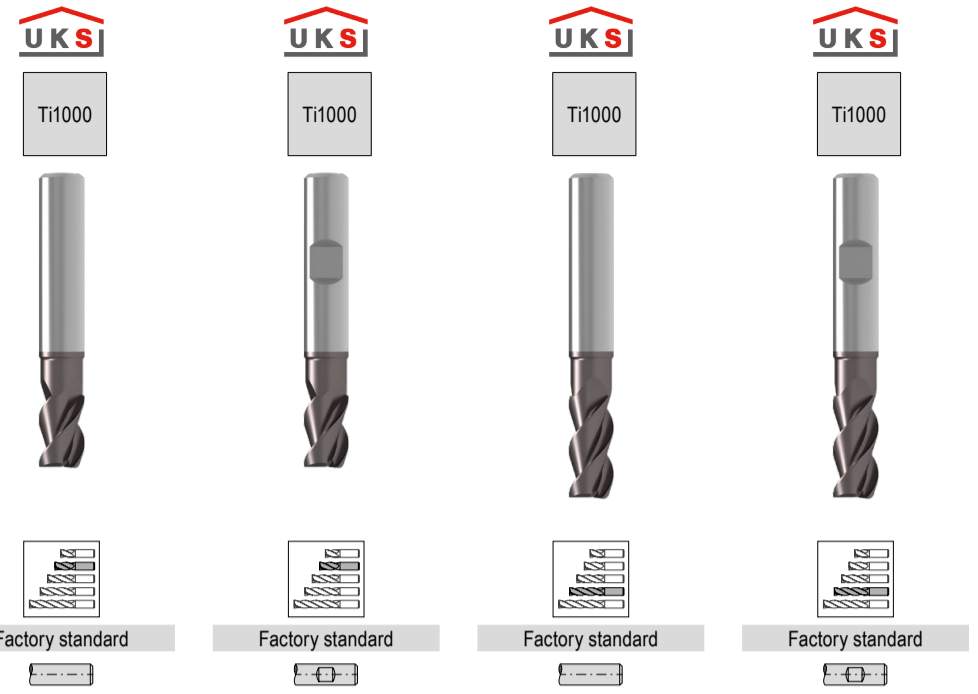
End milling cutter

▲ Cutting edges with irregular pitch



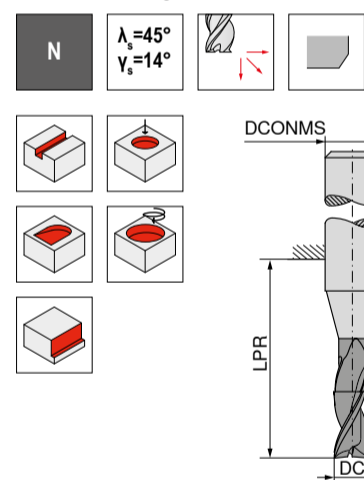
DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP
2.0	4	1.9	8	18	54	6	0.04	3
2.0	7	1.9	10	22	58	6	0.04	3
2.5	5	2.4	8	18	54	6	0.07	3
3.0	6	2.9	9	18	54	6	0.07	3
3.0	10	2.9	14	22	58	6	0.07	3
4.0	7	3.8	12	18	54	6	0.07	3
4.0	13	3.8	17	22	58	6	0.07	3
5.0	8	4.8	16	18	54	6	0.12	3
5.0	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	○	○	○	○	○	○



54 088 ...	PG	CX	54 089 ...	PG	CX	54 090 ...	PG	CX	54 091 ...	PG	CX
02000	£	£	02000	£	£	02000	£	£	02000	£	£
	12.75	10.00		12.75	10.00		12.75	10.00		12.75	10.00
02500	12.75	10.00	02500	12.75	10.00	02500	12.75	10.00	02500	12.75	10.00
03000	12.75	10.00	03000	12.75	10.00	03000	12.75	10.00	03000	12.75	10.00
04000	12.75	10.00	04000	12.75	10.00	04000	12.75	10.00	04000	12.75	10.00
05000	12.75	10.00	05000	12.75	10.00	05000	12.75	10.00	05000	12.75	10.00
06000	12.75	10.00	06000	12.75	10.00	06000	12.75	10.00	06000	12.75	10.00
08000	18.24	15.00	08000	18.24	15.00	08000	18.24	15.00	08000	18.24	15.00
10000	22.76	18.00	10000	22.76	18.00	10000	22.76	18.00	10000	22.76	18.00
12000	31.86	27.00	12000	31.86	27.00	12000	31.86	27.00	12000	31.86	27.00

End milling cutter



DC _{h10} mm	APMX mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP
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	○	○	○	○	○	○



54 092 ...	PG	CX
	£	£
03000	28.94	18.00
03500	28.94	18.00
04000	28.94	18.00
04500	28.94	18.00
05000	28.94	18.00
05500	28.94	18.00
06000	28.94	18.00
06500	28.13	24.00
07000	28.13	24.00
08000	28.13	24.00
10000	37.32	31.00
12000	51.88	43.00
16000	104.66	88.00
20000	136.57	115.00



Technical support: 0800 073 2 075
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday
Email: techsupport.uk@ceratizit.com

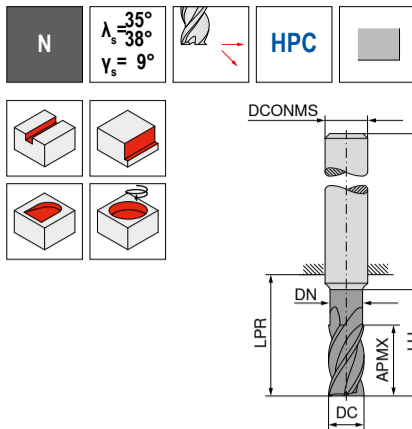


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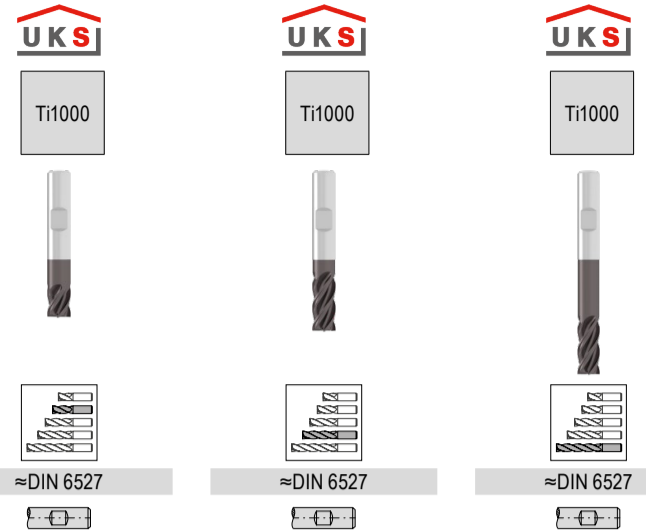
End milling cutter



Square Corner

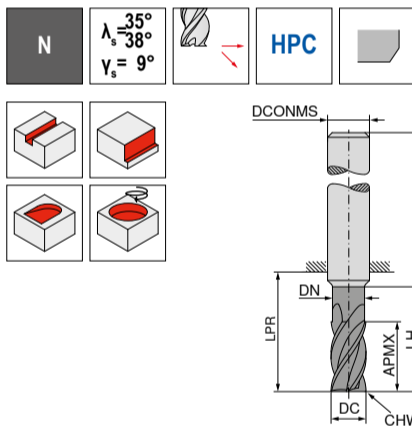
DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
3	5			14	50	6	4
3	8	2.8	13	21	57	6	4
3	8	2.8	15	22	69	6	4
4	8			18	54	6	4
4	11	3.8	17	21	57	6	4
4	11	3.8	20	26	69	6	4
5	9			18	54	6	4
5	13	4.8	19	21	57	6	4
5	13	4.8	25	34	69	6	4
6	10			18	54	6	4
6	13	5.8	19	21	57	6	4
6	13	5.8	30	34	69	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			



	54 070 ... PG CX		54 070 ... PG CX		54 070 ... PG CX			
	£	£	£	£	£	£		
03100	17.03	9.00	03200	17.03	9.00	03400	24.06	14.00
04100	17.03	9.00	04200	17.03	9.00	04400	24.06	14.00
05100	17.03	9.00	05200	17.03	9.00	05400	27.07	15.00
06100	17.03	9.00	06200	19.99	11.00	06400	36.24	17.00
08100	29.07	14.00	08200	25.79	14.00	08400	38.37	22.00
10100	31.11	17.00	10200	33.98	20.00	10400	53.42	31.00
12100	44.75	26.00	12200	53.76	31.00	12400	65.86	38.00
16100	78.39	45.00	16200	82.79	48.00	16400	124.27	72.00
20100	116.53	68.00	20200	125.47	73.00	20400	170.54	99.00

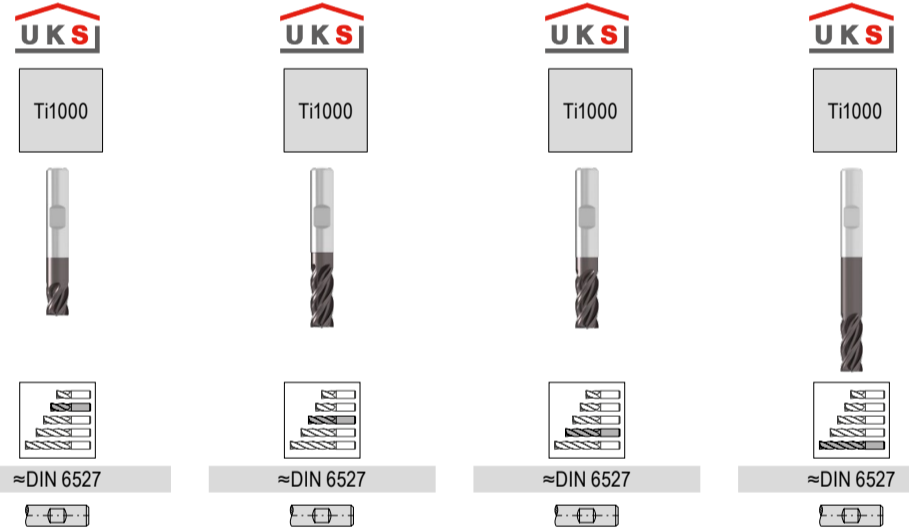
End milling cutter



Chamfered Edge

DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP
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	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	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

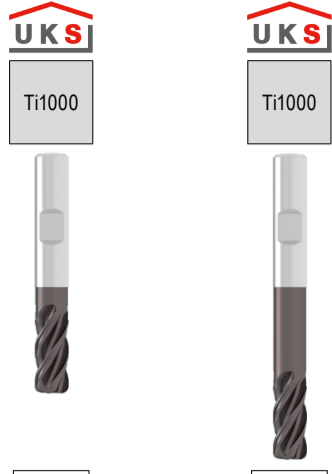
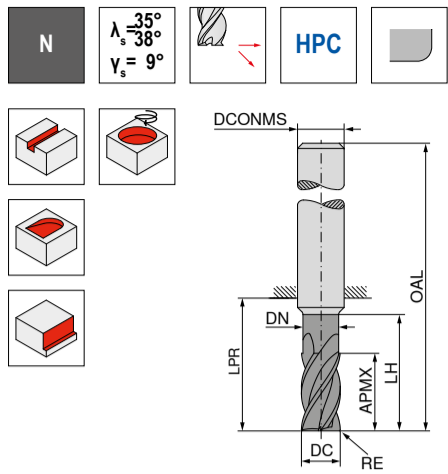
P	●	●	●
M	●	●	○
K	●	●	●
N	○	○	○
S	○	○	○
H			
O			



	54 071 ... PG CX		54 071 ... PG CX		54 071 ... PG CX		54 071 ... PG CX	
	£	£	£	£	£	£	£	£
03100	14.47	9.00	03200	15.14	9.00	03400	24.06	14.00
04100	14.47	9.00	04200	15.14	9.00	04400	24.06	14.00
05100	14.47	9.00	05200	15.14	9.00	05400	27.07	15.00
06100	14.47	9.00	06300	20.04	11.00	06200	15.14	11.00
08100	19.57	14.00	08300	25.04	14.00	08200	19.04	14.00
10100	26.03	17.00	10300	33.88	19.00	10200	27.54	20.00
12100	36.60	26.00	12300	53.88	31.00	12200	43.04	31.00
16100	63.98	45.00	14300	73.46	43.00	12400	65.86	38.00
20100	96.23	68.00	16300	93.11	48.00	16200	64.26	48.00
			18300	119.25	64.00	16400	124.27	72.00
			20300	125.47	72.00	20200	99.76	73.00
						20400	170.54	99.00



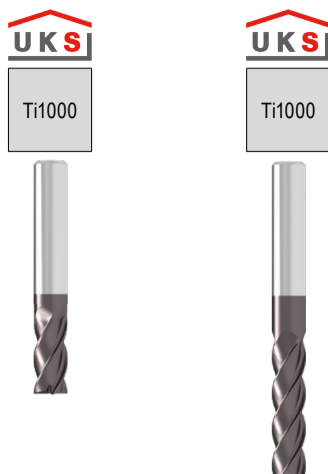
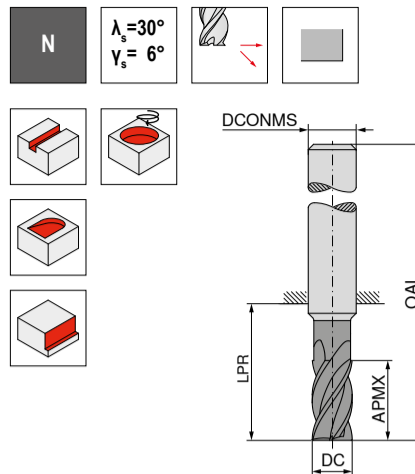
End milling cutter with corner radius



DC _{h10}	RE _{±0.05}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	54 072 ...	PG	CX
3	0.1	8	2.8	13	21	57	6	4	03201	£	12.00
3	0.3	8	2.8	13	21	57	6	4	03203	£	12.00
3	0.5	8	2.8	13	21	57	6	4	03205	£	12.00
3	1.0	8	2.8	13	21	57	6	4	03210	£	12.00
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	04201	£	12.00
4	0.3	11	3.8	17	21	57	6	4	04203	£	12.00
4	0.5	11	3.8	17	21	57	6	4	04205	£	12.00
4	1.0	11	3.8	17	21	57	6	4	04210	£	12.00
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	05205	£	12.00
5	0.1	13	4.8	19	21	57	6	4	05201	£	12.00
5	0.3	13	4.8	19	21	57	6	4	05203	£	12.00
5	1.0	13	4.8	19	21	57	6	4	05210	£	12.00
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	06203	£	14.00
6	0.1	13	5.8	19	21	57	6	4	06201	£	14.00
6	0.5	13	5.8	19	21	57	6	4	06205	£	14.00
6	1.0	13	5.8	19	21	57	6	4	06210	£	14.00
6	1.5	13	5.8	19	21	57	6	4	06215	£	14.00
6	2.0	13	5.8	19	21	57	6	4	06220	£	14.00
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	08201	£	18.00
8	0.3	21	7.7	25	27	63	8	4	08203	£	18.00
8	0.5	21	7.7	25	27	63	8	4	08205	£	18.00
8	1.0	21	7.7	25	27	63	8	4	08210	£	18.00
8	1.5	21	7.7	25	27	63	8	4	08215	£	18.00
8	2.0	21	7.7	25	27	63	8	4	08220	£	18.00
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	10210	£	23.00
10	0.1	22	9.7	30	32	72	10	4	10201	£	23.00
10	0.3	22	9.7	30	32	72	10	4	10203	£	23.00
10	0.5	22	9.7	30	32	72	10	4	10205	£	23.00
10	1.5	22	9.7	30	32	72	10	4	10215	£	23.00
10	2.0	22	9.7	30	32	72	10	4	10220	£	23.00
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	12205	£	36.00
12	0.1	26	11.6	36	38	83	12	4	12201	£	36.00
12	0.3	26	11.6	36	38	83	12	4	12203	£	36.00
12	1.0	26	11.6	36	38	83	12	4	12210	£	36.00
12	1.5	26	11.6	36	38	83	12	4	12215	£	36.00
12	2.0	26	11.6	36	38	83	12	4	12220	£	36.00
12	3.0	26	11.6	36	38	83	12	4	12230	£	36.00
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	16203	£	56.00
16	0.1	36	15.5	42	44	92	16	4	16201	£	56.00
16	0.5	36	15.5	42	44	92	16	4	16205	£	56.00
16	1.0	36	15.5	42	44	92	16	4	16210	£	56.00
16	1.5	36	15.5	42	44	92	16	4	16215	£	56.00
16	2.0	36	15.5	42	44	92	16	4	16220	£	56.00
16	3.0	36	15.5	42	44	92	16	4	16230	£	56.00
16	4.0	36	15.5	42	44	92	16	4	16240	£	56.00
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	20201	£	80.00
20	0.3	41	19.5	52	54	104	20	4	20203	£	80.00
20	0.5	41	19.5	52	54	104	20	4	20205	£	80.00
20	1.0	41	19.5	52	54	104	20	4	20210	£	80.00
20	1.5	41	19.5	52	54	104	20	4	20215	£	80.00
20	2.0	41	19.5	52	54	104	20	4	20220	£	80.00
20	3.0	41	19.5	52	54	104	20	4	20230	£	80.00
20	4.0	41	19.5	52	54	104	20	4	20240	£	80.00
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		

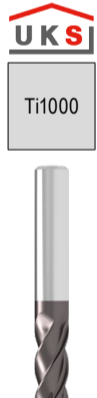
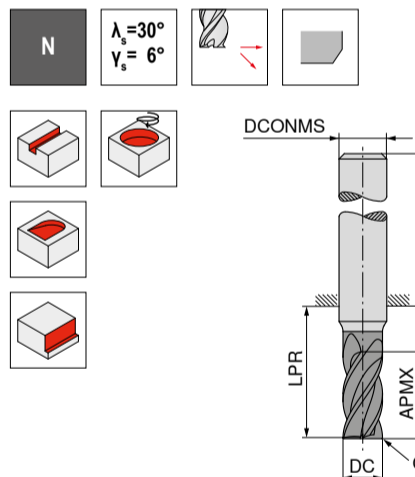
End milling cutter



DC _{h10}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP	54 093 ...	PG	CX
2.0	8	8	32	2.0	4	22000	£	10.00
2.5	8	8	32	2.5	4	22500	£	10.00
3.0	12	12	32	3.0	4	33000	£	10.00
3.0	30	32	60	3.0	4			
3.5	12	12	32	3.5	4	33500	£	10.00
4.0	12	12	40	4.0	4	44000	£	10.00
4.0	30	47	75	4.0	4			
4.5	14	22	50	4.5	4	44500	£	10.00
5.0	14	22	50	5.0	4	55000	£	10.00
5.0	35	47	75	5.0	4			
5.5	16	22	50	5.5	4	55500	£	10.00
6.0	14	14	50	6.0	4	06000	£	10.00
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



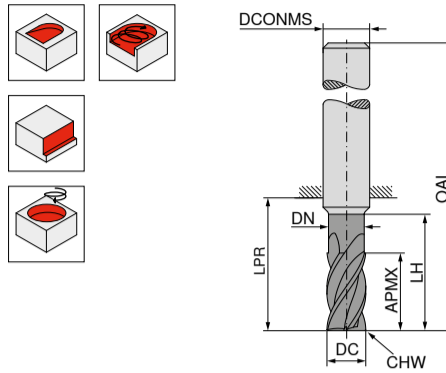
DC _{h10}	APMX	LPR	OAL	DCONMS _{h6}	CHW	ZEFP	54 095 ...	PG	CX
2.0	8	8	32	2.0	0.04	4	22000	£	10.00
2.5	8	8	32	2.5	0.04	4	22500	£	10.00
3.0	12	12	32	3.0	0.07	4	33000	£	10.00
3.5	12	12	32	3.5	0.07	4	33500	£	10.00
4.0	12	12	40	4.0	0.07	4	44000	£	10.00
4.5	14	22	50	4.5	0.07	4	44500	£	10.00
5.0	14	22	50	5.0	0.12	4	55000	£	10.00
5.5	16	22	50	5.5	0.12	4	55500	£	10.00
6.0	14	14	50	6.0	0.12	4	06000	£	10.00

P	●	●
M	○	○
K	●	●
N		

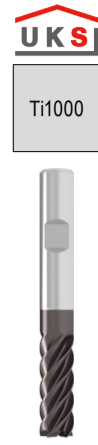
End milling cutter

Optimised for trochoidal machining

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



Modern Milling Strategies

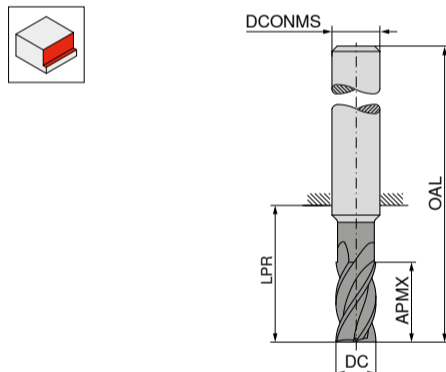
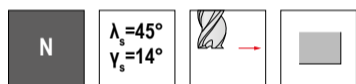


Factory standard

DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP	54 098 ... PG CX	
mm	mm	mm	mm	mm	mm	mm	mm		£	£
6	18	5.8	24	26	62	6	0.1	5	06000	38.24 32.00
8	24	7.7	30	32	68	8	0.2	5	08000	58.07 42.00
10	30	9.7	38	40	80	10	0.2	5	10000	65.54 54.00
12	36	11.6	46	48	93	12	0.3	5	12000	77.37 64.00
16	48	15.5	58	60	108	16	0.3	5	16000	137.43 115.00
20	60	19.5	74	76	126	20	0.3	5	20000	244.22 177.00

P	●
M	○
K	●
N	○
S	○
H	○
O	○

Finish milling cutter

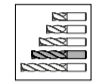
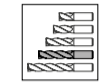
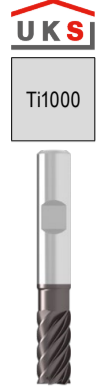
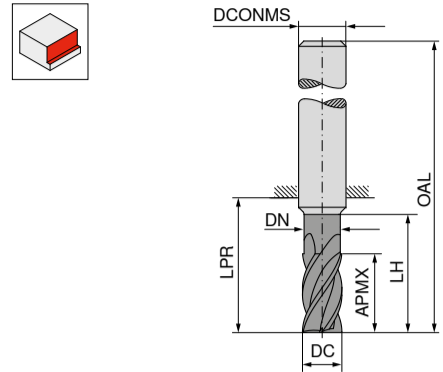
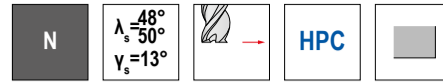


Factory standard

DC _{h10}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP	54 099 ... PG CX	
mm	mm	mm	mm	mm	mm	£	£
4	16	26	62	6	6	04000	29.43 24.00
5	18	26	62	6	6	05000	39.43 24.00
6	18	26	62	6	6	06000	49.43 24.00
8	24	32	68	8	6	08000	56.44 30.00
10	30	40	80	10	6	10000	66.07 42.00
12	36	48	93	12	6	12000	64.99 52.00
16	48	60	108	16	6	16000	122.89 103.00
20	60	76	126	20	8	20000	163.83 137.00

P	●
M	○
K	●
N	○
S	○
H	○
O	○

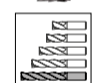
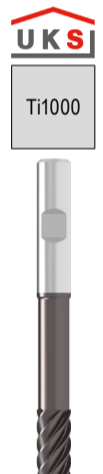
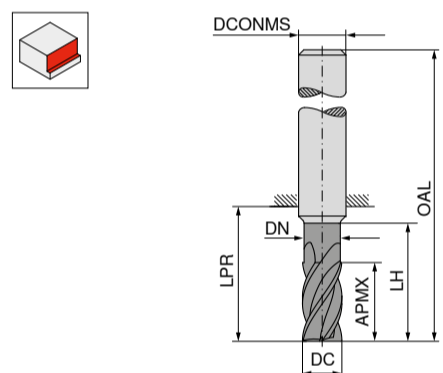
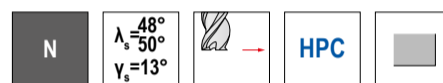
Finish milling cutter



DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	54 076 ... PG CX		54 075 ... PG CX	
mm	mm	mm	mm	mm	mm	mm	mm	£	£	£	£
6	13	5.6	19	21	57	6	6	06200	24.89 14.00	06200	24.89 14.00
8	19	7.6	25	27	63	8	6	08200	32.16 18.00	08200	32.16 18.00
10	22	9.6	30	32	72	10	6	10200	42.36 24.00	10200	42.36 24.00
12	26	11.5	36	38	83	12	6	12200	57.19 39.00	12200	57.19 39.00
16	32	15.0	42	44	92	16	6	16200	103.54 60.00	16200	103.54 60.00
20	38	19.0	52	54	104	20	6	20200	156.78 92.00	20200	156.78 92.00

P	●
M	●
K	○
N	○
S	○
H	○
O	○

Finish milling cutter



DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	54 076 ... PG CX		54 075 ... PG CX	
mm	mm	mm	mm	mm	mm	mm	mm	£	£	£	£
6	15	5.6	42	44	80	6	6	06400	37.76 22.00	06400	37.76 22.00
8	20	7.6	62	64	100	8	6	08400	47.96 28.00	08400	47.96 28.00
10	25	9.6	58	60	100	10	6	10400	66.79 38.00	10400	66.79 38.00
12	30	11.5	73	75	120	12	6	12400	82.33 47.00	12400	82.33 47.00
16	40	15.0	100	102	150	16	6	16400	155.46 91.00	16400	155.46 91.00
20	50	19.0	98	100	150	20	6	20400	213.19 125.00	20400	213.19 125.00

P	●
M	●
K	○
N	○
S	○
H	○
O	○

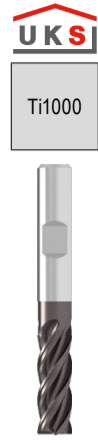
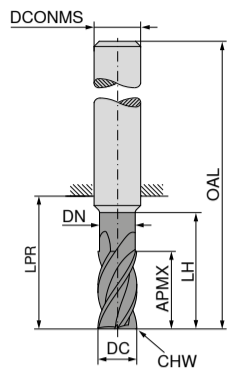
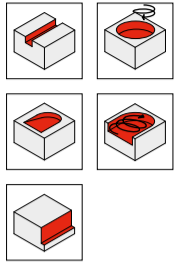
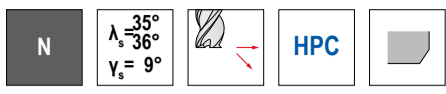

cutting.tools/sustainability

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Ecological, sustainable and economical



End milling cutter

▲ Cutting depth: 3 x DC



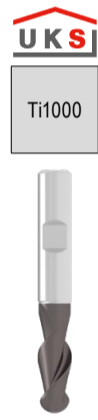
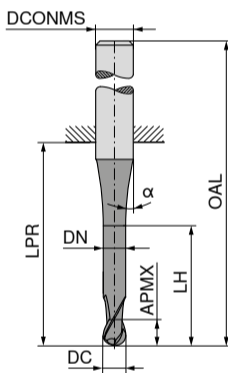
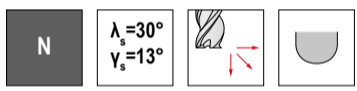
≈DIN 6527

DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS ₁₆ mm	CHW mm	ZEPF	54 078 ...	PG	CX
6	19	5.8	24	26	62	6	0.1	4	06200	25.66	20.00
8	25	7.7	30	32	68	8	0.2	4	08200	33.46	26.00
10	31	9.7	38	40	80	10	0.2	4	10200	43.46	34.00
12	37	11.6	46	48	93	12	0.2	4	12200	53.68	54.00
16	49	15.5	58	60	108	16	0.3	4	16200	106.64	84.00
20	61	19.5	74	76	126	20	0.3	4	20200	166.82	126.00

P	●
M	●
K	●
N	●
S	○
H	○
O	○

Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm



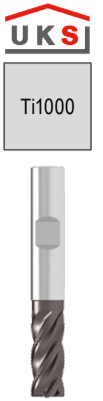
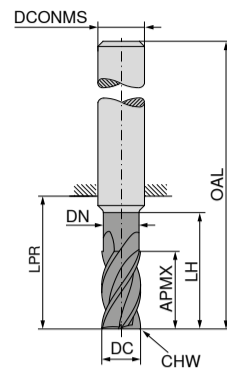
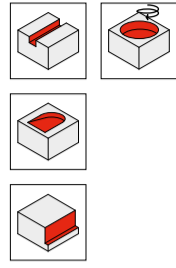
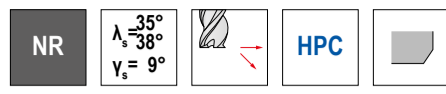
≈DIN 6527

DC ₁₁₀ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS ₁₆ mm	α°	ZEPF	54 073 ...	PG	CX
3	5	2.9	9	14	50	6	15	2	03115	20.55	11.00
4	8	3.9	12	18	54	6	45	2	04120	20.55	11.00
5	9	4.9	15	18	54	6	45	2	05125	20.55	11.00
6	10	5.9	17	18	54	6	45	2	06130	24.44	12.00
8	12	7.8	20	22	58	8	45	2	08140	20.16	16.00
10	14	9.8	26	26	66	10	45	2	10150	35.19	20.00
12	16	11.8	28	28	73	12	45	2	12160	51.35	29.00
16	22	15.7	32	34	82	16	45	2	16180	83.89	49.00
20	26	19.7	40	42	92	20	45	2	20110	119.88	70.00

P	●
M	○
K	○
N	●
S	○
H	○
O	○

Rough milling cutter

▲ With roughing profile



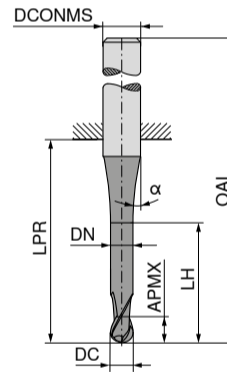
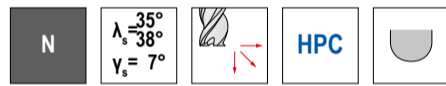
≈DIN 6527

DC ₀₁₁ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS ₁₆ mm	CHW mm	ZEPF	54 077 ...	PG	CX
3	8	2.8	13	21	57	6	0.1	4	00300	24.37	14.00
4	11	3.8	17	21	57	6	0.1	4	00400	24.37	14.00
5	13	4.8	19	21	57	6	0.1	4	00500	24.37	14.00
6	13	5.8	19	21	57	6	0.1	4	00600	29.48	17.00
8	21	7.7	25	27	63	8	0.2	4	00800	36.48	21.00
10	22	9.7	30	32	72	10	0.2	4	01000	46.58	26.00
12	26	11.6	36	38	83	12	0.3	4	01200	75.44	44.00
16	36	15.5	42	44	92	16	0.3	4	01600	119.64	66.00
20	41	19.5	52	54	104	20	0.3	4	02000	168.38	98.00

P	●
M	●
K	●
N	○
S	○
H	○
O	○

Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm



≈DIN 6527



≈DIN 6527

DC ₁₁₀ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS ₁₆ mm	α°	ZEPF	54 074 ...	PG	CX
3	8			21	57	6	30	4	03115	20.55	11.00
3	8	2.8	13	21	57	6	30	4	03215	20.55	11.00
4	11			21	57	6	30	4	04120	20.55	11.00
4	11	3.8	17	21	57	6	30	4	04220	20.55	11.00
5	13			21	57	6	30	4	05125	20.55	11.00
5	13	4.8	19	21	57	6	30	4	05225	20.55	11.00
6	13			21	57	6	30	4	06130	24.44	12.00
6	13	5.8	19	21	57	6	30	4	06430	24.06	14.00
8	19			36	72	8	30	4	08140	20.16	16.00
8	19	7.7	25	36	72	8	30	4	08440	20.79	17.00
10	22			32	72	10	30	4	10150	35.19	20.00
10	22	9.7	30	32	72	10	30	4	10450	37.74	22.00
12	26			38	83	12	30	4	12160	51.35	29.00
12	26	11.6	36	38	83	12	30	4	12460	59.68	35.00
16	32			44	92	16	30	4	16180	83.89	49.00
16	32	15.5	42	44	92	16	30	4	16480	98.06	51.00
20	38			54	104	20	30	4	20110	119.88	70.00
20	38	19.5	52	54	104	20	30	4	20410	127.54	74.00

P	●
M	●
K	●
N	○
S	○
H	○
O	○



Technical support: 0800 073 2 075
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday
Email: techsupport.uk@ceratizit.com

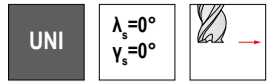


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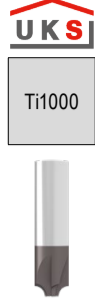
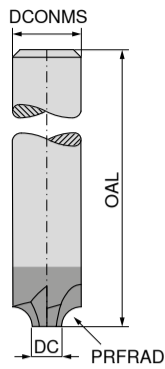


When you see this logo it's
in stock in Sheffield

Quarter-round profile milling cutter, concave

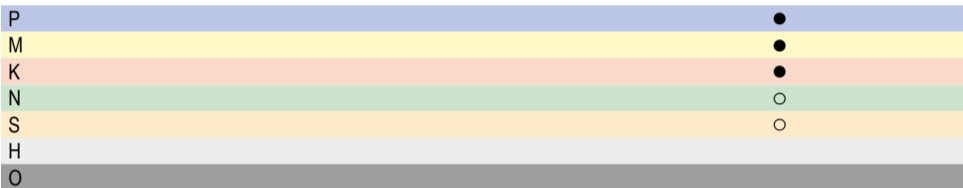


Standard

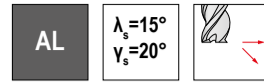


Factory standard

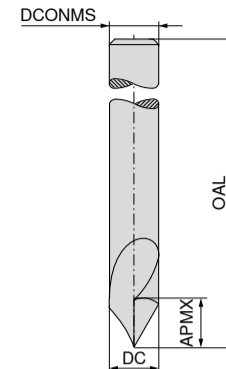
PRFRAD <small>+0.02 mm</small>	DC mm	OAL mm	APMX mm	DCONMS _{h6} mm	ZFP			
0.50	7.0	70	0.50	8	4	52 247 ...	PG	CX
1.00	6.0	70	1.00	8	4	00500	£	£
1.25	7.5	75	1.25	10	4	01000	58.82	64.00
1.50	7.0	75	1.50	10	4	01200	58.82	64.00
2.00	6.0	75	2.00	10	4	01500	73.10	68.00
2.50	7.0	73	2.50	12	4	02000	73.10	68.00
3.00	6.0	73	3.00	12	4	02500	82.10	77.00
3.50	9.0	80	3.50	16	4	03000	82.10	77.00
4.00	8.0	80	4.00	16	4	03500	103.37	97.00
4.50	7.0	80	4.50	16	4	04000	103.37	97.00
5.00	10.0	80	5.00	20	4	04500	103.37	97.00
6.00	8.0	80	6.00	20	4	05000	146.72	137.00
						06000	146.72	137.00



Engraving cutter 60°

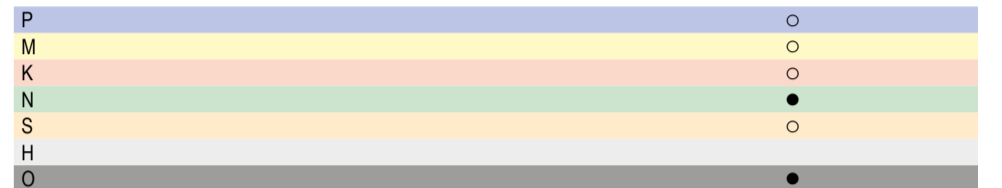


Standard

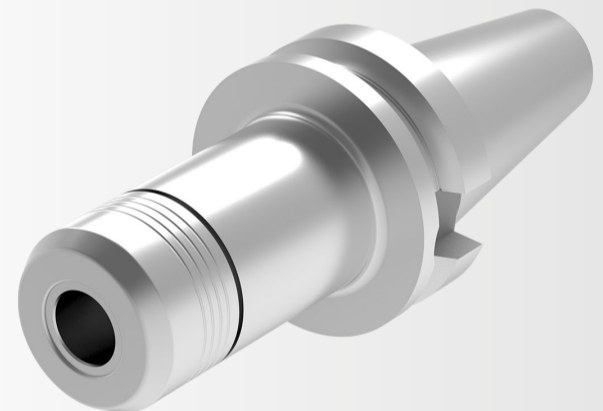


Factory standard

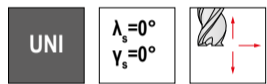
DC _{h6} mm	APMX mm	OAL mm	DCONMS _{h6} mm	ZFP				
3	2.6	50	3	1	52 196 ...	PG	CX	
4	3.5	50	4	1	03000	£	£	
6	5.2	54	6	1	04000	31.57	29.00	
					06000	33.64	31.00	
						36.17	33.00	



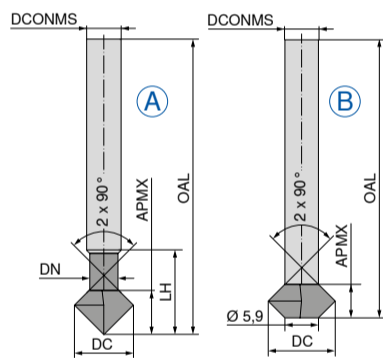
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→ see page 91



NC front and rear chamfer milling cutter

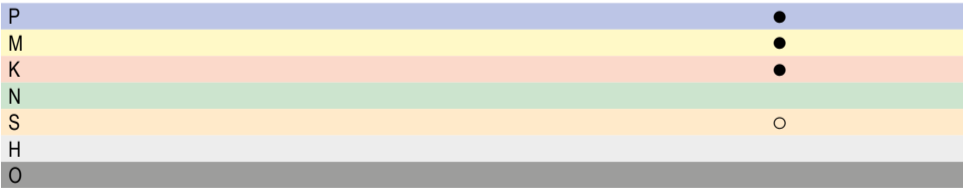


Standard



Factory standard

DC _{+0.09/-0.1} mm	APMX mm	DN mm	LH mm	OAL mm	DCONMS _{h6} mm	ZFP	Fig.			
3	2.00	2.2	12.0	75	4	4	A	52 189 ...	PG	CX
4	2.65	2.9	17.7	75	4	4	A	03000	£	£
5	3.05	3.9	18.0	75	5	4	A	04000	52.74	49.00
6	4.05	3.9	19.0	100	6	4	A	05000	53.67	50.00
8	2.25			100	6	4	B	06000	54.73	51.00
10	4.25			100	6	4	B	08000	65.43	61.00
12	6.25			100	6	4	B	10000	84.86	79.00
								12000	105.70	99.00
									125.00	118.00



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by CERATIZIT



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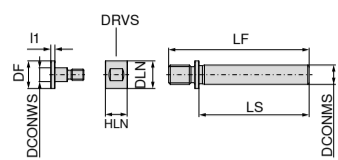
Ordering via the Online Shop
<http://cuttingtools.ceratizit.com>



Cylindrical shank adapter for circular saw blades

▲ DCONWS = circular saw blade bore diameter

Standard

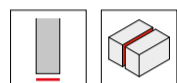


DCONWS _{H7}	DCONMS _{H7}	DLN	DF	LF	LS	HLN	I ₁	DRVS
mm	mm	mm	mm	mm	mm	mm	mm	mm
5	10	10	10	61	50	8	3	9
5	7	10	10	51	40	8	3	9
8	10	15	15	61	50	8	3	14
8	7	15	15	51	40	8	3	14
10	10	17	17	63	50	10	3	16
10	7	17	17	53	40	10	3	16
10	16	17	17	74	55	10	3	16
13	16	20	20	77	55	10	3	18
13	10	20	20	66	50	10	3	18
16	16	24	24	79	55	14	3	22
16	10	24	24	66	50	14	3	22

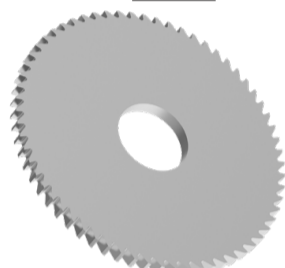
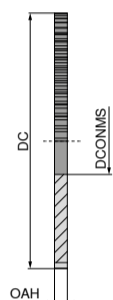
72 900 ...	PG TO
£	£
105	150.50 28.00
005	150.50 28.00
108	163.24 31.00
008	150.50 28.00
110	163.24 31.00
010	150.50 28.00
210	174.24 33.00
213	174.24 33.00
113	163.24 31.00
216	174.24 33.00
116	163.24 31.00

Solid carbide circular saw blades, fine-toothed, DIN 1837A

▲ fine-straight-cut



Standard



DIN 1837 A

54 700 ...		PG SM
£	£	
113	33.43	13.00
102	25.30	9.00
103	25.30	9.00
104	25.30	9.00
106	25.30	9.00
107	25.30	9.00
108	25.30	9.00
109	30.17	11.00
110	30.17	11.00
111	30.00	12.00
112	32.00	12.00
114	33.43	13.00
115	33.43	13.00
116	33.43	13.00
117	36.35	14.00
118	39.04	15.00
119	42.35	17.00
120	42.35	17.00
122	44.63	17.00
123	64.65	24.00
124	60.70	27.00
163	39.04	15.00
152	27.43	11.00
153	27.43	11.00
154	27.43	11.00
155	27.43	11.00
156	27.43	11.00
157	27.43	11.00
158	27.43	11.00
159	32.00	12.00
160	32.00	12.00
161	33.43	13.00
162	36.35	14.00
164	39.04	15.00
165	44.13	15.00
166	44.63	17.00
167	44.63	17.00
168	46.70	18.00
169	49.20	19.00
170	49.20	19.00
172	54.64	20.00
173	55.45	25.00
174	74.22	29.00
175	83.48	32.00
176	90.33	39.00
214	46.70	19.00
202	27.06	10.00
203	27.06	10.00
204	27.06	10.00
206	27.06	10.00
207	34.50	12.00
208	34.50	12.00
209	34.00	13.00
210	39.04	15.00
211	42.35	17.00
212	42.35	17.00
215	50.00	19.00
216	52.00	20.00
217	52.00	20.00
218	58.34	23.00
219	58.34	23.00
220	60.00	23.00
222	66.87	26.00
223	64.18	31.00
224	105.63	41.00
269	70.14	27.00
252	34.00	13.00
253	34.00	13.00
254	34.00	13.00
255	34.00	13.00
256	34.00	13.00
257	36.72	14.00
258	36.72	14.00
259	44.46	17.00
260	48.70	19.00
261	52.00	20.00
262	52.00	20.00
263	58.55	23.00

DC _{js15}	OAH _{±0.01}	DCONMS _{H6}	ZEFP
mm	mm	mm	
30	1.20	8	48
30	1.30	8	48
30	1.40	8	48
30	1.50	8	48
30	1.60	8	48
30	1.80	8	48
30	1.90	8	48
30	2.00	8	48
30	2.50	8	40
30	3.00	8	40
30	3.50	8	40
30	4.00	8	40
30	5.00	8	32
30	6.00	8	32
40	1.40	10	64
40	0.20	10	128
40	0.25	10	100
40	0.30	10	100
40	0.40	10	100
40	0.50	10	80
40	0.60	10	80
40	0.70	10	80
40	0.80	10	80
40	0.90	10	64
40	1.00	10	64
40	1.10	10	64
40	1.20	10	64
40	1.30	10	64
40	1.50	10	64
40	1.60	10	64
40	1.70	10	48
40	1.80	10	48
40	2.00	10	48
40	2.50	10	48
40	3.00	10	48
40	3.50	10	48
40	4.00	10	40
40	4.50	10	40
40	5.00	10	40
40	5.50	10	40
40	6.00	10	40
50	1.20	13	80
50	0.30	13	128
50	0.40	13	100
50	0.50	13	100
50	0.60	13	100
50	0.70	13	80
50	0.80	13	80
50	0.90	13	80
50	1.00	13	80
50	1.10	13	80
50	1.30	13	64
50	1.40	13	64
50	1.50	13	64
50	1.60	13	64
50	1.70	13	64
50	1.80	13	64
50	1.90	13	64
50	2.00	13	64
50	2.50	13	64
50	3.00	13	48
50	3.50	13	48
50	4.00	13	48
63	1.60	16	80
63	0.40	16	128
63	0.50	16	128
63	0.60	16	100
63	0.70	16	100
63	0.80	16	100
63	1.00	16	100
63	1.10	16	80
63	1.20	16	80
63	1.30	16	80
63	1.40	16	80
63	1.50	16	80
63	1.70	16	80
63	1.80	16	80
63	2.00	16	80
63	2.50	16	64
63	3.00	16	64
63	3.50	16	64
63	4.00	16	64
63	4.50	16	64
63	5.00	16	48
63	5.50	16	48
63	6.00	16	48

54 700 ...	PG SM
£	£
264	58.57 23.00
265	58.57 23.00
266	55.90 25.00
267	55.90 25.00
268	78.44 27.00
270	72.00 28.00
271	74.20 29.00
272	78.04 30.00
273	92.54 36.00
274	148.47 43.00
275	125.04 48.00
276	140.36 55.00
278	170.45 67.00
280	200.00 79.00
316	78.54 27.00
302	42.00 17.00
303	42.00 17.00
304	42.00 17.00
306	45.42 18.00
307	48.48 19.00
308	49.48 19.00
309	56.64 22.00
310	58.04 23.00
311	58.04 23.00
312	58.00 23.00
313	62.04 24.00
314	65.45 25.00
315	66.20 26.00
317	72.64 29.00
318	74.39 29.00
319	78.04 30.00
320	80.75 31.00
322	83.00 32.00
323	106.84 42.00
324	123.67 48.00
325	138.20 54.00
326	163.26 60.00
327	173.00 68.00
328	184.64 72.00
329	206.74 81.00
330	248.36 85.00
364	76.72 30.00
354	57.06 22.00
356	57.06 22.00
357	59.94 23.00
358	59.94 23.00
359	62.04 24.00
360	68.24 26.00
361	70.54 27.00
362	72.64 29.00
363	74.39 29.00
365	86.00 34.00
366	87.00 34.00
367	92.36 36.00
368	94.24 36.00
369	96.72 37.00
370	104.00 40.00
371	104.00 40.00
372	104.00 40.00
373	128.44 51.00
374	148.78 58.00
375	160.00 67.00
376	180.26 70.00
418	194.00 47.00
406	70.42 31.00
407	77.48 30.00
408	79.43 31.00
409	88.44 35.00
410	88.56 39.00
412	104.65 40.00
413	106.60 41.00
414	109.36 42.00
415	112.06 44.00
416	113.06 44.00
417	115.76 45.00
419	127.74 50.00
420	129.00 51.00
422	140.00 55.00
423	160.20 66.00
424	180.49 75.00
425	210.35 85.00
426	230.00 94.00
427	274.43 108.00
428	280.04 112.00
429	280.00 126.00
430	332.48 130.00

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



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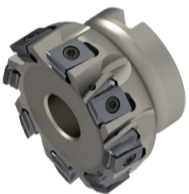
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MILLING TOOLS WITH INDEXABLE INSERTS

SYSTEM



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



MaxiMill Tangent – high performance tangential milling system for maximum process security.



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



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



MaxiMill HFC – first choice indexable high feed milling system.



MaxiMill HFCD – double sided insert high feed milling system.



MaxiMill 273 – 16-edge high performance milling system.



MaxiMill 252 – New generation heavy duty button milling system.



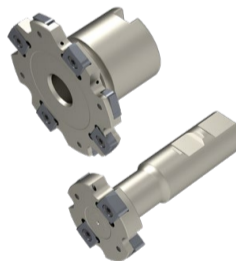
MaxiMill 251 – first choice indexable button milling system.



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.

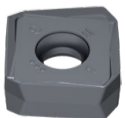


MaxiMill Slot-SNHX – Robust side and face milling/underside milling cutter with maximum process security for slot milling 6-16mm

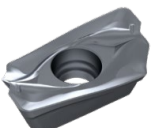


MaxiMill 242 – first choice chamfer milling system.

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.

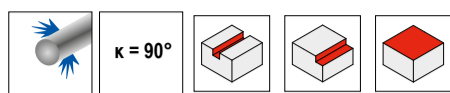


CTC5240 – first choice for titanium and heat resistant super alloys.

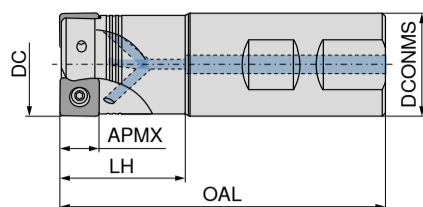


M1 – first choice chipbreaker for parting off.

MaxiMill – 491-09 End milling cutter



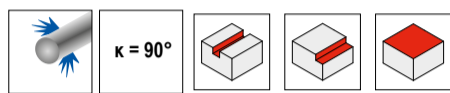
Performance



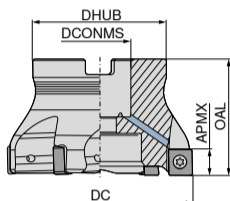
Designation	DC mm	OAL mm	LH mm	DCONMS _{ns} mm	APMX mm	Insert	ZNF
C491.25.R.03-09-B-32	25	89	32	25	6	SNHU 09T3	3
C491.25.R.03-09-A-50-225	25	225	50	25	6	SNHU 09T3	3
C491.32.R.03-09-B-40	32	101	40	32	6	SNHU 09T3	3
C491.32.R.04-09-B-40	32	101	40	32	6	SNHU 09T3	4
C491.32.R.03-09-A-63-250	32	250	63	32	6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

50 774 ...	PG TO		50 774 ...	PG TO	
	£	£		£	£
325	436.36	64.00	425	436.36	64.00
532	449.84	66.00	632	449.84	66.00
332	487.53	72.00	432	487.53	72.00

MaxiMill – 491-09 / -12 Shell mill



Performance



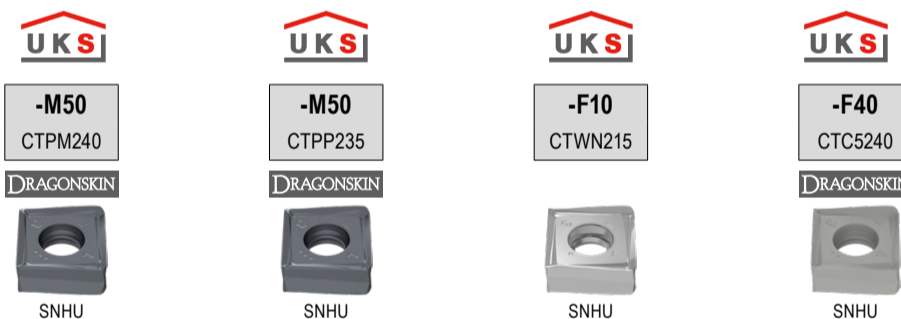
Designation	DC mm	OAL mm	DHUB mm	DCONMS mm	APMX mm	RPMX 1/min.	torque moment Nm	Insert	ZNF
A491.40.R.03-09	40	40	38	16	6	16800	2	SNHU 09T3	3
A491.40.R.05-09	40	40	38	16	6	16800	2	SNHU 09T3	5
A491.50.R.04-09	50	40	43	22	6	14600	2	SNHU 09T3	4
A491.50.R.06-09	50	40	43	22	6	14600	2	SNHU 09T3	6
A491.63.R.05-09	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
A491.100.R.07-09	100	50	78	32	6	9800	2	SNHU 09T3	7
A491.100.R.12-09	100	50	78	32	6	9800	2	SNHU 09T3	12
A491.125.R.08-09	125	63	88	40	6	8700	2	SNHU 09T3	8
A491.125.R.15-09	125	63	88	40	6	8700	2	SNHU 09T3	15
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
A491.125.R.08-12	125	63	88	40	8	5700	3.2	SNHU 1204	8
A491.125.R.12-12	125	63	88	40	8	5700	3.2	SNHU 1204	12



50 775 ...	PG TO		50 776 ...	PG TO		50 775 ...	PG TO		50 776 ...	PG TO	
	£	£		£	£		£	£		£	£
050	526.06	78.00	050	564.59	83.00	240	474.55	70.00	240	554.69	81.00
063	628.66	93.00	063	667.27	99.00	250	526.06	78.00	250	609.03	89.00
080	667.27	99.00	080	769.87	114.00	263	628.66	93.00	263	743.09	110.00
100	846.76	125.00	100	962.34	142.00	280	667.27	99.00	280	824.43	121.00
125	1,026.84	152.00	125	1,180.79	175.00	300	846.76	125.00	300	1,038.89	154.00
						325	1,026.84	152.00	325	1,257.32	186.00

SNHU

Performance

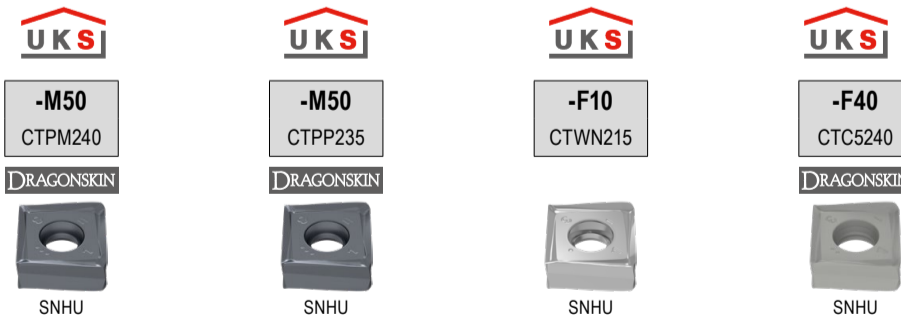


ISO	RE mm
09T308ER	0.8
09T308FR	0.8
09T308SR	0.8
09T312FR	1.2
09T312SR	1.2
09T316FR	1.6
09T316SR	1.6

51 120 ...	PG IM		51 120 ...	PG IM		51 118 ...	PG IM		51 126 ...	PG MA	
	£	£		£	£		£	£		£	
408	24.45	14.00	108	24.45	14.00	358	24.45	14.00	15800	33.36	19.00
41200	24.45	14.00	11200	24.45	14.00	36200	24.45	14.00			
41600	24.45	14.00	11600	24.45	14.00	36600	24.45	14.00			

SNHU

Performance



ISO	RE mm
120408ER	0.8
120408FR	0.8
120408SR	0.8
120412FR	1.2
120412SR	1.2
120416FR	1.6
120416SR	1.6
120420FR	2.0
120420SR	2.0

51 100 ...	PG IM		51 100 ...	PG IM		51 101 ...	PG IM		51 128 ...	PG MA	
	£	£		£	£		£	£		£	
408	29.88	17.00	108	29.88	17.00	358	29.88	17.00	15800	40.86	23.00
			112	29.88	17.00	362	29.88	17.00			
			116	29.88	17.00	366	29.88	17.00			
			120	29.88	17.00	370	29.88	17.00			



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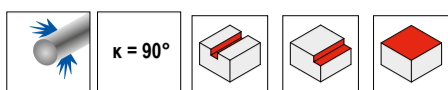


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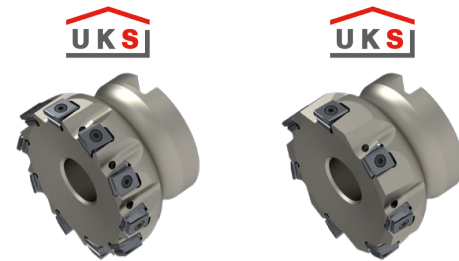
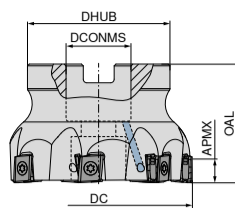


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MaxiMill – Tangent-09 face mill



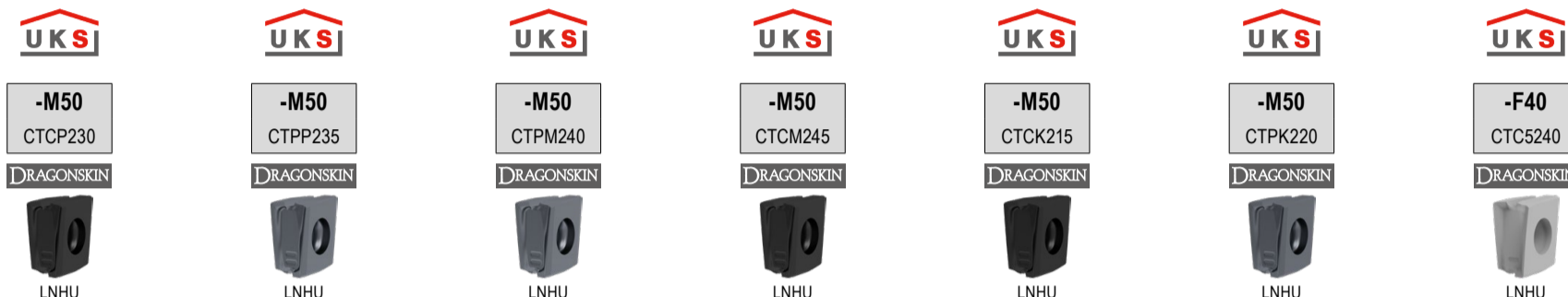
Performance



Designation	DC mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert	50 353 ... PG TO		50 353 ... PG TO	
										£	£	£	£
ATANG.40.R.04-09-A16	40	4	8	40	38	16	31300	2.2	LN.U 0904			04004	499.29 66.00
ATANG.40.R.06-09-A16	40	6	8	40	38	16	31300	2.2	LN.U 0904			04006	555.39 84.00
ATANG.50.R.05-09-A22	50	5	8	40	43	22	28000	2.2	LN.U 0904			05005	483.75 73.00
ATANG.50.R.07-09-A22	50	7	8	40	43	22	28000	2.2	LN.U 0904			05007	599.85 91.00
ATANG.63.R.07-09-A22	63	7	8	40	48	22	25000	2.2	LN.U 0904			06307	574.81 86.00
ATANG.63.R.10-09-A22	63	10	8	40	48	22	25000	2.2	LN.U 0904			06310	765.31 116.00
ATANG.80.R.08-09-A27	80	8	8	50	58	27	21000	2.2	LN.U 0904			08008	659.88 100.00
ATANG.80.R.11-09-A27	80	11	8	50	58	27	21000	2.2	LN.U 0904			08011	945.14 143.00

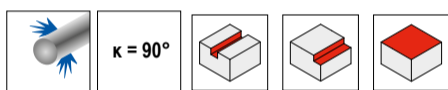
LNHU

Performance

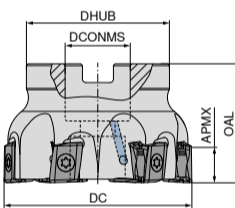


ISO	51 257 ... PG IM		51 257 ... PG IM		51 257 ... PG IM		51 257 ... PG IM		51 257 ... PG IM		51 257 ... PG IM		51 258 ... PG MA								
	£	£	£	£	£	£	£	£	£	£	£	£	£								
090404	00400	18.47	11.00	10400	18.47	11.00	40400	18.47	11.00	40401	25.61	15.00	50400	18.47	11.00	60400	18.47	11.00	10401	25.61	15.00

MaxiMill – Tangent-13 face mill



Performance



Designation	DC mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert	50 350 ... PG TO		50 350 ... PG TO	
										£	£	£	£
ATANG.40.R.04-13-A16	40	4	12	40	38	16	22500	5.0	LN.U 1306			04004	499.29 66.00
ATANG.40.R.05-13-A16	40	5	12	40	38	16	22500	5.0	LN.U 1306			04005	516.69 78.00
ATANG.40.R.05-13-A22	40	5	12	40	38	22	22500	5.0	LN.U 1306			14005	516.69 78.00
ATANG.50.R.05-13-A22	50	5	12	40	43	22	20200	5.0	LN.U 1306			05005	483.75 73.00
ATANG.50.R.06-13-A22	50	6	12	40	43	22	20200	5.0	LN.U 1306			05006	562.10 85.00
ATANG.50.R.06-13-A27	50	6	12	45	48	27	20200	5.0	LN.U 1306			15006	562.10 85.00
ATANG.63.R.06-13-A22	63	6	12	40	48	22	18000	5.0	LN.U 1306			06306	574.81 86.00
ATANG.63.R.08-13-A22	63	8	12	40	48	22	18000	5.0	LN.U 1306			06308	685.94 104.00
ATANG.80.R.07-13-A27	80	7	12	50	58	27	15900	5.0	LN.U 1306			08010	985.80 134.00
ATANG.80.R.10-13-A27	80	10	12	50	58	27	15900	5.0	LN.U 1306			08007	659.88 100.00
ATANG.100.R.09-13-A32	100	9	12	50	78	32	14200	5.0	LN.U 1306			10013	897.96 127.00
ATANG.100.R.13-13-A32	100	13	12	50	78	32	14200	5.0	LN.U 1306			10009	897.96 127.00
ATANG.125.R.11-13-A40	125	11	12	63	88	40	12700	5.0	LN.U 1306			12511	936.54 142.00
ATANG.125.R.16-13-A40	125	16	12	63	88	40	12700	5.0	LN.U 1306			12516	1386.34 198.00

LNHU

Performance

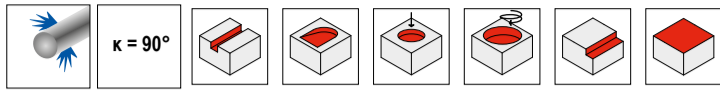


ISO	51 255 ... PG IM		51 255 ... PG IM		51 256 ... PG IM		51 256 ... PG IM		51 255 ... PG IM		51 255 ... PG IM		51 256 ... PG MA								
	£	£	£	£	£	£	£	£	£	£	£	£	£								
130608	00800	22.54	13.00	10800	22.54	13.00	40800	22.54	13.00	40801	38.69	18.00	50800	22.54	13.00	60800	22.54	13.00	10801	38.69	18.00

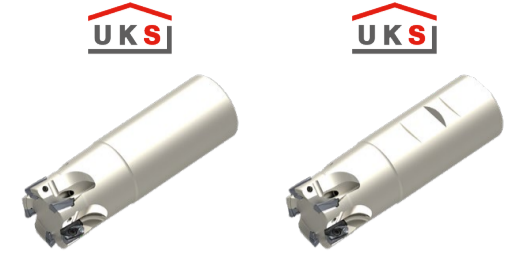
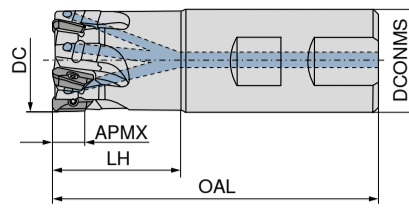


MaxiMill – 211-11 End milling cutter

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



Performance

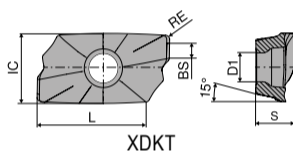


ISO designation	DC mm	OAL mm	LH mm	DCONMS _{ns} mm	APMX mm	RPMX 1/min.	Insert	ZNF
C211.16.R.02-11-A-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-B-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-A15-32-165	16	165	32	15	10	14800	XD.T 11T3	2
C211.16.R.02-11-A-32-165	16	165	32	16	10	14800	XD.T 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	TO	50 737 ...	PG	TO
£	£	£	£	£	£
116	281.00	41.00	016	281.00	41.00
316	281.00	41.00			
216	281.00	41.00			
120	320.26	47.00	020	320.26	47.00
12002	297.30	44.00			
320	320.26	47.00			
620	297.30	44.00			
420	297.30	44.00			
625	335.57	49.00	025	335.57	53.00
125	358.45	53.00			
325	358.45	53.00			
425	335.57	49.00			
825	335.57	49.00			
02502	312.78	46.00			
13204	373.67	55.00	032	396.55	58.00
132	396.55	58.00			
53204	373.67	55.00			
332	396.55	58.00			
432	373.67	55.00			

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	IM	50 463 ...	PG	MA	51 037 ...	PG	IM	51 037 ...	PG	IM
	£	£	£	£	£	£	£	£	£	£	£	£
11T302FR	502	15.65	9.00	504	21.07	13.00	104	15.65	9.00	404	15.65	9.00
11T304ER	504	15.65	9.00									
11T304FR				500	21.07	13.00	108	15.65	9.00	408	15.65	9.00
11T304SR												
11T308ER	508	15.65	9.00	512	21.07	13.00	112	15.65	9.00	412	15.65	9.00
11T308FR												
11T308SR				516	21.07	13.00						
11T312ER				520 ¹⁾	15.65	9.00	120 ¹⁾	15.65	9.00	420 ¹⁾	15.65	9.00
11T312SR												
11T316ER				525 ¹⁾	15.65	9.00	125 ¹⁾	15.65	9.00			
11T320ER												
11T320FR				532 ¹⁾	21.07	13.00				432 ¹⁾	15.65	9.00
11T320SR												
11T325ER				540 ¹⁾	21.07	13.00						
11T325FR												
11T325SR												
11T332ER												
11T332SR												
11T340ER												

1) Insert radius >1.6 mm: Modify cutter body



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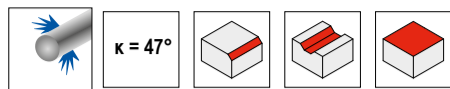
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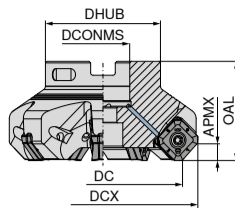
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MaxiMill – 271-12 Face mill

▲ 8 cutting edges per insert



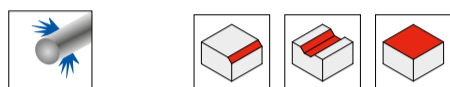
Performance



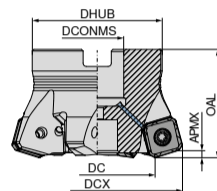
ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
A271.40.R.04-12	40	53	4	6.8	40	38	16	17900	3,2	SOHU 1204.. / XOHU 1204..
A271.50.R.05-12	50	63	5	6.8	40	43	22	15200	3,2	SOHU 1204.. / XOHU 1204..
A271.63.R.07-12	63	76	7	6.8	40	48	22	13100	3,2	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..
A271.125.R.08-12	125	138	8	6.8	63	88	40	8700	3,2	SOHU 1204.. / XOHU 1204..
A271.125.R.12-12	125	138	12	6.8	63	88	40	8700	3,2	SOHU 1204.. / XOHU 1204..

50 787 ...	PG	TO	50 787 ...	PG	TO
	£	£		£	£
04004	499.74	74.00	08006	648.44	96.00
05005	544.27	75.00	10007	822.85	122.00
06307	648.44	96.00	12508	997.60	148.00
08008	748.44	111.00			
10010	934.82	138.00			
12512	1147.24	170.00			

MaxiMill – 271-12 HFC Face mill



Performance

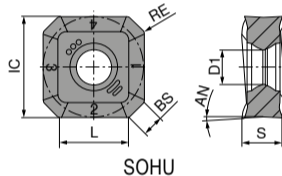


ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
A271.50.R.04-12-HFC	30	50	4	2.6	40	43	22	14600	3,2	SOHU 1204..
A271.63.R.06-12-HFC	43	63	6	2.6	40	48	22	12500	3,2	SOHU 1204..
A271.80.R.07-12-HFC	60	80	7	2.6	50	58	27	10800	3,2	SOHU 1204..

50 788 ...	PG	TO
	£	£
05004	511.27	75.00
06306	648.44	96.00
08007	748.44	111.00

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	MA	51 138 ...	PG	IM	51 138 ...	PG	IM
	£	£		£	£		£	£
17000	38.52	23.00	12000	28.74	17.00	42000	28.74	17.00

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M								
K								
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S								
H								
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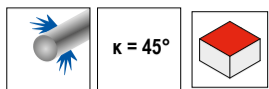
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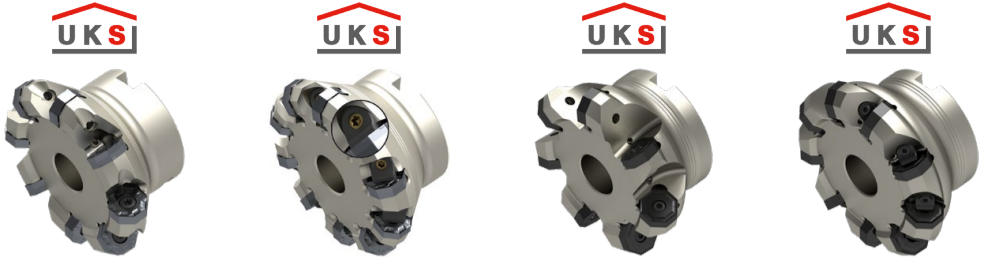
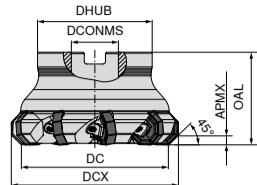


MaxiMill – 273-06 / -08 Shell mill

▲ 16 cutting edges per insert



Performance



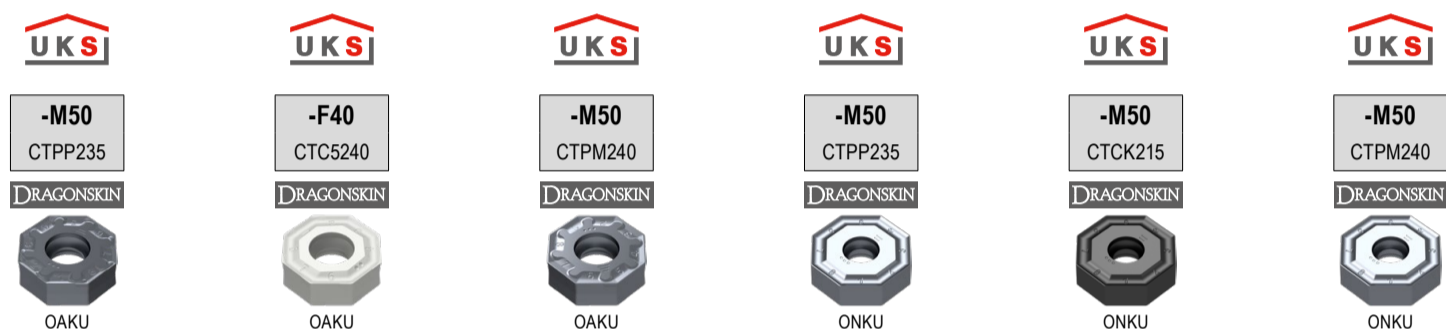
Designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DCONMS mm	DHUB mm	torque moment Nm	Insert
A273.40.R.03-06	40	50.2	3	3.5	40	16	38	5	OAKU / XAHT 0605
A273.40.R.04-06	40	50.2	4	3.5	40	16	38	5	OAKU / XAHT 0605
A273.50.R.05-06	50	60.2	5	3.5	40	22	43	5	OAKU / XAHT 0605
A273.63.R.07-06	63	73.2	7	3.5	40	22	48	5	OAKU / XAHT 0605
A273.80.R.08-06	80	90.2	8	3.5	50	27	58	5	OAKU / XAHT 0605
A273.80.R.10-06	80	90.2	10	3.5	50	27	58	4	OAKU / XAHT 0605
A273.100.R.10-06	100	110.2	10	3.5	50	32	78	5	OAKU / XAHT 0605
A273.100.R.14-06	100	110.2	14	3.5	50	32	78	4	OAKU / XAHT 0605
A273.125.R.12-06	125	135.2	12	3.5	63	40	88	5	OAKU / XAHT 0605
A273.125.R.17-06	125	135.2	17	3.5	63	40	88	4	OAKU / XAHT 0605
A273.63.R.05-08	63	76.7	5	5.0	50	22	48	5	ONKU 0806
A273.63.R.06-08	63	76.7	6	5.0	50	22	48	5	ONKU 0806
A273.80.R.06-08	80	93.7	6	5.0	50	27	58	5	ONKU 0806
A273.80.R.08-08	80	93.7	8	5.0	50	27	58	4	ONKU 0806
A273.100.R.07-08	100	113.7	7	5.0	63	32	78	5	ONKU 0806
A273.100.R.09-08	100	113.7	9	5.0	63	32	78	4	ONKU 0806
A273.125.R.08-08	125	138.7	8	5.0	63	40	88	5	ONKU 0806
A273.125.R.11-08	125	138.7	11	5.0	63	40	88	4	ONKU 0806

Designation	PG	TO	Price (£)
50 741 ...			
040			466.64 69.00
140			489.49 72.00
050			549.85 81.00
063			658.86 97.00
080			788.58 114.00
100			906.58 134.00
125			1,015.66 150.00
50 741 ...			
180	2)		1,178.46 173.00
200	2)		1,496.48 222.00
225	2)		1,736.34 257.00
50 779 ...			
06300			568.98 88.00
08000			691.64 107.00
10000			749.56 111.00
12500			837.42 129.00
50 779 ...			
16300 ¹⁾			891.48 128.00
18000 ¹⁾			1,058.92 162.00
20000 ¹⁾			1,093.92 169.00
22500 ¹⁾			1,368.58 210.00

- 1) Version with Wedge
- 2) Version with Wedge, without internal coolant supply
- 3) Without Through Coolant

OAKU / ONKU

Performance



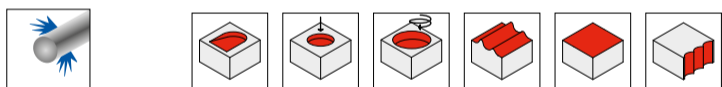
ISO	RE mm	Designation	PG	IM	Price (£)
060508ER	0.8	51 001 ...			
060508SR	0.8	108			27.35 16.00
080608SN	0.8	50 446 ...			
		550			37.32 22.00
		51 001 ...			
		408			27.35 16.00
		51 163 ...			
		10800			27.93 16.00
		51 163 ...			
		50800			27.93 16.00
		51 163 ...			
		20800			27.93 16.00

Material compatibility chart:

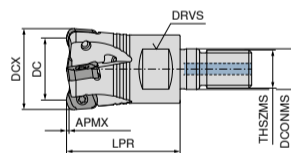
P	●	○	○	○	○
M	○	○	○	○	○
K	○	○	○	○	○
N	○	○	○	○	○
S	○	○	○	○	○
H	○	○	○	○	○
O	○	○	○	○	○

MaxiMill – HFCD high-feed screw-in cutter

▲ Programmed radius r3D = 2.0 mm



Performance

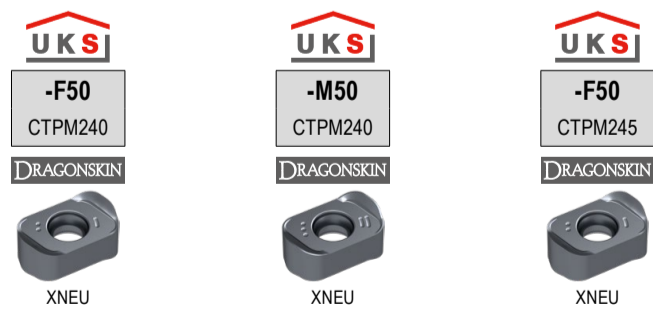


Designation	DC mm	DCX mm	ZNF	APMX mm	LPR mm	DCONMS mm	THSZMS	DRVS mm	RPMX 1/min.	torque moment Nm	Insert
GHFCD.16.R.02-06	10	16	2	0.8	27	8.5	M8	10	23500	1.2	XNEU 06T3..
GHFCD.20.R.03-06	14	20	3	0.8	33	10.5	M10	15	20200	1.2	XNEU 06T3..
GHFCD.25.R.04-06	19	25	4	0.8	35	12.5	M12	17	18100	1.2	XNEU 06T3..
GHFCD.32.R.05-06	26	32	5	0.8	35	17.0	M16	24	17300	1.2	XNEU 06T3..
GHFCD.35.R.06-06	29	35	6	0.8	35	17.0	M16	24	16100	1.2	XNEU 06T3..
GHFCD.42.R.06-06	36	42	6	0.8	35	17.0	M16	24	14100	1.2	XNEU 06T3..

Designation	PG	TO	Price (£)
50 357 ...			
01602			282.54 42.00
02003			328.26 48.00
02504			358.06 54.00
03205			396.72 60.00
03506			449.94 63.00
04206			496.36 66.00

XNEU

Performance



ISO	RE mm	Designation	PG	IM	Price (£)
06T318SER	1.8	51 260 ...			
		41800			15.42 9.00
		51 261 ...			
		41800			15.42 9.00
		51 260 ...			
		41801			28.43 12.00

Material compatibility chart:

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



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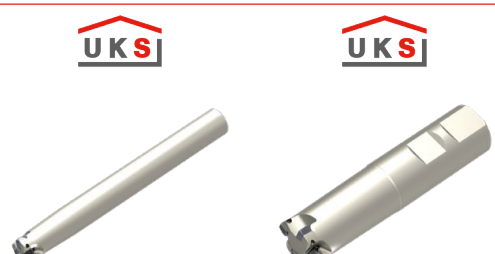
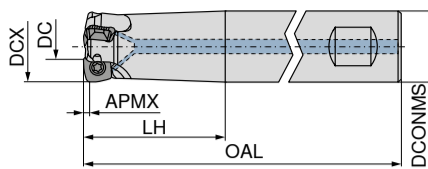
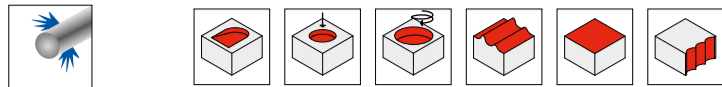


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MaxiMill – HFC high-feed end mill

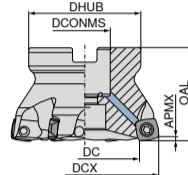
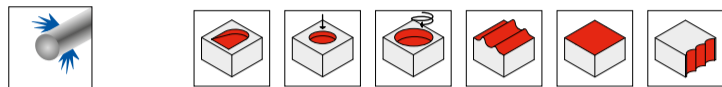


Performance

ISO designation	DC	DCX	OAL	LH	DCONMS _{H6}	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	mm	1/min.		
CHFC.16.R.02-06-A-40-200	7.0	16	200	40	16	0.8	4600	XPLX 0603..	2
CHFC.16.R.02-06-B-40	7.0	16	89	40	16	0.8	17300	XPLX 0603..	2
CHFC.20.R.03-06-A-50-225	11.0	20	225	50	20	0.8	4200	XPLX 0603..	3
CHFC.20.R.03-06-B-50	11.0	20	101	50	20	0.8	14500	XPLX 0603..	3
CHFC.25.R.02-09-A-50-225	12.3	25	225	50	25	1.0	9000	XDLX 09T3..	2
CHFC.25.R.03-09-A-50-225	12.3	25	225	50	25	1.0	9000	XDLX 09T3..	3
CHFC.32.R.02-12-A-63-250	14.8	32	250	63	32	2.0	6480	XOLX 1204..	2
CHFC.25.R.04-06-A-50-225	16.0	25	225	50	25	0.8	4600	XPLX 0603..	4
CHFC.25.R.04-06-B-50	16.0	25	107	50	25	0.8	15600	XPLX 0603..	4
CHFC.35.R.03-12-A-63-250	17.8	35	250	63	32	2.0	6480	XOLX 1204..	3
CHFC.32.R.03-09-A-63-250	19.3	32	250	63	32	1.0	8100	XDLX 09T3..	3
CHFC.32.R.05-06-A-25-60-225	23.0	32	225	60	25	0.8	3900	XPLX 0603..	5
CHFC.32.R.05-06-B-25-60	23.0	32	117	60	25	0.8	11000	XPLX 0603..	5

50 681 ...	PG	TO	50 681 ...	PG	TO
	£	£		£	£
716	281.99	41.00	616	281.99	41.00
720	320.26	47.00	620	320.26	47.00
025	337.72	50.00			
125	384.25	53.00			
132	384.25	52.00			
725	356.45	53.00	625	356.45	53.00
035	379.74	56.00			
032	379.74	56.00			
732	396.55	58.00	632	396.55	58.00

MaxiMill – HFC high-feed face mill



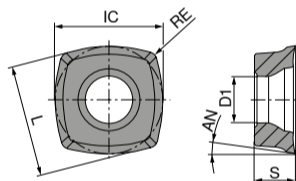
Performance

ISO designation	DC	DCX	OAL	DCONMS _{H6}	DHUB	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	mm	1/min.		
AHFC.32.R.03-09	19.3	32	40	16	38	1	27700	XDLX 09T3..	3
AHFC.35.R.04-09	19.3	35	40	16	38	1	26700	XDLX 09T3..	4
AHFC.40.R.04-09	27.3	40	40	16	38	1	26400	XDLX 09T3..	4
AHFC.42.R.05-09	29.3	42	40	16	38	1	26100	XDLX 09T3..	5
AHFC.50.R.05-09	37.3	50	40	22	43	1	23500	XDLX 09T3..	5
AHFC.52.R.06-09	39.3	52	40	22	43	1	23000	XDLX 09T3..	6
AHFC.63.R.06-09	50.3	63	40	22	48	1	20500	XDLX 09T3..	6
AHFC.66.R.07-09	53.3	66	40	22	48	1	20000	XDLX 09T3..	7
AHFC.40.R.03-12	22.8	40	40	16	38	2	21120	XOLX 1204..	3
AHFC.42.R.04-12	24.8	42	40	16	38	2	20880	XOLX 1204..	4
AHFC.50.R.04-12	32.8	50	40	22	43	2	18800	XOLX 1204..	4
AHFC.52.R.05-12	34.8	52	40	22	43	2	18400	XOLX 1204..	5
AHFC.63.R.05-12	45.8	63	40	22	48	2	16400	XOLX 1204..	5
AHFC.66.R.06-12	48.8	66	40	22	48	2	16000	XOLX 1204..	6
AHFC.80.R.07-12	62.8	80	50	27	58	2	14000	XOLX 1204..	7
AHFC.100.R.08-12	82.8	100	50	32	78	2	12000	XOLX 1204..	8

50 683 ...	PG	TO	50 683 ...	PG	TO
	£	£		£	£
032	379.74	56.00	040	395.24	58.00
035	403.42	59.00	042	420.02	62.00
140	420.02	62.00	050	466.02	69.00
142	447.25	65.00	052	494.02	73.00
150	464.02	73.00	063	548.25	80.00
152	518.25	77.00	066	566.42	84.00
163	566.42	84.00	080	642.93	95.00
16600	592.06	88.00	100	716.64	106.00

XPLX

Performance



-F40
CTC5240
DRAGONSKIN

-M50
CTPP235
DRAGONSKIN

-M50
CTPM240
DRAGONSKIN



XPLX

XPLX

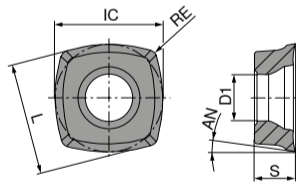
XPLX

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

50 518 ...	PG	MA	51 019 ...	PG	IM	51 019 ...	PG	IM
	£	£		£	£		£	£
558	48.29	10.00	105	43.74	8.00	405	43.74	8.00

XDLX

Performance



-F40
CTC5240
DRAGONSKIN

-M50
CTPP235
DRAGONSKIN

-M50
CTPM240
DRAGONSKIN



XDLX

XDLX

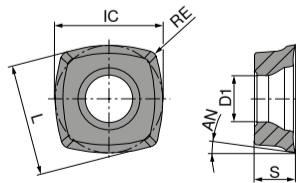
XDLX

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

50 503 ...	PG	MA	51 016 ...	PG	IM	51 016 ...	PG	IM
	£	£		£	£		£	£
558	48.66	11.00	108	44.17	8.00	408	44.17	8.00

XOHX / XOLX

Performance



-F50
CTC5240
DRAGONSKIN

-M50
CTPP235
DRAGONSKIN

-M50
CTPM240
DRAGONSKIN



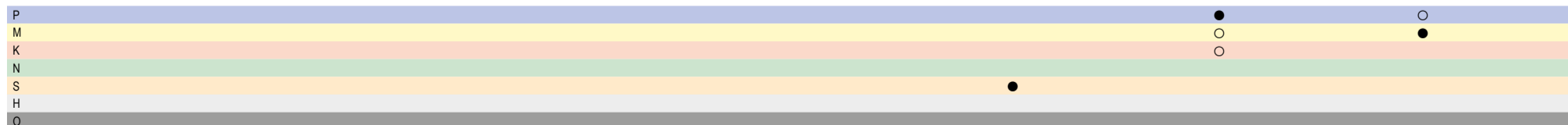
XOHX

XOLX

XOLX

ISO	RE	IC	D1	L	AN	S
	mm	mm	mm	mm	°	mm
120410SR	1.0	12.7	5.5	12	10	4.76

51 124 ...	PG	MA	51 017 ...	PG	IM	51 017 ...	PG	IM
	£	£		£	£		£	£
16000	28.36	17.00	110	46.00	10.00	410	46.00	10.00



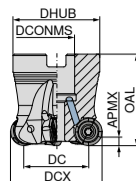
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MaxiMill – 252 Shell mill



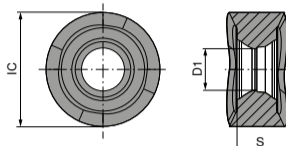
Performance

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..
A252.66.R.07-12	54	66	7	3	40	48	22	3,2	RNHU 1205..
A252.80.R.08-12	68	80	8	3	50	58	27	3,2	RNHU 1205..
A252.100.R.10-12	88	100	10	3	50	78	32	3,2	RNHU 1205..
A252.125.R.12-12	113	125	12	3	63	88	40	3,2	RNHU 1205..

50 689 ...	PG	TO
240	£	£
250	£	£
252	£	£
263	£	£
266	£	£
280	£	£
30000	£	£
32500	£	£

RNHU

Designation	IC mm	D1 mm	S mm
RNHU 1205..	12	4.4	5.3



RNHU

Performance



-M32
CTPM245

DRAGONSKIN



RNHU



-M31
CTC5240

DRAGONSKIN



RNHU

ISO	51 107 ...	PG	IM	50 521 ...	PG	MA
1205M4ER	475	£	£	552	£	£
		33.02	19.00		33.02	19.00
P						
M						
K						
N						
S						
H						
O						



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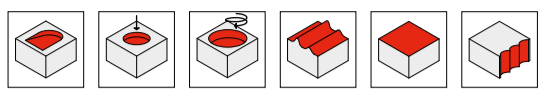


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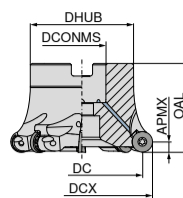


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MaxiMill – 251 RS Shell mill



Performance

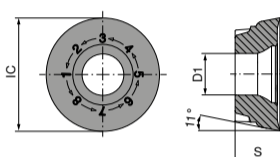


ISO designation	DCX mm	DC mm	OAL mm	APMX mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	Insert	ZNF
A251.40.R.05-10-RS	40	30	40	5	38	16	16000	RP.X 10T3..	5
A251.42.R.06-10-RS	42	32	40	5	38	16	16000	RP.X 10T3..	6
A251.50.R.06-10-RS	50	40	40	5	43	22	12500	RP.X 10T3..	6
A251.52.R.06-10-RS	52	42	40	5	43	22	12500	RP.X 10T3..	6
A251.40.R.04-12-RS	40	28	40	6	38	16	15900	RP.X 1204..	4
A251.50.R.05-12-RS	50	38	40	6	43	22	12500	RP.X 1204..	5
A251.52.R.05-12-RS	52	40	40	6	43	22	12500	RP.X 1204..	5
A251.63.R.06-12-RS	63	51	40	6	48	22	10000	RP.X 1204..	6
A251.66.R.07-12-RS	66	54	40	6	48	22	9000	RP.X 1204..	7
A251.80.R.07-12-RS	80	68	50	6	58	27	8000	RP.X 1204..	7
A251.100.R.10-12-RS	100	88	50	6	78	32	6350	RP.X 1204..	10

50 686 ...	PG	TO
£	£	£
140	435.25	64.00
142	500.26	74.00
150	547.63	76.00
152	547.63	76.00
340	400.33	59.00
050	485.00	72.00
052	500.72	75.00
063	500.94	89.00
166	632.44	93.00
080	676.73	100.00
200	802.68	132.00

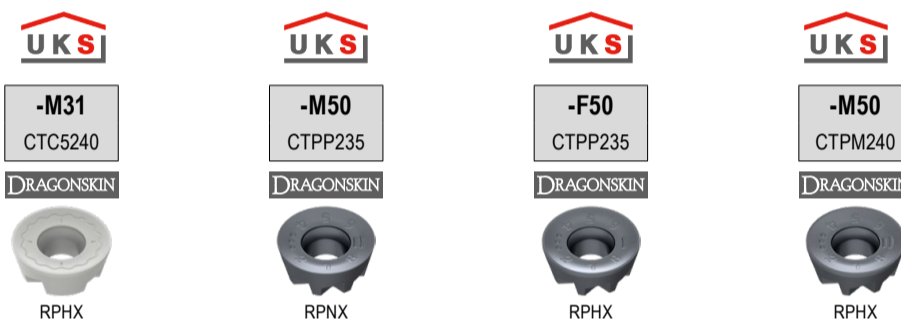
RPHX / RPNX

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



ISO	50 493 ... PG MA		51 054 ... PG IM		51 051 ... PG IM		51 050 ... PG IM	
	£	£	£	£	£	£	£	£
10T3M4EN	550	10.68 11.00						
10T3M8EN	551	10.68 11.00						
10T3M8SN			12000	10.88 6.00	12000	14.28 8.00	420	14.28 8.00
1204M4EN	552	21.68 13.00						
1204M6EN	56200	21.68 13.00						
1204M8EN	582	21.68 13.00						
1204M8SN			125	12.50 7.00	125	15.65 9.00	425	15.65 9.00

1) Insert with 4 indexes

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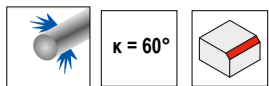
For CNC machine shops, accurately calculating manufacturing times and costs for quoting is more than just a tedious sales task – it's a key driver of profitability and long-term success. But in reality, this process can quickly become complex and time-consuming, especially when responding to urgent customer requests with multiple parts that fall outside your usual expertise.

With the automated quoting software Spanflug MAKE, you can calculate milling and turning parts with just a few clicks. The software also enables you to confidently quote unfamiliar parts and explore new customer segments — giving you a clear competitive advantage.

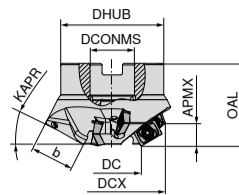


MaxiMill – 242 Chamfer Cutter

▲ 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...

50 768 ...	PG	TO
£	£	£
13003	460.62	68.00
14503	460.62	68.00
11503	460.62	68.00
16003	460.62	68.00
17503 ¹⁾	460.62	68.00

1) Version with Powerscrew

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

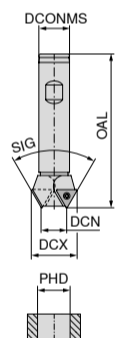
51 157 ...	PG	IM
£	£	£
00802	24.05	14.00

Indexable chamfer milling 90°

Scope of supply:

Indexable insert countersink including clamping screws

Performance



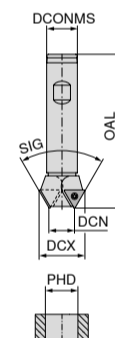
DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 196 ...	PG	TO
19	7	9.5	2	16	100	TOHX 090204	19000	£	£
23	11	12.0	2	16	100	TOHX 090204	23000	264.54	50.00
26	11	12.0	1	16	100	TOHX 090204	26000	268.23	50.00
30	12	13.0	2	20	100	TOHX 140305	30000	270.64	50.00
34	16	17.0	2	20	100	TOHX 140305	34000	283.11	50.00
37	19	20.0	2	20	100	TOHX 140305	37000	287.93	50.00

Indexable chamfer milling 60°

Scope of supply:

Indexable insert countersink including clamping screws

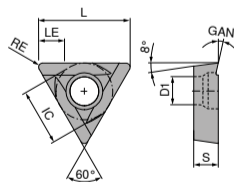
Performance



DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 197 ...	PG	TO
16.5	8.1	8.5	1	16	100	TOHX 090204	16500	£	£
20.0	11.6	12.0	2	16	100	TOHX 090204	20000	268.23	50.00
22.0	13.6	14.0	2	16	100	TOHX 090204	22000	270.64	50.00
23.5	15.1	15.5	2	16	100	TOHX 090204	23500	283.11	50.00
25.5	17.1	17.5	2	16	100	TOHX 090204	25500	287.93	50.00

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	IH
£	£	£
31400	24.54	14.00
30200	24.11	12.00
31800	23.85	14.00
32600	26.08	16.00

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



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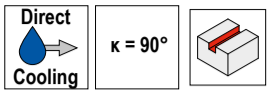
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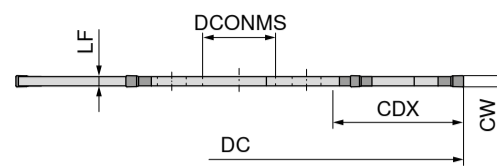
MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

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



Performance



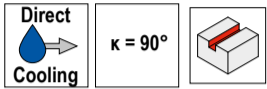
Designation	DC mm	CW mm	CDX mm	DCONMS _{HS} mm	DHUB mm	OAL mm	ZFP	Insert	Adapter
ASLOT.80.R.6.13.DC-SX2	80	2	23	13	32	2.675	6	SX E2 ..	AD.SLOT.13...
ASLOT.80.R.6.13.DC-SX3	80	3	23	13	32	2.750	6	SX E3 ..	AD.SLOT.13...
ASLOT.80.R.4.13.DC-SX4	80	4	23	13	32	3.750	4	SX E4 ..	AD.SLOT.13...
ASLOT.80.R.4.13.DC-SX5	80	5	23	13	32	4.750	4	SX E5 ..	AD.SLOT.13...

50 383 ...		PG	TO
£	£		
08002	585.35		92.00
08003	585.35		92.00
08004	585.35		92.00
08005	585.35		92.00

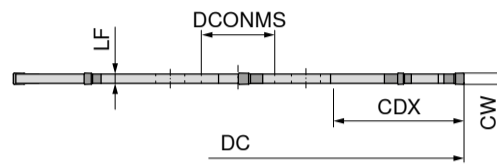
MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

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



Performance



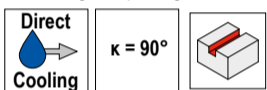
Designation	DC mm	CW mm	CDX mm	DCONMS _{HS} mm	DHUB mm	OAL mm	ZFP	Insert	Adapter
ASLOT.100.R.8.22.DC-SX2	100	2	29	22	40	2.675	8	SX E2 ..	AD.SLOT.22...
ASLOT.100.R.8.22.DC-SX3	100	3	29	22	40	2.750	8	SX E3 ..	AD.SLOT.22...
ASLOT.100.R.6.22.DC-SX4	100	4	29	22	40	3.750	6	SX E4 ..	AD.SLOT.22...
ASLOT.100.R.6.22.DC-SX5	100	5	29	22	40	4.750	6	SX E5 ..	AD.SLOT.22...
ASLOT.100.R.4.22.DC-SX6	100	6	29	22	40	5.700	4	SX E6 ..	AD.SLOT.22...

50 384 ...		PG	TO
£	£		
10002	788.45		122.00
10003	788.45		122.00
10004	788.45		122.00
10005	788.45		122.00
10006	788.45		122.00

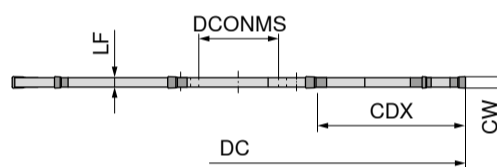
MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

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



Performance



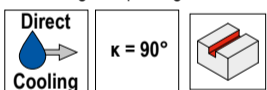
Designation	DC mm	CW mm	CDX mm	DCONMS _{HS} mm	DHUB mm	OAL mm	ZFP	Insert	Adapter
ASLOT.125.R.10.22.DC-SX2	125	2	42	22	40	2.675	10	SX E2 ..	AD.SLOT.22...
ASLOT.125.R.10.22.DC-SX3	125	3	42	22	40	2.750	10	SX E3 ..	AD.SLOT.22...

50 385 ...		PG	TO
£	£		
12502	975.24		153.00
12503	975.24		153.00

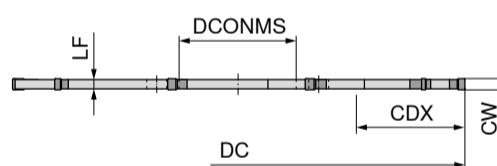
MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

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



Performance



Designation	DC mm	CW mm	CDX mm	DCONMS _{HS} mm	DHUB mm	OAL mm	ZFP	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	63	2.750	10	SX E3 ..	AD.SLOT.32...
ASLOT.125.R.8.32.DC-SX4	125	4	30	32	63	3.750	8	SX E4 ..	AD.SLOT.32...
ASLOT.125.R.8.32.DC-SX5	125	5	30	32	63	4.750	8	SX E5 ..	AD.SLOT.32...
ASLOT.125.R.8.32.DC-SX6	125	6	30	32	63	5.700	8	SX E6 ..	AD.SLOT.32...

50 386 ...		PG	TO
£	£		
12502	975.24		153.00
12503	975.24		153.00
12504	975.24		153.00
12505	975.24		153.00
12506	975.24		153.00

Spare parts

Insert	£	70 950 ...
SX E2 ..	22.00	836
SX E3 ..	22.00	836
SX E4 ..	22.00	837
SX E5 ..	22.00	837
SX E6 ..	22.00	837



Ejector SX

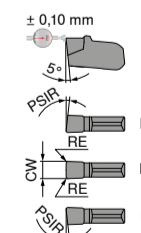
Insert SX

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



F M R

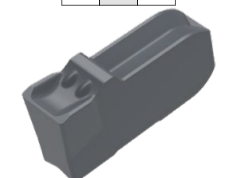
Performance



-M1

CTP1340

DRAGONSKIN



MaxiMill – Slot-SX multipurpose milling cutter adapter

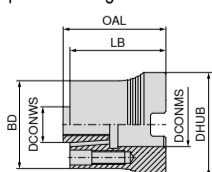


Scope of supply:

Multipurpose milling cutter adapter including screws



Performance



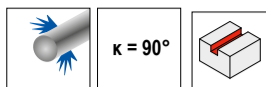
Designation	DCONMS mm	DCONWS _{HS} mm	LB mm	OAL mm	BD mm	50 395 ...	PG	TO
						£		£
AD.SLOT.13.32.A16	16	13	35	37.5	32	01300		287.00 28.00
AD.SLOT.22.40.A22	22	22	35	37.5	40	02200		242.00 29.00
AD.SLOT.32.63.A27	27	32	45	47.5	63	03200		335.00 32.00
AD.SLOT.40.80.A32.SK	32	40	55	57.5	80	04000		388.00 40.00
AD.SLOT.40.80.A32.ZK	32	40	55	57.5	80	04100		388.00 40.00

Designation	IH	CW ^{+/-0.05} mm	for tool holder	70 342 ...	PG	IG
				£		£
SX E2.00 N 0.20	N	2	-SX2	622		44.00 9.00
SX E3.00 N 0.20	N	3	-SX3	623		45.00 10.00
SX E4.00 N 0.30	N	4	-SX4	624		46.00 10.00
SX E5.00 N 0.30	N	5	-SX5	625		47.00 11.00
SX E6.00 N 0.40	N	6	-SX6	626		48.00 12.00

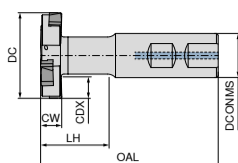
P	•
M	•
K	•
N	○
S	•
H	•
O	○



MaxiMill – Slot-SNHX cylindrical shank saw

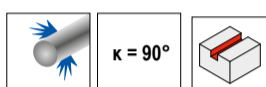


Performance

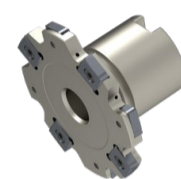
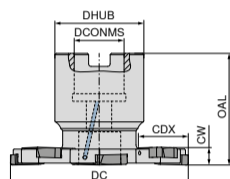


Designation	DC mm	CW mm	CDX mm	OAL mm	LH mm	DCONMS mm	ZNF	Insert	50 372 ... PG TO	
									£	£
CSLOT.50.R.04-SN13-06-DC-B20-42	50	6	13	95	42	20	4	SNHX 1303..	05006	445.05 67.00
CSLOT.63.R.06-SN13-06-DC-B25-41	63	6	18	100	41	25	6	SNHX 1303..	06306	595.03 89.00
CSLOT.80.R.08-SN13-06-DC-B32-48	80	6	22	110	48	32	8	SNHX 1303..	08006	744.93 112.00
CSLOT.100.R.10-SN13-06-DC-B40-52	100	6	29	125	52	40	10	SNHX 1303..	10006	890.10 134.00
CSLOT.50.R.04-SN13-08-DC-B20-42	50	8	13	95	42	20	4	SNHX 1304..	05008	445.05 67.00
CSLOT.63.R.06-SN13-08-DC-B25-41	63	8	18	100	41	25	6	SNHX 1304..	06308	595.03 89.00
CSLOT.80.R.08-SN13-08-DC-B32-48	80	8	22	110	48	32	8	SNHX 1304..	08008	744.93 112.00
CSLOT.100.R.10-SN13-08-DC-B40-52	100	8	29	125	52	40	10	SNHX 1304..	10008	890.10 134.00
CSLOT.50.R.04-SN13-10-DC-B20-42	50	10	13	95	42	20	4	SNHX 1305..	05010	445.05 67.00
CSLOT.63.R.06-SN13-10-DC-B25-41	63	10	18	100	41	25	6	SNHX 1305..	06310	595.03 89.00
CSLOT.80.R.08-SN13-10-DC-B32-48	80	10	22	110	48	32	8	SNHX 1305..	08010	744.93 112.00
CSLOT.100.R.10-SN13-10-DC-B40-52	100	10	29	125	52	40	10	SNHX 1305..	10010	890.10 134.00
CSLOT.50.R.04-SN13-12-DC-B20-42	50	12	13	95	42	20	4	SNHX 1307..	05012	445.05 67.00
CSLOT.63.R.06-SN13-12-DC-B25-41	63	12	18	100	41	25	6	SNHX 1307..	06312	595.03 89.00
CSLOT.80.R.08-SN13-12-DC-B32-48	80	12	22	110	48	32	8	SNHX 1307..	08012	744.93 112.00
CSLOT.100.R.10-SN13-12-DC-B40-52	100	12	29	125	52	40	10	SNHX 1307..	10012	890.10 134.00

MaxiMill – Slot-SNHX slot milling and parting off cutter



Performance



Designation	DC mm	CW mm	CDX mm	OAL mm	DCONMS mm	DHUB mm	ZNF	Insert	50 374 ... PG TO	
									£	£
ASLOT.80.R.08-SN13-06-DC-A22	80	6	22.0	50	22	40	8	SNHX 1303..	08006	730.48 110.00
ASLOT.100.R.10-SN13-06-DC-A27	100	6	25.0	50	27	48	10	SNHX 1303..	10006	872.04 131.00
ASLOT.125.R.12-SN13-06-DC-A32	125	6	31.5	50	32	58	12	SNHX 1303..	12506	1,025.98 154.00
ASLOT.160.R.16-SN13-06-DC-A40	160	6	41.5	50	40	70	16	SNHX 1303..	16006	1,169.60 175.00
ASLOT.200.R.18-SN13-06-DC-A40	200	6	52.0	50	40	88	18	SNHX 1303..	20006	1,345.80 197.00
ASLOT.80.R.08-SN13-08-DC-A22	80	8	22.0	50	22	40	8	SNHX 1304..	08008	730.48 110.00
ASLOT.100.R.10-SN13-08-DC-A27	100	8	25.0	50	27	48	10	SNHX 1304..	10008	872.04 131.00
ASLOT.125.R.12-SN13-08-DC-A32	125	8	31.5	50	32	58	12	SNHX 1304..	12508	1,025.98 154.00
ASLOT.160.R.16-SN13-08-DC-A40	160	8	41.5	50	40	70	16	SNHX 1304..	16008	1,169.60 175.00
ASLOT.200.R.18-SN13-08-DC-A40	200	8	52.0	50	40	88	18	SNHX 1304..	20008	1,345.80 197.00
ASLOT.80.R.08-SN13-10-DC-A22	80	10	22.0	50	22	40	8	SNHX 1305..	08010	730.48 110.00
ASLOT.100.R.10-SN13-10-DC-A27	100	10	25.0	50	27	48	10	SNHX 1305..	10010	872.04 131.00
ASLOT.125.R.12-SN13-10-DC-A32	125	10	31.5	50	32	58	12	SNHX 1305..	12510	1,025.98 154.00
ASLOT.160.R.16-SN13-10-DC-A40	160	10	41.5	50	40	70	16	SNHX 1305..	16010	1,169.60 175.00
ASLOT.200.R.18-SN13-10-DC-A40	200	10	52.0	50	40	88	18	SNHX 1305..	20010	1,345.80 197.00
ASLOT.80.R.08-SN13-12-DC-A22	80	12	22.0	50	22	40	8	SNHX 1307..	08012	730.48 110.00
ASLOT.100.R.10-SN13-12-DC-A27	100	12	25.0	50	27	48	10	SNHX 1307..	10012	872.04 131.00
ASLOT.125.R.12-SN13-12-DC-A32	125	12	31.5	50	32	58	12	SNHX 1307..	12512	1,025.98 154.00
ASLOT.160.R.16-SN13-12-DC-A40	160	12	41.5	50	40	70	16	SNHX 1307..	16012	1,169.60 175.00
ASLOT.200.R.18-SN13-12-DC-A40	200	12	52.0	50	40	88	18	SNHX 1307..	20012	1,345.80 197.00
ASLOT.80.R.08-SN13-16-DC-A22	80	16	22.0	50	22	40	8	SNHX 1309..	08016	730.48 110.00
ASLOT.80.R.08-SN13-14-DC-A22	80	14	22.0	50	22	40	8	SNHX 1309..	08014	730.48 110.00
ASLOT.100.R.10-SN13-14-DC-A27	100	14	25.0	50	27	48	10	SNHX 1309..	10014	872.04 131.00
ASLOT.100.R.10-SN13-16-DC-A27	100	16	25.0	50	27	48	10	SNHX 1309..	10016	872.04 131.00
ASLOT.125.R.12-SN13-16-DC-A32	125	16	31.5	50	32	58	12	SNHX 1309..	12516	1,025.98 154.00
ASLOT.125.R.12-SN13-14-DC-A32	125	14	31.5	50	32	58	12	SNHX 1309..	12514	1,025.98 154.00
ASLOT.160.R.16-SN13-16-DC-A40	160	16	41.5	50	40	70	16	SNHX 1309..	16016	1,169.60 175.00
ASLOT.160.R.16-SN13-14-DC-A40	160	14	41.5	50	40	70	16	SNHX 1309..	16014	1,169.60 175.00
ASLOT.200.R.18-SN13-14-DC-A40	200	14	52.0	50	40	88	18	SNHX 1309..	20014	1,345.80 197.00
ASLOT.200.R.18-SN13-16-DC-A40	200	16	52.0	50	40	88	18	SNHX 1309..	20016	1,345.80 197.00

SNHX

Performance



ISO	RE mm	51 263 ... PG IM		51 264 ... PG IM		51 265 ... PG IM		51 266 ... PG IM		51 267 ... PG IM	
		£	£	£	£	£	£	£	£	£	£
130308EL	0.8	40800	45.50 9.00								
130308ER	0.8	41800	45.50 9.00								
130408EL	0.8			40800	46.02 9.00						
130408ER	0.8			41800	46.02 9.00						
130508EL	0.8					40800	46.37 9.00				
130508ER	0.8					41800	46.37 9.00				
130708EL	0.8							40800	47.20 10.00		
130708ER	0.8							41800	47.20 10.00		
130908EL	0.8									40800	47.72 10.00
130908ER	0.8									41800	47.72 10.00



CLAMPING TECHNOLOGY



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



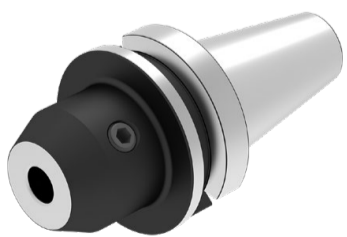
VDI – Full range



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

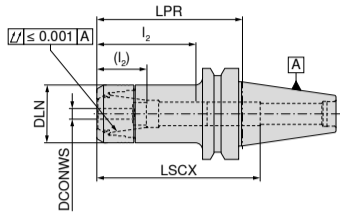
ER Precision Collet chuck – Centro-P

- ▲ 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

Centro-P Performance



G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	LSCX	l ₂ (l ₂)	for collet	84 524 ... PG CT		
	mm	mm	mm	mm	mm		£	£	£
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	210	444.97	56.00
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	310	424.44	66.00
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	410	487.87	90.00
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	510	185.93	97.00
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	116	148.16	63.00
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	216	144.97	56.00
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	316	124.44	66.00
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	416	186.34	97.00
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	516	197.89	104.00
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	616	247.54	120.00
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	120	148.16	63.00
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	220	144.97	56.00
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	320	124.44	66.00
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	420	186.34	97.00
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	520	197.89	104.00

- 1 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 CT		
	mm	£	£	£
426E / ER 16 CP	30	027	74.44	44.00
430E / ER 25 CP	40	054	74.61	51.00
470E / ER 32 CP + STD	50	056	74.61	48.00

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

Performance

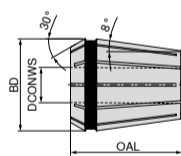


for collet	84 950 ... PG CT		
	£	£	£
426E (ER16)	001	34.81	22.00
430E (ER25)	003	38.54	24.00
470E (ER32)	005	46.99	26.00

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

ER-B
2 μm Performance



DCONWS	BD = 17 OAL = 27.5 426 E / ER16			BD = 26 OAL = 34 430 E / ER25			BD = 33 OAL = 40 470 E / ER32		
	mm	£	£	£	£	£	£	£	
1.0	010	76.54	36.00						
1.1	011	120.96	64.00						
1.2	012	120.96	64.00						
1.4	014	120.96	64.00						
1.5	015	76.54	36.00						
1.6	016	120.96	64.00						
1.8	018	120.96	64.00						
2.0	020	57.58	31.00	020	59.38	32.00	020	60.06	32.00
2.2	022	106.36	57.00						
2.4	024	106.36	57.00						
2.5	025	57.58	31.00	025	59.38	32.00			
2.6	026	106.36	57.00						
2.8	028	106.36	57.00						
3.0	030	49.42	26.00	030	50.36	27.00	030	54.00	27.00
3.2	032	94.54	50.00						
3.4	034	94.54	45.00						
3.5	035	70.29	33.00	035	73.99	35.00			
3.6	036	94.54	50.00						
3.8	038	94.54	50.00						
4.0	040	49.42	26.00	040	50.36	27.00	040	54.00	27.00
4.5	045	70.29	33.00	045	73.99	35.00			
5.0	050	49.42	26.00	050	50.36	27.00	050	54.00	27.00
5.5	055	70.29	33.00	055	73.99	35.00			
5.6	056	94.54	50.00						
6.0	060	49.42	26.00	060	50.36	27.00	060	54.00	27.00
6.3	063	94.54	50.00						
6.5	065	70.29	33.00	065	73.99	35.00			

- 1) Clamping range covered: H10 corresponding to shank Ø DCONWS

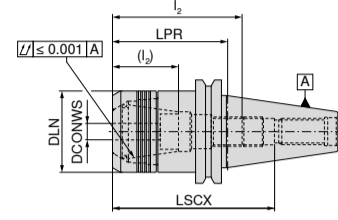
ER Precision Collet chuck – Centro-P

- ▲ 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

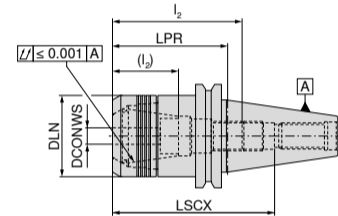
Centro-P Performance



G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	LSCX	l ₂ (l ₂)	for collet	84 414 ... PG CT		
	mm	mm	mm	mm	mm		£	£	£
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)	510	470.37	91.00
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)	910	492.73	101.00
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)	816	436.54	83.00
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)	516	492.73	99.00
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)	916	295.29	105.00
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)	620	492.73	99.00
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)	920	295.29	105.00
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)	520	247.54	170.00
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)	720	354.49	277.00

Centro-P Performance



G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	LSCX	l ₂ (l ₂)	for collet	84 424 ... PG CT		
	mm	mm	mm	mm	mm		£	£	£
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	102	444.97	73.00
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	103	424.44	90.00
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	162	444.97	68.00
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	163	424.44	90.00
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	201	448.16	89.00
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	202	444.97	63.00
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	203	424.44	90.00
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	261	440.36	102.00
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	167	247.54	170.00

- 1) Non standard groove before tool change collar not according to DIN, not suitable for automatic tool change



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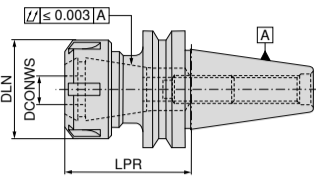
ER-Collet chuck

▲ 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	82 509 ...	
							PG	CX
short	BT 40	1 - 10	60	32	56	426E (ER16)	110	£ 27.00
	BT 40	1 - 16	70	42	104	430E (ER25)	116	£ 28.00
	BT 40	2 - 20	70	50	136	470E (ER32)	120	£ 28.00
	BT 40	3 - 26	70	63	176	472E (ER40)	126	£ 29.00
medium length	BT 40	1 - 10	120	32	56	426E (ER16)	410	£ 30.00
	BT 40	1 - 16	120	42	104	430E (ER25)	416	£ 31.00
	BT 40	2 - 20	120	50	136	470E (ER32)	420	£ 31.00

Shell mill adapter

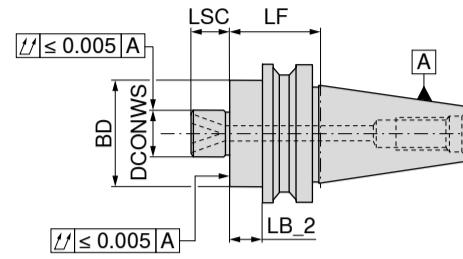
▲ With fixed drive dogs and enlarged contact face for milling cutters with transverse groove

▲ 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	82 514 ...	
							PG	CX
short	BT 40	16	25	52	38	17	116	£ 27.00
	BT 40	22	25	52	48	19	122	£ 28.00
	BT 40	27	25	52	58	21	127	£ 29.00
	BT 40	32	23	50	78	24	132	£ 30.00
	BT 40	40	23	50	88	27	140 ¹⁾	£ 33.00

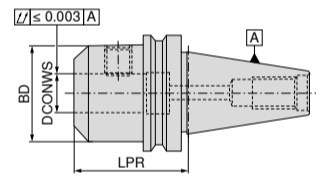
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

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 ₁₄ mm	LPR mm	BD mm	82 501 ...	
					PG	CX
short	BT 40	6	50	25	106	£ 19.00
	BT 40	8	50	28	108	£ 19.00
	BT 40	10	63	35	110	£ 18.00
	BT 40	12	63	42	112	£ 18.00
	BT 40	14	63	44	114	£ 18.00
	BT 40	16	63	48	116	£ 20.00
	BT 40	18	63	50	118	£ 20.00
	BT 40	20	63	52	120	£ 20.00
	BT 40	25	100	65	125	£ 22.00
	BT 40	32	100	72	132 ¹⁾	£ 24.00
medium length	BT 40	6	100	25	506	£ 20.00
	BT 40	8	100	28	508	£ 20.00
	BT 40	10	100	35	510	£ 19.00
	BT 40	12	100	42	512	£ 19.00
	BT 40	14	100	44	514	£ 19.00
	BT 40	16	100	48	516	£ 21.00
	BT 40	18	100	50	518	£ 21.00
	BT 40	20	100	52	520	£ 21.00
extra-long	BT 40	6	160	25	606	£ 23.00
	BT 40	8	160	28	608	£ 23.00
	BT 40	10	160	35	610	£ 22.00
	BT 40	12	160	42	612	£ 22.00
	BT 40	14	160	44	614	£ 22.00
	BT 40	16	160	48	616	£ 22.00
	BT 40	18	160	50	618	£ 22.00
	BT 40	20	160	52	620	£ 22.00
	BT 40	25	160	65	625 ¹⁾	£ 24.00

1) Version with two grub screws

Spare parts can be found in → Chapter 16 Adaptors and accessories in the clamping technology catalogue.

HyTens – Compact

▲ Hydraulic chuck, short and stable version

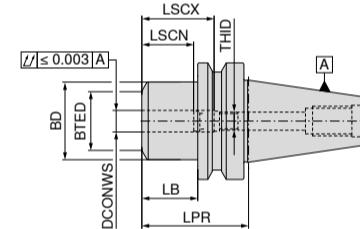
▲ for solid carbide and HSS shanks to h6 tolerance or better

▲ 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	CT
BT 40	12	58.0	42	32	31.0	36	46	M8x1	01269	£ 119.00
BT 40	20	72.5	49	38	45.5	41	51	M16x1	02069	£ 119.00
BT 50	20	83.5	49	38	45.5	41	51	M16x1	02068	£ 212.00



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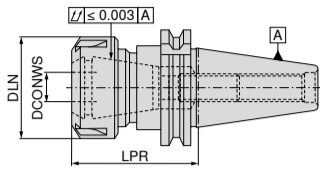
ER Collet chuck

▲ 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	82 415 ...	
							PG	CX
short	SK 40	1 - 10	60	32	56	426E (ER16)	110	£ 27.00
	SK 40	1 - 16	70	42	104	430E (ER25)	116	£ 28.00
	SK 40	2 - 20	70	50	136	470E (ER32)	120	£ 28.00
	SK 40	3 - 26	70	63	176	472E (ER40)	126	£ 29.00
medium length	SK 40	1 - 10	120	32	56	426E (ER16)	410	£ 30.00
	SK 40	1 - 16	120	42	104	430E (ER25)	416	£ 31.00
	SK 40	2 - 20	120	50	136	470E (ER32)	420	£ 31.00

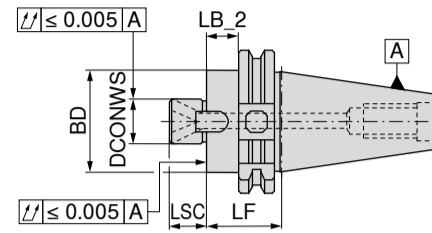
Shell mill adapter

▲ 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

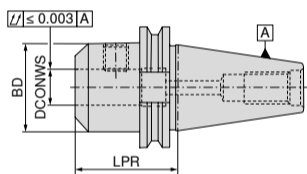
Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 428 ...	
							PG	CX
short	SK 40	16	25	44	38	17	116	£ 27.00
	SK 40	22	25	44	48	19	122	£ 28.00
	SK 40	27	36	55	58	21	127	£ 29.00
	SK 40	32	31	50	78	24	132	£ 30.00
	SK 40	40	31	50	88	27	140 ¹⁾	£ 33.00

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

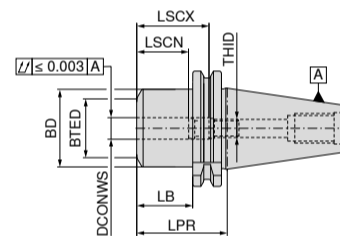


AD/B
G 2,5 n_{max} 25000

Version	Adapter	DCONWS ¹⁾ mm	LPR mm	BD mm	82 401 ...	
					PG	CX
short	SK 40	6	50	25	106	£ 19.00
	SK 40	8	50	28	108	£ 19.00
	SK 40	10	50	35	110	£ 18.00
	SK 40	12	50	42	112	£ 18.00
	SK 40	14	50	44	114	£ 18.00
	SK 40	16	63	48	116	£ 20.00
	SK 40	18	63	50	118	£ 20.00
	SK 40	20	63	52	120	£ 20.00
	SK 40	25	100	65	125 ¹⁾	£ 22.00
medium length	SK 40	32	100	72	132 ¹⁾	£ 24.00
	SK 40	6	100	25	506	£ 20.00
	SK 40	8	100	28	508	£ 20.00
	SK 40	10	100	35	510	£ 19.00
	SK 40	12	100	42	512	£ 19.00
	SK 40	14	100	44	514	£ 19.00
	SK 40	16	100	48	516	£ 21.00
	SK 40	18	100	50	518	£ 21.00
extra-long	SK 40	20	100	52	520	£ 21.00
	SK 40	6	160	25	606	£ 23.00
	SK 40	8	160	28	608	£ 23.00
	SK 40	10	160	35	610	£ 22.00
	SK 40	12	160	42	612	£ 22.00
	SK 40	14	160	44	614	£ 22.00
	SK 40	16	160	48	616	£ 22.00
	SK 40	18	160	50	618	£ 22.00
SK 40	20	160	52	620	£ 22.00	
SK 40	25	160	65	625 ¹⁾	£ 24.00	

1) Version with two grub screws

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	CT
SK 40	12	50.0	42	32	31.0	46	56	M8x1	01279	£ 119.00
SK 40	20	64.5	49	38	45.5	41	51	M16x1	02079	£ 119.00
SK 50	20	64.5	49	38	45.5	41	51	M16x1	02078	£ 212.00

Spare parts can be found in → Chapter 16 Adaptors and accessories in the clamping technology catalogue.

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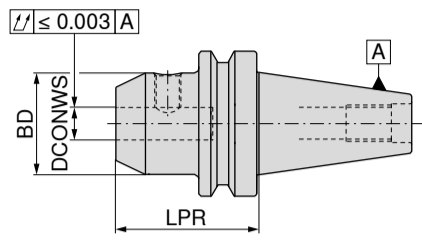


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Cylindrical shank adapter (Weldon) – BT-FC

- ▲ with face contact
- ▲ for shanks according to DIN 6355 / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip on request

Standard



G 2,5 n_{max} 25000

Version	Adapter	DCONWS _{1/4} mm	LPR mm	BD mm	82 741 ... PG CT	
					£	£
short	BT-FC 30	6	50	25	10665	93.05 62.00
	BT-FC 30	8	50	28	10865	93.05 62.00
	BT-FC 30	10	50	35	11065	93.05 62.00
	BT-FC 30	12	55	42	11265	93.05 62.00
	BT-FC 30	16	63	48	11665	99.76 67.00
	BT-FC 30	20	63	52	12065	99.76 67.00
	BT-FC 40	6	50	25	10664	117.01 79.00
	BT-FC 40	8	50	28	10864	113.05 76.00
	BT-FC 40	10	63	35	11064	113.05 76.00
	BT-FC 40	12	63	42	11264	113.05 76.00
	BT-FC 40	16	63	48	11664	113.05 76.00
	BT-FC 40	20	63	52	12064	113.05 76.00
	BT-FC 40	25	100	65	12564 ¹⁾	151.79 102.00
	BT-FC 40	32	100	72	13264 ¹⁾	151.79 102.00
	BT-FC 50	6	63	25	10663	175.18 117.00
	BT-FC 50	8	63	28	10863	169.04 114.00
	BT-FC 50	10	80	35	11063	169.04 114.00
	BT-FC 50	12	80	42	11263	169.04 114.00
	BT-FC 50	16	80	48	11663	169.04 114.00
	BT-FC 50	20	80	52	12063	169.04 114.00
BT-FC 50	25	100	65	12563 ¹⁾	194.53 130.00	
BT-FC 50	32	105	72	13263 ¹⁾	194.53 130.00	

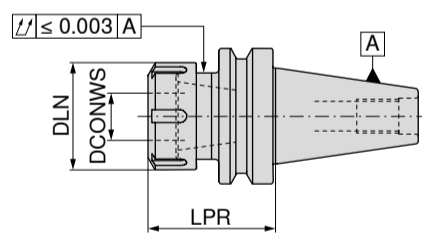
1) Version with two grub screws

ER Collet chuck – BT-FC

- ▲ with face contact
- ▲ also available with Balluff chip on request

Scope of supply:
Toolholder including nut

Standard



G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 743 ... PG CT	
							£	£
short	BT-FC 30	1 - 10	63	32	56	426E (ER16)	11065	164.02 70.00
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	11665	164.02 70.00
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	12065	164.02 70.00
	BT-FC 40	1 - 10	63	32	56	426E (ER16)	11064	132.18 89.00
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	11664	132.18 89.00
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	12064	132.18 89.00
	BT-FC 50	1 - 10	100	32	56	426E (ER16)	11063	188.26 121.00
	BT-FC 50	1 - 16	75	42	104	430E (ER25)	11663	188.26 121.00
	BT-FC 50	2 - 20	75	50	136	470E (ER32)	12063	188.26 121.00

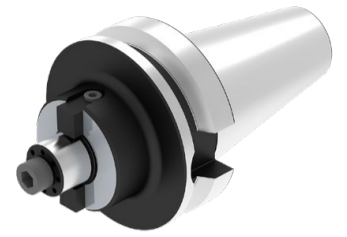
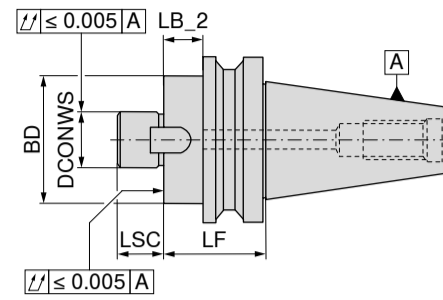
Spare parts can be found in → Chapter 16 Adaptors and accessories in the clamping technology catalogue.



Shell mill adapter – BT-FC

- ▲ with face contact
- ▲ with fixed drive dogs and enlarged contact face for milling cutters with transverse slot
- ▲ also available with Balluff chip on request

Standard



G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 745 ... PG CT	
							£	£
short	BT-FC 30	16	18	40	40	17	11665	102.34 69.00
	BT-FC 30	22	18	40	50	19	12265	102.34 69.00
	BT-FC 30	27	28	50	60	21	12765	102.34 69.00
	BT-FC 30	32	28	50	80	24	13265	102.34 69.00
	BT-FC 40	16	25	52	40	17	11664	123.07 82.00
	BT-FC 40	22	25	52	50	19	12264	123.07 82.00
	BT-FC 40	27	25	52	60	21	12764	123.07 82.00
	BT-FC 40	32	23	50	80	24	13264	123.07 82.00
	BT-FC 40	40	23	50	89	27	14064	123.07 82.00
	BT-FC 50	22	25	63	50	19	12263	142.76 96.00
	BT-FC 50	27	25	63	60	21	12763	142.76 96.00
	BT-FC 50	32	22	60	80	24	13263	151.79 102.00
	BT-FC 50	40	22	60	89	27	14063	151.79 102.00

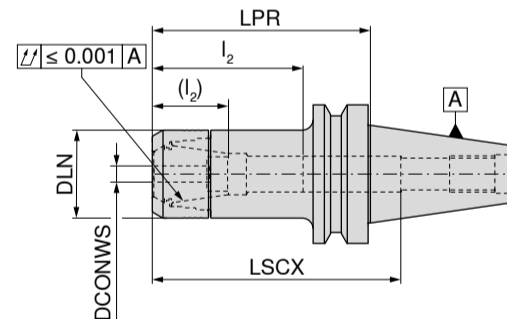
ER Precision Collet chuck – Centro-P – BT-FC

- ▲ with face contact
- ▲ for standard or sealed nuts
- ▲ maximum clamping range covered according 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

Centro-P Performance



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	l ₂ (l ₂) mm	for collet	84 525 ... PG CT	
							£	£
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	002	185.67 97.00
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	012	185.69 98.00
BT-FC 30	2 - 20	75	45	84	42 - 62 (24 - 45)	470E (ER32)	022	185.69 98.00
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	102	189.37 108.00
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	112	189.37 109.00
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	122	189.37 109.00

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



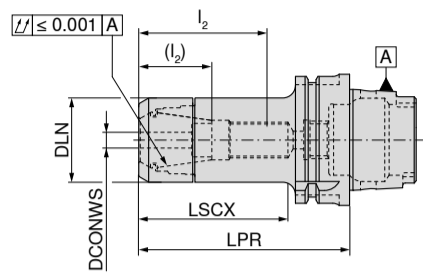
ER precision collet chuck – Centro-P

- ▲ 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)

84 722 ...	PG	CT
	£	£
504 ¹⁾	177.76	112.00
505	106.34	112.00
609 ¹⁾	147.02	108.00
610	147.02	106.00
613	162.76	122.00
611	205.20	128.00
612	250.00	217.00
615	147.02	108.00
616	147.02	106.00
619	105.20	131.00
617	247.50	135.00
620	147.02	106.00
621	147.02	106.00
625	105.20	131.00
622	247.50	135.00
626 ²⁾	106.53	136.00
62700	230.20	112.00

- 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

i LSCX = clamping depth without back stop screw for shanks
 l_2 = with back stop screw 1, dimension in brackets () = with back stop screw 2
 dimension LPR when using tightening nuts with seals 4 mm longer

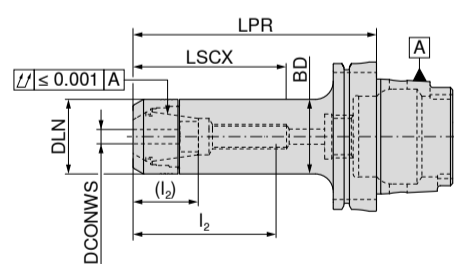
ER precision collet chuck, slim – Centro-P

- ▲ 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	CT
	£	£
407	202.46	140.00
610	157.00	108.00
710	157.00	108.00
810	205.20	138.00
910	207.50	138.00
507	157.00	108.00
607	157.00	112.00
707	205.20	138.00
608	207.50	147.00

i LSCX = clamping depth without back stop screw for shanks
 l_2 = with back stop screw 1, dimension in brackets () = with back stop screw 2
 dimension LPR when using tightening nuts with seals 4 mm longer



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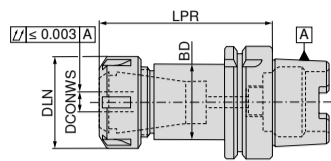
ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut

Standard



G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 743 ...	PG	CX
medium length	HSK-A 63	1 - 10	100	22	56	426E (ER16 mini)	21157	44.00	51.00
	HSK-A 63	1 - 10	100	32	56	426E (ER16)	21057	38.04	44.00
	HSK-A 63	1 - 16	100	42	104	430E (ER25)	21657	38.04	44.00
	HSK-A 63	2 - 20	100	50	136	470E (ER32)	22057	38.04	44.00
	HSK-A 63	3 - 26	100	63	176	472E (ER40)	22657	38.04	44.00
extra-long	HSK-A 63	1 - 10	160	22	56	426E (ER16 mini)	41157	44.00	51.00
	HSK-A 63	1 - 10	160	32	56	426E (ER16)	41057	438.00	61.00
	HSK-A 63	1 - 16	160	42	104	430E (ER25)	41657	438.00	61.00
	HSK-A 63	2 - 20	160	50	136	470E (ER32)	42057	438.00	61.00
	HSK-A 63	3 - 26	160	63	176	472E (ER40)	42657	438.00	61.00

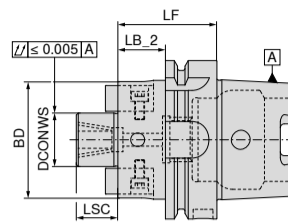
Shell mill adapter with reduced flange diameter

▲ Screwed drive dogs
▲ also available with Balluff chip on request

Scope of supply:

Base body with retaining screw and drive dog

Standard



G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 315 ...	PG	CX
short	HSK-A 63	22	34	60	38	19	12257	206.02	64.00
	HSK-A 63	27	34	60	48	21	12757	206.02	64.00

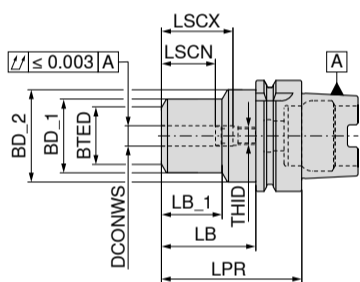
HyTens – Compact

▲ 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



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	BTED mm	LB mm	LB_1 mm	LSCN mm	LSCX mm	THID	83 430 ...	PG	CT
HSK-A 63	12	80	42	52.5	32	54	34	36	46	M8x1	01257	200.75	132.00
HSK-A 63	20	80	49	52.5	38	54	36	41	51	M8x1	02057	200.75	132.00
HSK-A 100	12	85	42	52.5	32	51	34	36	46	M8x1	01255	204.20	185.00
HSK-A 100	20	85	49	52.5	38	51	36	41	51	M8x1	02055	204.20	185.00

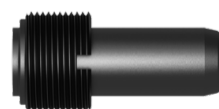
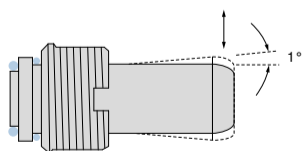
Coolant pipe – HSK

▲ use up to 100 bar

Scope of supply:

complete, including seals

Standard



Adapter	THOD	83 760 ...	PG	CT
HSK 50	M16 x 1	050	9.56	7.00
HSK 63	M18 x 1	063	9.88	4.00
HSK 100	M24 x 1,5	100	11.77	6.00

Key – HSK

Standard



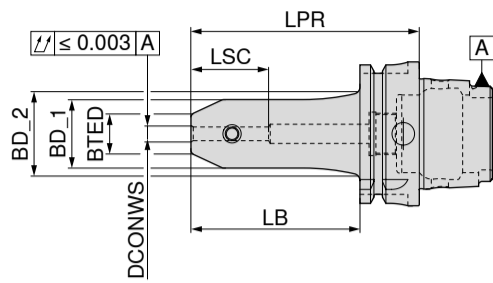
Adapter	83 758 ...	PG	CT
HSK 50	050	18.07	14.00
HSK 63	063	20.23	8.00
HSK 100	100	23.36	16.00



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 - 2KMB
G 2,5 n_{max} 25000



AD
G 2,5 n_{max} 25000

Version	Adapter	DCONWS _{H5} mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LSC 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
	HSK-A 63	25	100	45	65		74	54
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

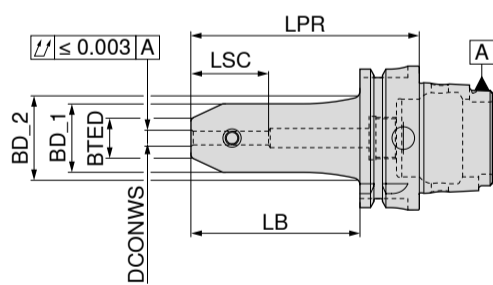
82 740 ...		PG	CX	82 741 ...		PG	CX
£	£			£	£		
10657	110.00	53.00		10657	94.25	40.00	
10857	110.00	53.00		10857	94.25	40.00	
11057	110.00	53.00		11057	94.25	40.00	
11257	110.00	53.00		11257	94.25	40.00	
11457	110.00	53.00		11457	94.25	40.00	
11657	110.00	53.00		11657	94.25	40.00	
11857	110.00	53.00		11857	94.25	40.00	
12057	110.00	53.00		12057	94.25	40.00	
12557 ¹⁾	110.00	53.00		12557 ¹⁾	94.25	40.00	
13257 ¹⁾	110.00	53.00		13257 ¹⁾	94.25	40.00	
10655	160.73	71.00		10655	140.27	62.00	
10855	160.73	71.00		10855	140.27	62.00	
11055	160.73	71.00		11055	140.27	62.00	
11255	160.73	71.00		11255	140.27	62.00	
11455	160.73	71.00		11455	140.27	62.00	
11655	160.73	71.00		11655	140.27	62.00	
11855	160.73	71.00		11855	140.27	62.00	
12055	160.73	71.00		12055	140.27	62.00	
12555 ¹⁾	160.73	71.00		12555 ¹⁾	140.27	62.00	
13255 ¹⁾	160.73	71.00		13255 ¹⁾	140.27	62.00	
14055 ¹⁾	160.73	71.00		14055 ¹⁾	140.27	62.00	
20657	131.06	58.00		20657	104.75	46.00	
20857	131.06	58.00		20857	104.75	46.00	
21057	131.06	58.00		21057	104.75	46.00	
21257	131.06	58.00		21257	104.75	46.00	
21457	131.06	58.00		21457	104.75	46.00	
21657	131.06	58.00		21657	104.75	46.00	
21857	131.06	58.00		21857	104.75	46.00	
22057	131.06	58.00		22057	104.75	46.00	
30657	140.01	62.00		30657	115.41	51.00	
30857	140.01	62.00		30857	115.41	51.00	
31057	140.01	62.00		31057	115.41	51.00	
31257	140.01	62.00		31257	115.41	51.00	
31457	140.01	62.00		31457	115.41	51.00	
31657	140.01	62.00		31657	115.41	51.00	
31857	140.01	62.00		31857	115.41	51.00	
32057	140.01	62.00		32057	115.41	51.00	
32557 ¹⁾	140.01	62.00		32557 ¹⁾	115.41	51.00	
33257 ¹⁾	140.01	62.00		33257 ¹⁾	115.41	51.00	

1) Version with two grub screws

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 - 2KMB
G 2,5 n_{max} 25000



AD
G 2,5 n_{max} 25000

Version	Adapter	DCONWS _{H5} mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LSC 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	

82 740 ...		PG	CX	82 741 ...		PG	CX
£	£			£	£		
40655	196.25	87.00		40655	182.04	81.00	
40855	196.25	87.00		40855	182.04	81.00	
41055	196.25	87.00		41055	182.04	81.00	
41255	196.25	87.00		41255	182.04	81.00	
41455	196.25	87.00		41455	182.04	81.00	
41655	196.25	87.00		41655	182.04	81.00	
41855	196.25	87.00		41855	182.04	81.00	
42055	196.25	87.00		42055	182.04	81.00	
42555 ¹⁾	196.25	87.00		42555 ¹⁾	182.04	81.00	
43255 ¹⁾	196.25	87.00		43255 ¹⁾	182.04	81.00	
40657	148.05	66.00		40657	126.25	56.00	
40857	148.05	66.00		40857	126.25	56.00	
41057	148.05	66.00		41057	126.25	56.00	
41257	148.05	66.00		41257	126.25	56.00	
41457	148.05	66.00		41457	126.25	56.00	
41657	148.05	66.00		41657	126.25	56.00	
41857	148.05	66.00		41857	126.25	56.00	
42057	148.05	66.00		42057	126.25	56.00	
42557 ¹⁾	148.05	66.00		42557 ¹⁾	126.25	56.00	

1) Version with two grub screws



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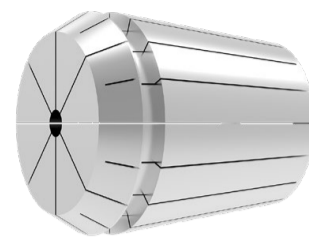
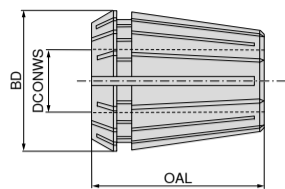


When you see this logo it's
in stock in Sheffield

ER precision collet

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

ER-B
20 µm Standard



DCONWS mm	UKS		UKS		UKS		UKS		UKS	
	BD	OAL	BD	OAL	BD	OAL	BD	OAL	BD	OAL
	17	27.5	21	31.5	26	34	33	40	41	46
	426 E / ER16		428 E / ER20		430 E / ER25		470 E / ER32		472 E / ER40	
	82 687 ...	PG CX	82 688 ...	PG CX	82 689 ...	PG CX	82 690 ...	PG CX	82 691 ...	PG CX
	£	£	£	£	£	£	£	£	£	£
1	01000	17.17 9.00	01000	17.75 9.00	02000	18.44 10.00			03000	18.79 10.00
2	02000	17.17 9.00	02000	17.75 9.00	03000	18.84 7.00	03000	14.98 8.00	04000	18.79 10.00
3	03000	13.96 7.00	03000	12.90 7.00	04000	13.84 7.00	04000	14.98 8.00	05000	18.79 10.00
4	04000	13.96 7.00	04000	12.90 7.00	05000	13.84 7.00	05000	14.98 8.00	06000	18.79 10.00
5	05000	13.96 7.00	05000	12.90 7.00	06000	13.84 7.00	06000	14.98 8.00	07000	18.79 10.00
6	06000	13.96 7.00	06000	12.90 7.00	07000	13.84 7.00	07000	14.98 8.00	08000	18.79 10.00
7	07000	13.96 7.00	07000	12.90 7.00	08000	13.84 7.00	08000	14.98 8.00	09000	18.79 10.00
8	08000	13.96 7.00	08000	12.90 7.00	09000	13.84 7.00	09000	14.98 8.00	10000	18.79 10.00
9	09000	13.96 7.00	09000	12.90 7.00	10000	13.84 7.00	10000	14.98 8.00	11000	18.79 10.00
10	10000	13.96 7.00	10000	12.90 7.00	11000	13.84 7.00	11000	14.98 8.00	12000	18.79 10.00
11			11000	12.90 7.00	12000	13.84 7.00	12000	14.98 8.00	13000	18.79 10.00
12			12000	12.90 7.00	13000	13.84 7.00	13000	14.98 8.00	14000	18.79 10.00
13			13000	12.90 7.00	14000	13.84 7.00	14000	14.98 8.00	15000	18.79 10.00
14					15000	13.84 7.00	15000	14.98 8.00	16000	18.79 10.00
15					16000	13.84 7.00	16000	14.98 8.00	17000	18.79 10.00
16							17000	14.98 8.00	18000	18.79 10.00
17							18000	14.98 8.00	19000	18.79 10.00
18							19000	14.98 8.00	20000	18.79 10.00
19							20000	14.98 8.00	21000	18.79 10.00
20									22000	18.79 10.00
21									23000	18.79 10.00
22									24000	18.79 10.00
23									25000	18.79 10.00
24									26000	18.79 10.00
25										
26										

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



UKS

Set	BD mm	OAL mm	82 687 ...	PG CX
426 E / ER16	17	27.5	99900	154.69 83.00

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



UKS

Set	BD mm	OAL mm	82 688 ...	PG CX
428 E / ER20	21	31.5	99900	166.97 89.00

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



UKS

Set	BD mm	OAL mm	82 689 ...	PG CX
430 E / ER25	26	34	99900	218.04 117.00

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



UKS

Set	BD mm	OAL mm	82 690 ...	PG CX
470 E / ER32	33	40	99900	267.55 143.00

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
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- 82 691 24000 DCONWS 24,0
- 82 691 25000 DCONWS 25,0
- 82 691 26000 DCONWS 26,0



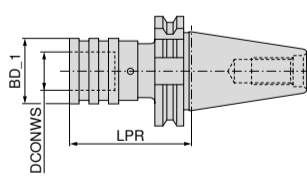
UKS

Set	BD mm	OAL mm	82 691 ...	PG CX
472 E / ER40	41	46	99900	452.02 242.00

Quick change tap chuck with length compensation

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

Standard

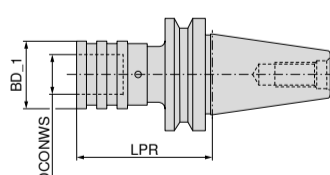


Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 428 ...	PG CT
SK 30	M6 - M20	02	101	55	31	15	320	372.26 209.00
SK 30	M3 - M12	01	60	38	19	9	312	326.09 184.00
SK 40	M6 - M20	02	100	55	31	15	420	273.67 154.00
SK 40	M3 - M12	01	60	38	19	9	412	254.22 142.00
SK 50	M6 - M20	02	83	55	31	15	520	411.25 230.00
SK 50	M3 - M12	01	62	38	19	9	512	377.45 213.00

Quick change tap chuck with length compensation

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

Standard



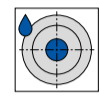
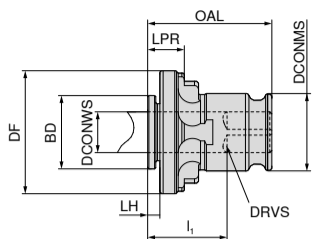
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 528 ...	PG CT
BT 30	M3 - M12	01	63	38	19	9	312	277.62 185.00
BT 30	M6 - M20	02	96	55	31	15	320	352.86 232.00
BT 40	M3 - M12	01	68	38	19	9	412	291.88 149.00
BT 40	M6 - M20	02	93	55	31	15	420	294.78 154.00
BT 50	M3 - M12	01	80	38	19	9	512	374.87 249.00
BT 50	M6 - M20	02	102	55	31	15	520	434.84 287.00



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	CT
	£	£
110	25.42	15.00
100	25.42	15.00
101	25.42	15.00
102	25.42	15.00
103	25.42	15.00
104	25.42	15.00
105	25.42	15.00
106	25.42	15.00
107	25.42	15.00
108	25.42	15.00
109	25.42	15.00
205	35.12	21.00
200	35.12	21.00
201	35.12	21.00
202	35.12	21.00
203	35.12	21.00
204	35.12	21.00
206	35.12	21.00
207	35.12	21.00
208	35.12	21.00
209	35.12	21.00

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	CX
	£	£
030	10.37	7.00
040	6.58	6.00
050	10.47	8.00

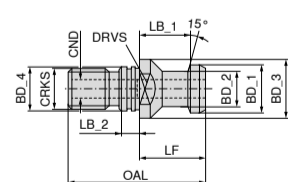
82 534 ...	PG	CX
	£	£
030	11.03	7.00
040	8.37	7.00
050	11.33	9.00

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	CX
	£	£
030	10.37	6.00
040	6.68	5.00
050	8.62	7.00



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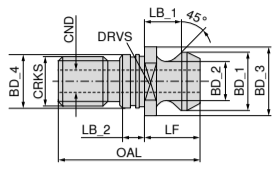
When you see this logo it's
in stock in Sheffield

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



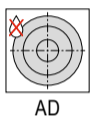
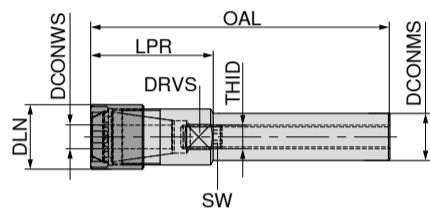
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
SK 40	18.79	12.44	21.8	17	M16	41.26	16.25	11.17	4.0	7.0	19	50
SK 50	29.10	19.60	37.0	25	M24	65.50	25.55	17.95	5.5	11.5	30	150

82 487 ...	PG	CX
	£	£
040	6.01	5.00
050	8.62	8.00

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)

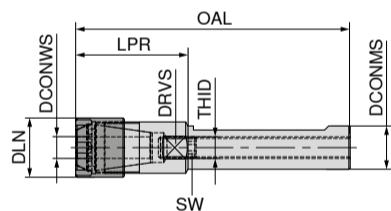
83 453 ...	PG	CX
	£	£
081 ¹⁾	95.07	49.00
122	117.02	104.00
163	126.42	103.00
164	99.46	70.00
165	126.42	103.00
204	122.46	74.00
254	141.04	85.00
256	176.99	107.00

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

- ▲ with cylindrical shank and clamping flat

Standard



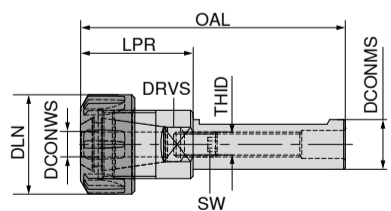
DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
20	1 - 10	168	28	22	M11x1	17	426E (ER16)
20	1 - 13	138	38	28	M11x1	22	428E (ER20)
20	1 - 16	146	46	35	M14x1	27	430E (ER25)
25	1 - 13	168	28	28	M14x1	22	428E (ER20)
25	1 - 16	189	39	35	M18x1	27	430E (ER25)

83 454 ...	PG	CX
	£	£
204	122.46	74.00
206	92.02	53.00
208	106.96	62.00
254	141.04	85.00
256	176.99	107.00

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)

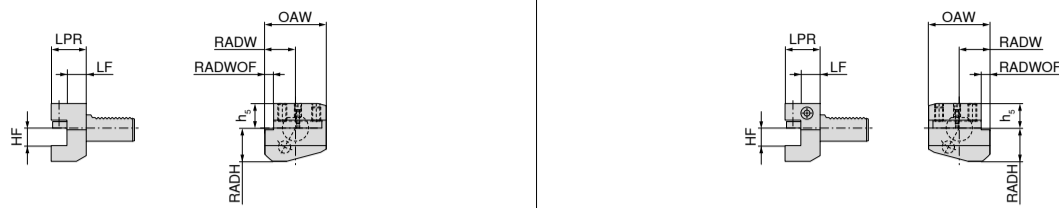
83 455 ...	PG	CX
	£	£
401	109.34	63.00
402	154.83	77.00
405	125.04	72.00

Note: Spanner to be ordered separately.



Radial tool holders, short

Performance



Adapter	HF _{0±0.1}	OAW	RADW	RADWOF	h ₅	RADH	LF _{0±0.5}	LPR
	mm	mm	mm	mm	mm	mm	mm	mm
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24
VDI 20	16	55	30.0	7.0	25.0	30	16.0	30
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40
VDI 30	20	70	35.0	10.0	28.0	38	18.5	40
VDI 30	20	70	35.0	10.0	28.0	38	42.0	60
VDI 40	25	85	42.5	12.5	32.5	48	18.5	44
VDI 50	32	100	50.0	16.0	35.0	60	30.0	55



Left-hand

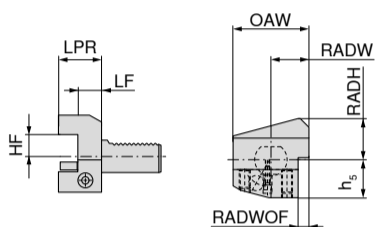


Right-hand

82 189 ...	PG CX	£		82 185 ...	PG CX	£	
		£	£			£	£
200		121.00	60.00	160		112.26	71.00
201		126.94	79.00	200		129.88	64.00
300		136.20	65.00	201		124.61	74.00
301		163.74	103.00	300		147.56	59.00
400		132.64	66.00	301		154.63	98.00
500		204.98	103.00	400		124.09	60.00
				500		204.76	101.00

Radial tool holders, overhead, short

Performance



Adapter	HF _{0±0.1}	OAW	RADW	RADWOF	h ₅	RADH	LF _{0±0.5}	LPR
	mm	mm	mm	mm	mm	mm	mm	mm
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40
VDI 30	20	70	35.0	10.0	35.0	38	18.5	40
VDI 40	25	85	42.5	12.5	42.5	48	18.5	44
VDI 50	32	100	50.0	16.0	50.0	60	30.0	55

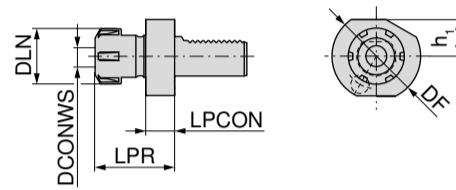


Right-hand

82 193 ...	PG CX	£	
		£	£
160		110.07	74.00
201		148.79	93.00
300		122.12	61.00
400		123.44	64.00
500		204.98	103.00

ER Collet chucks

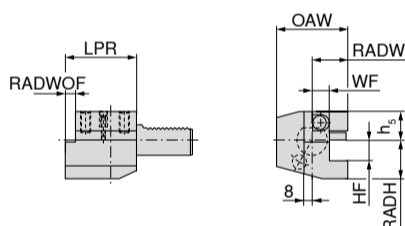
Performance



Adapter	DCONWS	DF	DLN	h ₁	LPR	LPCON	for collet	82 286 ...	PG CX	£	
										mm	mm
VDI 16	1 - 10	40	28	18.0	43.5	14	426E (ER16)	160		166.07	102.00
VDI 16	1 - 13	40	34	18.0	44.0	14	428E (ER20)	161		163.74	101.00
VDI 20	1 - 16	50	42	23.0	57.0	18	430E (ER25)	202		167.27	83.00
VDI 20	2 - 20	50	50	23.0	62.0	18	470E (ER32)	203		174.74	87.00
VDI 30	1 - 16	68	42	28.0	57.0	22	430E (ER25)	300		149.78	82.00
VDI 30	2 - 20	68	50	28.0	75.0	22	470E (ER32)	301		152.22	82.00
VDI 40	1 - 16	83	42	32.5	75.0	22	430E (ER25)	400		168.39	89.00
VDI 40	2 - 20	83	50	32.5	75.0	22	470E (ER32)	401		168.39	89.00
VDI 40	3 - 26	83	63	32.5	75.0	22	472E (ER40)	402		174.24	87.00
VDI 50	2 - 20	94	50	35.0	75.0	30	470E (ER32)	500		256.02	129.00
VDI 50	3 - 26	94	63	35.0	63.0	30	472E (ER40)	501		256.02	129.00

Axial tool holders

Performance



Adapter	HF _{0±0.1}	OAW	RADW	WF _{0±0.3}	h ₅	RADH	LPR	RADWOF
	mm	mm	mm	mm	mm	mm	mm	mm
VDI 30	20	70	35.0	17.0	28.0	38	70	10.0
VDI 40	25	85	42.5	20.5	32.5	48	85	12.5
VDI 50	32	100	50.0	25.5	35.0	60	100	16.0



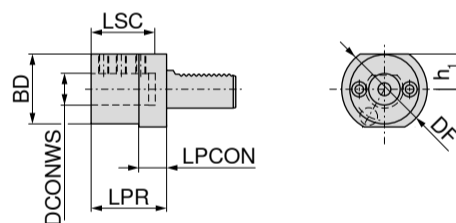
Right-hand

82 211 ...	PG CX	£	
		£	£
300		137.26	69.00
400		156.86	80.00
500		232.83	116.00

Boring bar holder

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

Performance



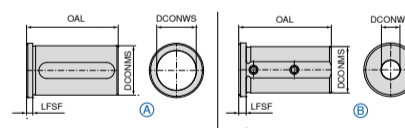
Adapter	DCONWS _{HF}	DF	BD	h ₁	LPR	LPCON	LSC	82 268 ...	PG CX	£	
										mm	mm
VDI 16	6	40	32	18.0	44	13	34	160		138.46	87.00
VDI 16	8	40	32	18.0	44	13	34	161		147.56	67.00
VDI 16	10	40	32	18.0	44	13	34	162		147.56	67.00
VDI 16	12	40	40	18.0	44	13	34	163		147.56	67.00
VDI 16	16	40	40	18.0	44	13	34	164		147.56	67.00
VDI 20	8	50	40	23.0	50	18	41	200		123.44	62.00
VDI 20	10	50	40	23.0	50	18	41	201		123.44	62.00
VDI 20	12	50	40	23.0	50	18	41	202		123.44	62.00
VDI 20	16	50	40	23.0	50	18	41	203		123.44	62.00
VDI 20	20	50	50	23.0	50	18	41	204		123.44	62.00
VDI 20	25	50	50	23.0	60	18	51	205		123.44	62.00
VDI 30	8	68	55	28.0	60	22	51	300		124.09	60.00
VDI 30	10	68	55	28.0	60	22	51	301		124.09	60.00
VDI 30	12	68	55	28.0	60	22	51	302		124.09	60.00
VDI 30	16	68	55	28.0	60	22	51	303		124.09	60.00
VDI 30	20	68	55	28.0	60	22	51	304		124.09	60.00
VDI 30	25	68	55	28.0	60	22	51	305		124.09	60.00
VDI 40	8	83	55	32.5	75	22	61	400		123.44	62.00
VDI 40	10	83	55	32.5	75	22	61	401		123.44	62.00
VDI 40	12	83	55	32.5	75	22	61	402		123.44	62.00
VDI 40	16	83	55	32.5	75	22	61	403		123.44	62.00
VDI 40	20	83	55	32.5	75	22	61	404		123.44	62.00
VDI 40	25	83	55	32.5	75	22	61	405		123.44	62.00
VDI 40	32	83	83	32.5	75	22	61	406		123.44	62.00
VDI 40	40	83	83	32.5	90	22	76	407		123.44	62.00
VDI 50	12	98	68	35.0	90	30	76	500		176.39	89.00
VDI 50	16	98	68	35.0	90	30	76	501		176.39	89.00
VDI 50	20	98	68	35.0	90	30	76	502		176.39	89.00
VDI 50	25	98	68	35.0	90	30	76	503		168.39	85.00
VDI 50	32	98	68	35.0	90	30	76	504		168.39	85.00
VDI 50	40	98	98	35.0	90	30	76	505		168.39	85.00
VDI 50	50	98	98	35.0	100	30	86	506		168.39	85.00

1) Coolant supply through pipe joint

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank

Performance



DCONMS	DCONWS	OAL	LFSF	Fig.	83 272 ...	PG CX	£	
							mm	mm
25	12	50	4	B	262		54.46	40.00
25	6	50	4	B	256		78.23	53.00
25	8	50	4	B	258		54.46	40.00
25	10	50	4	B	260		54.46	40.00
25	16	50	4	A	266		54.46	40.00
25	20	50	4	A	270		54.46	40.00
32	6	58	5	B	326		72.53	54.00
32	8	58	5	B	328		72.53	54.00
32	10	58	5	B	330		56.16	41.00
32	12	58	5	B	332		56.16	41.00
32	16	58	5	A	336		56.16	41.00
32	20	58	5	A	340		56.16	41.00
32	25	58	5	A	345		56.16	41.00
40	8	58	5	B	408		88.06	66.00
40	10	58	5	B	410		72.53	54.00
40	12	58	5	B	412		78.23	54.00
40	16	58	5	A	416		78.23	54.00
40	20	58	5	A	420		78.23	54.00
40	25	58	5	A	425		78.23	54.00
40	32	58	5	A	432		78.23	54.00
50	25	75	5	A	525		84.64	61.00
50	12	75	5	B	512		84.64	61.00
50	16	75	5	A	516		84.64	61.00
50	20	75	5	A	520		84.64	61.00
50	32	75	5	A	532		84.64	61.00
50	40	75	5	A	540		84.64	61.00



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Order by 6:

Apprentice Toolkit

Article Number: **93 026 15292**

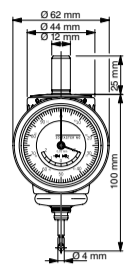
Price: **£125**



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 CT
£	£
100	405.83 280.00

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

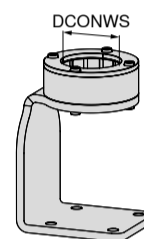


30 100 ...	PG CX
£	£
999	69.50 24.00

Assembly fixture for tool holders

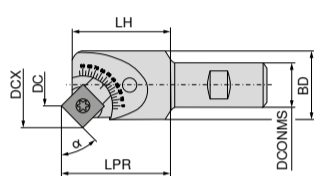
- ▲ gripping by roller
- ▲ secure clamping
- ▲ quick assembly, no additional clamping necessary

Standard



Adapter	DCONWS mm	80 722 ...	PG CT
		£	£
HSK 32, PSC 32	32.0	032	245.52 120.00
HSK 40, PSC 40	40.0	040	245.52 120.00
MAS-BT 30	46.0	046	178.11 100.00
DIN 69871 / DIN 2080 - SK 30, HSK 50, PSC 50	50.0	050	178.11 100.00
DIN 69871 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63.0	063	184.99 100.00
DIN 69871 - SK 50	97.5	097	344.60 200.00
HSK 100, MAS-BT 50, ANSI-CAT 50	100.0	100	344.60 200.00

Adjustable single angle milling cutter C 4500



Designation	DCONMS mm	DC mm	DCX mm	LH mm	BD mm	LPR mm	50 690 ...	PG TO
							£	£
C490.20.R.01	16.0	1.6-11.1	20.1-23.6	32.0	18.65	23.9-34.6	01600	179.40 27.00
C490.26.R.01	20.0	1.1-14.1	26.6-31.5	37.0	25.00	38.2-40.6	02000	240.53 32.00

Zero height setting gauge



Designation	Height mm	85 900 ...	PG CT
		£	£
Zero height setting gauge	100	018	104.26 75.00

Twist drill sets DIN 338 – Type N short

- ▲ In metal box
- ▲ In 0.1 mm steps



	Ø mm	10 158 ...	PG CX
		£	£
0.1 mm steps	1.0-5.9	050	92.00 40.00
0.1 mm steps	6.0-10	100	203.00 80.00

Assembly device for ISO adapters

- ▲ Aluminium



Collet chuck	80 720 ...	PG CT
	£	£
SK 30	030	130.00 55.00
SK 40	040	130.00 60.00
SK 50	050	234.86 68.00

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

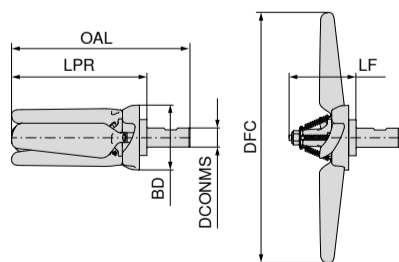


Countersink 90°, DIN 335-C	BD mm	OAL mm	82 689 ...	PG CX
			£	£
430 E / ER25	26	34	99900	248.01 117.00

Cleaning propeller

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

Standard

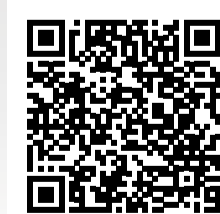


DCONMS mm	OAL mm	LPR mm	LF mm	DFC mm	BD mm	RPMX 1/min.
20	186.3	141.3	69.75	254	67.68	5000 - 8000



80 399 ...	PG CT
£	£
02000	237.19 100.00

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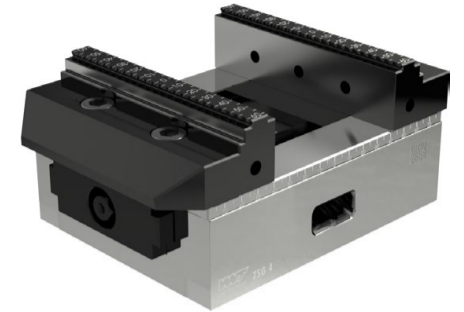
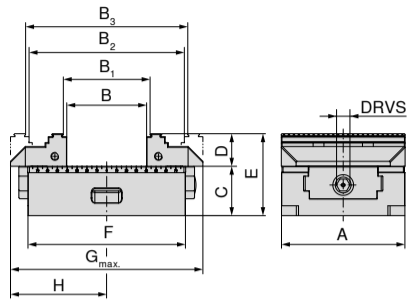
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CentriClamp – ZSG 4

- ▲ 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	CW
£	£	£
08700	740.63	523.00
08800	847.36	598.00
15300	999.96	660.00

Base plate, round



80 899 ...	PG	CW
£	£	£
125	544.20	384.00

MNG indexing bolt



80 899 ...	PG	CW
£	£	£
51500	46.40	11.00

MNG pull studs



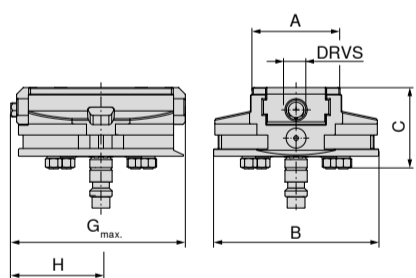
80 899 ...	PG	CW
£	£	£
025	46.33	33.00

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

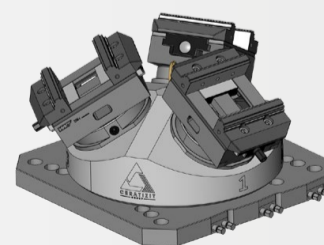
- ▲ Sealed centric vice for Erowa ITS 148
- ▲ Ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability

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	CW
£	£	£
08900	1,305.48	920.00



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