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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

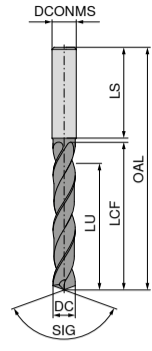
P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	Heat-resistant
H	Tempered steel
O	Non metal materials

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WTX – High Performance Drill, DIN 6537



NEW

UNI

DPA74S

≤ 3xD

DIN 6537

SIG 140°

Performance

NEW

UNI

DPA74S

≤ 3xD

DIN 6537

SIG 140°

Performance

NEW

UNI

DPA74S

≤ 3xD

DIN 6537

SIG 140°

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≤ 3xD

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SIG 140°

Performance

NEW

UNI

DPA74S

≤ 3xD

DIN 6537

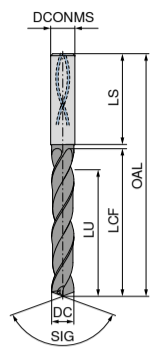
SIG 140°

Performance

DC _{m7}	DCONMS _{h6}	OAL	LCF	LU	LS	10 605 ... PG SH		10 604 ... PG SH		10 603 ... PG SH		10 602 ... PG SH		10 601 ... PG SH		10 600 ... PG SH	
						EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR		
3,000	6	62	20	14	36	03000	65.83	44.85	03000	65.83	44.85	03000	65.83	44.85	03000	65.83	44.85
3,100	6	62	20	14	36	03100 ¹⁾	65.83	44.85	03100 ¹⁾	65.83	44.85	03100 ¹⁾	65.83	44.85	03100 ¹⁾	65.83	44.85
3,150	6	62	20	14	36	03150 ¹⁾	65.83	44.85	03150 ¹⁾	65.83	44.85	03150 ¹⁾	65.83	44.85	03150 ¹⁾	65.83	44.85
3,175	6	62	20	14	36												
3,200	6	62	20	14	36	03200 ¹⁾	65.83	44.85	03200 ¹⁾	65.83	44.85	03200 ¹⁾	65.83	44.85	03200 ¹⁾	65.83	44.85
3,250	6	62	20	14	36	03250 ¹⁾	65.83	44.85	03250 ¹⁾	65.83	44.85	03250 ¹⁾	65.83	44.85	03250 ¹⁾	65.83	44.85
3,300	6	62	20	14	36	03300	65.83	44.85	03300	65.83	44.85	03300	65.83	44.85	03300	65.83	44.85
3,400	6	62	20	14	36	03400	65.83	44.85	03400	65.83	44.85	03400	65.83	44.85	03400	65.83	44.85
3,500	6	62	20	14	36	03500 ¹⁾	65.83	44.85	03500 ¹⁾	65.83	44.85	03500 ¹⁾	65.83	44.85	03500 ¹⁾	65.83	44.85
3,600	6	62	20	14	36	03600 ¹⁾	65.83	44.85	03600 ¹⁾	65.83	44.85	03600 ¹⁾	65.83	44.85	03600 ¹⁾	65.83	44.85
3,700	6	62	20	14	36	03700	65.83	44.85	03700	65.83	44.85	03700	65.83	44.85	03700	65.83	44.85
3,800	6	66	24	17	36	03800 ¹⁾	65.83	44.85	03800 ¹⁾	65.83	44.85	03800 ¹⁾	65.83	44.85	03800 ¹⁾	65.83	44.85
3,850	6	66	24	17	36	03850 ¹⁾	65.83	44.85	03850 ¹⁾	65.83	44.85	03850 ¹⁾	65.83	44.85	03850 ¹⁾	65.83	44.85
3,900	6	66	24	17	36	03900 ¹⁾	65.83	44.85	03900 ¹⁾	65.83	44.85	03900 ¹⁾	65.83	44.85	03900 ¹⁾	65.83	44.85
3,970	6	66	24	17	36												
4,000	6	66	24	17	36	04000	65.83	44.85	04000	65.83	44.85	04000	65.83	44.85	04000	65.83	44.85
4,100	6	66	24	17	36	04100 ¹⁾	65.83	44.85	04100 ¹⁾	65.83	44.85	04100 ¹⁾	65.83	44.85	04100 ¹⁾	65.83	44.85
4,200	6	66	24	17	36	04200	65.83	44.85	04200	65.83	44.85	04200	65.83	44.85	04200	65.83	44.85
4,250	6	66	24	17	36	04250 ¹⁾	65.83	44.85	04250 ¹⁾	65.83	44.85	04250 ¹⁾	65.83	44.85	04250 ¹⁾	65.83	44.85
4,300	6	66	24	17	36	04300	65.83	44.85	04300	65.83	44.85	04300	65.83	44.85	04300	65.83	44.85
4,350	6	66	24	17	36	04350 ¹⁾	65.83	44.85	04350 ¹⁾	65.83	44.85	04350 ¹⁾	65.83	44.85	04350 ¹⁾	65.83	44.85
4,400	6	66	24	17	36	04400 ¹⁾	65.83	44.85	04400 ¹⁾	65.83	44.85	04400 ¹⁾	65.83	44.85	04400 ¹⁾	65.83	44.85
4,450	6	66	24	17	36	04450 ¹⁾	65.83	44.85	04450 ¹⁾	65.83	44.85	04450 ¹⁾	65.83	44.85	04450 ¹⁾	65.83	44.85
4,500	6	66	24	17	36	04500 ¹⁾	65.83	44.85	04500 ¹⁾	65.83	44.85	04500 ¹⁾	65.83	44.85	04500 ¹⁾	65.83	44.85
4,600	6	66	24	17	36	04600 ¹⁾	65.83	44.85	04600 ¹⁾	65.83	44.85	04600 ¹⁾	65.83	44.85	04600 ¹⁾	65.83	44.85
4,650	6	66	24	17	36	04650 ¹⁾	65.83	44.85	04650 ¹⁾	65.83	44.85	04650 ¹⁾	65.83	44.85	04650 ¹⁾	65.83	44.85
4,700	6	66	24	17	36	04700	65.83	44.85	04700	65.83	44.85	04700	65.83	44.85	04700	65.83	44.85
4,760	6	66	28	20	36												
4,800	6	66	28	20	36	04800 ¹⁾	65.83	44.85	04800 ¹⁾	65.83	44.85	04800 ¹⁾	65.83	44.85	04800 ¹⁾	65.83	44.85
4,900	6	66	28	20	36	04900	65.83	44.85	04900	65.83	44.85	04900	65.83	44.85	04900	65.83	44.85
4,950	6	66	28	20	36	04950 ¹⁾	65.83	44.85	04950 ¹⁾	65.83	44.85	04950 ¹⁾	65.83	44.85	04950 ¹⁾	65.83	44.85
5,000	6	66	28	20	36	05000	65.83	44.85	05000	65.83	44.85	05000	65.83	44.85	05000	65.83	44.85
5,050	6	66	28	20	36	05050 ¹⁾	65.83	44.85	05050 ¹⁾	65.83	44.85	05050 ¹⁾	65.83	44.85	05050 ¹⁾	65.83	44.85
5,100	6	66	28	20	36	05100 ¹⁾	65.83	44.85	05100 ¹⁾	65.83	44.85	05100 ¹⁾	65.83	44.85	05100 ¹⁾	65.83	44.85
5,200	6	66	28	20	36	05200	65.83	44.85	05200	65.83	44.85	05200	65.83	44.85	05200	65.83	44.85
5,300	6	66	28	20	36	05300 ¹⁾	65.83	44.85	05300 ¹⁾	65.83	44.85	05300 ¹⁾	65.83	44.85	05300 ¹⁾	65.83	44.85
5,400	6	66	28	20	36	05400 ¹⁾	65.83	44.85	05400 ¹⁾	65.83	44.85	05400 ¹⁾	65.83	44.85	05400 ¹⁾	65.83	44.85
5,500	6	66	28	20	36	05500	65.83	44.85	05500	65.83	44.85	05500	65.83	44.85	05500	65.83	44.85
5,550	6	66	28	20	36	05550 ¹⁾	65.83	44.85	05550 ¹⁾	65.83	44.85	05550 ¹⁾	65.83	44.85	05550 ¹⁾	65.83	44.85
5,560	6	66	28	20	36												
5,600	6	66	28	20	36	05600 ¹⁾	65.83	44.85	05600 ¹⁾	65.83	44.85	05600 ¹⁾	65.83	44.85	05600 ¹⁾	65.83	44.85
5,700	6	66	28	20	36	05700 ¹⁾	65.83	44.85	05700 ¹⁾	65.83	44.85	05700 ¹⁾	65.83	44.85	05700 ¹⁾	65.83	44.85
5,750	6	66	28	20	36	05750 ¹⁾	65.83	44.85	05750 ¹⁾	65.83	44.85	05750 ¹⁾	65.83	44.85	05750 ¹⁾	65.83	44.85
5,800	6	66	28	20	36	05800	65.83	44.85	05800	65.83	44.85	05800	65.83	44.85	05800	65.83	44.85
5,900	6	66	28	20	36	05900 ¹⁾	65.83	44.85	05900 ¹⁾	65.83	44.85	05900 ¹⁾	65.83	44.85	05900 ¹⁾	65.83	44.85
5,950	6	66	28	20	36	05950 ¹⁾	65.83	44.85	05950 ¹⁾	65.83	44.85	05950 ¹⁾	65.83	44.85	05950 ¹⁾	65.83	44.85
6,000	6	66	28	20	36	06000	65.83	44.85	06000	65.83	44.85	06000	65.83	44.85	06000	65.83	44.85
6,100	8	79	34	24	36	06100 ¹⁾	86.29	58.65	06100 ¹⁾	86.29	58.65	06100 ¹⁾	86.29	58.65	06100 ¹⁾	86.29	58.65
6,200	8	79	34	24	36	06200 ¹⁾	86.29	58.65	06200 ¹⁾	86.29	58.65	06200 ¹⁾	86.29	58.65	06200 ¹⁾	86.29	58.65
6,300	8	79	34	24	36	06300 ¹⁾	86.29	58.65	06300 ¹⁾	86.29	58.65	06300 ¹⁾	86.29	58.65	06300 ¹⁾	86.29	58.65
6,350	8	79	34	24	36												
6,400	8	79	34	24	36	06400 ¹⁾	86.29	58.65	06400 ¹⁾	86.29	58.65	06400 ¹⁾	86.29	58.65	06400 ¹⁾	86.29	58.65
6,500	8	79	34	24	36	06500	86.29	58.65	06500	86.29	58.65	06500	86.29	58.65	06500	86.29	58.65
6,600	8	79	34	24	36	06600 ¹⁾	86.29	58.65	06600 ¹⁾	86.29	58.65	06600 ¹⁾	86.29	58.65	06600 ¹⁾	86.29	58.65
6,700	8	79	34	24	36	06700 ¹⁾	86.29	58.65	06700 ¹⁾	86.29	58.65	06700 ¹⁾	86.29	58.65	06700 ¹⁾	86.29	58.65
6,750	8	79	34	24	36												
6,800	8	79	34	24	36	06800	86.29	58.65	06800	86.29	58.65	06800	86.29	58.65	06800	86.29	58.65
6,900	8	79	34	24	36	06900 ¹⁾	86.29	58.65	06900 ¹⁾	86.29	58.65	06900 ¹⁾	86.29	58.65	06900 ¹⁾	86.29	58.65
7,000	8	79	34	24	36	07000	86.29	58.65	07000	86.29	58.65	07000	86.29	58.65	07000	86.29	58.65
7,100	8	79	41	29	36	07100 ¹⁾	86.29	58.65	07100 ¹⁾	86.29	58.65	07100 ¹⁾	86.29	58.65	07100 ¹⁾	86.29	58.65
7,140	8	79	41	29	36												
7,200	8	79	41	29	36	07200 ¹⁾	86.29	58.65	07200 ¹⁾	86.29	58.65	07200 ¹⁾	86.29	58.65	07200 ¹⁾	86.29	58.65
7,300	8	79	41	29	36	07300 ¹⁾	86.29	58.65	07300 ¹⁾	86.29	58.65	07300 ¹⁾	86.29	58.65	07300 ¹⁾	86.29	58.65
7,400																	

WTX – High Performance Drill, DIN 6537

WTX – High Performance Drill, factory standard



NEW

Quattro

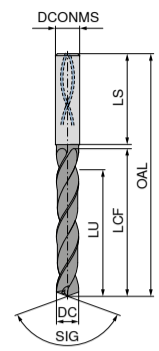
DPA74S

$\leq 5xD$

DIN 6537

SIG 140°

Performance



NEW

Quattro

DPA74S

$\leq 8xD$

Factory standard

SIG 135°

Performance

DC _{m7} mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm	LS mm
3,0	6	66	28	23	36
3,1	6	66	28	23	36
3,2	6	66	28	23	36
3,3	6	66	28	23	36
3,4	6	66	28	23	36
3,5	6	66	28	23	36
3,6	6	66	28	23	36
3,7	6	66	28	23	36
3,8	6	74	36	29	36
3,9	6	74	36	29	36
4,0	6	74	36	29	36
4,1	6	74	36	29	36
4,2	6	74	36	29	36
4,3	6	74	36	29	36
4,4	6	74	36	29	36
4,5	6	74	36	29	36
4,6	6	74	36	29	36
4,7	6	74	36	29	36
4,8	6	82	44	35	36
4,9	6	82	44	35	36
5,0	6	82	44	35	36
5,1	6	82	44	35	36
5,2	6	82	44	35	36
5,3	6	82	44	35	36
5,4	6	82	44	35	36
5,5	6	82	44	35	36
5,6	6	82	44	35	36
5,7	6	82	44	35	36
5,8	6	82	44	35	36
5,9	6	82	44	35	36
6,0	6	82	44	35	36
6,1	8	91	53	43	36
6,2	8	91	53	43	36
6,3	8	91	53	43	36
6,4	8	91	53	43	36
6,5	8	91	53	43	36
6,6	8	91	53	43	36
6,7	8	91	53	43	36
6,8	8	91	53	43	36
6,9	8	91	53	43	36
7,0	8	91	53	43	36
7,1	8	91	53	43	36
7,2	8	91	53	43	36
7,4	8	91	53	43	36
7,5	8	91	53	43	36
7,6	8	91	53	43	36
7,7	8	91	53	43	36
7,8	8	91	53	43	36
7,9	8	91	53	43	36
8,0	8	91	53	43	36
8,1	10	103	61	49	40
8,2	10	103	61	49	40
8,4	10	103	61	49	40
8,5	10	103	61	49	40
8,6	10	103	61	49	40
8,7	10	103	61	49	40
8,8	10	103	61	49	40
8,9	10	103	61	49	40
9,0	10	103	61	49	40
9,1	10	103	61	49	40
9,2	10	103	61	49	40
9,3	10	103	61	49	40
9,4	10	103	61	49	40
9,5	10	103	61	49	40
9,6	10	103	61	49	40
9,7	10	103	61	49	40
9,8	10	103	61	49	40
9,9	10	103	61	49	40
10,0	10	103	61	49	40
10,1	12	118	71	56	45
10,2	12	118	71	56	45
10,3	12	118	71	56	45
10,4	12	118	71	56	45
10,5	12	118	71	56	45
10,8	12	118	71	56	45
10,9	12	118	71	56	45
11,0	12	118	71	56	45
11,1	12	118	71	56	45
11,2	12	118	71	56	45
11,5	12	118	71	56	45
11,8	12	118	71	56	45
12,0	12	118	71	56	45
12,5	14	124	77	60	45
12,8	14	124	77	60	45
13,0	14	124	77	60	45
13,5	14	124	77	60	45
13,8	14	124	77	60	45
14,0	14	124	77	60	45
14,5	16	133	83	63	48
14,8	16	133	83	63	48
15,0	16	133	83	63	48
15,5	16	133	83	63	48
15,8	16	133	83	63	48
16,0	16	133	83	63	48
16,5	18	143	93	71	48
17,0	18	143	93	71	48
17,5	18	143	93	71	48
18,0	18	143	93	71	48

10 612 ... PG SH

DC _{m7} mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm	LS mm
3,000	6	72	34	29	36
3,100	6	72	34	29	36
3,175	6	72	34	29	36
3,200	6	72	34	29	36
3,300	6	72	34	29	36
3,400	6	72	34	29	36
3,500	6	72	34	29	36
3,600	6	72	34	29	36
3,700	6	72	34	29	36
3,800	6	81	43	36	36
3,900	6	81	43	36	36
3,970	6	81	43	36	36
4,000	6	81	43	36	36
4,100	6	81	43	36	36
4,200	6	81	43	36	36
4,300	6	81	43	36	36
4,400	6	81	43	36	36
4,500	6	81	43	36	36
4,600	6	81	43	36	36
4,700	6	81	43	36	36
4,760	6	95	57	48	36
4,800	6	95	57	48	36
4,900	6	95	57	48	36
5,000	6	95	57	48	36
5,100	6	95	57	48	36
5,200	6	95	57	48	36
5,300	6	95	57	48	36
5,400	6	95	57	48	36
5,500	6	95	57	48	36
5,560	6	95	57	48	36
5,600	6	95	57	48	36
5,700	6	95	57	48	36
5,800	6	95	57	48	36
5,900	6	95	57	48	36
5,950	6	95	57	48	36
6,000	6	95	57	48	36
6,100	8	114	76	64	36
6,200	8	114	76	64	36
6,300	8	114	76	64	36
6,350	8	114	76	64	36
6,400	8	114	76	64	36
6,500	8	114	76	64	36
6,600	8	114	76	64	36
6,700	8	114	76	64	36
6,750	8	114	76	64	36
6,800	8	114	76	64	36
6,900	8	114	76	64	36
7,000	8	114	76	64	36
7,100	8	114	76	64	36
7,140	8	114	76	64	36
7,200	8	114	76	64	36
7,400	8	114	76	64	36
7,500	8	114	76	64	36
7,600	8	114	76	64	36
7,700	8	114	76	64	36
7,800	8	114	76	64	36
7,900	8	114	76	64	36
7,940	8	114	76	64	36
8,000	8	114	76	64	36
8,100	10	142	95	80	40
8,200	10	142	95	80	40
8,400	10	142	95	80	40
8,500	10	142	95	80	40
8,600	10	142	95	80	40
8,800	10	142	95	80	40
9,000	10	142	95	80	40
9,100	10	142	95	80	40
9,200	10	142	95	80	40
9,300	10	142	95	80	40
9,400	10	142	95	80	40
9,500	10	142	95	80	40
9,525	10	142	95	80	40
9,600	10	142	95	80	40
9,700	10	142	95	80	40
9,800	10	142	95	80	40
9,900	10	142	95	80	40
9,920	10	142	95	80	40
10,000	10	142	95	80	40
10,100	12	162	114	96	45
10,200	12	162	114	96	45
10,300	12	162	114	96	45
10,400	12	162	114	96	45
10,500	12	162	114	96	45
10,800	12	162	114	96	45
10,900	12	162	114	96	45
11,000	12	162	114	96	45
11,100	12	162	114	96	45
11,200	12	162	114	96	45
11,500	12	162	114	96	45
11,800	12	162	114	96	45
12,000	12	162	114	96	45
12,500	14	178	131	112	45
12,700	14	178	131	112	45
12,800	14	178	131	112	45
13,000	14	178	131	112	45
13,500	14	178	131	112	45
13,800	14	178	131	112	45
14,000	14	178	131	112	45
14,500	16	203	152	128	48
14,800	16	203	152	128	48
15,000	16	203	152	128	48
15,500	16	203	152	128	48
15,875	16	203	152	128	48
16,000	16	203	152	128	48
16,500	18	222	171	144	48
17,000	18	222	171	144	48
17,500	18	222	171	144	48
18,000	18	222	171	144	48
19,000	20	243	190	160	50
19,050	20	243	190	160	50
20,000	20	243	190	160	50

P	●
M	●
K	●
N	●
S	●
H	○
O	○

10 613 ... PG SH

DC _{m7} mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm	LS mm
3,000	6	72	34	29	36
3,100	6	72	34	29	36
3,175	6	72	34	29	36
3,200	6	72	34	29	36
3,300	6	72	34	29	36
3,400	6	72	34	29	36
3,500	6	72	34	29	36
3,600	6	72	34	29	36
3,700	6	72	34	29	36
3,800	6	81	43	36	36
3,900	6	81	43	36	36
3,970	6	81	43	36	36
4,000	6	81	43	36	36
4,100	6	81	43	36	36
4,200	6	81	43	36	36
4					



HSS DRILLING



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

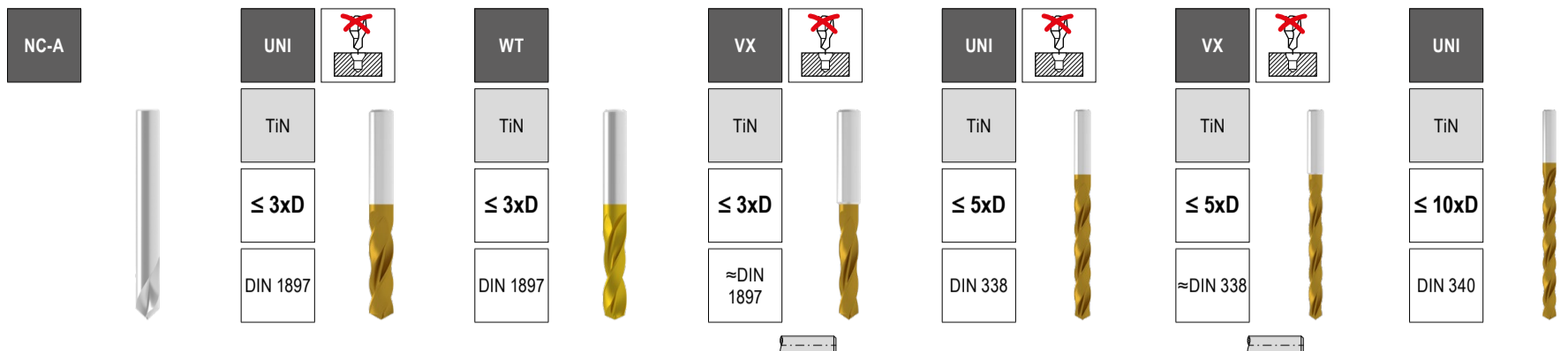


WT – problem solver for difficult to machine materials and applications.



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

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



DC _{h8/h6} mm	10 520 ... PG CX		10 107 ... PG HD		10 110 ... PG HD		10 122 ... PG HD		10 171 ... PG HD		10 124 ... PG HD		10 270 ... PG HD	
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
0,90														
1,00														
1,10														
1,20														
1,25														
1,30														
1,40														
1,45														
1,50														
1,55														
1,60														
1,65														
1,70														
1,80														
1,90														
2,00														
2,10														
2,20														
2,30														
2,38														
2,40														
2,50														
2,55														
2,60														
2,70														
2,78														
2,80														
2,90														
3,00	030	0,24	5,75											
3,10														
3,17														
3,20														
3,25														
3,30														
3,40														
3,50														
3,57														
3,60														
3,70														
3,80														
3,90														
3,97														
4,00	040	0,37	6,90											
4,10														
4,20														
4,25														
4,30														
4,37														
4,40														
4,50														
4,60														
4,65														
4,70														
4,76														
4,80														
4,90														
4,95														
5,00	050	0,75	6,90											
5,05														
5,10														
5,16														
5,20														
5,30														
5,40														
5,50														
5,55														
5,56														
5,60														
5,70														
5,75														
5,80														
5,90														
5,95														
6,00	060	0,97	6,90											
6,10														
6,20														
6,30														
6,35														
6,40														
6,50														
6,60														
6,70														
6,75														
6,80														
6,90														
7,00														
P	●			●				●				●		
M	○			○				○				○		
K	●			●				●				●		
N	○			○				○				○		
S	○			○				○				○		
H														
O	○			○				○				○		

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



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



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

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

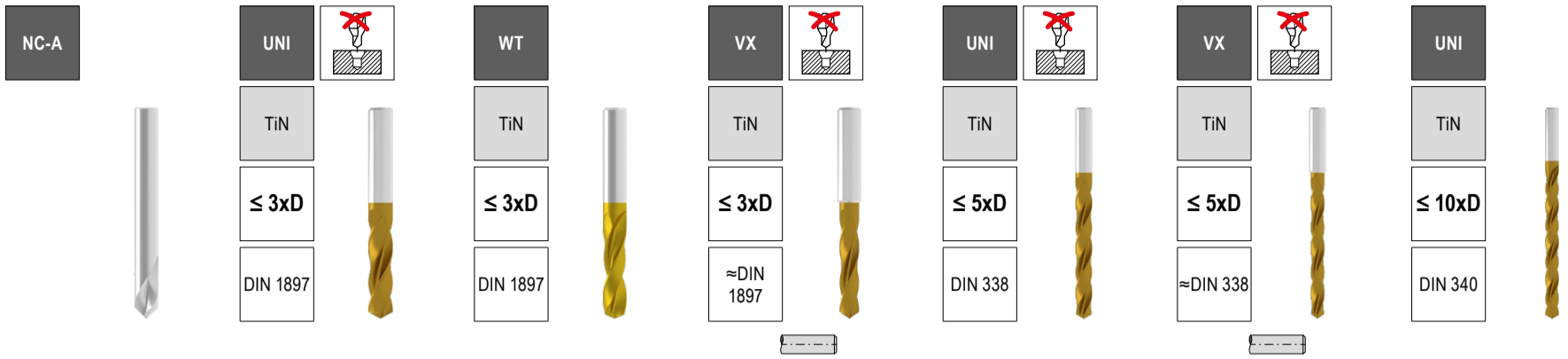


Table with columns for drill types (10 520, 10 107, 10 110, 10 122, 10 171, 10 124, 10 270) and rows for drill diameters (DC) from 7.10mm to 20.00mm. Each entry includes price in EUR for different grades (PG, CX, HD) and performance indicators.

1) self-centering

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



SOLID CARBIDE DRILLING



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



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

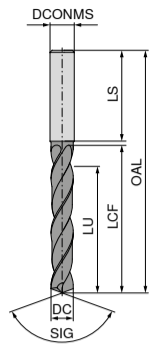


WPC Change – good solution for lathes with mis-alignment and lower powered machines. Cost effective solution in larger diameters above $\text{\O} 20 \text{ mm}$ in 0.1 mm increments.



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

WPC – High Performance Drill, DIN 6537



1 HB shanks also available at same prices



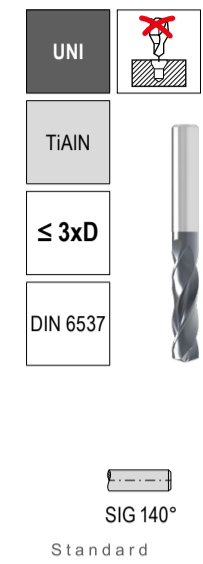
Standard



Standard



Standard



Standard

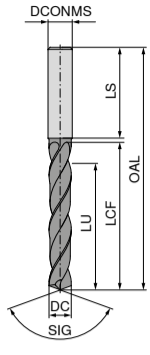
DC _{m7} mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm	LS mm
1,00	4	45	7	5,5	28
1,10	4	45	7	5,3	28
1,20	4	45	7	5,2	28
1,30	4	45	7	5,0	28
1,40	4	45	7	4,9	28
1,50	4	55	14	11,7	28
1,60	4	55	14	11,6	28
1,70	4	55	14	11,4	28
1,80	4	55	14	11,3	28
1,90	4	55	14	11,1	28
2,00	4	55	20	17,0	28
2,10	4	55	20	16,8	28
2,20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

	11 713 ...		11 711 ...		11 700 ...		11 706 ...	
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
01000	32,64	28,75	01000	28,15	24,15	01000	34,06	24,15
01100	32,64	28,75	01100	28,15	24,15	01100	34,06	24,15
01200	32,64	28,75	01200	28,15	24,15	01200	34,06	24,15
01300	32,64	28,75	01300	28,15	24,15	01300	34,06	24,15
01400	32,64	28,75	01400	28,15	24,15	01400	34,06	24,15
01500	32,64	28,75	01500	28,15	24,15	01500	34,06	24,15
01600	32,64	28,75	01600	28,15	24,15	01600	34,06	24,15
01700	32,64	28,75	01700	28,15	24,15	01700	34,06	24,15
01800	32,64	28,75	01800	28,15	24,15	01800	34,06	24,15
01900	32,64	28,75	01900	28,15	24,15	01900	34,06	24,15
02000	32,64	28,75	02000	25,65	21,85	02000	34,06	24,15
02100	32,64	28,75	02100	25,65	21,85	02100	34,06	24,15
02200	32,64	28,75	02200	25,65	21,85	02200	34,06	24,15
02300	32,64	28,75	02300	25,65	21,85	02300	34,06	24,15
02400	32,64	28,75	02400	25,65	21,85	02400	34,06	24,15
02500	32,64	28,75	02500	25,65	21,85	02500	34,06	24,15
02600	32,64	28,75	02600	25,65	21,85	02600	34,06	24,15
02700	32,64	28,75	02700	25,65	21,85	02700	34,06	24,15
02800	32,64	28,75	02800	25,65	21,85	02800	34,06	24,15
02900	32,64	28,75	02900	25,65	21,85	02900	34,06	24,15
03000	28,38	24,15	03000	24,86	21,85	03000	27,04	20,70
03100	28,38	24,15	03100	24,86	21,85	03100	27,04	20,70
03200	28,38	24,15	03200	24,86	21,85	03200	27,04	20,70
03300	28,38	24,15	03300	24,86	21,85	03300	27,04	20,70
03400	28,38	24,15	03400	24,86	21,85	03400	27,04	20,70
03500	28,38	24,15	03500	24,86	21,85	03500	27,04	20,70
03600	28,38	24,15	03600	24,86	21,85	03600	27,04	20,70
03700	28,38	24,15	03700	24,86	21,85	03700	27,04	20,70
03800	28,38	24,15	03800	24,86	21,85	03800	27,04	20,70
03900	28,38	24,15	03900	24,86	21,85	03900	27,04	20,70
04000	28,38	24,15	04000	24,86	21,85	04000	27,04	20,70
04100	28,38	24,15	04100	24,86	21,85	04100	27,04	20,70
04200	28,38	24,15	04200	24,86	21,85	04200	27,04	20,70
04300	28,38	24,15	04300	24,86	21,85	04300	27,04	20,70
04400	28,38	24,15	04400	24,86	21,85	04400	27,04	20,70
04500	28,38	24,15	04500	24,86	21,85	04500	27,04	20,70
04600	28,38	24,15	04600	24,86	21,85	04600	27,04	20,70
04700	28,38	24,15	04700	24,86	21,85	04700	27,04	20,70
04800	28,38	24,15	04800	24,86	21,85	04800	27,04	20,70
04900	28,38	24,15	04900	24,86	21,85	04900	27,04	20,70
05000	28,38	24,15	05000	24,86	21,85	05000	27,04	20,70
05100	28,38	24,15	05100	24,86	21,85	05100	27,04	20,70
05200	28,38	24,15	05200	24,86	21,85	05200	27,04	20,70
05300	28,38	24,15	05300	24,86	21,85	05300	27,04	20,70
05400	28,38	24,15	05400	24,86	21,85	05400	27,04	20,70
05500	28,38	24,15	05500	24,86	21,85	05500	27,04	20,70
05600	28,38	24,15	05600	24,86	21,85	05600	27,04	20,70
05700	28,38	24,15	05700	24,86	21,85	05700	27,04	20,70
05800	28,38	24,15	05800	24,86	21,85	05800	27,04	20,70
05900	28,38	24,15	05900	24,86	21,85	05900	27,04	20,70
06000	28,38	24,15	06000	24,86	21,85	06000	27,04	20,70
06100	38,78	33,35	06100	24,04	21,85	06100	37,98	28,75
06200	38,78	33,35	06200	24,04	21,85	06200	37,98	28,75
06300	38,78	33,35	06300	24,04	21,85	06300	37,98	28,75
06400	38,78	33,35	06400	24,04	21,85	06400	37,98	28,75
06500	38,78	33,35	06500	24,04	21,85	06500	37,98	28,75
06600	38,78	33,35	06600	24,04	21,85	06600	37,98	28,75
06700	38,78	33,35	06700	24,04	21,85	06700	37,98	28,75
06800	38,78	33,35	06800	24,04	21,85	06800	37,98	28,75
06900	38,78	33,35	06900	24,04	21,85	06900	37,98	28,75
07000	38,78	33,35	07000	24,04	21,85	07000	37,98	28,75
07100	38,78	33,35	07100	24,04	21,85	07100	37,98	28,75
07200	38,78	33,35	07200	24,04	21,85	07200	37,98	28,75
07300	38,78	33,35	07300	24,04	21,85	07300	37,98	28,75
07400	38,78	33,35	07400	24,04	21,85	07400	37,98	28,75
07500	38,78	33,35	07500	24,04	21,85	07500	37,98	28,75
07600	38,78	33,35	07600	24,04	21,85	07600	37,98	28,75
07700	38,78	33,35	07700	24,04	21,85	07700	37,98	28,75

P	○	○	●	●
M	●	●	●	●
K			●	●
N	●	○	○	
S	○	○		
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WPC – High Performance Drill, DIN 6537

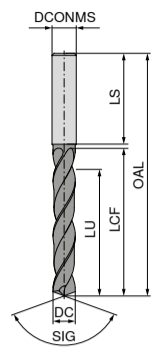


1 HB shanks also available at same prices

TiAlN	TiAlN	TiAlN	TiAlN
≤ 3xD	≤ 3xD	≤ 3xD	≤ 3xD
DIN 6537	DIN 6537	DIN 6537	DIN 6537
SIG 140°	SIG 140°	SIG 140°	SIG 140°
Standard	Standard	Standard	Standard

DC _{m7} mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm	LS mm	11 713 ... PG CX		11 711 ... PG CX		11 700 ... PG CX		11 706 ... PG CX	
						EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
7,8	8	79	41	29	36	07800 33,35	07800 21,85	07800 28,75	07800 18,40	07800 33,35	07800 21,85	07800 28,75	07800 18,40
7,9	8	79	41	29	36	07900 33,35	07900 21,85	07900 28,75	07900 18,40	07900 33,35	07900 21,85	07900 28,75	07900 18,40
8,0	8	79	41	29	36	08000 33,35	08000 21,85	08000 28,75	08000 18,40	08000 33,35	08000 21,85	08000 28,75	08000 18,40
8,1	10	89	47	35	40	08100 37,95	08100 24,15	08100 32,20	08100 20,70	08100 37,95	08100 24,15	08100 32,20	08100 20,70
8,2	10	89	47	35	40	08200 37,95	08200 24,15	08200 32,20	08200 20,70	08200 37,95	08200 24,15	08200 32,20	08200 20,70
8,3	10	89	47	35	40	08300 37,95	08300 24,15	08300 32,20	08300 20,70	08300 37,95	08300 24,15	08300 32,20	08300 20,70
8,4	10	89	47	35	40	08400 37,95	08400 24,15	08400 32,20	08400 20,70	08400 37,95	08400 24,15	08400 32,20	08400 20,70
8,5	10	89	47	35	40	08500 37,95	08500 24,15	08500 32,20	08500 20,70	08500 37,95	08500 24,15	08500 32,20	08500 20,70
8,6	10	89	47	35	40	08600 37,95	08600 24,15	08600 32,20	08600 20,70	08600 37,95	08600 24,15	08600 32,20	08600 20,70
8,7	10	89	47	35	40	08700 37,95	08700 24,15	08700 32,20	08700 20,70	08700 37,95	08700 24,15	08700 32,20	08700 20,70
8,8	10	89	47	35	40	08800 37,95	08800 24,15	08800 32,20	08800 20,70	08800 37,95	08800 24,15	08800 32,20	08800 20,70
8,9	10	89	47	35	40	08900 37,95	08900 24,15	08900 32,20	08900 20,70	08900 37,95	08900 24,15	08900 32,20	08900 20,70
9,0	10	89	47	35	40	09000 37,95	09000 24,15	09000 32,20	09000 20,70	09000 37,95	09000 24,15	09000 32,20	09000 20,70
9,1	10	89	47	35	40	09100 37,95	09100 24,15	09100 32,20	09100 20,70	09100 37,95	09100 24,15	09100 32,20	09100 20,70
9,2	10	89	47	35	40	09200 37,95	09200 24,15	09200 32,20	09200 20,70	09200 37,95	09200 24,15	09200 32,20	09200 20,70
9,3	10	89	47	35	40	09300 37,95	09300 24,15	09300 32,20	09300 20,70	09300 37,95	09300 24,15	09300 32,20	09300 20,70
9,4	10	89	47	35	40	09400 37,95	09400 24,15	09400 32,20	09400 20,70	09400 37,95	09400 24,15	09400 32,20	09400 20,70
9,5	10	89	47	35	40	09500 37,95	09500 24,15	09500 32,20	09500 20,70	09500 37,95	09500 24,15	09500 32,20	09500 20,70
9,6	10	89	47	35	40	09600 37,95	09600 24,15	09600 32,20	09600 20,70	09600 37,95	09600 24,15	09600 32,20	09600 20,70
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9,8	10	89	47	35	40	09800 37,95	09800 24,15	09800 32,20	09800 20,70	09800 37,95	09800 24,15	09800 32,20	09800 20,70
9,9	10	89	47	35	40	09900 37,95	09900 24,15	09900 32,20	09900 20,70	09900 37,95	09900 24,15	09900 32,20	09900 20,70
10,0	10	89	47	35	40	10000 37,95	10000 24,15	10000 32,20	10000 20,70	10000 37,95	10000 24,15	10000 32,20	10000 20,70
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10,2	12	102	55	40	45	10200 55,20	10200 36,80	10200 47,15	10200 32,20	10200 55,20	10200 36,80	10200 47,15	10200 32,20
10,3	12	102	55	40	45	10300 55,20	10300 36,80	10300 47,15	10300 32,20	10300 55,20	10300 36,80	10300 47,15	10300 32,20
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11,2	12	102	55	40	45	11200 55,20	11200 36,80	11200 47,15	11200 32,20	11200 55,20	11200 36,80	11200 47,15	11200 32,20
11,3	12	102	55	40	45	11300 55,20	11300 36,80	11300 47,15	11300 32,20	11300 55,20	11300 36,80	11300 47,15	11300 32,20
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11,7	12	102	55	40	45	11700 55,20	11700 36,80	11700 47,15	11700 32,20	11700 55,20	11700 36,80	11700 47,15	11700 32,20
11,8	12	102	55	40	45	11800 55,20	11800 36,80	11800 47,15	11800 32,20	11800 55,20	11800 36,80	11800 47,15	11800 32,20
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12,3	14	107	60	43	45	12300 74,75		12300 63,25		12300 74,75		12300 63,25	
12,5	14	107	60	43	45	12500 74,75	12500 49,45	12500 63,25	12500 43,70	12500 74,75	12500 49,45	12500 63,25	12500 43,70
12,7	14	107	60	43	45	12700 74,75	12700 49,45	12700 63,25	12700 48,30	12700 74,75	12700 49,45	12700 63,25	12700 48,30
12,8	14	107	60	43	45	12800 74,75	12800 49,45	12800 63,25	12800 43,70	12800 74,75	12800 49,45	12800 63,25	12800 43,70
12,9	14	107	60	43	45	12900 74,75		12900 63,25		12900 74,75		12900 63,25	
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13,1	14	107	60	43	45	13100 74,75	13100 49,45	13100 63,25	13100 43,70	13100 74,75	13100 49,45	13100 63,25	13100 43,70
13,5	14	107	60	43	45	13500 74,75	13500 49,45	13500 63,25	13500 43,70	13500 74,75	13500 49,45	13500 63,25	13500 43,70
13,7	14	107	60	43	45	13700 74,75	13700 49,45			13700 74,75	13700 49,45		
13,8	14	107	60	43	45	13800 74,75	13800 49,45	13800 63,25	13800 43,70	13800 74,75	13800 49,45	13800 63,25	13800 43,70
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WPC – High Performance Drill, DIN 6537



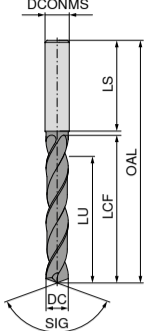
1 HB shanks also available at same prices



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


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	EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR
01000	38,05	33,35	01000	37,25	27,60	03000	29,07	23,00			
01100	38,05	33,35	01100	37,25	27,60	03100	29,07	23,00			
01200	38,05	33,35	01200	37,25	27,60	03200	29,07	23,00			
01300	38,05	33,35	01300	37,25	27,60	03250	29,07	23,00			
01400	38,05	33,35	01400	37,25	27,60	03300	29,07	23,00			
01500	38,05	33,35	01500	37,25	27,60	03300	29,07	23,00			
01600	38,05	33,35	01600	37,25	27,60	03300	29,07	23,00			
01700	38,05	33,35	01700	37,25	27,60	03400	29,07	23,00			
01800	38,05	33,35	01800	37,25	27,60	03500	29,07	23,00			
01900	38,05	33,35	01900	37,25	27,60	03600	29,07	23,00			
02000	38,05	33,35	02000	37,25	27,60	03700	29,07	23,00			
02100	38,05	33,35	02100	37,25	27,60	03800	29,07	23,00			
02200	38,05	33,35	02200	37,25	27,60	03850	29,07	23,00			
02300	38,05	33,35	02300	37,25	27,60	03900	29,07	23,00			
02400	38,05	33,35	02400	37,25	27,60	04000	29,07	23,00			
02500	38,05	33,35	02500	37,25	27,60	04100	29,07	23,00			
02600	38,05	33,35	02600	37,25	27,60	04200	29,07	23,00			
02700	38,05	33,35	02700	37,25	27,60	04200	29,07	23,00			
02800	38,05	33,35	02800	37,25	27,60	04300	29,07	23,00			
02900	38,05	33,35	02900	37,25	27,60	04400	29,07	23,00			
03000	37,42	32,20	03000	36,66	27,60	04500	29,07	23,00			
03100	37,42	32,20	03100	36,66	27,60	04600	29,07	23,00			
03200	37,42	32,20	03200	36,66	27,60	04650	29,07	23,00			
03300	37,42	32,20	03300	36,66	27,60	04700	29,07	23,00			
03400	37,42	32,20	03400	36,66	27,60	04800	29,07	23,00			
03500	37,42	32,20	03500	36,66	27,60	04900	29,07	23,00			
03600	37,42	32,20	03600	36,66	27,60	05000	29,07	23,00			
03700	37,42	32,20	03700	36,66	27,60	05100	29,07	23,00			
03800	37,42	32,20	03800	36,66	27,60	05200	29,07	23,00			
03900	37,42	32,20	03900	36,66	27,60	05300	29,07	23,00			
04000	37,42	32,20	04000	36,66	27,60	05400	29,07	23,00			
04100	37,42	32,20	04100	36,66	27,60	05500	29,07	23,00			
04200	37,42	32,20	04200	36,66	27,60	05550	29,07	23,00			
04300	37,42	32,20	04300	36,66	27,60	05600	29,07	23,00			
04400	37,42	32,20	04400	36,66	27,60	05650	29,07	23,00			
04500	37,42	32,20	04500	36,66	27,60	05700	29,07	23,00			
04600	37,42	32,20	04600	36,66	27,60	05800	29,07	23,00			
04700	37,42	32,20	04700	36,66	27,60	05900	29,07	23,00			
04800	37,42	32,20	04800	36,66	27,60	06000	29,07	23,00			
04900	37,42	32,20	04900	36,66	27,60	06100	29,54	23,00			
05000	37,42	32,20	05000	36,66	27,60	06200	29,54	23,00			
05100	37,42	32,20	05100	36,66	27,60	06300	29,54	23,00			
05200	37,42	32,20	05200	36,66	27,60	06400	29,54	23,00			
05300	37,42	32,20	05300	36,66	27,60	06500	29,54	23,00			
05400	37,42	32,20	05400	36,66	27,60	06600	29,54	23,00			
05500	37,42	32,20	05500	36,66	27,60	06700	29,54	23,00			
05600	37,42	32,20	05600	36,66	27,60	06800	29,54	23,00			
05700	37,42	32,20	05700	36,66	27,60	06900	29,54	23,00			
05800	37,42	32,20	05800	36,66	27,60	07000	29,54	23,00			
05900	37,42	32,20	05900	36,66	27,60	07100	29,54	23,00			
06000	37,42	32,20	06000	36,66	27,60	07200	29,54	23,00			
06100	43,00	37,95	06100	42,11	32,20	07300	29,54	23,00			
06200	43,00	37,95	06200	42,11	32,20	07400	29,54	23,00			
06300	43,00	37,95	06300	42,11	32,20	07450	43,00	37,95			
06400	43,00	37,95	06400	42,11	32,20	07500	43,00	37,95			
06500	43,00	37,95	06500	42,11	32,20	07550	43,00	37,95			
06600	43,00	37,95	06600	42,11	32,20	07600	43,00	37,95			
06700	43,00	37,95	06700	42,11	32,20	07650	42,11	32,20			
06800	43,00	37,95	06800	42,11	32,20	07700	42,11	32,20			
06900	43,00	37,95	06900	42,11	32,20	07800	42,11	32,20			
07000	43,00	37,95	07000	42,11	32,20	07900	42,11	32,20			
07100	43,00	37,95	07100	42,11	32,20	08000	42,11	32,20			
07200	43,00	37,95	07200	42,11	32,20	08100	49,17	42,55			
07300	43,00	37,95	07300	42,11	32,20	08200	49,17	42,55			
07400	43,00	37,95	07400	42,11	32,20	08300	49,17	42,55			
07450	43,00	37,95									
07500	43,00	37,95	07500	42,11	32,20						
07550	43,00	37,95	07550	42,11	32,20						
07600	43,00	37,95	07600	42,11	32,20						
07650	42,11	32,20	07650								

WPC – High Performance Drill, DIN 6537



1 HB shanks also available at same prices



VA



TiAIN

≤ 5xD


DIN 6537

SIG 140°

Standard



UNI



TiAIN

≤ 5xD


DIN 6537

SIG 140°

Standard



UNI



TiAIN

≤ 5xD

DIN 6537

SIG 140°

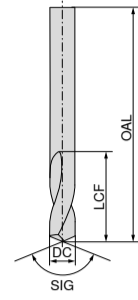
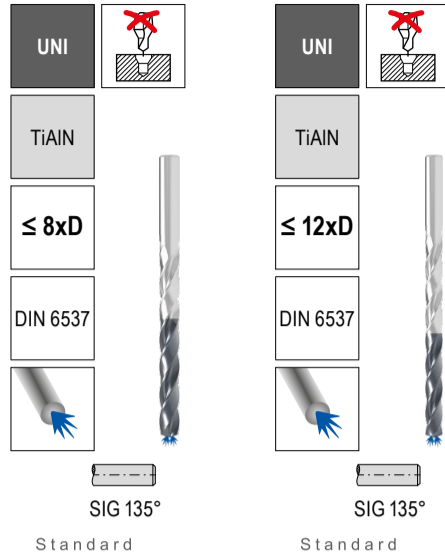
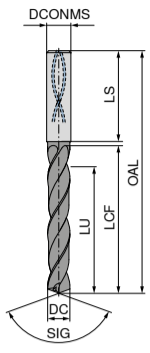
Standard

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

11 715 ...	PG CX		11 702 ...	PG CX		11 710 ...	PG CX	
	EUR	EUR		EUR	EUR		EUR	EUR
08400	49,17	42,55	08400	49,16	36,80	08400	32,55	25,30
08500	49,17	42,55	08500	49,16	36,80	08500	32,55	25,30
08600	49,17	42,55	08600	49,16	36,80	08600	32,55	25,30
08700	49,17	42,55	08700	49,16	36,80	08700	32,55	25,30
08800	49,17	42,55	08800	49,16	36,80	08800	32,55	25,30
08900	49,17	42,55	08900	49,16	36,80	08900	32,55	25,30
09000	49,17	42,55	09000	49,16	36,80	09000	32,55	25,30
09100	49,17	42,55	09100	49,16	36,80	09100	32,55	25,30
09200	49,17	42,55	09200	49,16	36,80	09200	32,55	25,30
09300	49,17	42,55	09300	49,16	36,80	09300	32,55	25,30
09400	49,17	42,55	09400	49,16	36,80	09400	32,55	25,30
09500	49,17	42,55	09500	49,16	36,80	09500	32,55	25,30
09600	49,17	42,55	09600	49,16	36,80	09600	32,55	25,30
09700	49,17	42,55	09700	49,16	36,80	09700	32,55	25,30
09800	49,17	42,55	09800	49,16	36,80	09800	32,55	25,30
09900	49,17	42,55	09900	49,16	36,80	09900	32,55	25,30
10000	49,17	42,55	10000	49,16	36,80	10000	32,55	25,30
10100	73,15	64,40	10100	74,63	54,05	10100	48,64	37,95
10200	73,15	64,40	10200	74,63	54,05	10200	48,64	37,95
10300	73,15	64,40	10300	74,63	54,05	10300	48,64	37,95
10400	73,15	64,40	10400	74,63	54,05	10400	48,64	37,95
10500	73,15	64,40	10500	74,63	54,05	10500	48,64	37,95
10600	73,15	64,40	10600	74,63	54,05	10600	48,64	37,95
10700	73,15	64,40	10700	74,63	54,05	10700	48,64	37,95
10800	73,15	64,40	10800	74,63	54,05	10800	48,64	37,95
10900	73,15	64,40	10900	74,63	54,05	10900	48,64	37,95
11000	73,15	64,40	11000	74,63	54,05	11000	48,64	37,95
11100	73,15	64,40	11100	74,63	54,05	11100	48,64	37,95
11200	73,15	64,40	11200	74,63	54,05	11200	48,64	37,95
11300	73,15	64,40	11300	74,63	54,05	11300	48,64	37,95
11400	73,15	64,40	11400	74,63	54,05	11400	48,64	37,95
11500	73,15	64,40	11500	74,63	54,05	11500	48,64	37,95
11600	73,15	64,40	11600	74,63	54,05	11600	48,64	37,95
11700	73,15	64,40	11700	74,63	54,05	11700	48,64	37,95
11800	73,15	64,40	11800	74,63	54,05	11800	48,64	37,95
11900	73,15	64,40	11900	74,63	54,05	11900	48,64	37,95
12000	73,15	64,40	12000	74,63	54,05	12000	48,64	37,95
12100	93,26	81,65	12100	94,38	70,15	12100	63,84	50,60
12200	93,26	81,65	12200	94,38	70,15	12200	63,84	50,60
12400	93,26	81,65	12400	94,38	70,15			
12500	93,26	81,65	12500	94,38	70,15	12500	63,84	50,60
12600	93,26	81,65	12600	94,38	70,15			
12700	93,26	81,65	12700	94,38	80,50	12700	63,84	56,35
12800	93,26	81,65	12800	94,38	70,15	12800	63,84	50,60
13000	93,26	81,65	13000	94,38	70,15	13000	63,84	50,60
13100	93,26	81,65	13100	94,38	70,15			
13200	93,26	81,65	13200	94,38	70,15	13200	63,84	50,60
13300	93,26	81,65	13300	94,38	70,15			
13500	93,26	81,65	13500	94,38	70,15	13500	63,84	50,60
13700	93,26	81,65						
13800	93,26	81,65	13800	94,38	70,15	13800	63,84	50,60
14000	93,26	81,65	14000	94,38	70,15	14000	63,84	50,60
14200	119,79	105,80	14200	117,20	89,70	14200	93,06	65,55
14300	119,79	105,80	14300	117,20	89,70			
14400	119,79	105,80	14400	117,20	89,70	14400	93,06	65,55
14500	119,79	105,80	14500	117,20	89,70	14500	93,06	65,55
14700	119,79	105,80						
14800	119,79	105,80	14800	117,20	89,70	14800	93,06	65,55
15000	119,79	105,80	15000	117,20	89,70	15000	93,06	65,55
15100	119,79	105,80	15100	117,20	89,70			
15200	119,79	105,80	15200	117,20	89,70	15200	93,06	65,55
15250			15250	117,20	89,70			
15300	119,79	105,80	15300	117,20	89,70			
15500	119,79	105,80	15500	117,20	89,70	15500	93,06	65,55
15700	119,79	105,80						
15800	119,79	105,80	15800	117,20	89,70	15800	93,06	65,55
16000	119,79	105,80	16000	117,20	89,70	16000	93,06	65,55
16200	185,00	163,30	16200	184,30	138,00			</

WPC – High Performance Drill, factory standard

NC Spot Drill, factory standard

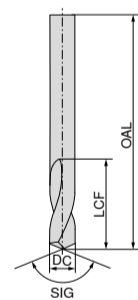


DC h7 mm	11 704 ... PG CX		11 705 ... PG CX	
	EUR	EUR	EUR	EUR
3,0	72,00	55,20	98,00	74,75
3,1	72,00	55,20	98,00	74,75
3,2	72,00	55,20	98,00	74,75
3,3	72,00	55,20	98,00	74,75
3,4	72,00	55,20	98,00	74,75
3,5	72,00	55,20	98,00	74,75
3,6	72,00	55,20	98,00	74,75
3,7	72,00	55,20	98,00	74,75
3,8	72,00	55,20	98,00	74,75
3,9	72,00	55,20	98,00	74,75
4,0	72,00	55,20	98,00	74,75
4,1	72,00	55,20	98,00	74,75
4,2	72,00	55,20	98,00	74,75
4,3	72,00	55,20	98,00	74,75
4,4	72,00	55,20	98,00	74,75
4,5	72,00	55,20	98,00	74,75
4,6	72,00	55,20	98,00	74,75
4,7	72,00	55,20	98,00	74,75
4,8	72,00	55,20	98,00	74,75
4,9	72,00	55,20	98,00	74,75
5,0	72,00	55,20	98,00	74,75
5,1	72,00	55,20	98,00	74,75
5,2	72,00	55,20	98,00	74,75
5,3	72,00	55,20	98,00	74,75
5,4	72,00	55,20	98,00	74,75
5,5	72,00	55,20	98,00	74,75
5,6	72,00	55,20	98,00	74,75
5,7	72,00	55,20	98,00	74,75
5,8	72,00	55,20	98,00	74,75
5,9	72,00	55,20	98,00	74,75
6,0	72,00	55,20	98,00	74,75
6,1	89,91	69,00	108,00	82,80
6,2	89,91	69,00	108,00	82,80
6,3	89,91	69,00	108,00	82,80
6,4	89,91	69,00	108,00	82,80
6,5	89,91	69,00	108,00	82,80
6,6	89,91	69,00	108,00	82,80
6,7	89,91	69,00	108,00	82,80
6,8	89,91	69,00	108,00	82,80
6,9	89,91	69,00	108,00	82,80
7,0	89,91	69,00	108,00	82,80
7,1	89,91	69,00	108,00	82,80
7,2	89,91	69,00	108,00	82,80
7,3	89,91	69,00	108,00	82,80
7,4	89,91	69,00	108,00	82,80
7,5	89,91	69,00	108,00	82,80
7,6	89,91	69,00	108,00	82,80
7,7	89,91	69,00	108,00	82,80
7,8	89,91	69,00	108,00	82,80
7,9	89,91	69,00	108,00	82,80
8,0	89,91	69,00	108,00	82,80
8,1	110,00	83,95	153,00	116,15
8,2	110,00	83,95	153,00	116,15
8,3	110,00	83,95	153,00	116,15
8,4	110,00	83,95	153,00	116,15
8,5	110,00	83,95	153,00	116,15
8,6	110,00	83,95	153,00	116,15
8,7	110,00	83,95	153,00	116,15
8,8	110,00	83,95	153,00	116,15
8,9	110,00	83,95	153,00	116,15
9,0	110,00	83,95	153,00	116,15
9,1	110,00	83,95	153,00	116,15
9,2	110,00	83,95	153,00	116,15
9,3	110,00	83,95	153,00	116,15
9,4	110,00	83,95	153,00	116,15
9,5	110,00	83,95	153,00	116,15
9,6	110,00	83,95	153,00	116,15
9,7	110,00	83,95	153,00	116,15
9,8	110,00	83,95	153,00	116,15
9,9	110,00	83,95	153,00	116,15
10,0	110,00	83,95	153,00	116,15
10,2	147,10	112,70	210,00	161,00
10,5	147,10	112,70	210,00	161,00
10,8	147,10	112,70	210,00	161,00
11,0	147,10	112,70	210,00	161,00
11,5	147,10	112,70	210,00	161,00
11,8	147,10	112,70	210,00	161,00
12,0	147,10	112,70	210,00	161,00
12,2	220,60	167,90	271,50	207,00
12,5	220,60	167,90	271,50	207,00
12,7	220,60	167,90	271,50	207,00
12,8	220,60	167,90	271,50	207,00
13,0	220,60	167,90	271,50	207,00
13,5	220,60	167,90	271,50	207,00
13,8	220,60	167,90	271,50	207,00
14,0	220,60	167,90	271,50	207,00
14,5	280,20	220,80	357,00	273,70
14,8	280,20	220,80	357,00	273,70
15,0	280,20	220,80	357,00	273,70
15,5	280,20	220,80	357,00	273,70
15,8	280,20	220,80	357,00	273,70
16,0	280,20	220,80	357,00	273,70
16,5	373,40	285,20	427,40	326,60
17,0	373,40	285,20	427,40	326,60
17,5	373,40	285,20	427,40	326,60
18,0	373,40	285,20	427,40	326,60
18,5	415,80	317,40	427,40	326,60
19,0	415,80	317,40	427,40	326,60
19,5	415,80	317,40	427,40	326,60
20,0	415,80	317,40	427,40	326,60

DC js8 mm	OAL mm	LCF mm	10 704 ... PG CX		10 718 ... PG CX	
			EUR	EUR	EUR	EUR
2	32	6	14,00	11,50	21,00	19,55
3	32	8	14,00	11,50	21,00	19,55
4	40	10	15,71	14,95	23,40	20,70
5	50	13	17,00	17,25	25,77	23,00
6	50	13	20,04	19,55	27,73	25,30
8	60	23	30,02	26,45	38,07	34,50
10	70	24	43,41	37,95	51,32	46,00
12	70	24	58,55	51,75	66,69	59,80
14	75	26	86,04	72,45	99,33	88,55
16	75	29	106,20	94,30	114,50	103,50
18	100	35	200,30	178,25	206,10	186,30
20	100	35	187,00	172,50	216,50	195,50

1) DIN 6535 HA Shank

NC Spot Drill, factory standard



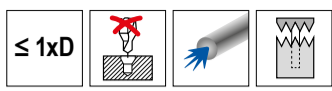
DC js8 mm	OAL mm	LCF mm	10 702 ... PG CX		10 716 ... PG CX	
			EUR	EUR	EUR	EUR
2	32	6	14,00	11,50	21,00	19,55
3	32	8	14,00	11,50	21,00	19,55
4	40	10	15,71	14,95	23,40	20,70
5	50	13	17,00	17,25	25,77	23,00
6	50	13	20,04	19,55	27,73	25,30
8	60	23	30,02	26,45	38,07	34,50
10	70	24	43,41	37,95	51,32	46,00
12	70	24	58,55	51,75	66,69	59,80
14	75	26	86,04	72,45	99,33	88,55
16	75	29	106,20	94,30	114,50	103,50
18	100	35	200,30	178,25	206,10	186,30
20	100	35	187,00	172,50	216,50	195,50

1) DIN 6535 HA Shank

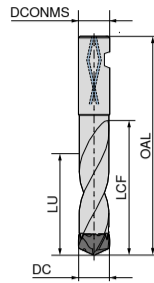


WTX – Holder for Exchangeable drills

▲ with radial teeth



Performance

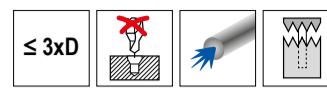


DC mm	DCONMS ₁₆ mm	OAL mm	LCF mm	LU mm	torque moment Nm
12,00 - 12,49	14	81	29	12,5	1,0
12,50 - 12,99	14	81	29	13,0	1,0
13,00 - 13,49	14	81	31	13,5	1,0
13,50 - 13,99	16	86	32	14,0	1,3
14,00 - 14,49	16	86	33	14,5	1,3
14,50 - 14,99	16	91	34	15,0	1,3
15,00 - 15,49	16	91	36	15,5	1,3
15,50 - 16,49	20	97	38	16,5	1,3
15,50 - 16,49	18	92	38	16,5	1,3
16,50 - 17,49	20	99	40	17,5	3,5
16,50 - 17,49	18	94	40	17,5	3,5
17,50 - 18,49	20	104	43	18,5	3,5
17,50 - 18,49	18	99	43	18,5	3,5
18,50 - 19,49	20	99	45	19,5	3,5
19,50 - 20,49	20	104	47	20,5	3,5
20,50 - 21,49	25	111	49	21,5	3,5
21,50 - 22,49	25	116	52	22,5	3,5
22,50 - 23,49	25	116	54	23,5	3,5
23,50 - 24,49	25	121	56	24,5	4,0
24,50 - 25,49	25	123	59	25,5	4,0
25,50 - 26,49	25	123	61	26,5	4,0
26,50 - 27,49	25	128	63	27,5	4,0
27,50 - 28,49	25	128	66	28,5	4,0
28,50 - 29,49	32	134	68	29,5	4,0
29,50 - 30,49	32	139	70	30,5	4,0
30,50 - 31,49	32	139	75	31,5	4,0
31,50 - 32,49	32	139	75	32,5	4,0
32,50 - 33,49	32	150	78	33,5	6,0
33,50 - 34,49	32	150	79	34,5	6,0
34,50 - 35,49	32	150	82	35,5	6,0
35,50 - 37,49	32	152	86	37,5	6,0
37,50 - 39,49	32	157	91	39,5	6,0
39,50 - 41,00	32	167	95	41,5	6,0

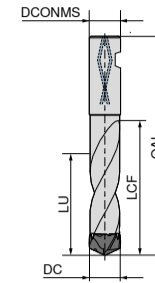
10 911 ...	PG	TO
	EUR	EUR
120	320,60	52,90
125	320,60	52,90
130	320,60	52,90
135	320,60	52,90
140	320,60	52,90
145	320,60	52,90
150	320,60	52,90
161	341,40	55,20
160	341,40	55,20
166	341,40	55,20
165	341,40	55,20
176	341,40	55,20
175	341,40	55,20
185	403,00	65,55
195	403,00	65,55
205	445,60	72,45
215	445,60	72,45
225	489,00	79,35
235	489,00	79,35
245	530,40	86,25
255	530,40	86,25
265	530,40	86,25
275	530,40	86,25
285	645,60	100,05
295	645,60	100,05
305	679,70	110,40
315	679,70	110,40
325	731,70	119,60
335	731,70	119,60
345	731,70	119,60
355	844,40	138,00
375	873,00	142,60
395	896,50	146,05

WTX – Holder for Exchangeable drills

▲ with radial teeth



Performance

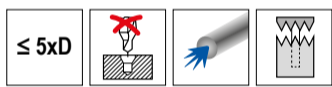


DC mm	DCONMS ₁₆ mm	OAL mm	LCF mm	LU mm	torque moment Nm
12,00 - 12,49	14	100	53	38,0	1,0
12,50 - 12,99	14	105	55	39,0	1,0
13,00 - 13,49	14	105	57	40,0	1,0
13,50 - 13,99	16	110	59	42,0	1,3
14,00 - 14,49	16	115	61	43,0	1,3
14,50 - 14,99	16	115	63	45,0	1,3
15,00 - 15,49	16	115	65	46,0	1,3
15,50 - 16,49	20	125	70	50,0	1,3
15,50 - 16,49	18	120	70	50,0	1,3
16,50 - 17,49	20	130	74	50,0	3,5
16,50 - 17,49	18	125	74	53,0	3,5
17,50 - 18,49	20	135	78	50,0	3,5
17,50 - 18,49	18	130	78	55,0	3,5
18,50 - 19,49	20	135	82	58,0	3,5
19,50 - 20,49	20	140	87	62,0	3,5
20,50 - 21,49	25	150	91	65,0	3,5
21,50 - 22,49	25	155	95	67,0	3,5
22,50 - 23,49	25	160	99	70,0	3,5
23,50 - 24,49	25	165	103	73,0	3,5
24,50 - 25,49	25	165	108	77,0	4,0
25,50 - 26,49	25	175	112	80,0	4,0
26,50 - 27,49	25	175	116	82,0	4,0
27,50 - 28,49	25	180	120	85,0	4,0
28,50 - 29,49	32	190	124	88,0	4,0
29,50 - 30,49	32	195	129	92,0	4,0
30,50 - 31,49	32	195	133	94,0	4,0
31,50 - 32,49	32	200	137	97,0	4,0
32,50 - 33,49	32	210	144	100,5	6,0
33,50 - 34,49	32	215	148	103,5	6,0
34,50 - 35,49	32	220	153	106,5	6,0
35,50 - 37,49	32	227	161	112,5	6,0
37,50 - 39,49	32	237	170	118,5	6,0
39,50 - 41,00	32	247	178	124,5	6,0

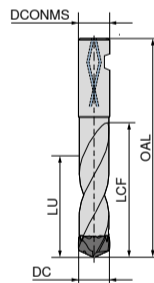
10 913 ...	PG	TO
	EUR	EUR
120	364,10	60,95
125	364,10	60,95
130	364,10	60,95
135	364,10	60,95
140	364,10	60,95
145	364,10	60,95
150	364,10	60,95
161	373,00	58,65
160	373,00	58,65
166	373,00	58,65
165	373,00	58,65
176	373,00	58,65
175	373,00	58,65
185	445,60	70,15
195	445,60	70,15
205	496,00	77,05
215	496,00	77,05
225	540,00	85,10
235	540,00	85,10
245	580,70	92,00
255	580,70	92,00
265	580,70	92,00
275	580,70	92,00
285	683,10	106,95
295	683,10	106,95
305	754,40	118,45
315	754,40	118,45
325	853,10	139,15
335	853,10	139,15
345	853,10	139,15
355	970,00	159,85
375	1048,00	165,60
395	1042,00	170,20

WTX – Holder for Exchangeable drills

▲ with radial teeth



Performance



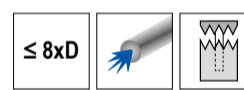
DC mm	DCONMS ₁₆ mm	OAL mm	LCF mm	LU mm	torque moment Nm
12,00 - 12,49	14	125	78	62,0	1,0
12,50 - 12,99	14	130	81	65,0	1,0
13,00 - 13,49	14	130	84	67,0	1,0
13,50 - 13,99	16	140	88	70,0	1,3
14,00 - 14,49	16	140	90	72,0	1,3
14,50 - 14,99	16	145	94	75,0	1,3
15,00 - 15,49	16	145	96	77,0	1,3
15,50 - 16,49	20	160	103	82,0	1,3
15,50 - 16,49	18	155	103	82,0	1,3
16,50 - 17,49	20	165	109	87,0	3,5
16,50 - 17,49	18	160	109	87,0	3,5
17,50 - 18,49	20	170	115	92,0	3,5
17,50 - 18,49	18	165	115	92,0	3,5
18,50 - 19,49	20	175	121	97,0	3,5
19,50 - 20,49	20	180	128	102,0	3,5
20,50 - 21,49	25	195	134	107,0	3,5
21,50 - 22,49	25	200	140	112,0	3,5
22,50 - 23,49	25	205	146	117,0	3,5
23,50 - 24,49	25	210	152	122,0	3,5
24,50 - 25,49	25	220	159	127,0	4,0
25,50 - 26,49	25	225	165	132,0	4,0
26,50 - 27,49	25	230	171	137,0	4,0
27,50 - 28,49	25	240	177	142,0	4,0
28,50 - 29,49	32	250	183	146,0	4,0
29,50 - 30,49	32	255	190	152,0	4,0
30,50 - 31,49	32	260	196	157,0	4,0
31,50 - 32,49	32	265	202	162,0	4,0
32,50 - 33,49	32	275	210	167,5	6,0
33,50 - 34,49	32	285	217	172,5	6,0
34,50 - 35,49	32	290	224	177,5	6,0
35,50 - 37,49	32	302	236	187,5	6,0
37,50 - 39,49	32	317	249	197,5	6,0
39,50 - 41,00	32	327	261	207,5	6,0

10 915 ...	PG	TO
	EUR	EUR
120	414,30	67,85
125	414,30	67,85
130	414,30	67,85
135	414,30	67,85
140	414,30	67,85
145	414,30	67,85
150	414,30	67,85
161	445,60	70,15
160	445,60	70,15
166	445,60	70,15
165	445,60	70,15
176	445,60	70,15
175	445,60	70,15
185	548,40	81,65
195	548,40	81,65
205	565,20	88,55
215	565,20	88,55
225	642,00	95,45
235	642,00	95,45
245	657,00	103,50
255	657,00	103,50
265	657,00	103,50
275	657,00	103,50
285	754,40	118,45
295	754,40	118,45
305	823,40	128,80
315	823,40	128,80
325	964,00	157,55
335	964,00	157,55
345	964,00	157,55
355	1084,00	177,10
375	1425,00	184,00
395	1450,00	187,45

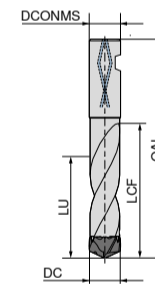
WTX – Holder for Exchangeable drills

▲ Pilot hole is recommended

▲ With radial teeth



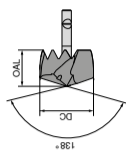
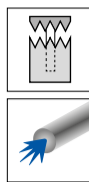
Performance



DC mm	DCONMS ₁₆ mm	OAL mm	LCF mm	LU mm	torque moment Nm
12,00 - 12,49	14	165	116	100	1,0
12,50 - 12,99	14	170	121	104	1,0
13,00 - 13,49	14	175	126	108	1,0
13,50 - 13,99	16	180	129	111	1,3
14,00 - 14,49	16	185	134	115	1,3
14,50 - 14,99	16	190	139	120	1,3
15,00 - 15,49	16	195	144		

WTX – Drilling Head for Exchangeable drills

▲ extra long head type



Change UNI
DPX74S

Change VA
Ti700



SIG 140°
Solid carbide



SIG 138°
Solid carbide

Performance

Performance

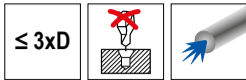
DC h7/mm?	OAL
mm	mm
12,0	10,7
12,1	10,7
12,2	10,7
12,3	10,7
12,4	10,7
12,5	10,7
12,6	10,7
12,7	10,7
12,8	10,7
12,9	10,7
13,0	10,7
13,1	10,7
13,2	10,7
13,3	10,7
13,4	10,7
13,5	11,3
13,6	11,3
13,7	11,3
13,8	11,3
13,9	11,3
14,0	11,3
14,1	11,3
14,2	11,3
14,3	11,3
14,4	11,3
14,5	11,3
14,6	11,3
14,7	11,3
14,8	11,3
14,9	11,3
15,0	11,3
15,1	11,3
15,2	11,3
15,3	11,3
15,4	11,3
15,5	11,9
15,6	11,9
15,7	11,9
15,8	11,9
15,9	11,9
16,0	11,9
16,1	11,9
16,2	11,9
16,3	11,9
16,4	11,9
16,5	13,4
16,6	13,4
16,7	13,4
16,8	13,4
16,9	13,4
17,0	13,4
17,1	13,4
17,2	13,4
17,3	13,4
17,4	13,4
17,5	13,4
17,6	13,4
17,7	13,4
17,8	13,4
17,9	13,4
18,0	13,4
18,1	13,4
18,2	13,4
18,3	13,4
18,4	13,4
18,5	13,4
18,6	13,4
18,7	13,4
18,8	13,4
18,9	13,4
19,0	13,4
19,1	13,4
19,2	13,4
19,3	13,4
19,4	13,4
19,5	13,4
19,6	13,4
19,7	13,4
19,8	13,4
19,9	13,4
20,0	13,4
20,1	13,4
20,2	13,4
20,3	13,4
20,4	13,4
20,5	15,4
20,6	15,4
20,7	15,4
20,8	15,4
20,9	15,4
21,0	15,4
21,1	15,4
21,2	15,4
21,3	15,4
21,4	15,4
21,5	15,4
21,6	15,4
21,7	15,4
21,8	15,4
21,9	15,4
22,0	15,4
22,1	15,4
22,2	15,4
22,3	15,4
22,4	15,4
22,5	15,4
22,6	15,4
22,7	15,4
22,8	15,4
22,9	15,4
23,0	15,4
23,1	15,4
23,2	15,4
23,3	15,4

10 919 ...		PG EH	
	EUR	EUR	
12000	110,00	97,75	
12100	110,00	97,75	
12200	110,00	97,75	
12300	110,00	97,75	
12400	110,00	97,75	
12500	110,00	97,75	
12600	110,00	97,75	
12700	110,00	97,75	
12800	110,00	97,75	
12900	110,00	97,75	
13000	110,00	97,75	
13100	110,00	97,75	
13200	110,00	97,75	
13300	110,00	97,75	
13400	110,00	97,75	
13500	110,00	97,75	
13600	110,00	97,75	
13700	110,00	97,75	
13800	110,00	97,75	
13900	110,00	97,75	
14000	110,00	97,75	
14100	110,00	97,75	
14200	110,00	97,75	
14300	110,00	97,75	
14400	110,00	97,75	
14500	110,00	97,75	
14600	110,00	97,75	
14700	110,00	97,75	
14800	110,00	97,75	
14900	110,00	97,75	
15000	110,00	97,75	
15100	110,00	97,75	
15200	110,00	97,75	
15300	110,00	97,75	
15400	110,00	97,75	
15500	110,00	97,75	
15600	111,00	101,20	
15700	111,00	101,20	
15800	111,00	101,20	
15900	111,00	101,20	
16000	111,00	101,20	
16100	111,00	101,20	
16200	111,00	101,20	
16300	111,00	101,20	
16400	111,00	101,20	
16500	111,00	101,20	
16600	111,00	101,20	
16700	111,00	101,20	
16800	111,00	101,20	
16900	111,00	101,20	
17000	111,00	101,20	
17100	111,00	101,20	
17200	111,00	101,20	
17300	111,00	101,20	
17400	111,00	101,20	
17500	111,00	101,20	
17600	111,00	101,20	
17700	111,00	101,20	
17800	111,00	101,20	
17900	111,00	101,20	
18000	111,00	101,20	
18100	121,30	110,40	
18200	121,30	110,40	
18300	121,30	110,40	
18400	121,30	110,40	
18500	121,30	110,40	
18600	121,30	110,40	
18700	121,30	110,40	
18800	121,30	110,40	
18900	121,30	110,40	
19000	121,30	110,40	
19100	121,30	110,40	
19200	121,30	110,40	
19300	121,30	110,40	
19400	121,30	110,40	
19500	121,30	110,40	
19600	121,30	110,40	
19700	121,30	110,40	
19800	121,30	110,40	
19900	121,30	110,40	
20000	121,30	110,40	
20100	137,00	121,90	
20200	137,00	121,90	
20300	137,00	121,90	
20400	137,00	121,90	
20500	137,00	121,90	
20600	137,00	121,90	
20700	137,00	121,90	
20800	137,00	121,90	
20900	137,00	121,90	
21000	137,00	121,90	
21100	137,00	121,90	
21200	137,00	121,90	
21300	137,00	121,90	
21400	137,00	121,90	
21500	137,00	121,90	
21600	137,00	121,90	
21700	137,00	121,90	
21800	137,00	121,90	
21900	137,00	121,90	
22000	137,00	121,90	
22100	149,20	132,25	
22200	149,20	132,25	
22300	149,20	132,25	
22400	149,20	132,25	
22500	149,20	132,25	
22600	149,20	132,25	
22700	149,20	132,25	
22800	149,20	132,25	
22900	149,20	132,25	
23000	149,20	132,25	
23100	149,20	132,25	
23200	149,20	132,25	
23300	149,20	132,25	

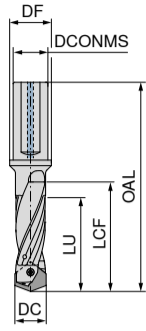
10 921 ...		PG EH	
	EUR	EUR	
120	110,00	98,90	
121	110,00	98,90	
122	110,00	98,90	
123	110,00	98,90	
124	110,00	98,90	
125	110,00	98,90	
126	110,00	98,90	
127	110,00	98,90	
128	110,00	98,90	
129	110,00	98,90	
130	110,00	98,90	
131	110,00	98,90	
132	110,00	98,90	
133	110,00	98,90	
134	110,00	98,90	
135	110,00	98,90	
136	110,00	98,90	
137	110,00	98,90	
138	110,00	98,90	
139	110,00	98,90	
140	110,00	98,90	
141	110,00	98,90	
142	110,00	98,90	
143	110,00	98,90	
144	110,00	98,90	
145	110,00	98,90	
146	110,00	98,90	
147	110,00	98,90	
148	110,00	98,90	
149	110,00	98,90	
150	110,00	98,90	
151	110,00	98,90	
152	110,00	98,90	
153	110,00	98,90	
154	110,00	98,90	
155	110,00	98,90	
156	111,00	104,65	
157	111,00	104,65	
158	111,00	104,65	
159	111,00	104,65	
160	111,00	104,65	
161	111,00	104,65	
162	111,00	104,65	
163	111,00	104,65	
164	111,00	104,65	
165	111,00	104,65	
166	111,00	104,65	
167	111,00	104,65	
168	111,00	104,65	
169	111,00	104,65	
170	111,00	104,65	
171	111,00	104,65	
172	111,00	104,65	
173	111,00	104,65	
174	111,00	104,65	
175	111,00	104,65	
176	111,00	104,65	
177	111,00	104,65	
178	111,00	104,65	
179	111,00	104,65	
180	111,00	104,65	
181	121,30	112,70	
182	121,30	112,70	
183	121,30	112,70	
184	121,30	112,70	
185	121,30	112,70	
186	121,30	112,70	
187	121,30	112,70	
188	121,30	112,70	
189	121,30	112,70	
190	121,30	112,70	
191	121,30	112,70	
192	121,30	112,70	
193	121,30	112,70	
194	121,30	112,70	
195	121,30	112,70	
196	121,30	112,70	
197	121,30	112,70	
198	121,30	112,70	
199	121,30	112,70	
200	121,30	112,70	
201	137,00	124,20	
202	137,00	124,20	
203	137,00	124,20	
204	137,00	124,20	
205	137,00	124,20	
206	137,00	124,20	
207	137,00</		

WPC – Holder for indexable insert drill

- ▲ Easy handling
- ▲ Insert can be changed in the machine
- ▲ Precise and stable insert seat, clamping via TORX PLUS® screw



Standard



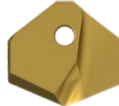
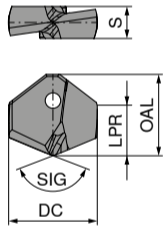
DC	DCONMS	OAL	LCF	LU	DF	torque moment	
mm	mm	mm	mm	mm	mm	Nm	
14,00 - 14,49	16	108,9	50,8	43,5	20	0,9	
14,50 - 14,99	16	111,0	52,5	45,0	20	0,9	
15,00 - 15,49	20	115,1	54,3	46,5	25	0,9	
15,50 - 15,99	20	117,2	56,0	48,0	25	0,9	
16,00 - 16,49	20	119,3	57,8	49,5	25	1,2	
16,50 - 16,99	20	121,4	59,5	51,0	25	1,2	
17,00 - 17,49	20	123,5	61,3	52,5	25	1,2	
17,50 - 17,99	20	125,6	63,0	54,0	25	1,2	
18,00 - 18,49	20	127,7	64,8	55,5	25	2,2	
18,50 - 18,99	20	129,8	66,5	57,0	25	2,2	
19,00 - 19,49	25	137,9	68,3	58,5	30	2,2	
19,50 - 19,99	25	140,0	70,0	60,0	30	2,2	
20,00 - 20,49	25	142,1	71,8	61,5	30	2,2	
20,50 - 20,99	25	144,2	73,5	63,0	30	2,2	
21,00 - 21,49	25	146,3	75,3	64,5	30	2,2	
21,50 - 21,99	25	148,4	77,0	66,0	30	2,2	
22,00 - 22,49	25	150,5	78,8	67,5	30	3,2	
22,50 - 22,99	25	152,6	80,5	69,0	30	3,2	
23,00 - 23,49	25	154,7	82,3	70,5	30	3,2	
23,50 - 23,99	25	156,8	84,0	72,0	30	3,2	
24,00 - 24,49	32	162,9	85,8	73,5	39	5	
24,50 - 24,99	32	165,0	87,5	75,0	39	5	
25,00 - 25,49	32	167,1	89,3	76,5	39	5	
25,50 - 25,99	32	169,2	91,0	78,0	39	5	
26,00 - 26,49	32	171,3	92,8	79,5	39	6	
26,50 - 26,99	32	173,4	94,5	81,0	39	6	
27,00 - 27,49	32	175,5	96,3	82,5	39	6	
27,50 - 27,99	32	177,6	98,0	84,0	39	6	
28,00 - 28,49	32	179,7	99,8	85,5	39	6	
28,50 - 28,99	32	181,8	101,5	87,0	39	6	
29,00 - 29,49	32	183,9	103,3	88,5	39	6	
29,50 - 30,00	32	186,0	105,0	90,0	39	6	

11 903 ...	PG	TO
	EUR	EUR
14000	265,70	44,85
14500	289,70	44,85
15000	289,70	44,85
15500	289,70	44,85
16000	287,20	49,45
16500	287,20	49,45
17000	287,20	49,45
17500	287,20	49,45
18000	371,20	52,90
18500	371,20	52,90
19000	371,20	52,90
19500	371,20	52,90
20000	393,20	56,35
20500	393,20	56,35
21000	393,20	60,95
21500	393,20	62,10
22000	393,20	62,10
22500	377,20	63,25
23000	377,20	64,40
23500	385,20	65,55
24000	385,20	65,55
24500	385,20	66,70
25000	385,20	67,85
25500	385,20	69,00
26000	413,20	70,15
26500	413,20	70,15
27000	423,20	71,30
27500	423,20	72,45
28000	423,20	73,60
28500	423,20	73,60
29000	441,20	74,75
29500	441,20	75,90

WPC – Indexable insert for indexable insert drill

Scope of supply:

Indexable insert (clamping screws can be ordered separately, if necessary)



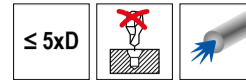
SIG 135°
HM
Standard

DC _{m7}	OAL	LPR	S
mm	mm	mm	mm
14,0	12,8	7,73	5,0
14,1	12,8	7,73	5,0
14,2	12,8	7,73	5,0
14,3	12,8	7,73	5,0
14,4	12,8	7,73	5,0
14,5	13,1	7,84	5,0
14,6	13,1	7,84	5,0
14,7	13,1	7,84	5,0
14,8	13,1	7,84	5,0
14,9	13,1	7,84	5,0
15,0	13,4	7,95	5,0
15,1	13,4	7,95	5,0
15,2	13,4	7,95	5,0
15,3	13,4	7,95	5,0
15,4	13,4	7,95	5,0
15,5	13,7	8,05	5,0
15,6	13,7	8,05	5,0
15,7	13,7	8,05	5,0
15,8	13,7	8,05	5,0
15,9	13,7	8,05	5,0
16,0	14,4	9,06	5,8
16,1	14,4	9,06	5,8
16,2	14,4	9,06	5,8
16,3	14,4	9,06	5,8
16,4	14,4	9,06	5,8
16,5	14,7	9,17	5,8
16,6	14,7	9,17	5,8
16,7	14,7	9,17	5,8
16,8	14,7	9,17	5,8
16,9	14,7	9,17	5,8
17,0	15,0	9,28	5,8
17,1	15,0	9,28	5,8
17,2	15,0	9,28	5,8
17,3	15,0	9,28	5,8
17,4	15,0	9,28	5,8
17,5	15,3	9,39	5,8
17,6	15,3	9,39	5,8
17,7	15,3	9,39	5,8
17,8	15,3	9,39	5,8
17,9	15,3	9,39	5,8
18,0	16,3	10,19	6,5
18,1	16,3	10,19	6,5
18,2	16,3	10,19	6,5
18,3	16,3	10,19	6,5
18,4	16,3	10,19	6,5
18,5	16,6	10,30	6,5
18,6	16,6	10,30	6,5
18,7	16,6	10,30	6,5
18,8	16,6	10,30	6,5
18,9	16,6	10,30	6,5
19,0	16,9	10,41	6,5
19,1	16,9	10,41	6,5
19,2	16,9	10,41	6,5
19,3	16,9	10,41	6,5
19,4	16,9	10,41	6,5

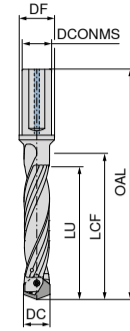
11 910 ...	PG	IH
	EUR	EUR
14000	187,70	60,95
14100	187,70	60,95
14200	187,70	60,95
14300	187,70	60,95
14400	187,70	60,95
14500	187,70	60,95
14600	187,70	60,95
14700	187,70	60,95
14800	186,20	62,10
14900	186,20	62,10
15000	186,20	62,10
15100	186,20	62,10
15200	186,20	62,10
15300	186,20	62,10
15400	186,20	62,10
15500	186,20	62,10
15600	186,20	62,10
15700	186,20	62,10
15800	176,20	65,55
15900	176,20	65,55
16000	176,20	65,55
16100	176,20	65,55
16200	176,20	65,55
16300	176,20	65,55
16400	176,20	65,55
16500	176,20	65,55
16600	176,20	65,55
16700	176,20	65,55
16800	176,20	65,55
16900	186,20	67,85
17000	186,20	67,85
17100	186,20	67,85
17200	186,20	67,85
17300	186,20	67,85
17400	186,20	67,85
17500	186,20	67,85
17600	186,20	67,85
17700	186,20	67,85
17800	186,20	67,85
17900	186,20	69,00
18000	186,20	69,00
18100	186,20	69,00
18200	186,20	69,00
18300	186,20	69,00
18400	186,20	69,00
18500	186,20	69,00
18600	186,20	69,00
18700	186,20	69,00
18800	186,20	69,00
18900	186,20	69,00
19000	186,20	71,30
19100	186,20	71,30
19200	186,20	71,30
19300	186,20	71,30
19400	186,20	71,30

WPC – Holder for indexable insert drill

- ▲ Easy handling
- ▲ Insert can be changed in the machine
- ▲ Precise and stable insert seat, clamping via TORX PLUS® screw



Standard



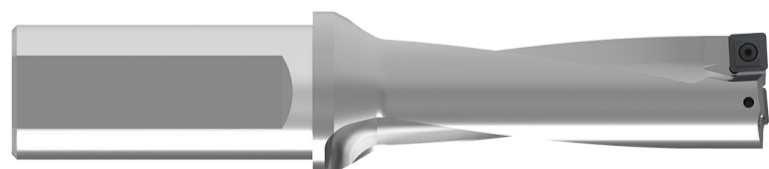
DC	DCONMS	OAL	LCF	LU	DF	torque moment	
mm	mm	mm	mm	mm	mm	Nm	
14,00 - 14,49	16	137,9	79,8	72,5	20	0,9	
14,50 - 14,99	16	141,0	82,5	75,0	20	0,9	
15,00 - 15,49	20	146,1	85,3	77,5	25	0,9	
15,50 - 15,99	20	149,2	88,0	80,0	25	0,9	
16,00 - 16,49	20	152,3	90,8	82,5	25	1,2	
16,50 - 16,99	20	155,4	93,5	85,0	25	1,2	
17,00 - 17,49	20	158,5	96,3	87,5	25	1,2	
17,50 - 17,99	20	161,6	99,0	90,0	25	1,2	
18,00 - 18,49	20	164,7	101,8	92,5	25	2,2	
18,50 - 18,99	20	167,8	104,5	95,0	25	2,2	
19,00 - 19,49	25	176,9	107,3	97,5	30	2,2	
19,50 - 19,99	25	180,0	110,0	100,0	30	2,2	
20,00 - 20,49	25	183,1	112,8	102,5	30	2,2	
21,00 - 21,49	25	189,3	118,3	107,5	30	2,2	
21,50 - 21,99	25	192,4	121,0	110,0	30	2,2	
22,00 - 22,49	25	195,5	123,8	112,5	30	3,2	
22,50 - 22,99	25	198,6	126,5	115,0	30	3,2	
23,00 - 23,49	25	201,7	129,3	117,5	30	3,2	
23,50 - 23,99	25	204,8	132,0	120,0	30	3,2	
24,00 - 24,49	32	211,9	134,8	122,5	39	5	
24,50 - 24,99	32	215,0	137,5	125,0	39	5	
25,00 - 25,49	32	218,1	140,3	127,5	39	5	
25,50 - 25,99	32	221,2	143,0	130,0	39	5	
26,00 - 26,49	32	224,3	145,8	132,5	39	6	
26,50 - 26,99	32	227,4	148,5	135,0	39	6	
27,00 - 27,49	32	230,5	151,3	137,5	39	6	
27,50 - 27,99	32	233,6	154,0	140,0	39	6	
28,50 - 28,99	32	239,8	159,5	145,0	39	6	
29,00 - 29,49	32	242,9	162,3	147,5	39	6	
29,50 - 30,00	32	246,0	165,0	150,0	39	6	

11 905 ...	PG	TO
	EUR	EUR
14000	267,00	48,30
14500	267,00	48,30
15000	267,00	48,30
15500	267,00	48,30
16000	315,00	52,90
16500	315,00	52,90
17000	315,00	52,90
17500		

INDEXABLE INSERT DRILLS



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

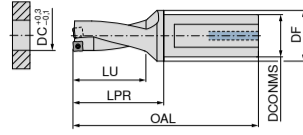


KOMET KUB Pentron – high performance problem solver with large selection of diameters and grades.

KOMET MaxiDrill 900 – Indexable insert drill

Scope of supply:

Indexable Insert Drill including clamping screws and key



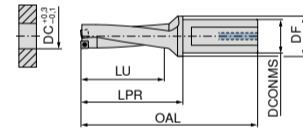
≤ 2xD Standard

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ...	PG TO	
									EUR	EUR
									MD900.2D.120.R.03-C20	12,0
MD900.2D.125.R.03-C20	12,5	28	20	91	25	41	SONT 031804	346,80	50,60	
MD900.2D.130.R.03-C20	13,0	28	20	92	26	42	SONT 031804	346,80	50,60	
MD900.2D.135.R.03-C20	13,5	28	20	93	27	43	SONT 031804	346,80	50,60	
MD900.2D.140.R.04-C20	14,0	30	20	96	28	46	SONT 042105	369,20	54,05	
MD900.2D.145.R.04-C20	14,5	30	20	97	29	47	SONT 042105	369,20	54,05	
MD900.2D.150.R.04-C20	15,0	30	20	98	30	48	SONT 042105	369,20	54,05	
MD900.2D.155.R.04-C20	15,5	30	20	99	31	49	SONT 042105	369,20	54,05	
MD900.2D.160.R.05-C20	16,0	30	20	100	32	50	SONT 052306	369,20	54,05	
MD900.2D.165.R.05-C20	16,5	30	20	101	33	51	SONT 052306	369,20	54,05	
MD900.2D.170.R.05-C20	17,0	30	20	102	34	52	SONT 052306	393,00	57,50	
MD900.2D.175.R.05-C20	17,5	30	20	103	35	53	SONT 052306	393,00	57,50	
MD900.2D.180.R.06-C25	18,0	32	25	111	36	55	SONT 062506	393,00	57,50	
MD900.2D.185.R.06-C25	18,5	32	25	112	37	56	SONT 062506	393,00	57,50	
MD900.2D.190.R.06-C25	19,0	32	25	113	38	57	SONT 062506	422,30	60,95	
MD900.2D.195.R.06-C25	19,5	32	25	114	39	58	SONT 062506	422,30	60,95	
MD900.2D.200.R.06-C25	20,0	32	25	115	40	59	SONT 062506	422,30	60,95	
MD900.2D.205.R.06-C25	20,5	32	25	116	41	60	SONT 062506	422,30	60,95	
MD900.2D.210.R.07-C25	21,0	32	25	118	42	62	SONT 072907	422,30	60,95	
MD900.2D.220.R.07-C25	22,0	32	25	120	44	64	SONT 072907	436,60	63,25	
MD900.2D.230.R.07-C25	23,0	32	25	122	46	66	SONT 072907	436,60	63,25	
MD900.2D.240.R.08-C32	24,0	40	32	132	48	72	SONT 083308	436,60	63,25	
MD900.2D.250.R.08-C32	25,0	40	32	134	50	74	SONT 083308	452,80	70,15	
MD900.2D.260.R.08-C32	26,0	40	32	136	52	76	SONT 083308	452,80	70,15	
MD900.2D.270.R.08-C32	27,0	40	32	138	54	78	SONT 083308	482,20	73,60	
MD900.2D.280.R.09-C32	28,0	40	32	140	56	80	SONT 093808	482,20	73,60	
MD900.2D.290.R.09-C32	29,0	40	32	142	58	82	SONT 093808	482,20	73,60	
MD900.2D.300.R.09-C32	30,0	40	32	144	60	84	SONT 093808	523,00	75,90	
MD900.2D.310.R.09-C32	31,0	40	32	146	62	86	SONT 093808	523,00	75,90	
MD900.2D.320.R.09-C32	32,0	40	32	148	64	88	SONT 093808	523,00	75,90	
MD900.2D.330.R.10-C40	33,0	50	40	163	66	93	SONT 104408	523,00	75,90	
MD900.2D.340.R.10-C40	34,0	50	40	165	68	95	SONT 104408	523,00	75,90	

KOMET MaxiDrill 900 – Indexable insert drill

Scope of supply:

Indexable Insert Drill including clamping screws and key



≤ 3xD Standard

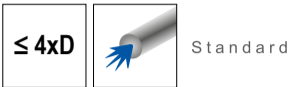
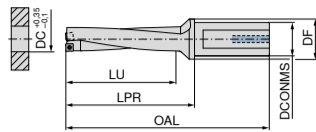
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 853 ...	PG TO	
									EUR	EUR
									MD900.3D.120.R.03-C20	12,0
MD900.3D.125.R.03-C20	12,5	28	20	104	37,5	54	SONT 031804	369,60	54,05	
MD900.3D.130.R.03-C20	13,0	28	20	105	39,0	55	SONT 031804	369,60	54,05	
MD900.3D.135.R.03-C20	13,5	28	20	107	40,5	57	SONT 031804	389,40	56,35	
MD900.3D.140.R.04-C20	14,0	30	20	109	42,0	59	SONT 042105	389,40	56,35	
MD900.3D.145.R.04-C20	14,5	30	20	111	44,0	61	SONT 042105	389,40	56,35	
MD900.3D.150.R.04-C20	15,0	30	20	112	45,0	62	SONT 042105	398,40	57,50	
MD900.3D.155.R.04-C20	15,5	30	20	114	47,0	64	SONT 042105	398,40	57,50	
MD900.3D.160.R.05-C20	16,0	30	20	115	48,0	65	SONT 052306	398,40	57,50	
MD900.3D.165.R.05-C20	16,5	30	20	117	50,0	67	SONT 052306	413,80	59,80	
MD900.3D.170.R.05-C20	17,0	30	20	118	51,0	68	SONT 052306	413,80	59,80	
MD900.3D.175.R.05-C20	17,5	30	20	120	53,0	70	SONT 052306	413,80	59,80	
MD900.3D.180.R.06-C25	18,0	32	25	128	54,0	72	SONT 062506	413,80	59,80	
MD900.3D.185.R.06-C25	18,5	32	25	130	56,0	74	SONT 062506	444,60	64,40	
MD900.3D.190.R.06-C25	19,0	32	25	131	57,0	75	SONT 062506	444,60	64,40	
MD900.3D.195.R.06-C25	19,5	32	25	133	59,0	77	SONT 062506	444,60	64,40	
MD900.3D.200.R.06-C25	20,0	32	25	134	60,0	78	SONT 062506	444,60	64,40	
MD900.3D.205.R.06-C25	20,5	32	25	136	62,0	80	SONT 062506	444,60	64,40	
MD900.3D.210.R.07-C25	21,0	32	25	138	63,0	82	SONT 072907	444,60	64,40	
MD900.3D.215.R.07-C25	21,5	32	25	140	65,0	84	SONT 072907	444,60	64,40	
MD900.3D.220.R.07-C25	22,0	32	25	141	66,0	85	SONT 072907	458,30	66,70	
MD900.3D.225.R.07-C25	22,5	32	25	143	68,0	87	SONT 072907	458,30	66,70	
MD900.3D.230.R.07-C25	23,0	32	25	144	69,0	88	SONT 072907	458,30	66,70	
MD900.3D.235.R.07-C25	23,5	32	25	146	71,0	90	SONT 072907	458,30	66,70	
MD900.3D.240.R.08-C32	24,0	40	32	155	72,0	95	SONT 083308	458,30	66,70	
MD900.3D.245.R.08-C32	24,5	40	32	157	74,0	97	SONT 083308	458,30	66,70	
MD900.3D.250.R.08-C32	25,0	40	32	158	75,0	98	SONT 083308	458,30	66,70	
MD900.3D.255.R.08-C32	25,5	40	32	160	77,0	100	SONT 083308	507,60	73,60	
MD900.3D.260.R.08-C32	26,0	40	32	161	78,0	101	SONT 083308	507,60	73,60	
MD900.3D.265.R.08-C32	26,5	40	32	163	80,0	103	SONT 083308	507,60	73,60	
MD900.3D.270.R.08-C32	27,0	40	32	164	81,0	104	SONT 083308	507,60	73,60	
MD900.3D.275.R.08-C32	27,5	40	32	166	83,0	106	SONT 083308	507,60	73,60	
MD900.3D.280.R.09-C32	28,0	40	32	167	84,0	107	SONT 093808	507,60	73,60	
MD900.3D.285.R.09-C32	28,5	40	32	169	86,0	109	SONT 093808	507,60	73,60	
MD900.3D.290.R.09-C32	29,0	40	32	170	87,0	110	SONT 093808	507,60	73,60	
MD900.3D.295.R.09-C32	29,5	40	32	172	89,0	112	SONT 093808	507,60	73,60	
MD900.3D.300.R.09-C32	30,0	40	32	173	90,0	113	SONT 093808	507,60	73,60	
MD900.3D.305.R.09-C32	30,5	40	32	175	92,0	115	SONT 093808	507,60	73,60	

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ...	PG TO	
									EUR	EUR
									MD900.2D.350.R.10-C40	35,0
MD900.2D.360.R.10-C40	36,0	50	40	169	72	99	SONT 104408	360	504,80	78,20
MD900.2D.370.R.12-C40	37,0	56	40	174	74	104	SONT 124810	370	552,20	80,50
MD900.2D.380.R.12-C40	38,0	56	40	176	76	106	SONT 124810	380	552,20	80,50
MD900.2D.390.R.12-C40	39,0	56	40	178	78	108	SONT 124810	390	552,20	80,50
MD900.2D.400.R.12-C40	40,0	56	40	180	80	110	SONT 124810	400	552,20	80,50
MD900.2D.410.R.12-C40	41,0	56	40	182	82	112	SONT 124810	410	552,20	80,50
MD900.2D.420.R.13-C40	42,0	60	40	187	84	117	SONT 135012	420	580,10	85,10
MD900.2D.430.R.13-C40	43,0	60	40	189	86	119	SONT 135012	430	580,10	85,10
MD900.2D.440.R.13-C40	44,0	60	40	191	88	121	SONT 135012	440	580,10	85,10
MD900.2D.450.R.13-C40	45,0	60	40	193	90	123	SONT 135012	450	580,10	85,10
MD900.2D.460.R.13-C40	46,0	60	40	195	92	125	SONT 135012	460	580,10	85,10
MD900.2D.470.R.15-C40	47,0	60	40	198	94	128	SONT 155312	470	609,40	88,55
MD900.2D.480.R.15-C40	48,0	60	40	200	96	130	SONT 155312	480	609,40	88,55
MD900.2D.490.R.15-C40	49,0	60	40	202	98	132	SONT 155312	490	657,60	95,45
MD900.2D.500.R.15-C40	50,0	60	40	204	100	134	SONT 155312	500	657,60	95,45
MD900.2D.510.R.15-C40	52,0	60	40	208	104	138	SONT 155312	520		

KOMET MaxiDrill 900 – Indexable insert drill

Scope of supply:

Indexable Insert Drill including clamping screws and key

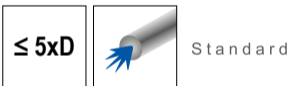
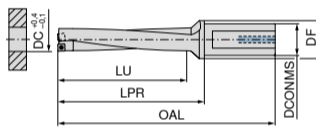


Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 854 ... PG TO	
								EUR	EUR
MD900.4D.120.R.03-C20	12	28	20	114	48	64	SONT 031804	120	599,79 74,75
MD900.4D.130.R.03-C20	13	28	20	118	52	68	SONT 031804	130	599,79 74,75
MD900.4D.140.R.04-C20	14	30	20	123	56	73	SONT 042105	140	624,69 75,90
MD900.4D.150.R.04-C20	15	30	20	127	60	77	SONT 042105	150	624,69 75,90
MD900.4D.160.R.05-C20	16	30	20	131	64	81	SONT 052306	160	636,69 78,20
MD900.4D.170.R.05-C20	17	30	20	135	68	85	SONT 052306	170	636,69 81,65
MD900.4D.180.R.06-C25	18	32	25	146	72	90	SONT 062506	180	656,69 81,65
MD900.4D.190.R.06-C25	19	32	25	150	76	94	SONT 062506	190	656,69 87,40
MD900.4D.200.R.06-C25	20	32	25	154	80	98	SONT 062506	200	656,69 87,40
MD900.4D.210.R.07-C25	21	32	25	159	84	103	SONT 072907	210	656,69 87,40
MD900.4D.220.R.07-C25	22	32	25	163	88	107	SONT 072907	220	656,69 87,40
MD900.4D.230.R.07-C25	23	32	25	167	92	111	SONT 072907	230	648,29 89,70
MD900.4D.240.R.08-C32	24	40	32	179	96	119	SONT 083308	240	648,29 89,70
MD900.4D.250.R.08-C32	25	40	32	183	100	123	SONT 083308	250	648,29 89,70
MD900.4D.260.R.08-C32	26	40	32	187	104	127	SONT 083308	260	693,69 100,05
MD900.4D.270.R.08-C32	27	40	32	191	108	131	SONT 083308	270	693,69 100,05
MD900.4D.280.R.09-C32	28	40	32	195	112	135	SONT 093808	280	693,69 100,05
MD900.4D.290.R.09-C32	29	40	32	199	116	139	SONT 093808	290	693,69 100,05
MD900.4D.300.R.09-C32	30	40	32	203	120	143	SONT 093808	300	693,69 100,05
MD900.4D.310.R.09-C32	31	40	32	207	124	147	SONT 093808	310	741,39 108,10
MD900.4D.320.R.09-C32	32	40	32	211	128	151	SONT 093808	320	741,39 108,10
MD900.4D.330.R.10-C40	33	50	40	228	132	158	SONT 104408	330	741,39 108,10

KOMET MaxiDrill 900 – Indexable insert drill

Scope of supply:

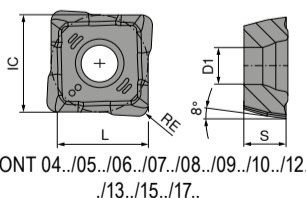
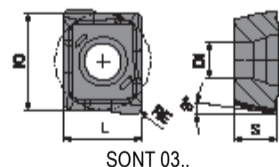
Indexable Insert Drill including clamping screws and key



Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 855 ... PG TO	
								EUR	EUR
MD900.5D.120.R.03-C20	12	28	20	126	60	76	SONT 031804	120	699,39 88,55
MD900.5D.130.R.03-C20	13	28	20	131	65	81	SONT 031804	130	699,39 88,55
MD900.5D.140.R.04-C20	14	30	20	137	70	87	SONT 042105	140	699,39 90,85
MD900.5D.150.R.04-C20	15	30	20	142	75	92	SONT 042105	150	699,39 90,85
MD900.5D.160.R.05-C20	16	30	20	147	80	97	SONT 052306	160	699,39 93,15
MD900.5D.170.R.05-C20	17	30	20	152	85	102	SONT 052306	170	699,39 96,60
MD900.5D.180.R.06-C25	18	32	25	164	90	108	SONT 062506	180	699,39 96,60
MD900.5D.190.R.06-C25	19	32	25	169	95	113	SONT 062506	190	740,69 103,50
MD900.5D.200.R.06-C25	20	32	25	174	100	118	SONT 062506	200	740,69 103,50
MD900.5D.210.R.07-C25	21	32	25	180	105	124	SONT 072907	210	740,69 103,50
MD900.5D.220.R.07-C25	22	32	25	184	110	128	SONT 072907	220	740,69 103,50
MD900.5D.230.R.07-C25	23	32	25	189	115	133	SONT 072907	230	735,69 106,95
MD900.5D.240.R.08-C32	24	40	32	203	120	143	SONT 083308	240	735,69 106,95
MD900.5D.250.R.08-C32	25	40	32	208	125	148	SONT 083308	250	735,69 106,95
MD900.5D.260.R.08-C32	26	40	32	212	130	152	SONT 083308	260	842,19 118,45
MD900.5D.270.R.08-C32	27	40	32	217	135	157	SONT 083308	270	842,19 118,45

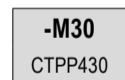
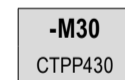
SONT

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



SONT

Standard



ISO	RE mm	10 830 ... PG IH		10 830 ... PG IH	
		EUR	EUR	EUR	EUR
031804	0,4			104	17,07 10,35
042105	0,5			105	18,22 10,35
052306	0,6			106	18,54 10,35
062506	0,6			107	18,04 10,35
072907	0,7			108	19,37 10,35
083308	0,8			109	19,02 11,50
093808	0,8			110	20,76 11,50
104408	0,8			112	21,08 12,65
124810	1,0			113	23,29 13,80
135012	1,2			115	26,43 14,95
155312	1,2			117	27,07 16,10
175612	1,2				

P	●	●
M	●	●
K	○	○
N	○	○
S	○	○
H		
O		

1) two usable cutting edges



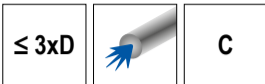
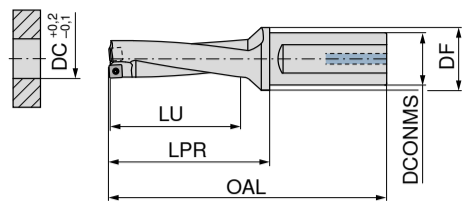
KOMET KUB Pentron – Indexable insert drill

Scope of supply:

Indexable Insert Drill incl. clamping screws



2xD also available



Performance

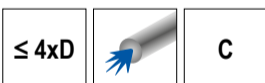
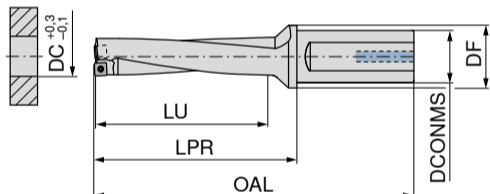
Designation	DC mm	DCONMS mm	DF mm	OAL mm	LU mm	LPR mm	torque moment Nm	Insert	10 873 ...	PG TO
									EUR	EUR
KUB-P.3D.140.R.04-C20	14,0	20	30	105	42	55	0,38	SOGX 040204	14001	451,50 65,55
KUB-P.3D.145.R.04-C20	14,5	20	30	109	45	59	0,38	SOGX 040204	14501	451,50 65,55
KUB-P.3D.150.R.04-C20	15,0	20	30	109	45	59	0,38	SOGX 040204	15001	451,50 65,55
KUB-P.3D.155.R.04-C20	15,5	20	30	114	48	64	0,38	SOGX 040204	15501	451,50 65,55
KUB-P.3D.160.R.04-C20	16,0	20	30	114	48	64	0,38	SOGX 040204	16001	451,50 65,55
KUB-P.3D.165.R.05-C20	16,5	20	30	118	51	68	0,62	SOGX 050204	16501	462,70 65,55
KUB-P.3D.170.R.05-C20	17,0	20	30	118	51	68	0,62	SOGX 050204	17001	462,70 67,85
KUB-P.3D.175.R.05-C25	17,5	25	30	127	54	71	0,62	SOGX 050204	17501	462,70 67,85
KUB-P.3D.180.R.05-C25	18,0	25	30	127	54	71	0,62	SOGX 050204	18001	462,70 67,85
KUB-P.3D.185.R.06-C25	18,5	25	30	131	57	75	1,01	SOGX 060206	18501	476,90 67,85
KUB-P.3D.190.R.06-C25	19,0	25	30	131	57	75	1,01	SOGX 060206	19001	476,90 69,00
KUB-P.3D.195.R.06-C25	19,5	25	30	134	60	78	1,01	SOGX 060206	19501	476,90 69,00
KUB-P.3D.200.R.06-C25	20,0	25	30	134	60	78	1,01	SOGX 060206	20001	476,90 69,00
KUB-P.3D.205.R.07-C25	20,5	25	30	138	63	82	1,01	SOGX 07T208	20501	508,10 73,60
KUB-P.3D.210.R.07-C25	21,0	25	30	138	63	82	1,01	SOGX 07T208	21001	508,10 73,60
KUB-P.3D.215.R.07-C25	21,5	25	30	141	66	85	1,01	SOGX 07T208	21501	508,10 73,60
KUB-P.3D.220.R.07-C25	22,0	25	30	141	66	85	1,01	SOGX 07T208	22002	508,10 73,60
KUB-P.3D.225.R.07-C25	22,5	25	30	145	69	89	1,01	SOGX 07T208	22502	508,10 73,60
KUB-P.3D.230.R.07-C25	23,0	25	30	145	69	89	1,01	SOGX 07T208	23002	508,10 73,60
KUB-P.3D.235.R.08-C32	23,5	32	39	152	72	92	1,28	SOGX 080308	23503	560,50 80,50
KUB-P.3D.240.R.08-C32	24,0	32	39	152	72	92	1,28	SOGX 080308	24003	560,50 80,50
KUB-P.3D.245.R.08-C32	24,5	32	39	156	75	96	1,28	SOGX 080308	24503	560,50 80,50
KUB-P.3D.250.R.08-C32	25,0	32	39	156	75	96	1,28	SOGX 080308	25003	560,50 80,50
KUB-P.3D.255.R.08-C32	25,5	32	39	159	78	99	1,28	SOGX 080308	25503	560,50 80,50
KUB-P.3D.260.R.08-C32	26,0	32	39	159	78	99	1,28	SOGX 080308	26003	560,50 80,50
KUB-P.3D.265.R.09-C32	26,5	32	39	163	81	103	2,25	SOGX 09T308	26503	570,80 83,95
KUB-P.3D.270.R.09-C32	27,0	32	39	163	81	103	2,25	SOGX 09T308	27003	570,80 83,95
KUB-P.3D.275.R.09-C32	27,5	32	39	166	84	106	2,25	SOGX 09T308	27503	570,80 83,95
KUB-P.3D.280.R.09-C32	28,0	32	39	166	84	106	2,25	SOGX 09T308	28003	570,80 83,95
KUB-P.3D.285.R.09-C32	28,5	32	39	170	87	110	2,25	SOGX 09T308	28503	570,80 83,95
KUB-P.3D.290.R.09-C32	29,0	32	39	170	87	110	2,25	SOGX 09T308	29003	570,80 83,95
KUB-P.3D.295.R.09-C32	29,5	32	39	173	90	113	2,25	SOGX 09T308	29503	570,80 83,95
KUB-P.3D.300.R.09-C32	30,0	32	39	173	90	113	2,25	SOGX 09T308	30003	570,80 83,95
KUB-P.3D.305.R.10-C40	30,5	40	50	185	93	117	2,8	SOGX 100408	30504	631,00 92,00

Designation	DC mm	DCONMS mm	DF mm	OAL mm	LU mm	LPR mm	torque moment Nm	Insert	10 873 ...	PG TO
									EUR	EUR
KUB-P.3D.310.R.10-C40	31,0	40	50	185	93	117	2,8	SOGX 100408	31004	631,00 92,00
KUB-P.3D.315.R.10-C40	31,5	40	50	188	96	120	2,8	SOGX 100408	31504	631,00 92,00
KUB-P.3D.320.R.10-C40	32,0	40	50	188	96	120	2,8	SOGX 100408	32004	631,00 92,00
KUB-P.3D.325.R.10-C40	32,5	40	50	192	99	124	2,8	SOGX 100408	32504	631,00 92,00
KUB-P.3D.330.R.10-C40	33,0	40	50	192	99	124	2,8	SOGX 100408	33004	631,00 92,00
KUB-P.3D.335.R.11-C40	33,5	40	50	195	102	127	2,8	SOGX 110408	33504	660,90 96,60
KUB-P.3D.340.R.11-C40	34,0	40	50	195	102	127	2,8	SOGX 110408	34004	660,90 96,60
KUB-P.3D.345.R.11-C40	34,5	40	50	199	105	131	2,8	SOGX 110408	34504	660,90 96,60
KUB-P.3D.350.R.11-C40	35,0	40	50	199	105	131	2,8	SOGX 110408	35004	660,90 96,60
KUB-P.3D.355.R.11-C40	35,5	40	50	202	108	134	2,8	SOGX 110408	35504	660,90 96,60
KUB-P.3D.360.R.11-C40	36,0	40	50	202	108	134	2,8	SOGX 110408	36004	660,90 96,60
KUB-P.3D.365.R.11-C40	36,5	40	50	206	111	138	2,8	SOGX 110408	36504	660,90 96,60
KUB-P.3D.370.R.11-C40	37,0	40	50	206	111	138	2,8	SOGX 110408	37004	660,90 96,60
KUB-P.3D.375.R.12-C40	37,5	40	50	209	114	141	6,25	SOGX 120408	37504	680,60 98,90
KUB-P.3D.380.R.12-C40	38,0	40	50	209	114	141	6,25	SOGX 120408	38004	680,60 98,90
KUB-P.3D.385.R.12-C40	38,5	40	50	213	117	145	6,25	SOGX 120408	38504	680,60 98,90
KUB-P.3D.390.R.12-C40	39,0	40	50	213	117	145	6,25	SOGX 120408	39004	680,60 98,90
KUB-P.3D.395.R.12-C40	39,5	40	50	216	120	148	6,25	SOGX 120408	39504	680,60 98,90
KUB-P.3D.400.R.12-C40	40,0	40	50	216	120	148	6,25	SOGX 120408	40004	680,60 98,90
KUB-P.3D.405.R.12-C40	40,5	40	50	220	123	152	6,25	SOGX 120408	40504	680,60 98,90
KUB-P.3D.410.R.12-C40	41,0	40	50	220	123	152	6,25	SOGX 120408	41004	680,60 98,90
KUB-P.3D.415.R.12-C40	41,5	40	50	223	126	155	6,25	SOGX 120408	41504	680,60 98,90
KUB-P.3D.420.R.12-C40	42,0	40	50	223	126	155	6,25	SOGX 120408	42004	680,60 98,90
KUB-P.3D.425.R.13-C40	42,5	40	50	227	129	159	6,25	SOGX 130508	42504	680,60 98,90
KUB-P.3D.430.R.13-C40	43,0	40	50	227	129	159	6,25	SOGX 130508	43004	680,60 98,90
KUB-P.3D.435.R.13-C40	43,5	40	50	230	132	162	6,25	SOGX 130508	43504	680,60 98,90
KUB-P.3D.440.R.13-C40	44,0	40	50	230	132	162	6,25	SOGX 130508	44004	680,60 98,90
KUB-P.3D.445.R.13-C40	44,5	40	50	234	135	166	6,25	SOGX 130508	44504	680,60 98,90
KUB-P.3D.450.R.13-C40	45,0	40	50	234	135	166	6,25	SOGX 130508	45004	680,60 98,90
KUB-P.3D.455.R.13-C40	45,5	40	50	237	138	169	6,25	SOGX 130508	45504	680,60 98,90
KUB-P.3D.460.R.13-C40	46,0	40	50	237	138	169	6,25	SOGX 130508	46004	680,60 98,90

KOMET KUB Pentron – Indexable insert drill

Scope of supply:

Indexable Insert Drill incl. clamping screws



Performance

Designation	DC mm	DCONMS mm	DF mm	OAL mm	LU mm	LPR mm	torque moment Nm	Insert	10 874 ...	PG TO
									EUR	EUR
KUB-P.4D.140.R.04-C20	14,0	20	30	119	56	69	0,38	SOGX 040204	14001	576,00 83,95
KUB-P.4D.145.R.04-C20	14,5	20	30	124	60	74	0,38	SOGX 040204	14501	576,00 83,95
KUB-P.4D.150.R.04-C20	15,0	20	30	124	60	74	0,38	SOGX 040204	15001	576,00 83,95
KUB-P.4D.155.R.04-C20	15,5	20	30	130	64	80	0,38	SOGX 040204	15501	576,00 83,95
KUB-P.4D.160.R.04-C20	16,0	20	30	130	64	80	0,38	SOGX 040204	16001	576,00 83,95
KUB-P.4D.165.R.05-C20	16,5	20	30	135	68	85	0,62	SOGX 050204	16501	591,40 83,95
KUB-P.4D.170.R.05-C20	17,0	20	30	135	68	85	0,62	SOGX 050204	17001	591,40 86,25
KUB-P.4D.175.R.05-C25	17,5	25	30	145	72	89	0,62	SOGX 050204	17502	591,40 86,25
KUB-P.4D.180.R.05-C25	18,0	25	30	145	72	89	0,62	SOGX 050204	18002	591,40 86,25
KUB-P.4D.185.R.06-C25	18,5	25	30	150	76	94	1,01	SOGX 060206	18502	608,40 86,25
KUB-P.4D.190.R.06-C25	19,0	25	30	150	76	94	1,01	SOGX 060206	19002	608,40 88,55
KUB-P.4D.195.R.06-C25	19,5	25	30	154	80	98	1,01	SOGX 060206	19502	608,40 88,55
KUB-P.4D.200.R.06-C25	20,0	25	30	154	80	98	1,01	SOGX 060206	20002	608,40 88,55
KUB-P.4D.205.R.07-C25	20,5	25	30	159	84	103	1,01	SOGX 07T208	20502	631,00 92,00
KUB-P.4D.210.R.07-C25	21,0	25	30	159	84	103	1,01	SOGX 07T208	21002	631,00 92,00
KUB-P.4D.215.R.07-C25	21,5	25	30	163	88	107	1,01	SOGX 07T208	21502	631,00 92,00
KUB-P.4D.220.R.07-C25	22,0	25	30	163	88	107	1,01	SOGX 07T208	22002	631,00 92,00
KUB-P.4D.225.R.07-C25	22,5	25	30	168	92	112	1,01	SOGX 07T208	22502	631,00 92,00
KUB-P.4D.230.R.07-C25	23,0	25	30	168	92	112	1,01	SOGX 07T208	23002	631,00 92,00
KUB-P.4D.235.R.08-C32	23,5	32	39	176	96	116	1,28	SOGX 080308	23503	665,20 95,45
KUB-P.4D.240.R.08-C32	24,0	32	39	176	96	116	1,28	SOGX 080308	24003	665,20 95,45
KUB-P.4D.245.R.08-C32	24,5									



REAMING



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



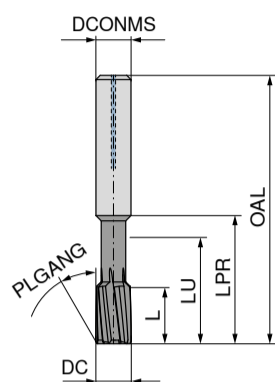
Type N – for all standard low volume applications.

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	
							EUR	EUR
4	12	17	22	50	4	4	04000	134,30 73,60
5	12	23	28	64	6	4	05000	136,40 74,75
6	12	23	28	64	6	4	06000	139,30 75,90
7	16	29	39	75	8	6	07000	145,60 79,35
8	16	29	39	75	8	6	08000	145,60 79,35
9	16	35	40	80	10	6	09000	205,50 112,70
10	16	35	40	80	10	6	10000	205,50 112,70
11	20	40	45	90	12	6	11000	272,00 149,50
12	20	40	45	90	12	6	12000	272,00 149,50
16	20	40	45	93	16	8	16000	404,40 221,95

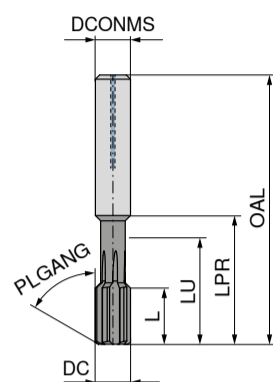
P	●
M	●
K	●
N	○
S	○
H	○
O	○

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	
							EUR	EUR
4	12	17	22	50	4	4	04000	112,00 60,95
5	12	23	28	64	6	4	05000	114,00 62,10
6	12	23	28	64	6	4	06000	119,10 65,55
7	16	29	39	75	8	6	07000	125,20 69,00
8	16	29	39	75	8	6	08000	125,20 69,00
9	16	35	40	80	10	6	09000	179,10 97,75
10	16	35	40	80	10	6	10000	179,10 97,75
11	20	40	45	90	12	6	11000	238,10 131,10
12	20	40	45	90	12	6	12000	238,10 131,10
16	20	40	45	93	16	8	16000	361,90 198,95

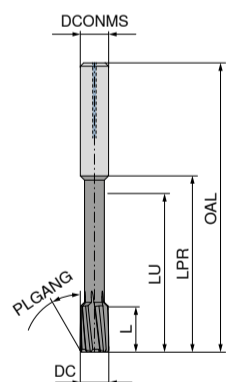
P	●
M	●
K	●
N	○
S	○
H	○
O	○

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	
							EUR	EUR
4	12	28	32	60	4	4	04000	173,40 98,90
5	12	35	40	76	6	4	05000	176,00 100,05
6	12	35	40	76	6	4	06000	179,00 102,35
7	16	60	65	101	8	6	07000	187,70 106,95
8	16	60	65	101	8	6	08000	187,70 106,95
9	16	63	68	108	10	6	09000	265,20 151,80
10	16	63	68	108	10	6	10000	265,20 151,80
11	20	80	85	130	12	6	11000	351,00 201,25
12	20	80	85	130	12	6	12000	351,00 201,25
16	20	97	102	150	16	6	16000	462,20 264,50

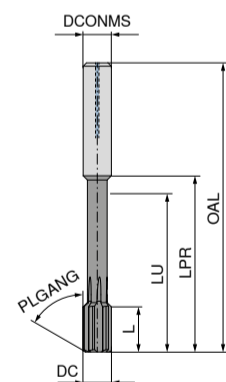
P	●
M	●
K	●
N	○
S	○
H	○
O	○

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

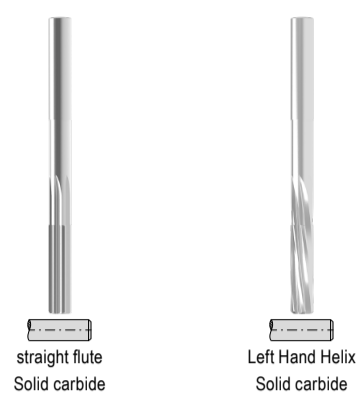
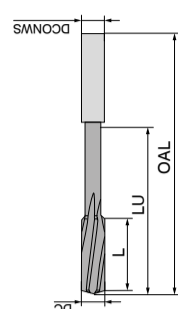
DC _{H7} mm	L mm	LU mm	LPR mm	OAL mm	DCONMS _{H6} mm	ZEFP	40 485 ... PG RT	
							EUR	EUR
4	12	28	32	60	4	4	04000	144,40 81,65
5	12	35	40	76	6	4	05000	147,10 83,95
6	12	35	40	76	6	4	06000	153,70 87,40
7	16	60	65	101	8	6	07000	161,50 92,00
8	16	60	65	101	8	6	08000	161,50 92,00
9	16	63	68	108	10	6	09000	231,10 132,25
10	16	63	68	108	10	6	10000	231,10 132,25
11	20	80	85	130	12	6	11000	307,40 174,80
12	20	80	85	130	12	6	12000	307,40 174,80
16	20	97	102	150	16	6	16000	413,70 235,75

P	●
M	●
K	●
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			
						EUR	EUR	EUR	EUR		
2,0	49	11	31	2,0	4	02000	26,98	23,00	02000	26,98	23,00
2,1	49	11	31	2,0	4	02100	31,95	27,60	02100	31,95	27,60
2,2	53	12	35	2,2	4	02200	31,95	27,60	02200	31,95	27,60
2,3	53	12	35	2,2	4	02300	31,95	27,60	02300	31,95	27,60
2,4	57	14	34	2,5	4	02400	31,95	27,60	02400	31,95	27,60
2,5	57	14	34	2,5	4	02500	27,98	24,15	02500	27,98	24,15
2,6	57	14	34	2,5	4	02600	33,97	28,75	02600	33,97	28,75
2,7	61	15	36	3,0	4	02700	33,97	28,75	02700	33,97	28,75
2,8	61	15	36	3,0	4	02800	33,97	28,75	02800	33,97	28,75
2,9	61	15	36	3,0	4	02900	33,97	28,75	02900	33,97	28,75
3,0	61	15	36	3,0	4	03000	38,96	26,45	03000	38,96	26,45
3,1	61	15	36	3,0	4	03100	36,94	31,05	03100	36,94	31,05
3,2	70	18	40	3,5	4	03200	36,94	31,05	03200	36,94	31,05
3,3	70	18	40	3,5	4	03300	36,94	31,05	03300	36,94	31,05
3,4	70	18	40	3,5	4	03400	36,94	31,05	03400	36,94	31,05
3,5	70	18	40	3,5	4	03500	34,26	29,90	03500	34,26	29,90
3,6	70	18	40	3,5	4	03600	41,14	35,65	03600	41,14	35,65
3,7	70	18	40	3,5	4	03700	41,14	35,65	03700	41,14	35,65
3,8	75	19	43	4,0	4	03800	41,14	35,65	03800	41,14	35,65
3,9	75	19	43	4,0	4	03900	41,14	35,65	03900	41,14	35,65
4,0	75	19	43	4,0	4	04000	36,98	32,20	04000	36,98	32,20
4,1	75	19	43	4,0	4	04100	44,32	39,10	04100	44,32	39,10
4,2	75	19	43	4,0	4	04200	44,32	39,10	04200	44,32	39,10
4,3	75	21	42	4,5	4	04300	44,32	39,10	04300	44,32	39,10
4,4	75	21	42	4,5	4	04400	44,32	39,10	04400	44,32	39,10
4,5	75	21	42	4,5	4	04500	48,11	35,65	04500	48,11	35,65
4,6	75	21	42	4,5	4	04600	48,13	42,55	04600	48,13	42,55
4,7	75	21	42	4,5	4	04700	48,13	42,55	04700	48,13	42,55
4,8	86	23	52	5,0	6	04800	48,13	42,55	04800	48,13	42,55
4,9	86	23	52	5,0	6	04900	48,13	42,55	04900	48,13	42,55
5,0	86	23	52	5,0	6	05000	45,29	39,10	05000	45,29	39,10
5,1	86	23	52	5,0	6	05100	52,99	46,00	05100	52,99	46,00
5,2	86	23	52	5,0	6	05200	52,99	46,00	05200	52,99	46,00
5,3	86	23	52	5,0	6	05300	52,99	46,00	05300	52,99	46,00
5,4	93	26	57	5,6	6	05400	52,99	46,00	05400	52,99	46,00
5,5	93	26	57	5,6	6	05500	47,96	41,40	05500	47,96	41,40
5,6	93	26	57	5,6	6	05600	55,14	48,30	05600	55,14	48,30
5,7	93	26	57	5,6	6	05700	55,14	48,30	05700	55,14	48,30
5,8	93	26	57	5,6	6	05800	55,14	48,30	05800	55,14	48,30
5,9	93	26	57	5,6	6	05900	55,14	48,30	05900	55,14	48,30
6,0	93	26	57	5,6	6	06000	57,29	50,60	06000	57,29	50,60
6,1	93	26	57	5,6	6	06100	65,96	57,50	06100	65,96	57,50
6,2	93	26	57	5,6	6	06200	65,96	57,50	06200	65,96	57,50
6,3	101	28	63	6,3	6	06300	65,96	57,50	06300	65,96	57,50
6,4	101	28	63	6,3	6	06400	65,96	57,50	06400	65,96	57,50

DC _{H7} mm	OAL mm	L mm	LU mm	DCONMS _{H7} mm	ZEFP	40 405 ... PG CX		40 415 ... PG CX			
						EUR	EUR	EUR	EUR		
6,5	101	28	63	6,3	6	06500	64,19	56,35	06500	64,19	56,35
6,6	101	28	63	6,3	6	06600	73,97	65,55	06600	73,97	65,55
6,7	101	28	63	6,3	6	06700	73,97	65,55	06700	73,97	65,55
6,8	109	31	69	7,1	6	06800	73,97	65,55	06800	73,97	65,55
6,9	109	31	69	7,1	6	06900	73,97	65,55	06900	73,97	65,55
7,0	109	31	69	7,1	6	07000	71,84	63,25	07000	71,84	63,25
7,1	109	31	69	7,1	6	07100	82,59	72,45	07100	82,59	72,45
7,2	109	31	69	7,1	6	07200	82,59	72,45	07200	82,59	72,45
7,3	109	31	69	7,1	6	07300	82,59	72,45	07300	82,59	72,45
7,4	109	31	69	7,1	6	07400	82,59	72,45	07400	82,59	72,45
7,5	109	31	69	7,1	6	07500	77,68	69,00	07500	77,68	69,00
7,6	117	33	75	8,0	6	07600	89,49	79,35	07600	89,49	79,35
7,7	117	33	75	8,0	6	07700	89,49	79,35	07700	89,49	79,35
7,8	117	33	75	8,0	6	07800	89,49	79,35	07800	89,49	79,35
7,9	117	33	75	8,0	6	07900	89,49	79,35	07900	89,49	79,35
8,0	117	33	75	8,0	6	08000	82,59	72,45	08000	82,59	72,45
8,1	117	33	75	8,0	6	08100	98,99	80,50	08100	98,99	80,50
8,2	117	33	75	8,0	6	08200	98,99	80,50	08200	98,99	80,50
8,3	117	33	75	8,0	6	08300	98,99	80,50	08300	98,99	80,50
8,4	117	33	75	8,0	6	08400	98,99	80,50	08400	98,99	80,50
8,5	117	33	75	8,0	6	08500	89,67	79,35	08500	89,67	79,35
8,6	125	36	81	9,0	6	08600	98,45	87,40	08600	98,45	87,40
8,7	125	36	81	9,0	6	08700	98,45	87,40	08700	98,45	87,40
8,8	125	36	81	9,0	6	08800	98,45	87,40	08800	98,45	87,40
8,9	125	36	81	9,0	6	08900	98,45	87,40	08900	98,45	87,40
9,0	125	36	81	9,0	6	09000	96,08	85,10	09000	96,08	85,10
9,1	125	36	81	9,0	6	09100	105,69	93,15	09100	105,69	93,15
9,2	125	36	81	9,0	6	09200	105,69	93,15	09200	105,69	93,15
9,3	125	36	81	9,0	6	09300	105,69	93,15	09300	105,69	93,15
9,4	125	36	81	9,0	6	09400	105,69	93,15	09400	105,69	93,15
9,5	125	36	81	9,0	6	09500	102,89	90,85	09500	102,89	90,85
9,6	133	38	87	10,0	6	09600	113,29	100,05	09600	113,29	100,05
9,7	133	38	87	10,0	6	09700	113,29	100,05	09700	113,29	100,05
9,8	133	38	87	10,0	6	09800	113,29	100,05	09800	113,29	100,05
9,9	133	38	87	10,0	6	09900	113,29	100,05	09900	113,29	100,05
10,0	133	38	87	10,0	6	10000	110,89	97,75	10000	110,89	97,75
10,1	133	38	87	10,0	6	10100	122,09	108,10	10100	122,09	108,10
10,2	133	38	87	10,0	6	10200	122,09	108,10	10200	122,09	108,10
10,3	133	38	87	10,0	6	10300	122,09	108,10	10300	122,09	108,10
10,4	133	38	87	10,0	6	10400	122,09	108,10	10400	122,09	108,10
10,5	133	38	87	10,0	6	10500	115,99	102,35	10500	115,99	102,35
10,6	133	38	87	10,0	6	10600	127,39	112,70	10600	127,39	112,70
10,7	142	41	96	10,0	6	10700	127,39	112,70	10700	127,39	112,70
10,8	142	41	96	10,0	6	10800	127,39	112,70	10800	127,39	112,70
10,9	142	41	96	10,0	6	10900	127,39	112,70	10900	127,39	112,70
11,0	142	41	96	10,0	6	11000	125,49	110,40	11000	125,49	110,40
11,1	142	41	96	10,0	6	11100	138,79	123,05	11100	138,79	123,05
11,2	142	41	96	10,0	6	11200	138,79	123,05	11200	138,79	123,05
11,3	142	41	96	10,0	6	11300	138,79	123,05	11300	138,79	123,05
11,4	142	41	96	10,0	6	11400	138,79	123,05	11400	138,79	123,05
11,5	142	41	96	10,0	6	11500	133,89	118,45	11500	133,89	118,45
11,6	142	41	96	10,0	6	11600	146,59	129,95	11600	146,59	129,95
11,7	142	41	96	10,0	6	11700	146,59	129,95	11700	146,59	129,95
11,8	142	41	96	10,0	6	11800	146,59	129,95	11800	146,59	129,95
11,9	151	44	100	10,0	6	11900	146,59	129,95	11900	146,59	129,95
12,0	151	44	100	10,0	6	12000	143,99	127,65	12000	143,99	127,65

P	●	●
M	●	●
K	○	○
N	●	●
S	●	●
H		
O		



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HSS TAPS



UNI – universal taps for all standard materials.



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

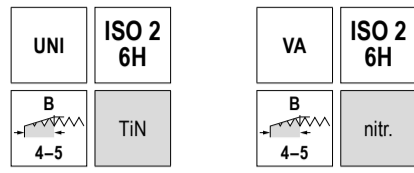


Roll tapping – For all suitable applications and materials.

Through hole – Machine taps, right hand

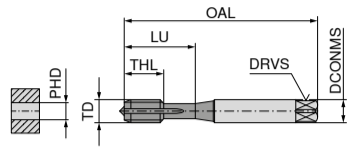


Standard



POWDERSTEEL
HSS-PM

FHA 0°
≤ 1000 N/mm²
≤ 3xD

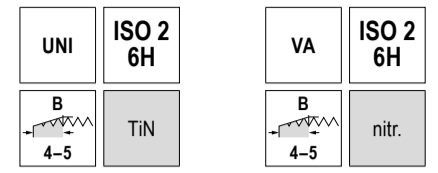


TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	Flutes	23 010 ... PG CX		23 450 ... PG CX			
									EUR	EUR	EUR	EUR		
M2	0,40	45	2,8	2,1	1,6	4	13,5	2	020	9,95	8,05			
M3	0,50	56	3,5	2,7	2,5	11	18,0	3	030	12,40	10,35	030	11,94	11,50
M4	0,70	63	4,5	3,4	3,3	13	21,0	3	040	14,38	9,20	040	12,84	11,50
M5	0,80	70	6,0	4,9	4,2	15	25,0	3	050	17,73	10,35	050	13,04	12,65
M6	1,00	80	6,0	4,9	5,0	17	30,0	3	060	15,19	12,65	060	13,23	12,65
M8	1,25	90	8,0	6,2	6,8	20	35,0	3	080	16,93	14,95	080	14,79	12,65
M10	1,50	100	10,0	8,0	8,5	22	39,0	3	100	22,34	19,55	100	16,84	14,95

Through hole – Machine taps, right hand

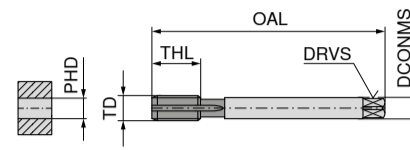


Standard



POWDERSTEEL
HSS-PM

FHA 0°
≤ 1000 N/mm²
≤ 3xD

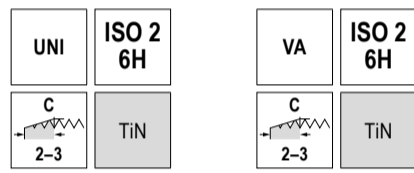


TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	Flutes	23 021 ... PG CX		23 451 ... PG CX			
								EUR	EUR	EUR	EUR		
M12	1,75	110	9	7	10,2	24	3	120	26,66	23,00	120	29,99	26,45
M14	2,00	110	11	9	12,0	26	3	140	40,41	35,65	140	39,64	34,50
M16	2,00	110	12	9	14,0	27	3	160	37,54	33,35	160	41,99	36,80
M18	2,50	125	14	11	15,5	25	4	180	65,73	57,50			
M20	2,50	140	16	12	17,5	32	3	200	67,99	59,80	200	62,74	55,20

Blind hole – Machine taps, right hand

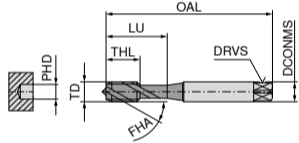


Standard



POWDERSTEEL
HSS-PM

FHA 50°
≤ 1000 N/mm²
≤ 2,5xD

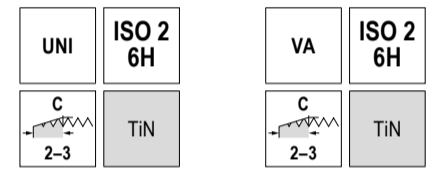


TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	Flutes	23 026 ... PG CX		23 456 ... PG CX			
									EUR	EUR	EUR	EUR		
M3	0,50	56	3,5	2,7	2,5	6	18	3	030	13,97	11,50	030	14,23	12,65
M4	0,70	63	4,5	3,4	3,3	7	21	3	040	13,97	11,50	040	15,53	13,80
M5	0,80	70	6,0	4,9	4,2	8	25	3	050	15,63	12,65	050	15,84	13,80
M6	1,00	80	6,0	4,9	5,0	10	30	3	060	17,48	14,95	060	20,42	17,25
M8	1,25	90	8,0	6,2	6,8	14	35	3	080	20,74	18,40	080	24,83	18,40
M10	1,50	100	10,0	8,0	8,5	16	39	3	100	26,95	23,00	100	30,13	26,45

Blind hole – Machine taps, right hand

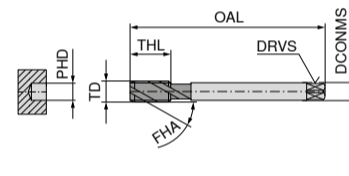


Standard



POWDERSTEEL
HSS-PM

FHA 50°
≤ 1000 N/mm²
≤ 2,5xD

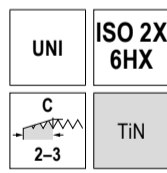


TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	Flutes	23 027 ... PG CX		23 457 ... PG CX			
								EUR	EUR	EUR	EUR		
M12	1,75	110	9	7	10,2	18	4	120	30,79	26,45	120	43,99	39,10
M14	2,00	110	11	9	12,0	20	4	140	44,34	39,10	140	44,34	39,10
M16	2,00	110	12	9	14,0	22	4	160	44,34	39,10	160	55,44	48,30
M20	2,50	140	16	12	17,5	25	3	200	50,74	44,85	200	110,09	97,75

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

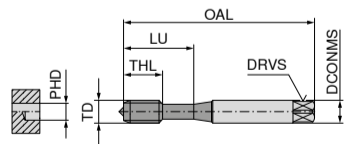


Standard



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		
								EUR	EUR	
M2	0,40	45	2,8	2,1	1,85	7	12	020	26,02	23,00
M2,5	0,45	50	2,8	2,1	2,33	9	14	025	23,15	20,70
M3	0,50	56	3,5	2,7	2,80	11	18	030	16,84	14,95
M4	0,70	63	4,5	3,4	3,70	13	21	040	17,45	14,95
M5	0,80	70	6,0	4,9	4,65	15	25	050	18,59	16,10
M6	1,00	80	6,0	4,9	5,60	17	30	060	24,99	19,55
M8	1,25	90	8,0	6,2	7,45	20	35	080	24,52	21,85
M10	1,50	100	10,0	8,0	9,35	22	39	100	32,68	28,75

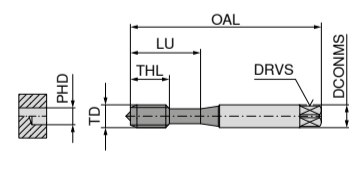


Standard



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		
								EUR	EUR	
M2	0,40	45	2,8	2,1	1,85	7	12	020	20,49	26,45
M2,5	0,45	50	2,8	2,1	2,33	9	14	025	26,76	23,00
M3	0,50	56	3,5	2,7	2,80	11	18	030	19,15	17,25
M4	0,70	63	4,5	3,4	3,70	13	21	040	19,89	17,25
M5	0,80	70	6,0	4,9	4,65	15	25	050	24,04	18,40
M6	1,00	80	6,0	4,9	5,60	17	30	060	24,33	21,85
M8	1,25	90	8,0	6,2	7,45	20	35	080	27,48	24,15
M10	1,50	100	10,0	8,0	9,35	22	39	100	35,64	31,05



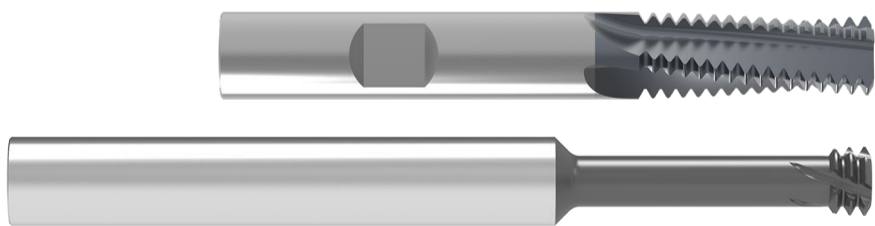
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THREAD MILLING CUTTERS



Standard Line

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

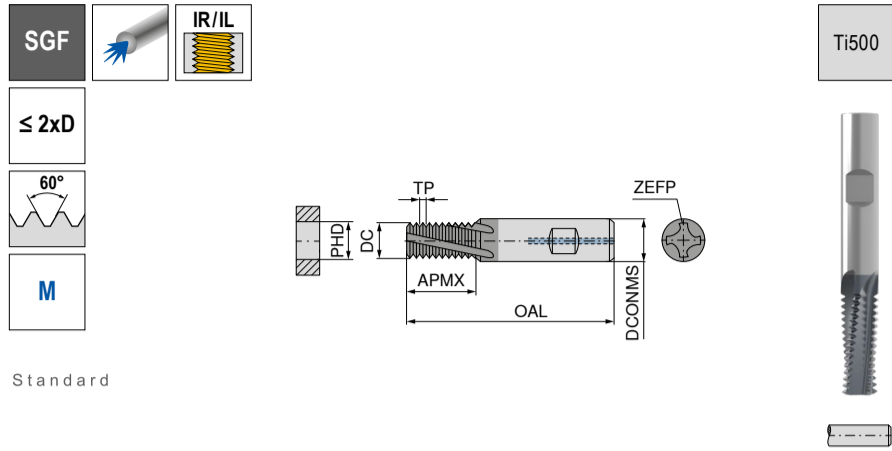


Performance Line

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

MonoThread – Thread milling cutter

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



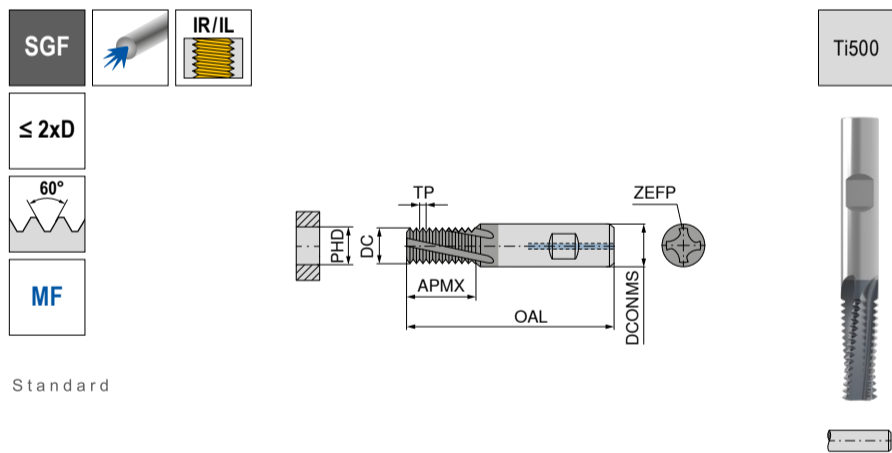
Standard

DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} mm	OAL mm	ZEFP	PHD mm	Solid carbide	
								54 821 ...	PG CX
								EUR	EUR
2,40	M3	0,50	7,0	4	42	2	2,50	03000 ¹⁾	108,40 95,45
3,15	M4	0,70	10,0	6	55	3	3,30	04000 ²⁾	123,20 109,25
4,00	M5	0,80	12,2	6	55	3	4,20	05000 ²⁾	123,20 109,25
4,80	M6	1,00	14,3	6	55	3	5,00	06000 ²⁾	126,00 112,70
6,00	M8	1,25	19,0	6	60	3	6,75	08000	135,00 120,75
8,00	M10	1,50	23,0	8	70	3	8,50	10000	160,00 164,45
9,90	M12	1,75	28,6	10	75	4	10,25	12000	194,00 172,50
11,60	M14	2,00	32,6	12	85	4	12,00	14000	238,00 230,00
12,00	M16	2,00	36,6	12	85	4	14,00	16000	245,00 241,50
14,00	M18	2,50	43,3	14	90	4	15,50	18000	292,00 285,20
16,00	M20	2,50	43,3	16	90	4	17,50	20000	298,00 265,65
P									●
M									○
K									●
N									●
S									●
H									●
O									●

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

MonoThread – Thread milling cutter

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



Standard

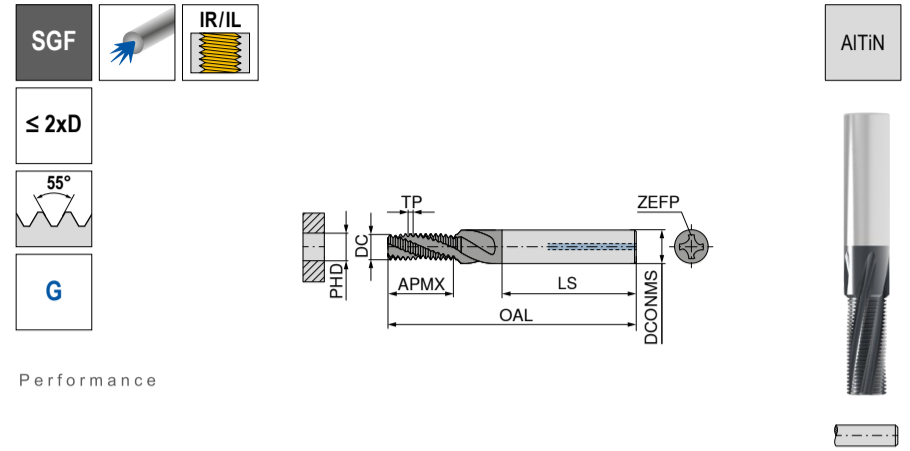
DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} mm	OAL mm	ZEFP	PHD mm	Solid carbide	
								54 822 ...	PG CX
								EUR	EUR
4,0	M 5x0,5	0,50	11,6	6	55	3	4,50	05000 ¹⁾	128,40 113,85
4,8	M 6x0,75	0,75	14,5	6	55	3	5,25	06000 ¹⁾	132,20 129,95
6,0	M 8x1	1,00	19,3	6	60	3	7,00	08000	141,00 135,70
8,0	M 10x1,25	1,25	21,6	8	70	3	8,75	10000	176,00 164,45
9,9	M 12x1	1,00	27,3	10	75	4	11,00	12000	203,00 198,95
9,9	M 12x1,25	1,25	27,9	10	75	4	10,75	12100	203,00 198,95
9,9	M 12x1,5	1,50	27,5	10	75	4	10,50	12200	203,00 198,95
11,6	M 14x1	1,00	31,3	12	85	4	13,00	14000	248,70 230,00
11,6	M 14x1,5	1,50	32,0	12	85	4	12,50	14100	248,70 230,00
12,0	M 16x1,5	1,50	35,0	12	85	4	14,50	16000	255,00 241,50
14,0	M 18x1,5	1,50	42,5	14	90	4	16,50	18000	304,00 285,20
16,0	M 20x1,5	1,50	42,5	16	90	4	18,50	20000	341,40 296,70
P									●
M									○
K									●
N									●
S									●
H									●
O									●

1) DIN 6535 HA Shank / Without Through Coolant

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

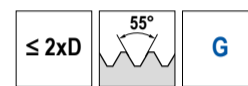
MonoThread – Thread Milling Cutter

▲ Profile corrected



Performance

DC mm	Thread	TP mm	OAL mm	APMX mm	LS mm	DCONMS _{h6} mm	ZEFP	Solid carbide		
								50 530 ...	PG CS	
								EUR	EUR	
7,79	G 1/8-28	0,907	74	20,35	40	10	4	8,80	01800	262,00 233,45
10,92	G 1/4-19	1,337	89	27,34	45	14	5	11,80	01400	293,00 261,05
13,92	G 3/8-19	1,337	102	35,36	48	16	5	15,25	03800	440,40 364,55
15,90	G 1-11	2,309	102	33,29	48	16	5	30,75	10000	488,00 434,70
15,98	G 1/2-14	1,814	110	42,51	50	20	5	19,00	01200	488,00 389,85

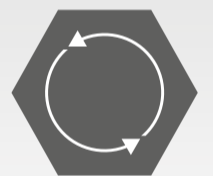


DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEFP	Solid carbide	
								50 569 ...	PG CS
								EUR	EUR
7,790	G1/8	0,907	64	2,72	19,5	8	3	01800	123,40 109,25
10,015	G 1/4-3/8	1,337	73	4,01	30,0	10	4	01400	145,00 128,80
12,013	G 1/2-G7/8	1,814	84	5,44	37,0	12	4	01200	180,00 159,85
15,900	G 1-2	2,309	105	6,93	44,0	16	4	01000	297,20 210,45

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

Our recycling service

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



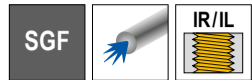
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MonoThread – Thread Milling Cutter

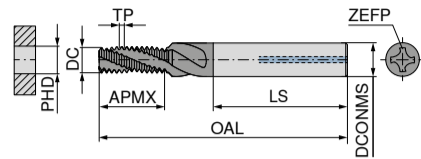
▲ Profile corrected



≤ 2xD



M



AITiN



Performance

DC mm	Thread	TP mm	OAL mm	APMX mm	LS mm	DCONMS _{h6} mm	ZEPF	PHD mm	50 531 ...	PG	CS
2,44	M3	0,50	42	6,24	36	4	3	2,5	03000 ¹⁾	178,70	108,10
3,14	M4	0,70	49	8,00	36	6	3	3,3	04000	189,90	119,60
3,95	M5	0,80	55	10,00	36	6	3	4,2	05000	189,90	119,60
4,68	M6	1,00	55	12,47	36	6	4	5,0	06000	195,50	123,05
6,22	M8	1,25	62	16,83	36	8	4	6,8	08000	205,90	129,95
7,79	M10	1,50	74	20,20	40	10	4	8,5	10000	235,40	148,35
9,38	M12	1,75	79	25,32	45	12	5	10,2	12000	270,70	170,20
10,92	M14	2,00	89	28,93	45	14	5	12,0	14000	331,60	209,30
12,83	M16	2,00	102	32,94	48	16	5	14,0	16000	340,40	215,05
15,83	M20	2,50	110	41,17	50	20	5	17,5	20000	415,20	262,20

1) Without Through Coolant

MonoThread – Thread Milling Cutter

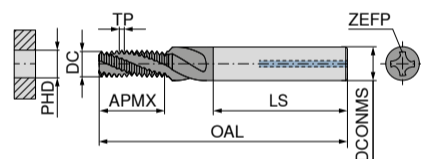
▲ Profile corrected



≤ 2xD



UNJC

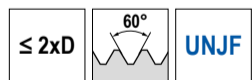


AITiN



Performance

DC mm	Thread	TP mm	OAL mm	APMX mm	LS mm	DCONMS _{h6} mm	ZEPF	PHD mm	50 524 ...	PG	CS
4,70	UNJC 1/4-20	0,907	55	14,27	36	6	4	5,6	01400	173,40	120,75
6,22	UNJC 5/16-18	1,411	62	16,32	36	8	4	7,0	05160	188,20	132,25
7,79	UNJC 3/8-16	1,588	74	20,01	40	10	4	8,6	03800	201,00	141,45
8,57	UNJC 7/16-14	1,814	79	22,87	45	12	4	10,0	07160	254,60	178,25
9,38	UNJC 1/2-13	1,270	79	26,75	45	12	5	11,5	01200	254,60	178,25



DC mm	Thread	TP mm	OAL mm	APMX mm	LS mm	DCONMS _{h6} mm	ZEPF	PHD mm	50 533 ...	PG	CS
2,44	UNJF 6-40	0,635	42	7,42	28	4	3	2,95	06000	170,70	108,10
3,14	UNJF 8-36	0,706	49	8,91	36	6	3	3,50	08000	186,70	117,30
3,95	UNJF 10-32	0,794	55	9,97	36	6	3	4,10	10000	186,70	117,30
4,70	UNJF 1/4-28	0,907	55	14,27	36	6	4	5,60	01400	192,30	120,75
6,22	UNJF 5/16-24	1,058	62	16,59	36	8	4	7,00	05160	200,40	132,25
7,79	UNJF 3/8-24	1,058	74	19,77	40	10	4	8,60	03800	224,30	141,45
9,32	UNJF 7/16-20	1,270	79	22,39	45	12	5	10,00	07160	224,30	141,45
9,38	UNJF 1/2-20	1,270	79	25,34	45	12	5	11,50	01200	282,00	178,25
12,90	UNJF 5/8-18	1,411	102	33,59	48	16	5	14,50	05800	340,40	215,05

P	●
M	●
K	●
N	●
S	●
H	●
O	●

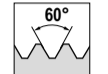


MonoThread – Circular shank thread milling cutter

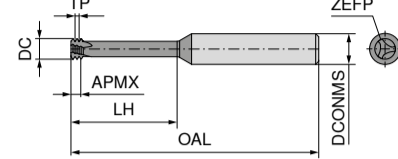
▲ Profile corrected



≤ 3xD



M

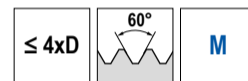


AITiN



Performance

DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEPF	50 545 ...	PG	CS
1,53	M2	0,40	39	0,80	6,0	3	3	02000	99,74	88,55
2,37	M3	0,50	58	1,35	9,5	6	3	03000	99,74	88,55
3,10	M4	0,70	58	1,95	12,5	6	3	04000	99,74	88,55
3,80	M5	0,80	58	2,30	16,0	6	3	05000	99,74	88,55
4,65	M6	1,00	58	2,70	20,0	6	3	06000	99,74	88,55
6,00	M8	1,25	58	3,20	24,0	6	3	08000	99,74	88,55
7,80	M10	1,50	64	3,80	31,5	8	3	10000	124,30	110,40
9,00	M12	1,75	73	4,55	37,8	10	3	12000	139,70	124,20



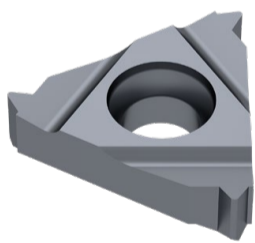
DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEPF	50 550 ...	PG	CS
1,53	M2	0,40	39	1,00	10,4	3	3	02000 ¹⁾	112,20	98,90
2,37	M3	0,50	39	1,30	12,5	3	3	03000	107,30	95,45
3,10	M4	0,70	58	1,80	16,7	6	3	04000	107,30	95,45
4,00	M5	0,80	58	2,10	20,8	6	3	05000	107,30	95,45
4,80	M6	1,00	58	2,55	25,0	6	3	06000	107,30	95,45
6,40	M8	1,25	64	3,15	33,5	8	3	08000	132,00	117,30
8,00	M10	1,50	76	3,85	41,5	8	3	10000	132,00	117,30

P	●
M	○
K	○
N	●
S	●
H	●
O	●

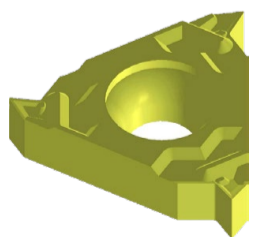
1) 5xD



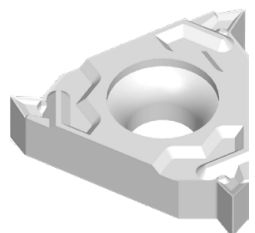
THREAD TURNING



CTPP525 – Universal grade for all normal materials.



CTPX525 – Universal grade for use on all normal materials.



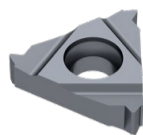
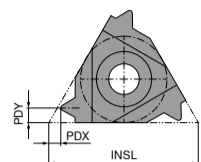
CTPM520 – Tough and temperature/wear resistant grade for machining stainless steels and hard to machine materials.

Right hand external thread turning insert

▲ Full profile



Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm	71 220 ...	
					EUR	EUR
11 ER 0,35	0,35	11	0,8	0,4	00401	10,35
11 ER 0,4	0,40	11	0,7	0,4	00601	10,35
11 ER 0,45	0,45	11	0,7	0,4	00801	10,35
11 ER 0,5	0,50	11	0,6	0,6	00901	10,35
11 ER 0,6	0,60	11	0,6	0,6	01001	10,35
11 ER 0,7	0,70	11	0,6	0,6	01101	10,35
11 ER 0,75	0,75	11	0,6	0,6	01201	10,35
11 ER 0,8	0,80	11	0,6	0,6	01301	10,35
11 ER 1,0	1,00	11	0,7	0,7	01401	10,35
11 ER 1,25	1,25	11	0,8	0,9	01601	10,35
11 ER 1,5	1,50	11	0,8	1,0	01801	10,35
11 ER 1,75	1,75	11	0,8	1,1	02001	10,35

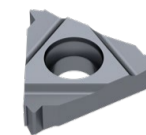
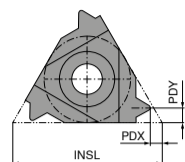
P	●
M	○
K	●
N	○
S	○
H	○
O	○

Right hand internal thread turning insert

▲ Full profile



Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm	71 224 ...	
					EUR	EUR
11 IR 0,35	0,35	11	0,8	0,3	00401	10,35
11 IR 0,5	0,50	11	0,6	0,6	00901	10,35
11 IR 0,7	0,70	11	0,6	0,6	01101	10,35
11 IR 0,75	0,75	11	0,6	0,6	01201	10,35
11 IR 0,8	0,80	11	0,6	0,6	01301	10,35
11 IR 1,0	1,00	11	0,6	0,7	01401	10,35
11 IR 1,25	1,25	11	0,8	0,9	01601	10,35
11 IR 1,5	1,50	11	0,8	1,0	01801	10,35
11 IR 1,75	1,75	11	0,9	1,1	02001	10,35
11 IR 2,0	2,00	11	0,9	1,1	02201	10,35
11 IR 2,5	2,50	11	0,9	1,1	02401	10,35

P	●
M	○
K	●
N	○
S	○
H	○
O	○

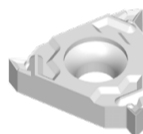
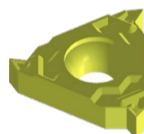
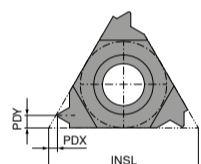
Right hand external thread turning insert

▲ Thread-turning inserts precision-sintered with chip breaker

▲ Full profile



Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm	71 220 ...	
					EUR	EUR
16 ER-M 1,0	1,00	16	0,7	0,7	04400	10,35
16 ER-M 1,25	1,25	16	0,8	0,9	04600	10,35
16 ER-M 1,5	1,50	16	0,8	1,0	04800	10,35
16 ER-M 1,75	1,75	16	0,9	1,2	05000	10,35
16 ER-M 2,0	2,00	16	1,0	1,3	05200	10,35
16 ER-M 2,5	2,50	16	1,1	1,5	05400	10,35
16 ER-M 3,0	3,00	16	1,2	1,6	05600	10,35

P	●
M	○
K	○
N	○
S	○
H	○
O	○

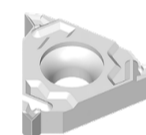
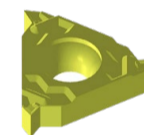
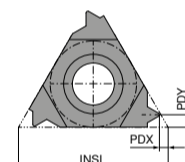
Right hand internal thread turning insert

▲ Thread-turning inserts precision-sintered with chip breaker

▲ Full profile



Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm	71 224 ...	
					EUR	EUR
16 IR-M 1,0	1,00	16	0,6	0,7	04400	10,35
16 IR-M 1,25	1,25	16	0,8	0,9	04600	10,35
16 IR-M 1,5	1,50	16	0,8	1,0	04800	10,35
16 IR-M 1,75	1,75	16	0,9	1,2	05000	10,35
16 IR-M 2,0	2,00	16	1,0	1,3	05200	10,35
16 IR-M 2,5	2,50	16	1,1	1,5	05400	10,35
16 IR-M 3,0	3,00	16	1,1	1,5	05600	10,35

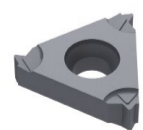
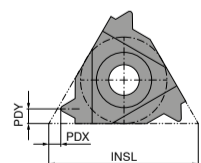
P	●
M	○
K	○
N	○
S	○
H	○
O	○

Right hand external thread turning insert

▲ Full profile



Performance



Designation	TPI 1/"	INSL mm	PDX mm	PDY mm	71 228 ...	
					EUR	EUR
16 ER 11	11	16	1,1	1,5	966	10,35
16 ER 14	14	16	1,0	1,2	962	10,35
16 ER 19	19	16	0,8	1,0	956	10,35

P	●
M	○
K	●
N	○
S	○
H	○
O	○

Tool data always at your fingertips

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

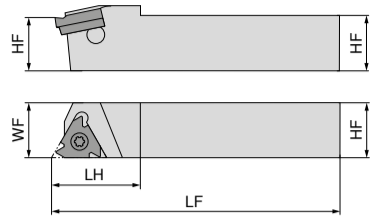
In addition to detailed cutting data we also offer 2D and 3D models to assist you with your tool management or for simulating an operation. All data for this Service is available for you in our Online Shop.



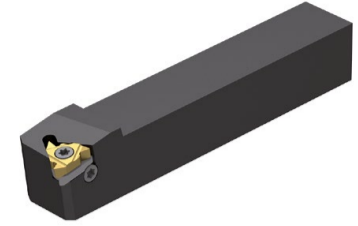
Standard External Thread Turning Holder

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

Performance



Illustrations show right-hand versions



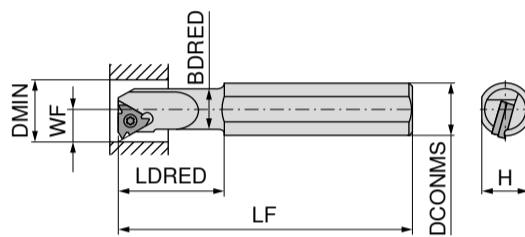
ISO designation	HF	WF	LF	LH	H	Insert	torque moment
	mm	mm	mm	mm	mm		Nm
SE R 12 12 F16	12	16	80	22	12	16 ..	3,5
SE R 16 16 H16	16	16	100	25	16	16 ..	3,5
SE R 20 20 K16	20	20	125	30	20	16 ..	3,5
SE R 25 25 M16	25	25	150	30	25	16 ..	3,5
SE R 32 32 P16	32	32	170	30	32	16 ..	3,5

Right-hand		PG	TO
71 280 ...	EUR	EUR	
012	428,30	24,15	
016	457,80	29,90	
020	457,80	29,90	
025	494,10	33,35	
032	490,30	36,80	

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

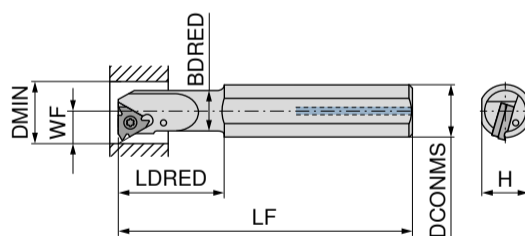
Left-hand		PG	TO	Right-hand		PG	TO
71 283 ...	EUR	EUR		71 282 ...	EUR	EUR	
010 ¹⁾	430,20	25,30		011 ¹⁾	484,10	33,35	
				010 ¹⁾	430,20	25,30	
				013 ¹⁾	448,00	27,60	
015 ¹⁾	450,70	28,75		015 ¹⁾	450,70	28,75	
016 ¹⁾	450,70	28,75		016 ¹⁾	450,70	28,75	
020	477,60	33,35		020	477,60	33,35	
				026	215,50	40,25	
032	232,00	43,70		032	232,00	43,70	
				040	344,00	65,55	

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 ...	EUR	EUR		71 282 ...	EUR	EUR	
310	465,60	31,05		510 ²⁾	604,00	108,10	
				512 ²⁾	630,40	113,85	
315	484,10	33,35		310	465,60	31,05	
				315	484,10	33,35	
				316	484,10	33,35	
332 ¹⁾	262,00	49,45		320 ¹⁾	244,00	40,25	
				332 ¹⁾	262,00	49,45	

1) with shim seat
2) Carbide version



Technical support: 1800 93 22 55

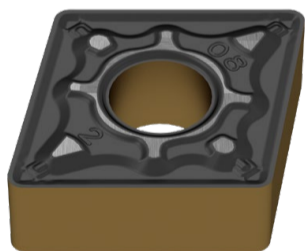
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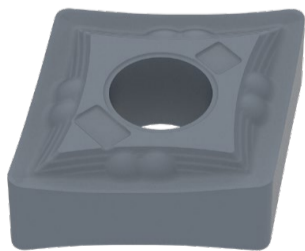
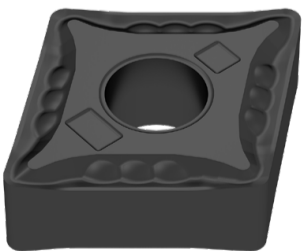
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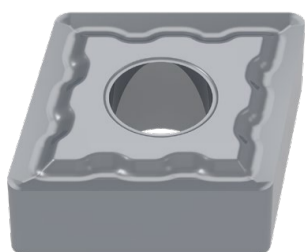
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→ valid for inserts on page 35–40

→ See tool holders on page 41–43

CNMG

Performance

ISO	RE mm	M		M		M	
		76 135 ...	PG TR	76 135 ...	PG TR	76 135 ...	PG TR
		EUR	EUR	EUR	EUR	EUR	EUR
120404EN	0,4	32801	14,80	8,05	52801	14,80	8,05
120408EN	0,8	33001	14,80	8,05	53001	14,80	8,05
120412EN	1,2	32001	14,80	8,05	53201	14,80	8,05
120416EN	1,6	33401	14,80	8,05	53401	14,80	8,05
160608EN	0,8	34201	23,90	13,80	54201	23,90	13,80
160612EN	1,2	34401	23,90	13,80	54401	23,90	13,80
160616EN	1,6	34601	23,90	13,80	54601	23,90	13,80

Material compatibility: P, M, K, N, S, H, O

DNMG

Performance

ISO	RE mm	M		M		M	
		76 136 ...	PG TR	76 136 ...	PG TR	76 136 ...	PG TR
		EUR	EUR	EUR	EUR	EUR	EUR
110404EN	0,4	30401	15,70	9,20	50401	15,70	9,20
110408EN	0,8	30601	15,70	9,20	50601	15,70	9,20
110412EN	1,2	30801	15,70	9,20	50801	15,70	9,20
150404EN	0,4	31601	19,14	10,35	51601	19,14	10,35
150408EN	0,8	31801	19,14	10,35	51801	19,14	10,35
150412EN	1,2	32001	19,14	10,35	51601	19,14	10,35
150416EN	1,6	32201	19,14	10,35	52201	19,14	10,35
150604EN	0,4	32801	26,73	11,50	52801	26,73	11,50
150608EN	0,8	33001	26,73	11,50	53001	26,73	11,50
150612EN	1,2	33201	26,73	11,50	53201	26,73	11,50
150616EN	1,6	33401	26,73	11,50	53401	26,73	11,50

Material compatibility: P, M, K, N, S, H, O

TNMG

Performance

ISO	RE mm	M		M		M	
		76 138 ...	PG TR	76 138 ...	PG TR	76 138 ...	PG TR
		EUR	EUR	EUR	EUR	EUR	EUR
160404EN	0,4	31601	13,20	6,90	51601	13,20	6,90
160408EN	0,8	31801	13,20	6,90	51801	13,20	6,90
160412EN	1,2	32001	13,20	6,90	52001	13,20	6,90
220408EN	0,8	33001	17,83	10,35	53001	17,83	10,35
220412EN	1,2	33201	17,83	10,35	53201	17,83	10,35

Material compatibility: P, M, K, N, S, H, O

WNMG

Performance

ISO	RE mm	M		M		M	
		76 139 ...	PG TR	76 139 ...	PG TR	76 139 ...	PG TR
		EUR	EUR	EUR	EUR	EUR	EUR
060404EN	0,4	30401	12,88	6,90	50401	12,88	6,90
060408EN	0,8	30601	12,88	6,90	50601	12,88	6,90
060412EN	1,2	30801	12,88	6,90	50801	12,88	6,90
080404EN	0,4	31601	16,23	9,20	51601	16,23	9,20
080408EN	0,8	31801	16,23	9,20	51801	16,23	9,20
080412EN	1,2	32001	16,23	9,20	52001	16,23	9,20
080416EN	1,6	32201	16,23	9,20	52201	16,23	9,20

Material compatibility: P, M, K, N, S, H, O



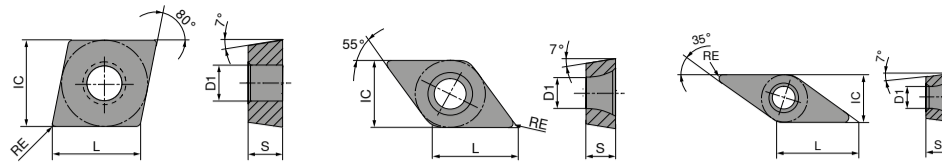
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CCMT / DCMT / VCMT

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	-SF CTCP115-P		-SF CTCP125-P		-SF CTCP135-P		-SM CTCP115-P		-SM CTCP125-P		-SM CTCP135-P	
		76 253 ...	PG TR	76 253 ...	PG TR	76 253 ...	PG TR	76 252 ...	PG TR	76 252 ...	PG TR	76 252 ...	PG TR
		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
060204EN	0,4	30401	10,00 5,75	50401	10,00 5,75	70401	10,00 5,75	30401	10,00 5,75	50401	10,00 5,75	70401	10,00 5,75
060208EN	0,8							30601	10,00 5,75			70601	10,00 5,75
09T304EN	0,4	31601	12,50 6,90	51601	12,50 6,90	71601	12,50 6,90	31601	12,50 6,90	51601	12,50 6,90	71601	12,50 6,90
09T308EN	0,8	31801	12,50 6,90	51801	12,50 6,90	71801	12,50 6,90	31801	12,50 6,90	51801	12,50 6,90	71801	12,50 6,90
120404EN	0,4			52801	17,70 10,35			32801	17,70 10,35	52801	17,70 10,35	72801	17,70 10,35
120408EN	0,8			53001	17,70 10,35			33001	17,70 10,35	53001	17,70 10,35	73001	17,70 10,35
120412EN	1,2							53201	17,70 10,35				

Material compatibility: P, M, K, N, S, H, O

DCMT

Performance

ISO	RE mm	-SF CTCP125-P		-SF CTCP135-P		-SM CTCP115-P		-SM CTCP125-P		-SM CTCP135-P	
		76 259 ...	PG TR	76 259 ...	PG TR	76 258 ...	PG TR	76 258 ...	PG TR	76 258 ...	PG TR
		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
070204EN	0,4	50401	10,00 5,75	70401	10,00 5,75	30401	10,00 5,75	50401	10,00 5,75	70401	10,00 5,75
070208EN	0,8					30601	10,00 5,75	50601	10,00 5,75	70601	10,00 5,75
11T304EN	0,4	51601	14,15 8,05	71601	14,15 8,05	31601	14,15 8,05	51601	14,15 8,05	71601	14,15 8,05
11T308EN	0,8	51801	14,15 8,05	71801	14,15 8,05	31801	14,15 8,05	51801	14,15 8,05	71801	14,15 8,05
11T312EN	1,2							52001	14,15 8,05		

Material compatibility: P, M, K, N, S, H, O

VCMT

Performance

ISO	RE mm	-SF CTCP125-P		-SF CTCP135-P		-SM CTCP115-P		-SM CTCP125-P		-SM CTCP135-P	
		76 279 ...	PG TR	76 279 ...	PG TR	76 278 ...	PG TR	76 278 ...	PG TR	76 278 ...	PG TR
		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
160404EN	0,4	52801	20,70 11,50	72801	20,70 11,50	32801	20,70 11,50	52801	20,70 11,50	72801	20,70 11,50
160406EN	0,6					32901	20,70 11,50				
160408EN	0,8					33001	20,70 11,50	53001	20,70 11,50	73001	20,70 11,50
160412EN	1,2	53001	20,70 11,50			33201	20,70 11,50	53201	20,70 11,50	73201	20,70 11,50

Material compatibility: P, M, K, N, S, H, O



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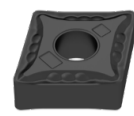
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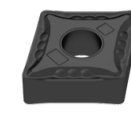
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Always the right solution for machining austenitic, stainless steels. In addition to the established CTPM125, two new grades now round off our product range: the more wear-resistant CTCM120 and the tougher CTCM130. Thanks to the Dragonskin coating,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



CTCM120

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

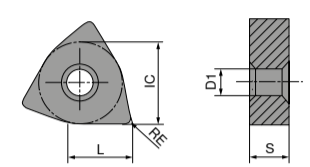
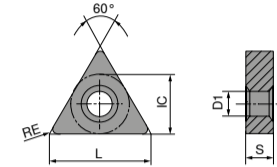
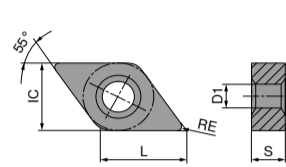
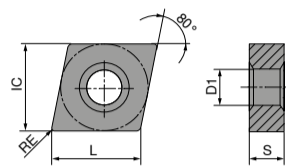


CTCM130

- ▲ 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

Performance

ISO	RE mm	-M30 CTCM120		-M30 CTPM125		-M30 CTCM130	
		75 011 ... PG TR		75 011 ... PG TR		75 011 ... PG TR	
		EUR	EUR	EUR	EUR	EUR	EUR
120408EN	0,8	13000	14,80 8,05	230	14,80 8,05	33000	14,80 8,05
120412EN	1,2	13200	14,80 8,05	232	14,80 8,05	33200	14,80 8,05
120416EN	1,6	13400	14,80 8,05	234	14,80 8,05	33400	14,80 8,05

Material compatibility chart (P, M, K, N, S, H, O) with application markers.

DNMG

Performance

ISO	RE mm	-M30 CTCM120		-M30 CTPM125		-M30 CTCM130	
		75 014 ... PG TR		75 014 ... PG TR		75 014 ... PG TR	
		EUR	EUR	EUR	EUR	EUR	EUR
110408EN	0,8	10600	15,70 9,20	206	15,70 9,20	30600	15,70 9,20
110412EN	1,2	10800	15,70 9,20	208	15,70 9,20	30800	15,70 9,20
150608EN	0,8	13000	20,73 11,50	230	20,73 11,50	33000	20,73 11,50
150612EN	1,2	13200	20,73 11,50	232	20,73 11,50	33200	20,73 11,50

Material compatibility chart (P, M, K, N, S, H, O) with application markers.

TNMG

Performance

ISO	RE mm	-M30 CTCM120		-M30 CTPM125		-M30 CTCM130	
		75 020 ... PG TR		75 020 ... PG TR		75 020 ... PG TR	
		EUR	EUR	EUR	EUR	EUR	EUR
160408EN	0,8	11800	13,20 6,90	218	13,20 6,90	31800	13,20 6,90
160412EN	1,2	12000	13,20 6,90	220	13,20 6,90	32000	13,20 6,90

Material compatibility chart (P, M, K, N, S, H, O) with application markers.

WNMG

Performance

ISO	RE mm	-M30 CTCM120		-M30 CTPM125		-M30 CTCM130	
		75 025 ... PG TR		75 025 ... PG TR		75 025 ... PG TR	
		EUR	EUR	EUR	EUR	EUR	EUR
060408EN	0,8	10600	12,80 6,90	206	12,80 6,90	30600	12,80 6,90
060412EN	1,2	10800	12,80 6,90	208	12,80 6,90	30800	12,80 6,90
080408EN	0,8	11800	16,23 9,20	218	16,23 9,20	31800	16,23 9,20
080412EN	1,2	12000	16,23 9,20	220	16,23 9,20	32000	16,23 9,20

Material compatibility chart (P, M, K, N, S, H, O) with application markers.

SPECIAL OFFER

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→ valid for inserts on page 35–40

→ See tool holders on page 41–43



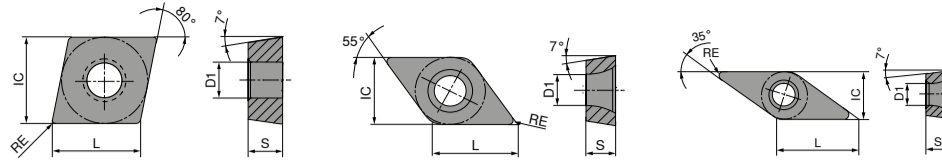
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CCMT / DCMT / VCMT

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

-M25 CTCM120		-M25 CTPM125		-M25 CTCM130	
DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
F		F		F	
75 210 ...	PG TR	75 210 ...	PG TR	75 210 ...	PG TR
EUR	EUR	EUR	EUR	EUR	EUR
10400	10,00 5,75	204	10,00 5,75	30400	10,00 5,75
11600	12,58 6,90	216	12,58 6,90	31600	12,58 6,90
11800	12,58 6,90	218	12,58 6,90	31800	12,58 6,90

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

-M25 CTCM120		-M25 CTPM125		-M25 CTCM130	
DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
F		F		F	
75 213 ...	PG TR	75 213 ...	PG TR	75 213 ...	PG TR
EUR	EUR	EUR	EUR	EUR	EUR
10200	10,00 5,75	202	10,00 5,75	30200	10,00 5,75
10400	10,00 5,75	204	10,00 5,75	30400	10,00 5,75
11400	14,15 8,05	214	14,15 8,05	31400	14,15 8,05
11600	14,15 8,05	216	14,15 8,05	31600	14,15 8,05
11800	14,15 8,05	218	14,15 8,05	31800	14,15 8,05

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

VCMT

Performance

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

-M25 CTCM120		-M25 CTPM125		-M25 CTCM130	
DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
F		F		F	
75 219 ...	PG TR	75 219 ...	PG TR	75 219 ...	PG TR
EUR	EUR	EUR	EUR	EUR	EUR
12800	20,73 11,50	228	20,73 11,50	32800	20,73 11,50
13000	20,73 11,50	23000	20,73 11,50	33000	20,73 11,50

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



X7-Line

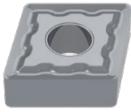
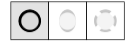
HRSA and Ti
machining
made easy

CNMG

Performance

-M34
CTPX710

DRAGONSKIN



M

ISO	RE mm	75 003 ...	
		EUR	EUR
120404EN	0,4	62800	13,92 8,05
120408EN	0,8	63000	13,92 8,05
120412EN	1,2	63200	13,92 8,05
120416EN	1,6	63400	13,92 8,05

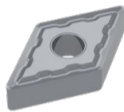
	PG	TR
P	•	
M	•	
K		
N	○	
S	•	
H		
O		

DNMG

Performance

-M34
CTPX710

DRAGONSKIN



M

ISO	RE mm	75 004 ...	
		EUR	EUR
150404EN	0,4	61600	19,99 11,50
150408EN	0,8	61800	19,99 11,50
150412EN	1,2	62000	19,99 11,50
150608EN	0,8	63000	21,89 12,65
150612EN	1,2	63200	21,89 12,65

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

VNMG

Performance

-M34
CTPX710

DRAGONSKIN



M

ISO	RE mm	75 009 ...	
		EUR	EUR
160404EN	0,4	61600	25,35 14,95
160408EN	0,8	61800	25,35 14,95
160412EN	1,2	62000	25,35 14,95

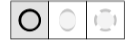
	PG	TR
P	•	
M	•	
K		
N	○	
S	•	
H		
O		

TNMG

Performance

-M34
CTPX710

DRAGONSKIN



M

ISO	RE mm	75 006 ...	
		EUR	EUR
160408EN	0,8	61800	19,16 6,90
220404EN	0,4	62800	18,83 10,35
220408EN	0,8	63000	18,83 10,35
220416EN	1,6	63400	18,83 10,35

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

WNMG

Performance

-M34
CTPX710

DRAGONSKIN



M

ISO	RE mm	75 008 ...	
		EUR	EUR
080408EN	0,8	61800	16,95 9,20
080412EN	1,2	62000	16,95 9,20

	PG	TR
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



Technical support: 1800 93 22 55

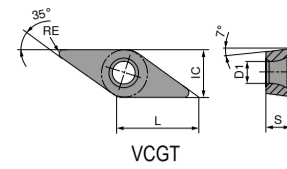
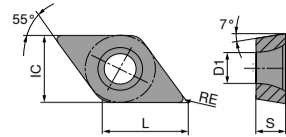
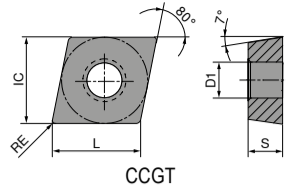
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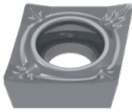
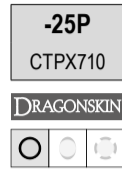
CCGT / DCGT / VCGT

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



CCGT

Performance

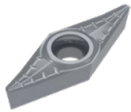
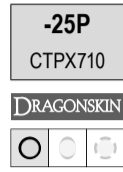


ISO	RE mm	M	
		70 248 ...	PG TR
		EUR	EUR
060202FN	0,2	70200	16,81 9,20
060204FN	0,4	70400	16,81 9,20
09T302FN	0,2	71400	17,24 9,20
09T304FN	0,4	71600	17,24 9,20
09T308FN	0,8	71800	17,24 9,20
120404FN	0,4	72800	22,02 12,65
120408FN	0,8	73000	22,02 12,65

P	•
M	•
K	•
N	•
S	•
H	•
O	•

VCGT

Performance

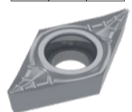


ISO	RE mm	M	
		70 282 ...	PG TR
		EUR	EUR
110302FN	0,2	71400	22,47 12,65
110304FN	0,4	71600	22,47 12,65
160404FN	0,4	72800	27,82 16,10
160408FN	0,8	73000	27,82 16,10
160412FN	1,2	73200	27,82 16,10
220530FN	3,0	75000	37,09 21,85

P	•
M	•
K	•
N	•
S	•
H	•
O	•

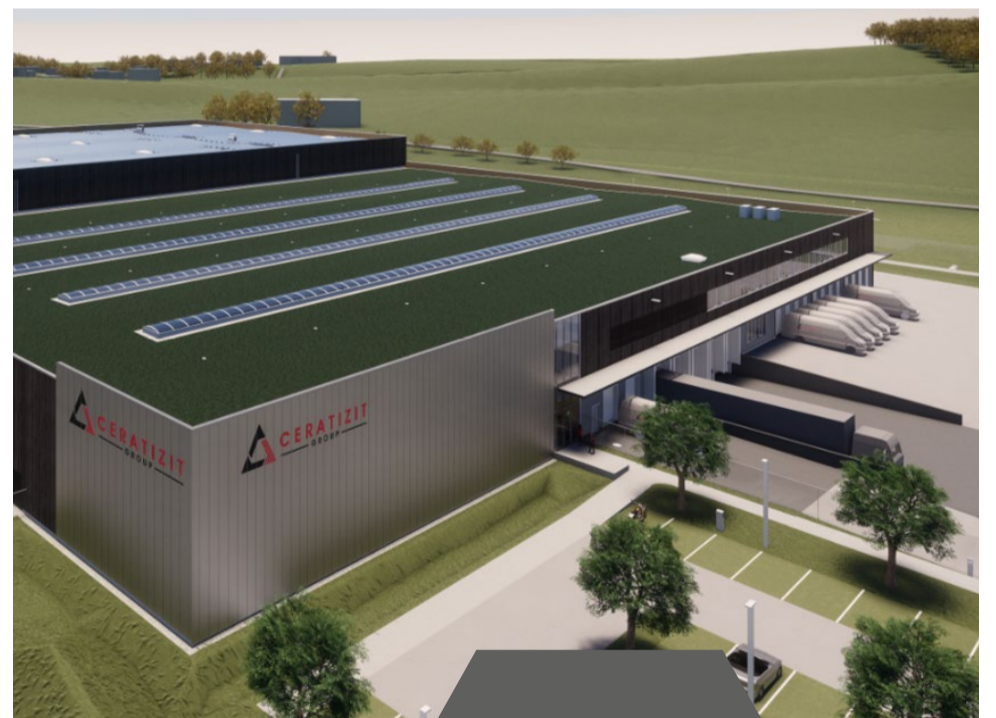
DCGT

Performance



ISO	RE mm	M	
		70 263 ...	PG TR
		EUR	EUR
070202FN	0,2	70200	15,23 8,05
070204FN	0,4	70400	15,23 8,05
11T302FN	0,2	71400	18,48 10,35
11T304FN	0,4	71600	18,48 10,35
11T308FN	0,8	71800	18,48 10,35

P	•
M	•
K	•
N	•
S	•
H	•
O	•



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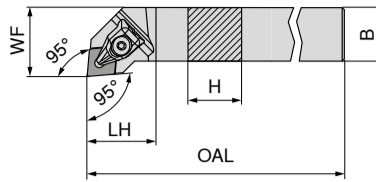


MaxiLock-D – DCLN 95° – Toolholder with top clamping

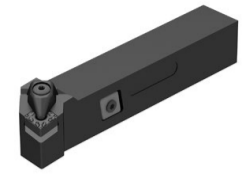
Scope of supply:
Tool holder with Torx key



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

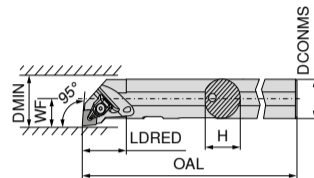
Left-hand			Right-hand		
70 509 ...	PG	TO	70 508 ...	PG	TO
EUR	EUR	EUR	EUR	EUR	EUR
620	121,10	17,25	620	121,10	17,25
625	125,20	17,25	625	125,20	17,25
632	134,30	19,55	632	134,30	19,55

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

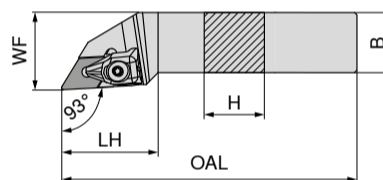
Left-hand			Right-hand		
70 557 ...	PG	TO	70 556 ...	PG	TO
EUR	EUR	EUR	EUR	EUR	EUR
825	316,20	46,00	825	316,20	46,00
832	326,90	47,15	832	326,90	47,15
840	364,30	52,90	840	364,30	52,90

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

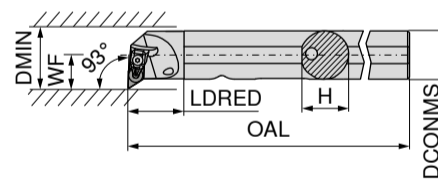
Left-hand			Right-hand		
70 541 ...	PG	TO	70 540 ...	PG	TO
EUR	EUR	EUR	EUR	EUR	EUR
720	121,10	17,25	720	121,10	17,25
725	125,20	17,25	725	125,20	17,25
832	134,30	19,55	832	134,30	19,55

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

Scope of supply:
Boring bar with Torx key



Performance

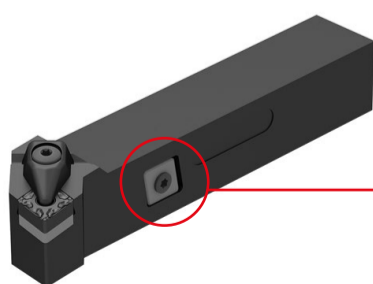


Illustrations show right-hand versions



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
EUR	EUR	EUR	EUR	EUR	EUR
840	364,30	52,90	840	364,30	52,90



With integrated spare seat

SPECIAL OFFER

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

Suitable Inserts can be found on page 35–40



Technical support: 1800 93 22 55

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



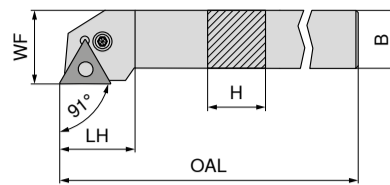
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MaxiLock-N – PTGN 91° – Toolholder with lever clamping

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
EUR	EUR	EUR	EUR	EUR	EUR
016	100,00	14,95	016	100,00	14,95
020	121,10	17,25	020	121,10	17,25
025	125,20	17,25	025	125,20	17,25
032	134,30	19,55	032	134,30	19,55

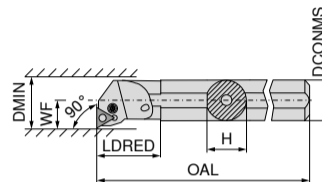
MaxiLock-N – PTFN 90° – Boring bar with lever clamping

▲ 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

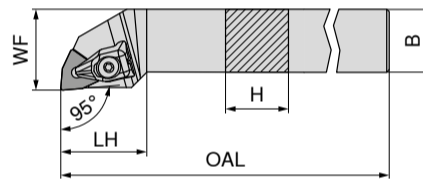
Left-hand			Right-hand		
70 565 ...	PG	TO	70 564 ...	PG	TO
EUR	EUR	EUR	EUR	EUR	EUR
225	316,20	46,00	02500	316,20	46,00
232	326,90	47,15	232	326,90	47,15

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

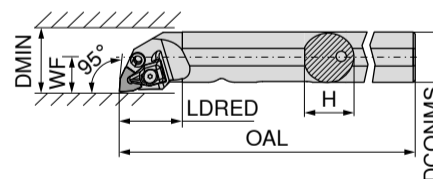
Left-hand			Right-hand		
70 543 ...	PG	TO	70 542 ...	PG	TO
EUR	EUR	EUR	EUR	EUR	EUR
716	100,00	14,95	716	100,00	14,95
720	121,10	17,25	720	121,10	17,25
725	125,20	17,25	725	125,20	17,25
620	121,10	17,25	620	121,10	17,25
625	125,20	17,25	625	125,20	17,25

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

Scope of supply:
Boring bar with Torx key



Performance

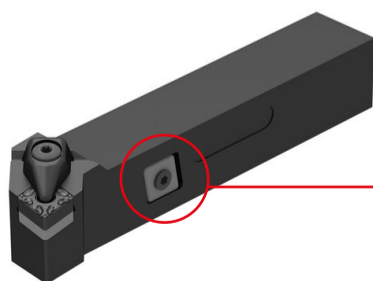


Illustrations show right-hand versions



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
EUR	EUR	EUR	EUR	EUR	EUR
725	316,20	46,00	725	316,20	46,00
732	326,90	47,15	732	326,90	47,15
64000	364,30	52,90	640	364,30	52,90



With integrated spare seat

SPECIAL OFFER

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

Suitable Inserts can be found on page 35–40



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

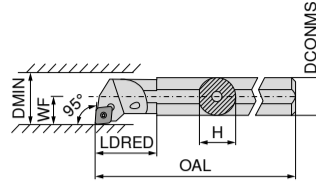
- ▲ A... = with thro' coolant
- ▲ S... = without thro' coolant

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
EUR	EUR		EUR	EUR	
008	140,10	19,55	008	140,10	19,55
208	140,10	19,55	208	140,10	19,55
010	140,10	19,55	010	140,10	19,55
210	140,10	19,55	210	140,10	19,55
012	140,10	19,55	012	140,10	19,55
212	140,10	19,55	212	140,10	19,55
116	140,10	19,55	116	140,10	19,55
016	143,10	19,55	016	143,10	19,55
216	143,10	19,55	216	143,10	19,55
020	170,40	25,30	020	170,40	25,30
220	170,40	25,30	220	170,40	25,30
025	205,10	28,75	025	205,10	28,75
225	205,10	28,75	225	205,10	28,75

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

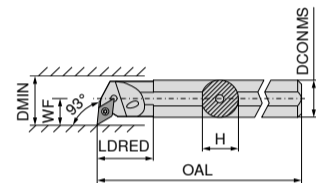
- ▲ A... = with thro' coolant
- ▲ S... = without thro' coolant

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
EUR	EUR		EUR	EUR	
012	140,10	19,55	012	140,10	19,55
212	140,10	19,55	212	140,10	19,55
016	143,10	19,55	016	143,10	19,55
216	143,10	19,55	216	143,10	19,55
020	170,40	25,30	020	170,40	25,30
220	170,40	25,30	220	170,40	25,30
120	170,40	25,30	120	170,40	25,30
320	170,40	25,30	320	170,40	25,30
125	205,10	28,75	125	205,10	28,75
325	205,10	28,75	325	205,10	28,75

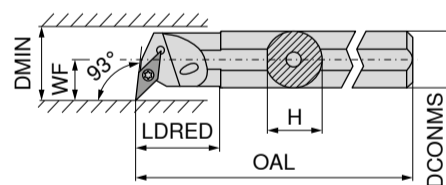
MaxiLock-S – SVUC 93° – Boring bar with screw clamping

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
EUR	EUR		EUR	EUR	
216	102,00	25,30	216	102,00	25,30
220	210,50	29,90	220	210,50	29,90
225	257,00	36,80	225	257,00	36,80
232	309,40	43,70	232	309,40	43,70
240	350,00	50,60	240	350,00	50,60

SPECIAL OFFER

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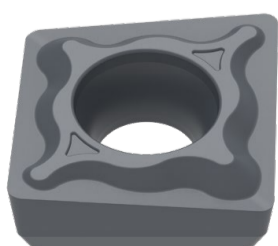
ECOCUT



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



EcoCut – Classic – from \varnothing 10 mm upwards

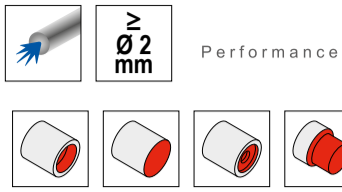


CTPP430 – universal grade for all materials.

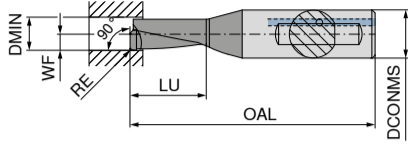


EcoCut – Mini

▲ Drilling and turning tool for small diameters

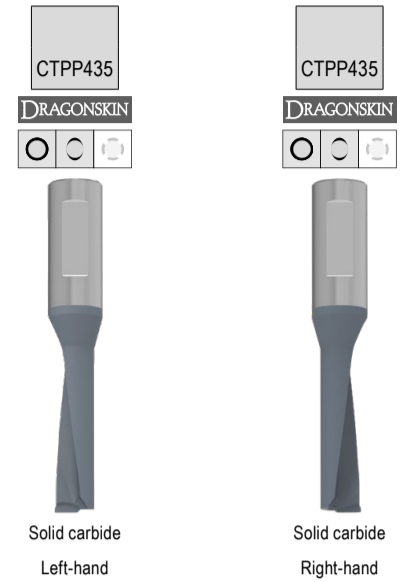


Performance



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
	EUR	EUR		EUR	EUR
320	78,57	46,00	320	78,57	46,00
321	82,44	48,30	321	82,44	48,30
325	84,00	47,15	325	84,00	47,15
326	85,00	49,45	326	85,00	49,45
330	88,55	48,30	330	88,55	48,30
331	87,73	50,60	331	87,73	50,60
335	86,76	50,60	335	86,76	50,60
336	94,00	52,90	336	94,00	52,90
300	92,14	54,05	300	92,14	54,05
301	96,74	56,35	301	96,74	56,35
302	95,33	55,20	302	95,33	55,20
303	99,74	57,50	303	99,74	57,50
306	97,90	56,35	306	97,90	56,35
312	102,70	59,80	312	102,70	59,80
308	100,00	58,65	308	100,00	58,65
314	106,10	62,10	314	106,10	62,10
310	104,20	60,95	310	104,20	60,95
316	109,10	63,25	316	109,10	63,25

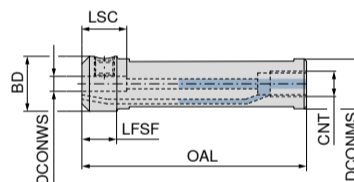
EcoCut – Mini adapter with coolant connection thread

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
	EUR	EUR
716	146,10	20,70
816	146,10	20,70
916	146,10	20,70
720	149,30	20,70
820	149,30	20,70
920	149,30	20,70
722	153,00	21,85
822	153,00	21,85
922	153,00	21,85

The Original Multi Function Tool

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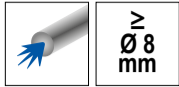


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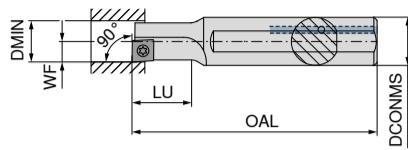
EcoCut – Classic 1.5xD

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..



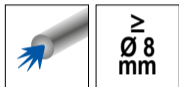
70 805 ...		PG TO	70 804 ...		PG TO
	EUR	EUR		EUR	EUR
010	230,00	32,20	010	230,00	32,20
012	234,00	33,35	012	234,00	33,35
014	240,20	34,50	014	240,20	34,50
016	244,00	34,50	016	244,00	34,50
018	281,40	40,25	018	281,40	40,25
020	317,10	44,85	020	317,10	44,85
025	365,00	51,75	025	365,00	51,75
032	414,70	58,65	032	414,70	58,65

EcoCut – Classic 2.25xD

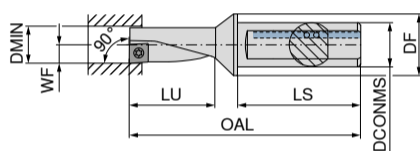
▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver

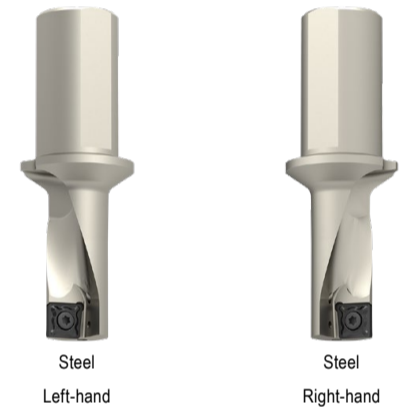


Performance



Illustrations show right-hand versions

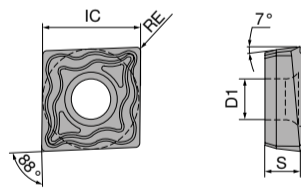
ISO designation	DMIN mm	DCONMS mm	OAL mm	LU mm	LS mm	WF mm	torque moment Nm	Insert
ECC 10 R/L 2,25D 05	10	12	69,5	22,5	42	5,0	0,7	XC.T 0502..
ECC 12 R/L 2,25D 06	12	16	78,0	27,0	45	6,0	1,0	XC.T 0602..
ECC 14 R/L 2,25D 07	14	16	83,5	31,5	45	7,0	1,2	XC.T 0703..
ECC 16 R/L 2,25D 08	16	20	94,0	36,0	50	8,0	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
	EUR	EUR		EUR	EUR
110	343,20	48,30	110	343,20	48,30
112	352,00	50,60	112	352,00	50,60
114	360,50	51,75	114	360,50	51,75
116	360,00	52,90	116	360,00	52,90
118	405,50	57,50	118	405,50	57,50
120	441,20	63,25	120	441,20	63,25
125	512,30	73,60	125	512,30	73,60
132	576,00	82,80	132	576,00	82,80

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

70 386 ...		PG MT
	EUR	EUR
923	20,05	11,50
903	20,05	11,50
924	20,05	11,50
904	20,05	11,50
905	20,05	11,50
906	20,35	11,50
907	20,66	11,50
908	21,70	12,65
938	21,70	12,65
910	24,00	13,80
940	24,00	13,80
912	26,16	14,95

P	●
M	●
K	○
N	○
S	○
H	○
O	○





GROOVING TOOLS



SX System – first choice system for parting off.



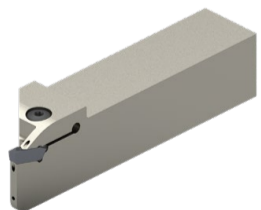
M1 – first choice chipbreaker for parting off.



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



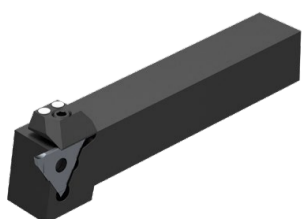
F2 – high precision ground insert for excellent chip control.



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



M40 – first choice chipbreaker for grooving and turning.

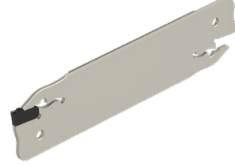
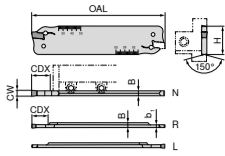


CTP1340 – universal grade for all materials.

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

MonoClamp – Radial Blade SX Standard

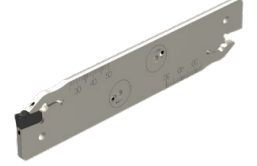
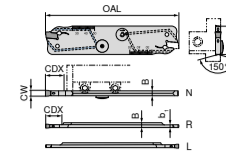
Performance



ISO designation	R/L/N	CW	H	B	OAL	b ₁	CDX	for grooving inserts	70 884 ...	PG	TO
		mm	mm	mm	mm	mm	mm		EUR	EUR	
XLCF L 2602-SX2	L	2	26	2,4	110	1,5	25	SX 2..	01	125,00	18,40
XLCF R 2602-SX2	R	2	26	2,4	110	1,5	25	SX 2..	03	125,00	18,40
XLCF N 2603-SX3	N	3	26	2,4	110		35	SX 3..	05	125,00	18,40
XCLF N 2604-SX4	N	4	26	3,2	110		40	SX 4..	07	125,00	18,40
XLCF L 3202-SX2	L	2	32	2,4	150	1,5	25	SX 2..	02	131,70	18,40
XLCF R 3202-SX2	R	2	32	2,4	150	1,5	25	SX 2..	04	131,70	18,40
XLCF N 3203-SX3	N	3	32	2,4	150		50	SX 3..	06	131,70	18,40
XLCF N 3204-SX4	N	4	32	3,2	150		50	SX 4..	08	131,70	18,40
XLCF N 3205-SX5	N	5	32	4,2	150		55	SX 5..	09	131,70	18,40
XLCF N 3206-SX6	N	6	32	5,2	150		60	SX 6..	10	131,70	18,40

MonoClamp – Radial Blade SX-DC Standard

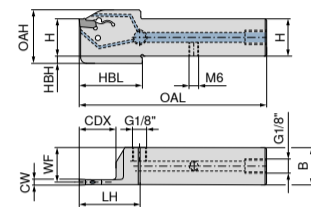
Performance



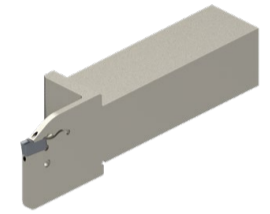
ISO designation	R/L/N	CW	H	B	b ₁	OAL	CDX	for grooving inserts	70 884 ...	PG	TO
		mm	mm	mm	mm	mm	mm		EUR	EUR	
XLCF L 2602-DC-SX2	L	2	26	2,4	1,6	110	25	SX 2..	712	214,00	31,05
XLCF R 2602-DC-SX2	R	2	26	2,4	1,6	110	25	SX 2..	512	214,00	31,05
XLCF N 2603-DC-SX3	N	3	26	2,5		110	35	SX 3..	613	214,00	31,05
XLCF N 2604-DC-SX4	N	4	26	3,3		110	40	SX 4..	614	214,00	31,05
XLCF L 3202-DC-SX2	L	2	32	2,4	1,6	150	26	SX 2..	702	232,00	33,35
XLCF R 3202-DC-SX2	R	2	32	2,4	1,6	150	26	SX 2..	502	232,00	33,35
XLCF N 3203-DC-SX3	N	3	32	2,5		150	50	SX 3..	603	232,00	33,35
XLCF N 3204-DC-SX4	N	4	32	3,3		150	50	SX 4..	604	232,00	33,35
XLCF N 3205-DC-SX5	N	5	32	4,3		150	55	SX 5..	605	232,00	33,35
XLCF N 3206-DC-SX6	N	6	32	5,2		150	60	SX 6..	606	232,00	33,35

MonoClamp – Radial Monoholder SX-DC

Performance



Illustrations show right-hand versions



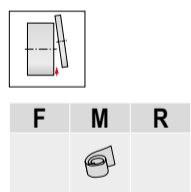
ISO designation	H	B	CW	WF	OAL	LH	HBL	OAH	CDX	HBH	for grooving inserts	Left-hand 70 847 ...	PG	TO	Right-hand 70 847 ...	PG	TO
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR	EUR	EUR		
E12 R/L 0022-1212X-K-DC-SX2	12	12	2	11,20	71	27	28	27	22	5	SX 2..	21201	207,00	29,90	21200	207,00	29,90
E16 R/L 0026-1616X-K-DC-SX2	16	16	2	15,20	87	32	33	30	26	4	SX 2..	21601	240,00	32,20	21600	240,00	32,20
E16 R/L 0026-1616X-K-DC-SX3	16	16	3	14,75	87	32	33	30	26	4	SX 3..	31601	240,00	32,20	31600	240,00	32,20
E20 R/L 0026-2020X-K-DC-SX2	20	20	2	19,20	102	32	33	36	26	5	SX 2..	22001	240,00	35,65	22000	240,00	35,65
E20 R/L 0026-2020X-K-DC-SX3	20	20	3	18,75	102	32	33	36	26	5	SX 3..	32001	240,00	35,65	32000	240,00	35,65
E20 R/L 0033-2020X-K-DC-SX4	20	20	4	18,30	109	39	40	37	33	5	SX 4..	42001	240,00	35,65	42000	240,00	35,65
E25 R/L 0033-2525X-K-DC-SX2	25	25	2	24,20	126	41	42	41	33	5	SX 2..	22501	268,00	39,10	22500	268,00	39,10
E25 R/L 0026-2525X-K-DC-SX3	25	25	3	23,75	117	33		31	26		SX 3..	32501	268,00	39,10	32500	268,00	39,10
E25 R/L 0033-2525X-K-DC-SX3	25	25	3	23,75	126	41	42	41	33	5	SX 3..	32601	268,00	39,10	32600	268,00	39,10
E25 R/L 0033-2525X-K-DC-SX4	25	25	4	23,30	126	41	42	41	33	5	SX 4..	42501	268,00	39,10	42500	268,00	39,10
E25 R/L 0040-2525X-K-DC-SX4	25	25	4	23,30	133	48	49	44	40	6	SX 4..	42601	268,00	39,10	42600	268,00	39,10
E25 R/L 0040-2525X-K-DC-SX5	25	25	5	22,85	133	48	49	44	40	6	SX 5..	52501	268,00	39,10	52500	268,00	39,10
E25 R/L 0040-2525X-K-DC-SX6	25	25	6	22,35	133	48	49	44	40	6	SX 6..	62501	268,00	39,10	62500	268,00	39,10

Ejector SX

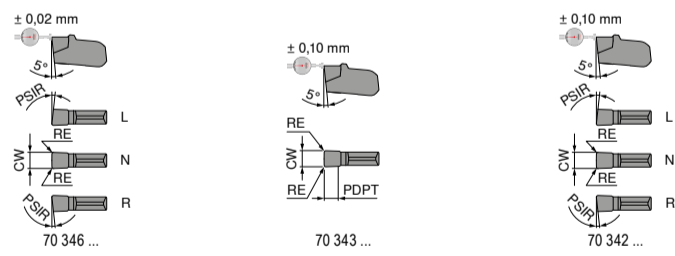
EUR	70 950 ...
25,30	836
25,30	836
25,30	837
25,30	837
25,30	837

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

Insert SX



Performance



Designation	IH	CW	RE	PDPT	for tool holder
		mm	mm	mm	
SX E2.00 L 6	L	2	0,2	2,0	-SX2
SX E3.00 L 6	L	3	0,2	2,5	-SX3
SX E4.00 L 6	L	4	0,3	2,9	-SX4
SX E2.00 N 0.20	N	2	0,2	1,5	-SX2
SX E3.00 N 0.20	N	3	0,2	2,0	-SX3
SX E3.00 N 0.30	N	3	0,3	2,0	-SX3
SX E4.00 N 0.30	N	4	0,3	2,5	-SX4
SX E4.00 N 0.40	N	4	0,4	2,5	-SX4
SX E5.00 N 0.30	N	5	0,3	2,7	-SX5
SX E5.00 N 0.40	N	5	0,4	2,7	-SX5
SX E6.00 N 0.40	N	6	0,4	3,0	-SX6
SX E6.00 N 0.50	N	6	0,5	3,0	-SX6
SX E2.00 R 6	R	2	0,2	2,0	-SX2
SX E3.00 R 6	R	3	0,2	2,5	-SX3
SX E4.00 R 6	R	4	0,3	2,9	-SX4

70 346 ...	PG	IG	70 343 ...	PG	IG	70 342 ...	PG	IG
	EUR	EUR		EUR	EUR		EUR	EUR
622	25,45	14,95	622	17,07	9,20	622	17,07	10,35
623	27,35	16,10	623	18,15	10,35	623	18,15	11,50
624	28,03	17,25	624	19,14	10,35	624	19,14	11,50
			625	20,37	11,50	625	20,37	12,65
			626	24,97	12,65	626	24,97	13,80
			602	17,07	10,35	602	17,07	10,35
			603	18,15	10,35	603	18,15	10,35
			604	19,14	11,50	604	19,14	11,50

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

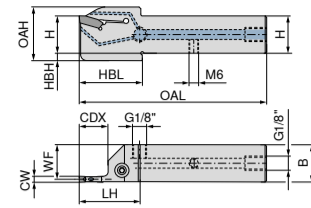


MonoClamp – Radial Monoholder GX-DC 16

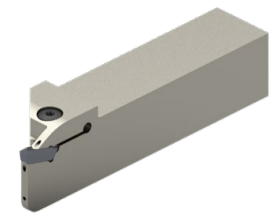
Scope of supply:

Mono holder incl. Torx key and clamping screw

Performance



Illustrations show right-hand versions



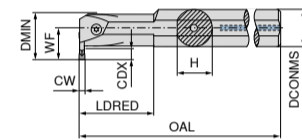
ISO designation	H mm	B mm	CW mm	WF mm	OAH mm	OAL mm	LH mm	HBL mm	HBH mm	CDX mm	for grooving inserts	Left-hand 70 842 ...		Right-hand 70 842 ...	
												PG	TO	PG	TO
E16 R/L 0013S2-1616X-S-DC-GX16	16	16	2	15,20	25	90	35	36	4	13	GX 16-1 E2..	21601	200,70 29,90	21600	200,70 29,90
E16 R/L 0013S3-1616X-S-DC-GX16	16	16	3	14,85	25	90	35	36	4	13	GX 16-2 E3..	31601	200,70 29,90	31600	200,70 29,90
E16 R/L 0013S4-1616X-S-DC-GX16	16	16	4	14,40	25	90	35	36	4	13	GX 16-3 E4..	41601	200,70 29,90	41600	200,70 29,90
E16 R/L 0013S5-1616X-S-DC-GX16	16	16	5	14,00	25	90	35	36	4	13	GX 16-3 E5..	51601	200,70 29,90	51600	200,70 29,90
E20 R/L 0013S2-2020X-S-DC-GX16	20	20	2	19,20	25	104	35			13	GX 16-1 E2..	22001	241,40 34,50	22000	241,40 34,50
E20 R/L 0013S3-2020X-S-DC-GX16	20	20	3	18,85	25	104	35			13	GX 16-2 E3..	32001	241,40 34,50	32000	241,40 34,50
E20 R/L 0013S4-2020X-S-DC-GX16	20	20	4	18,40	25	104	35			13	GX 16-3 E4..	42001	241,40 34,50	42000	241,40 34,50
E20 R/L 0013S5-2020X-S-DC-GX16	20	20	5	18,00	25	104	35			13	GX 16-3 E5..	52001	241,40 34,50	52000	241,40 34,50
E25 R/L 0013S3-2525X-S-DC-GX16	25	25	3	23,85	30	119	35			13	GX 16-2 E3..	32501	256,80 36,80	32500	256,80 36,80
E25 R/L 0013S4-2525X-S-DC-GX16	25	25	4	23,40	30	119	35			13	GX 16-3 E4..	42501	256,80 36,80	42500	256,80 36,80
E25 R/L 0013S5-2525X-S-DC-GX16	25	25	5	23,00	30	119	35			13	GX 16-3 E5..	52501	256,80 36,80	52500	256,80 36,80

MonoClamp – Radial Mono-boring bars GX 16

Scope of supply:

Boring bar incl. key and clamping screw

Performance



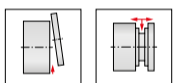
Illustrations show right-hand versions



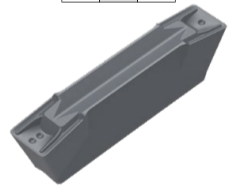
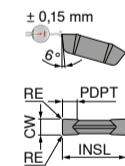
ISO designation	H mm	DCONMS mm	DMIN mm	CW mm	CDX mm	WF mm	OAL mm	LDRED mm	for grooving inserts	Left-hand 70 893 ...		Right-hand 70 892 ...	
										PG	TO	PG	TO
I16 R/L 90-2.0D-GX16-1	15,25	16	20,5	2,00 - 2,75	5,0	13,5	150	32	GX 16-1	516	180,70 27,60	516	180,70 27,60
I16 R/L 90-2.0D-GX16-2	15,25	16	20,5	2,76 - 3,75	5,0	13,5	150	32	GX 16-2	616	180,70 27,60	616	180,70 27,60
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	620	204,90 29,90	620	204,90 29,90
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	625	238,20 34,50	625	238,20 34,50
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	725	238,20 34,50	725	238,20 34,50
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	632	276,00 40,25	632	276,00 40,25
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	732	276,00 40,25	732	276,00 40,25

Insert GX 16

▲ Very good swarf control



Performance



Designation	INSL mm	CW mm	RE mm	PDPT mm	for tool holder	70 351 ...	
						PG	IG
GX 16-1 E2.00 N 0.20	16	2	0,2	2,5	GX 16-1	602	24,24 13,80
GX 16-2 E3.00 N 0.30	16	3	0,3	3,0	GX 16-2	610	24,24 13,80
GX 16-3 E4.00 N 0.40	16	4	0,4	3,5	GX 16-3	618	26,06 14,95
GX 16-3 E5.00 N 0.40	16	5	0,4	3,5	GX 16-3	626	28,70 17,25
GX 16-4 E6.00 N 0.50	16	6	0,5	4,0	GX 16-4	630	32,40 18,40

P	●
M	●
K	●
N	○
S	●
H	●
O	○



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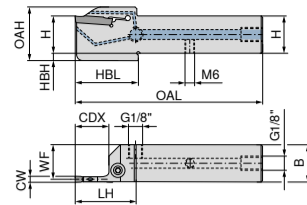
Order by 6:00 pm and get your guaranteed free express delivery

MonoClamp – Radial Monoholder GX-DC 24

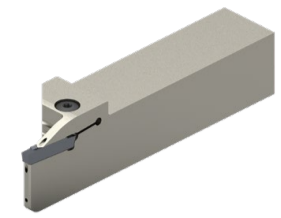
Scope of supply:

Mono holder incl. key and clamping screw

Performance



Illustrations show right-hand versions



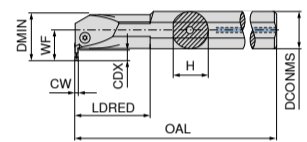
ISO designation	H mm	B mm	CW mm	WF mm	OAH mm	OAL mm	LH mm	HBL mm	HBH mm	CDX mm	for grooving inserts	Left-hand 70 844 ...		Right-hand 70 844 ...	
												PG	TO	PG	TO
E16 R/L 0021S2-1616X-S-DC-GX24	16	16	2	15,2	26	94	39	40	4	21	GX 24-1 E2..	21601	225,50 32,20	21600	225,50 32,20
E16 R/L 0021S3-1616X-S-DC-GX24	16	16	3	14,8	26	94	39	40	4	21	GX 24-2 E3..	31601	225,50 32,20	31600	225,50 32,20
E20 R/L 0021S2-2020X-S-DC-GX24	20	20	2	19,2	26	109	40			21	GX 24-1 E2..	22001	250,50 36,80	22000	250,50 36,80
E20 R/L 0021S3-2020X-S-DC-GX24	20	20	3	18,8	26	109	40			21	GX 24-2 E3..	32001	250,50 36,80	32000	250,50 36,80
E20 R/L 0021S4-2020X-S-DC-GX24	20	20	4	18,3	26	109	40			21	GX 24-3 E4..	42001	250,50 36,80	42000	250,50 36,80
E20 R/L 0021S5-2020X-S-DC-GX24	20	20	5	18,0	26	109	40			21	GX 24-3 E5..	52001	250,50 36,80	52000	250,50 36,80
E25 R/L 0021S3-2525X-S-DC-GX24	25	25	3	23,8	31	124	40			21	GX 24-2 E3..	32501	277,50 40,25	32500	277,50 40,25
E25 R/L 0021S4-2525X-S-DC-GX24	25	25	4	23,3	31	124	40			21	GX 24-3 E4..	42501	277,50 40,25	42500	277,50 40,25
E25 R/L 0021S5-2525X-S-DC-GX24	25	25	5	23,0	31	124	40			21	GX 24-3 E5..	52501	277,50 40,25	52500	277,50 40,25
E25 R/L 0021S6-2525X-S-DC-GX24	25	25	6	22,5	31	124	40			21	GX 24-4 E6..	62501	277,50 40,25	62500	277,50 40,25

MonoClamp – Radial Mono-boring bars GX 24

Scope of supply:

Boring bar incl. key and clamping screw

Performance



Illustrations show right-hand versions



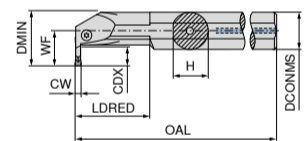
ISO designation	H mm	DCONMS mm	DMIN mm	CW mm	CDX mm	WF mm	OAL mm	LDRED mm	for grooving inserts	Left-hand 70 895 ...		Right-hand 70 894 ...	
										PG	TO	PG	TO
132 R/L 90-2.0D-GX24-2	31,0	32	42	2,76 - 3,75	11	27,5	250	64	GX 24-2	132	276,00 40,25	132	276,00 40,25
132 R/L 90-2.0D-GX24-3	31,0	32	42	3,76 - 5,00	11	27,5	250	64	GX 24-3	232	276,00 40,25	232	276,00 40,25
140 R/L 90-2.0D-GX24-3	38,5	40	53	3,76 - 5,00	12	32,5	300	80	GX 24-3	240	344,10 49,45	240	344,10 49,45

MonoClamp – Radial Mono-boring bars GX 24

Scope of supply:

Boring bar incl. key and clamping screw

Performance



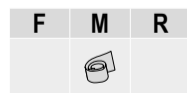
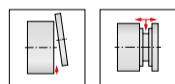
Illustrations show right-hand versions



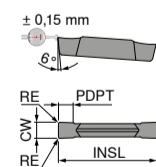
ISO designation	H mm	DCONMS mm	DMIN mm	CW mm	CDX mm	WF mm	OAL mm	LDRED mm	for grooving inserts	Left-hand 70 895 ...		Right-hand 70 894 ...	
										PG	TO	PG	TO
132 R/L 90-2.0D-GX24-4	31,0	32	47	5,01 - 6,50	17,5	30,4	250	64	GX 24-4	332	276,00 40,25	332	276,00 40,25
140 R/L 90-2.0D-GX24-4	38,5	40	57	5,01 - 6,50	17,5	34,4	300	80	GX 24-4	340	344,10 49,45	340	344,10 49,45

Insert GX 24

▲ Very good swarf control



Performance



-M40
CTP1340

DRAGONSKIN



Designation	INSL mm	CW $\pm 0,05$ mm	RE $\pm 0,05$ mm	PDPT mm	for tool holder	70 364 ...	
						PG	IG
GX 24-2 E3.00 N 0.30	24	3	0,3	3,5	GX 24-2	600	25,00 14,95
GX 24-3 E4.00 N 0.40	24	4	0,4	4,0	GX 24-3	602	28,20 16,10
GX 24-3 E5.00 N 0.40	24	5	0,4	4,0	GX 24-3	604	30,00 17,25
GX 24-4 E6.00 N 0.50	24	6	0,5	4,0	GX 24-4	606	33,00 19,55

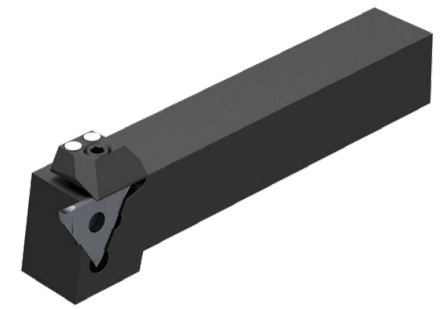
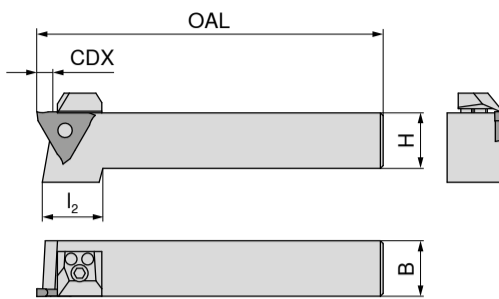
P	●
M	●
K	●
N	○
S	●
H	●
O	○



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

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

Performance



Illustrations show right-hand versions

ISO designation	H mm	B $\pm 0,1$ mm	OAL mm	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

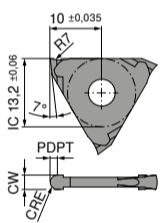
Right-hand

73 500 ...	PG	TO
EUR	EUR	
112	48,00	43,70
116	48,00	39,10
120	48,70	29,90
125	48,00	32,20
216	48,00	39,10
220	48,70	29,90
225	48,00	32,20
320	48,70	29,90
325	48,00	32,20
332	48,00	36,80

Radial TX insert for corner recessing

- ▲ Full radius for cutting width 0.5–5.0 mm

Performance



CWX500

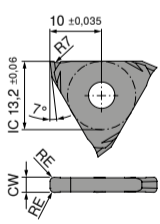


Neutral

Designation	CRE mm	CW $\pm 0,05$ mm	PDPT mm	73 304 ...	PG	IG
					EUR	EUR
TX N 0010.20.2	1,0	2	0,7	204	48,70	31,05
TX N 0015.30.3	1,5	3	1,0	206	48,48	33,35

TX insert for fine and copy turning

Performance



CWX500



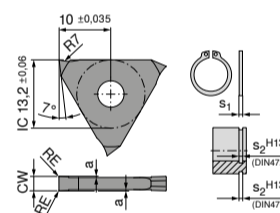
Neutral

Designation	CW $\pm 0,03$ mm	73 303 ...	PG	IG
			EUR	EUR
TX N 0150.02.1	1,5	204	32,00	24,15
TX N 0200.02.1	2,0	206	32,00	24,15
TX N 0200.04.1	2,0	208	32,00	24,15
TX N 0300.06.2	3,0	212	34,70	26,45
TX N 0300.02.2	3,0	210	34,70	26,45
TX N 0300.08.2	3,0	214	34,70	26,45
TX N 0400.08.3	4,0	218	35,04	26,45
TX N 0400.02.3	4,0	216	35,04	26,45
TX N 0400.12.3	4,0	220	35,04	26,45

TX insert for circlip grooves

- ▲ For circlip grooves according to DIN 471 / 472

Performance



CWX500



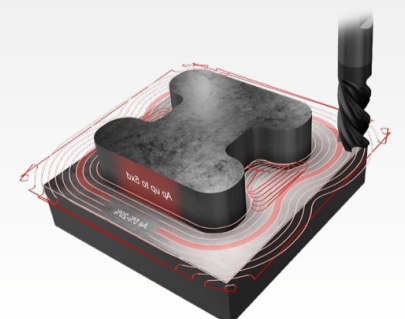
Neutral

Designation	CW $\pm 0,05$ mm	a $\pm 0,02$ mm	73 300 ...	PG	IG
				EUR	EUR
TX N 0050.00.1	0,57	0,07	204	26,63	19,55
TX N 0060.00.1	0,67	0,07	206	26,63	19,55
TX N 0070.00.1	0,77	0,08	208	26,63	19,55
TX N 0080.00.1	0,87	0,08	210	26,63	19,55
TX N 0090.00.1	0,97	0,08	212	26,63	19,55
TX N 0100.00.1	1,07	0,09	214	26,63	19,55
TX N 0110.00.1	1,24	0,15	216	26,63	19,55
TX N 0130.00.1	1,44	0,15	218	26,63	19,55
TX N 0160.00.1	1,74	0,20	220	26,63	19,55
TX N 0185.00.1	1,99	0,20	222	26,63	19,55
TX N 0215.00.2	2,29	0,20	224	26,63	19,55
TX N 0265.00.2	2,79	0,20	226	26,63	19,55
TX N 0315.00.3	3,29	0,20	228	26,63	20,70

Tool data always at your fingertips

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

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MINIATURE TURNING TOOLS



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



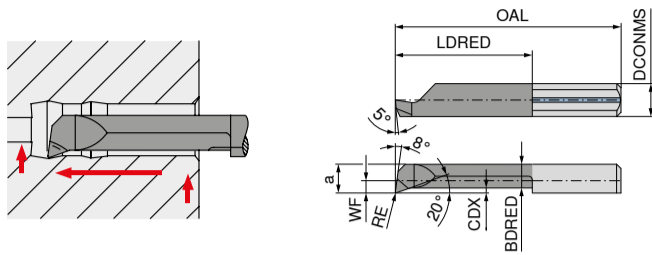
MiniCut system – for small diameter internal features from 8 mm onwards.

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	●
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K	●
N	●
S	○
H	○
O	●

TiN



Right-hand

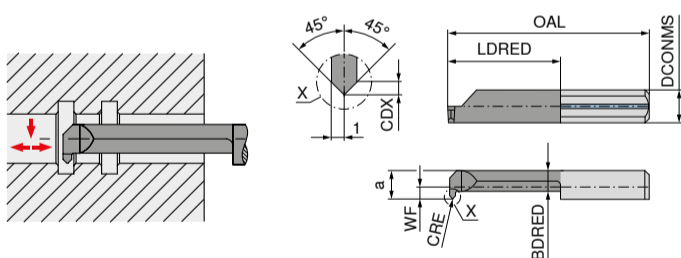
73 004 ...	PG	ST	EUR	EUR
520			36,84	28,75
521			37,56	28,75
522			39,73	31,05
531			39,69	31,05
530			40,24	31,05
532			42,36	33,35
541			39,99	31,05
540			40,52	31,05
542			42,59	33,35
545			46,07	35,65
546			51,39	40,25
551			37,44	28,75
552			40,69	31,05
550			41,73	32,20
553			47,29	36,80
554			51,39	40,25
556			56,94	43,70
561			41,14	32,20
560			42,84	33,35
562			47,47	36,80
563			52,05	40,25
564			55,94	43,70
565			62,48	48,30
572			42,99	33,35
573			53,99	42,55
574			54,83	42,55
575			56,09	44,85
576			63,17	49,45
577			67,09	52,90
578			72,23	56,35

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	EUR	EUR
551			37,56	28,75
550			39,73	31,05
570			44,06	34,50



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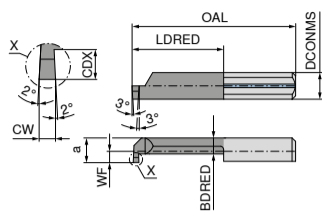
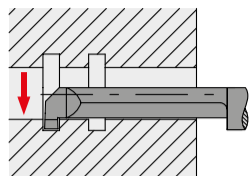


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UltraMini – Inserts for Internal Grooving



Performance



TiN



Right-hand

73 002 ... PG ST

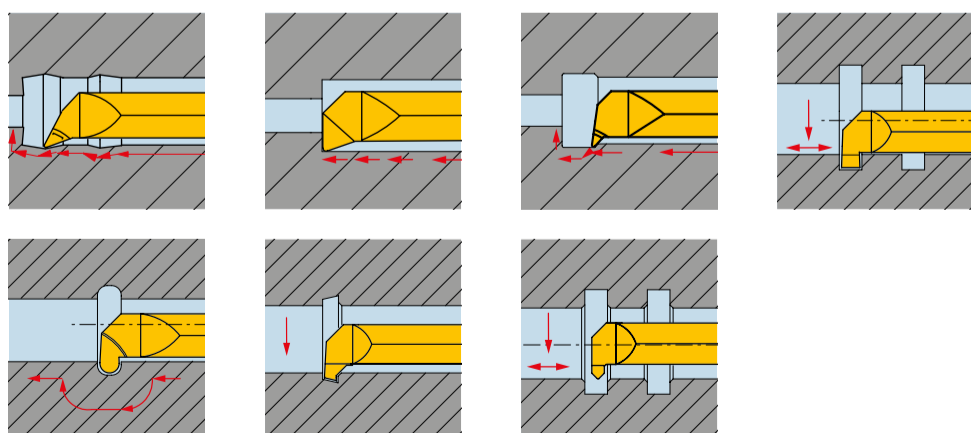
EUR EUR

ISO designation	DCONMS _{gs}	WF	DMIN	a	OAL	LDRED	CDX	BDRED	CW	73 002 ...	PG	ST
	mm	mm	mm	mm	mm	mm	mm	mm	mm	EUR	EUR	
R 004.0100-10	4	1,5	4,0	3,5	24	10	0,8	2,4	1,0	540	35,89	27,60
R 004.0100-16	4	1,5	4,0	3,5	30	16	0,8	2,4	1,0	541	41,38	32,20
R 004.0100-20	4	1,5	4,0	3,5	34	20	0,8	2,4	1,0	542	46,67	36,80
R 005.0100-10	5	1,9	5,0	4,4	25	10	1,0	3,3	1,0	650	35,44	27,60
R 005.0150-10	5	1,9	5,0	4,4	25	10	1,0	3,3	1,5	654	35,44	27,60
R 005.0200-10	5	1,9	5,0	4,4	25	10	1,0	3,3	2,0	658	35,44	27,60
R 005.0100-15	5	1,9	5,0	4,4	30	15	1,0	3,3	1,0	651	40,89	32,20
R 005.0150-15	5	1,9	5,0	4,4	30	15	1,0	3,3	1,5	655	40,89	32,20
R 005.0200-15	5	1,9	5,0	4,4	30	15	1,0	3,3	2,0	659	40,89	32,20
R 005.0100-20	5	1,9	5,0	4,4	35	20	1,0	3,3	1,0	551	46,07	35,65
R 005.0150-20	5	1,9	5,0	4,4	35	20	1,0	3,3	1,5	552	46,07	35,65
R 005.0200-20	5	1,9	5,0	4,4	35	20	1,0	3,3	2,0	553	46,07	35,65
R 005.0100-25	5	1,9	5,0	4,4	40	25	1,0	3,3	1,0	652	50,37	39,10
R 005.0150-25	5	1,9	5,0	4,4	40	25	1,0	3,3	1,5	656	50,37	39,10
R 005.0200-25	5	1,9	5,0	4,4	40	25	1,0	3,3	2,0	750	50,86	39,10
R 005.0100-30	5	1,9	5,0	4,4	45	30	1,0	3,3	1,0	653	56,06	43,70
R 005.0150-30	5	1,9	5,0	4,4	45	30	1,0	3,3	1,5	657	56,06	43,70
R 005.0200-30	5	1,9	5,0	4,4	45	30	1,0	3,3	2,0	751	56,24	43,70
R 005.0100-35	5	1,9	5,0	4,4	50	35	1,0	3,3	1,0	680	58,69	46,00
R 006.0100-10	6	2,3	6,0	5,3	25	10	1,8	3,4	1,0	660	35,59	27,60
R 006.0150-10	6	2,3	6,0	5,3	25	10	1,8	3,4	1,5	664	35,59	27,60
R 006.0200-10	6	2,3	6,0	5,3	25	10	1,8	3,4	2,0	668	35,59	27,60
R 006.0100-15	6	2,3	6,0	5,3	30	15	1,8	3,4	1,0	661	41,14	32,20
R 006.0150-15	6	2,3	6,0	5,3	30	15	1,8	3,4	1,5	665	41,14	32,20
R 006.0200-15	6	2,3	6,0	5,3	30	15	1,8	3,4	2,0	669	41,14	32,20
R 006.0100-22	6	2,3	6,0	5,3	37	22	1,8	3,4	1,0	561	46,39	35,65
R 006.0150-22	6	2,3	6,0	5,3	37	22	1,8	3,4	1,5	562	46,39	35,65
R 006.0200-22	6	2,3	6,0	5,3	37	22	1,8	3,4	2,0	563	46,39	35,65
R 006.0100-25	6	2,3	6,0	5,3	40	25	1,8	3,4	1,0	662	50,86	39,10
R 006.0150-25	6	2,3	6,0	5,3	40	25	1,8	3,4	1,5	666	50,86	39,10
R 006.0200-25	6	2,3	6,0	5,3	40	25	1,8	3,4	2,0	760	50,86	39,10
R 006.0100-30	6	2,3	6,0	5,3	45	30	1,8	3,4	1,0	663	56,24	43,70
R 006.0150-30	6	2,3	6,0	5,3	45	30	1,8	3,4	1,5	667	56,24	43,70
R 006.0200-30	6	2,3	6,0	5,3	45	30	1,8	3,4	2,0	761	56,24	43,70
R 006.0100-35	6	2,3	6,0	5,3	50	35	1,8	3,4	1,0	682	58,69	46,00
R 006.0150-35	6	2,3	6,0	5,3	50	35	1,8	3,4	1,5	684	58,69	46,00
R 006.0100-42	6	2,3	6,0	5,3	57	42	1,8	3,4	1,0	685	64,69	50,60
R 007.0100-10	7	2,7	6,8	6,3	25	10	2,5	3,8	1,0	570	35,89	27,60
R 007.0150-10	7	2,7	6,8	6,3	25	10	2,5	3,8	1,5	575	35,89	27,60
R 007.0200-10	7	2,7	6,8	6,3	25	10	2,5	3,8	2,0	670	35,89	27,60
R 007.0100-15	7	2,7	6,8	6,3	30	15	2,5	3,8	1,0	571	41,67	32,20
R 007.0150-15	7	2,7	6,8	6,3	30	15	2,5	3,8	1,5	576	41,67	32,20
R 007.0200-15	7	2,7	6,8	6,3	30	15	2,5	3,8	2,0	671	41,67	32,20
R 007.0100-22	7	2,7	6,8	6,3	37	22	2,5	3,8	1,0	572	46,67	36,80
R 007.0150-22	7	2,7	6,8	6,3	37	22	2,5	3,8	1,5	577	46,67	36,80
R 007.0200-22	7	2,7	6,8	6,3	37	22	2,5	3,8	2,0	672	46,67	36,80
R 007.0100-25	7	2,7	6,8	6,3	40	25	2,5	3,8	1,0	573	51,44	40,25
R 007.0150-25	7	2,7	6,8	6,3	40	25	2,5	3,8	1,5	578	51,44	40,25
R 007.0200-25	7	2,7	6,8	6,3	40	25	2,5	3,8	2,0	673	51,44	40,25
R 007.0100-30	7	2,7	6,8	6,3	45	30	2,5	3,8	1,0	574	57,46	44,85
R 007.0150-30	7	2,7	6,8	6,3	45	30	2,5	3,8	1,5	579	57,46	44,85
R 007.0200-30	7	2,7	6,8	6,3	45	30	2,5	3,8	2,0	674	57,46	44,85
R 007.0100-35	7	2,7	7,0	6,3	50	35	2,5	3,8	1,0	688	59,17	46,00
R 007.0150-35	7	2,7	7,0	6,3	50	35	2,5	3,8	1,5	690	59,17	46,00
R 007.0200-35	7	2,7	7,0	6,3	50	35	2,5	3,8	2,0	692	59,17	46,00
R 007.0100-40	7	2,7	7,0	6,3	55	40	2,5	3,8	1,0	700	65,04	51,75
R 007.0150-40	7	2,7	7,0	6,3	55	40	2,5	3,8	1,5	702	65,04	51,75
R 007.0100-45	7	2,7	7,0	6,3	60	45	2,5	3,8	1,0	712	71,33	56,35
R 007.0100-50	7	2,7	7,0	6,3	65	50	2,5	3,8	1,0	714	76,39	59,80

P	●
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Internal turning and profiling, grooving and chamfering

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



Miniature turning tools guide (Main catalogue)

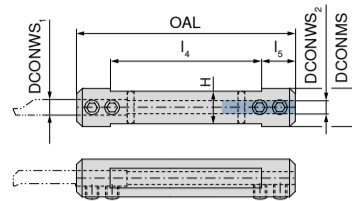
Cutting Data	58–61	Broaching – Recommendations for Correct Use	62
Symbol explanation, coatings and thread types	63		

UltraMini – Standard tool holder for cutting inserts

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

Scope of supply:
Tool holder with allen key

Performance

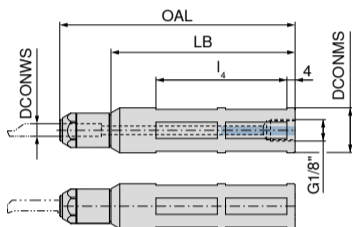


Designation	DCONWS ₁ mm	DCONWS ₂ mm	DCONMS mm	OAL mm	I ₄ mm	I ₅ mm	H mm	73 080 ...	PG TO	
									EUR	EUR
645.0012-D	4	5	12	75	55	10	10,3	163	133,30	39,10
645.0016-D	4	5	16	75	55	10	14,0	164	133,30	41,40
645.0020-D	4	5	20	90	70	10	18,0	165	150,60	44,85
676.0016-D	6	7	16	75	55	10	14,0	166	133,30	41,40
676.0020-D	6	7	20	90	70	10	18,0	167	150,60	44,85

UltraMini – Quick change tool holder for cutting inserts

Scope of supply:
Tool holder, lock nut and clamping wedge

Performance



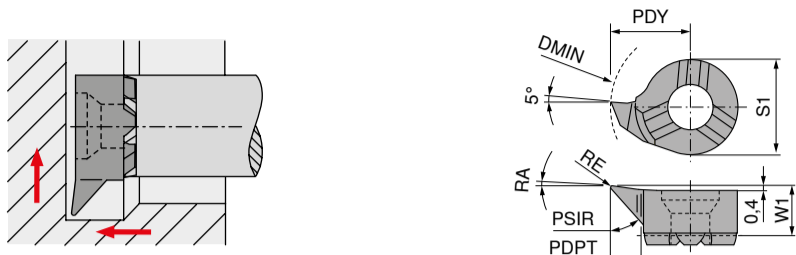
Designation	DCONWS mm	DCONMS _{gs} mm	OAL mm	LB mm	I ₄ mm	73 089 ...	PG TO	
							EUR	EUR
UM600H.0012.4	4	12,00	115	90	64	124	370,20	74,75
UM600H.0016.4	4	16,00	115	90	64	164	343,20	67,85
UM600H.001905.4	4	19,05	115	90	64	194	367,60	72,45
UM600H.0020.4	4	20,00	115	90	64	204	362,20	71,30
UM600H.0022.4	4	22,00	115	90	64	224	360,20	72,45
UM600H.0025.4	4	25,00	115	90	64	254	376,50	74,75
UM600H.00254.4	4	25,40	115	90	64	264	383,50	75,90
UM600H.0028.4	4	28,00	115	90	64	284	383,50	75,90
UM600H.0012.5	5	12,00	115	90	64	125	370,20	74,75
UM600H.0016.5	5	16,00	115	90	64	165	343,20	67,85
UM600H.001905.5	5	19,05	115	90	64	195	367,60	72,45
UM600H.0020.5	5	20,00	115	90	64	205	362,20	71,30
UM600H.0022.5	5	22,00	115	90	64	225	360,20	72,45
UM600H.0025.5	5	25,00	115	90	64	255	376,50	74,75
UM600H.00254.5	5	25,40	115	90	64	265	383,50	75,90
UM600H.0028.5	5	28,00	115	90	64	285	383,50	75,90
UM600H.0012.6	6	12,00	115	90	64	126	370,20	74,75
UM600H.0016.6	6	16,00	115	90	64	166	343,20	67,85
UM600H.001905.6	6	19,05	115	90	64	196	367,60	72,45
UM600H.0020.6	6	20,00	115	90	64	206	362,20	71,30
UM600H.0022.6	6	22,00	115	90	64	226	360,20	72,45
UM600H.0025.6	6	25,00	115	90	64	256	376,50	74,75
UM600H.00254.6	6	25,40	115	90	64	266	383,50	75,90
UM600H.0028.6	6	28,00	115	90	64	286	383,50	75,90
UM600H.0012.7	7	12,00	115	90	64	127	370,20	74,75
UM600H.0016.7	7	16,00	115	90	64	167	343,20	67,85
UM600H.001905.7	7	19,05	115	90	64	197	367,60	72,45
UM600H.0020.7	7	20,00	115	90	64	207	362,20	71,30
UM600H.0022.7	7	22,00	115	90	64	227	360,20	

MiniCut – Internal undercut insert

▲ CDX = a_{pmax}

Performance

CWX500



Size	ISO designation	DMIN mm	PDPT mm	W1 mm	PDY mm	S1 mm	RE mm	CDX mm	PSIR °	RA °
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
11	11,00. R.30°2,3	11,0	2,3	4,2	6,70	8	0,2	0,6	30	3
	11,00. R.47°2,3	11,0	2,3	4,2	6,70	8	0,2	0,6	47	3
14	13,70. R.47°3,0	13,7	3,0	5,3	8,70	9	0,2	0,8	47	3
	13,70. R.30°4,0	13,7	4,0	5,3	8,70	9	0,2	0,8	30	3

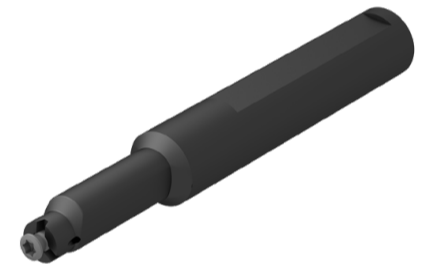
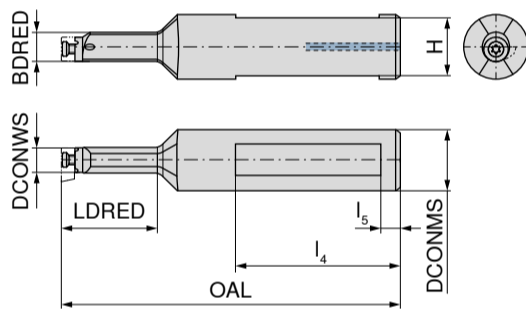
Right-hand

73 326 ...	PG	EH
EUR	EUR	
010	27,64	24,15
012	23,89	20,70
423	26,89	23,00
323	23,32	20,70
530	23,09	20,70
540	27,64	24,15

P	•
M	•
K	•
N	•
S	•
H	•
O	•

MiniCut – Steel Tool holder

Performance



Designation	a mm	DCONMS ₁₇ mm	OAL mm	I ₄ mm	LDRED mm	BRED mm	H mm	I ₅ mm
8,00/16.N.12.1,0	7,8	16	80	60	12		15,0	5
8,00/16.N.22.1,0	7,8	16	90	60	22	7,0	15,0	5
11,00/16.N.16.2,3	10,7	16	97	60	16		14,5	5
11,00/16.N.29.2,3	10,7	16	110	60	29	9,5	14,5	5
14,00/16.N.18.4,0	13,8	16	100	60	18	11,0	14,5	5
14,00/16.N.38.4,0	13,8	16	120	60	38	11,0	14,5	5

73 522 ...	PG	TO
EUR	EUR	
012	438,99	43,70
122	459,29	49,45
016	438,99	43,70
129	459,29	49,45
018	459,29	49,45
138	459,29	49,45



1
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SOLID CARBIDE MILLING CUTTERS



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



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



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



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



Solid carbide slitting saws for grooves and cut offs.

FIRST CHOICE FOR HIGH PERFORMANCE SOLID CARBIDE MILLING APPLICATIONS



Optimised core geometry

- ▲ Less vibration even with high angles of contact
- ▲ Significantly increased fracture resistance

Latest Dragonskin coating

- ▲ Processing of almost all materials
- ▲ Increased temperature resistance
- ▲ Wet and dry machining

Improved chip clearance

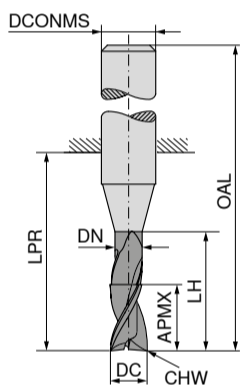
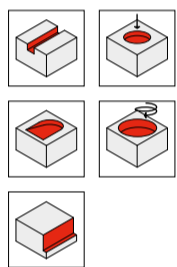
- ▲ Smoother processing
- ▲ Lower forces during chip formation
- ▲ Reduced heat generation

Expanded product range

- ▲ Greater range of diameters
- ▲ Increased range of flute options
- ▲ HA shank options
- ▲ Versions with thro' coolant
- ▲ Roughing-finishing milling cutters
- ▲ Rough milling cutters
- ▲ Full slot milling cutters



SilverLine – End milling cutter



Performance

DC ₁₈	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

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DPB72S	DPB72S	DPB72S
DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
≈DIN 6527	≈DIN 6527	≈DIN 6527
50 966 ... PG SA	50 966 ... PG SA	50 966 ... PG SA
EUR	EUR	EUR
03200	66,47	39,10
03700	66,47	39,10
04100	64,08	37,95
04200	64,08	37,95
04400	67,56	39,10
04700	66,47	39,10
05100	64,08	37,95
05200	64,08	37,95
05400	67,56	39,10
06100	66,65	39,10
06200	67,42	39,10
06400	74,02	43,70
06700	84,07	47,15
07200	84,07	47,15
07700	84,07	47,15
08100	75,70	44,85
08200	70,74	46,00
08400	84,15	49,45
08700	135,10	79,35
09200	135,10	79,35
09700	135,10	79,35
10100	119,70	70,15
10200	132,60	78,20
10400	149,80	88,55
12100	167,88	98,90
12200	179,60	105,80
12400	203,50	120,75
14100	207,90	121,90
14200	236,90	140,30
14400	263,50	155,25
16100	250,90	148,35
16200	402,00	238,05
16400	406,40	240,35
20100	424,10	250,70
20200	483,40	286,35
20400	605,00	358,80

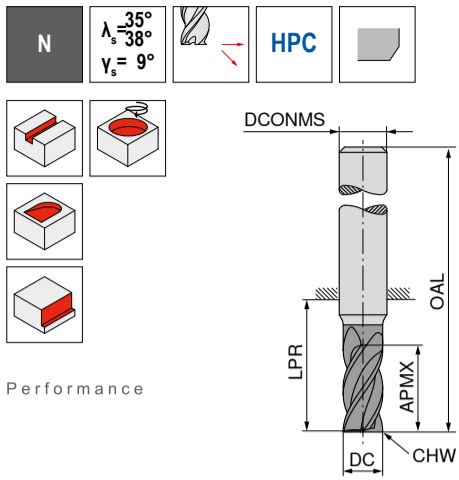


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SilverLine – End milling cutter



Performance

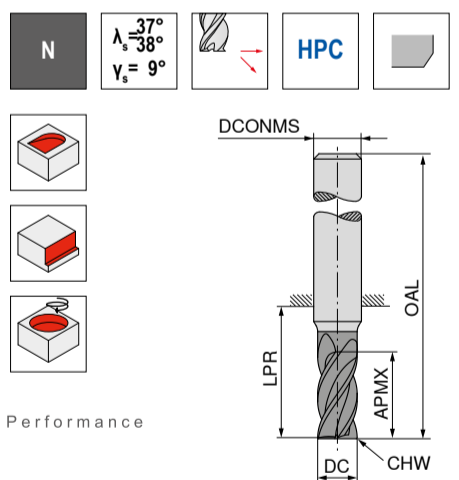
DC _{es}	APMX	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	
3,0	5	14	50	6	0,1	4
3,0	8	21	57	6	0,1	4
3,5	8	18	54	6	0,1	4
3,5	11	21	57	6	0,1	4
4,0	8	18	54	6	0,1	4
4,0	11	21	57	6	0,1	4
4,5	9	18	54	6	0,1	4
4,5	13	21	57	6	0,1	4
5,0	9	18	54	6	0,1	4
5,0	13	21	57	6	0,1	4
5,5	10	18	54	6	0,1	4
5,5	13	21	57	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



50 972 ...	PG SA		50 973 ...	PG SA		50 972 ...	PG SA		50 973 ...	PG SA	
	EUR	EUR		EUR	EUR		EUR	EUR			
03100	54,99	32,20	03100	54,99	32,20	03200	54,99	32,20	03200	54,99	32,20
03600	54,99	32,20	03600	54,99	32,20	03700	54,99	32,20	03700	54,99	32,20
04100	54,99	32,20	04100	54,99	32,20	04200	54,99	32,20	04200	54,99	32,20
04600	56,14	32,20	04600	56,14	32,20	04700	56,14	32,20	04700	56,14	32,20
05100	56,14	32,20	05100	56,14	32,20	05200	56,14	32,20	05200	56,14	32,20
05600	54,34	32,20	05600	54,34	32,20	05700	54,34	32,20	05700	54,34	32,20
06100	54,34	32,20	06100	54,34	32,20	06200	54,34	32,20	06200	54,34	32,20
07100	72,22	42,55	07100	72,22	42,55	07200	72,22	42,55	07200	72,22	42,55
08100	72,22	42,55	08100	72,22	42,55	08200	72,22	42,55	08200	72,22	42,55
09100	94,24	55,20	09100	94,24	55,20	09200	94,24	55,20	09200	94,24	55,20
10100	94,24	55,20	10100	94,24	55,20	10200	94,24	55,20	10200	94,24	55,20
11100	149,00	87,40	11100	149,00	87,40	11200	149,00	87,40	11200	149,00	87,40
12100	149,00	87,40	12100	149,00	87,40	12200	149,00	87,40	12200	149,00	87,40
14100	191,50	112,70	14100	191,50	112,70	14200	191,50	112,70	14200	191,50	112,70
16100	236,40	139,15	16100	236,40	139,15	16200	236,40	139,15	16200	236,40	139,15
20100	364,90	216,20	20100	364,90	216,20	20200	364,90	216,20	20200	364,90	216,20

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SilverLine – End milling cutter

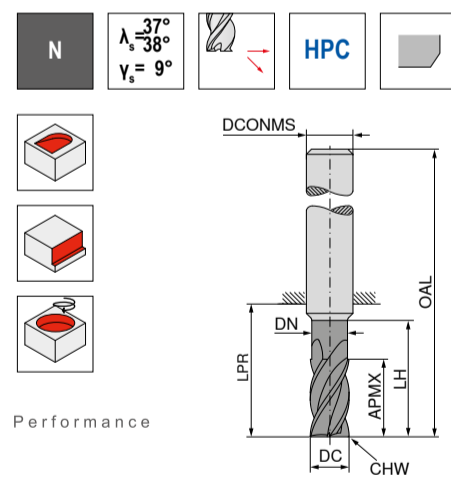


Performance

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

50 993 ...	PG SA		50 995 ...	PG SA	
	EUR	EUR		EUR	EUR
06100	59,75	34,50	06100	59,75	34,50
08100	79,48	47,15	08100	79,48	47,15
10100	103,78	60,95	10100	103,78	60,95
12100	135,98	80,50	12100	135,98	80,50
16100	200,28	154,10	16100	200,28	154,10
20100	281,38	238,05	20100	281,38	238,05

SilverLine – End milling cutter



Performance

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

50 994 ...	PG SA		50 996 ...	PG SA	
	EUR	EUR		EUR	EUR
06200	59,24	34,50	06200	59,24	34,50
08200	78,73	47,15	08200	78,73	47,15
10200	103,98	60,95	10200	103,98	60,95
12200	135,98	80,50	12200	135,98	80,50
16200	204,98	197,80	16200	204,98	197,80
20200	287,58	271,40	20200	287,58	271,40



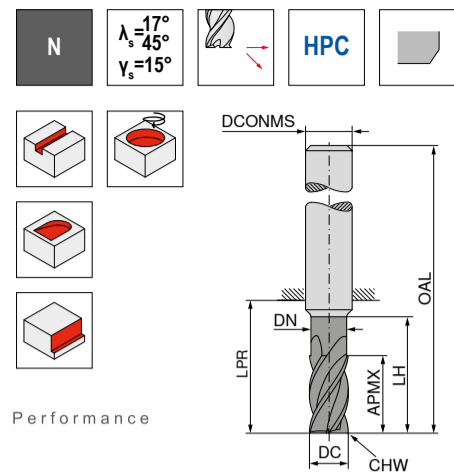
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SilverLine – End milling cutter

▲ Especially for high-volume milling



Performance

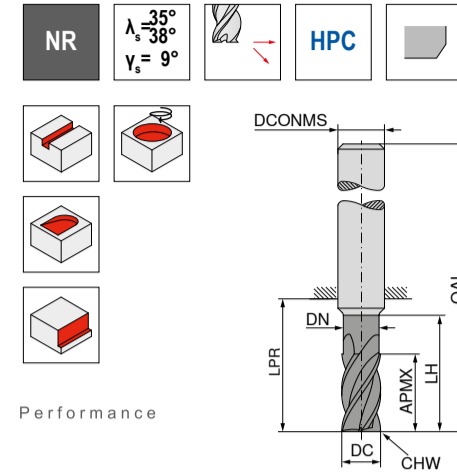


DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 976 ... PG SA		50 977 ... PG SA			
									EUR	EUR	EUR	EUR		
3	8	2,8	13	21	57	6	0,1	4	03200	59,04	34,50	03200	59,04	34,50
4	11	3,8	17	21	57	6	0,1	4	04200	59,04	34,50	04200	59,04	34,50
5	13	4,8	19	21	57	6	0,1	4	05200	59,04	34,50	05200	59,04	34,50
6	13	5,8	19	21	57	6	0,1	4	06200	59,04	34,50	06200	59,04	34,50
8	21	7,7	25	27	63	8	0,2	4	08200	79,59	47,15	08200	79,59	47,15
10	22	9,7	30	32	72	10	0,2	4	10200	116,59	69,00	10200	116,59	69,00
12	26	11,6	36	38	83	12	0,3	4	12200	148,89	87,40	12200	148,89	87,40
14	26	13,6	36	38	83	14	0,3	4	14200	205,09	121,90	14200	205,09	121,90
16	36	15,5	42	44	92	16	0,3	4	16200	335,09	198,95	16200	335,09	198,95
20	41	19,5	52	54	104	20	0,3	4	20200	457,99	271,40	20200	457,99	271,40
P										●			●	
M										●			●	
K										●			●	
N										○			○	
S														
H														
O														

SilverLine – Rough milling cutter

The all-rounder for universal application

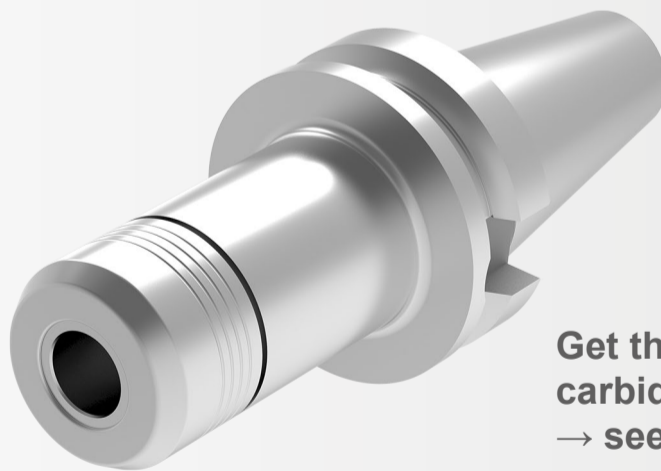
▲ With roughing profile



Performance



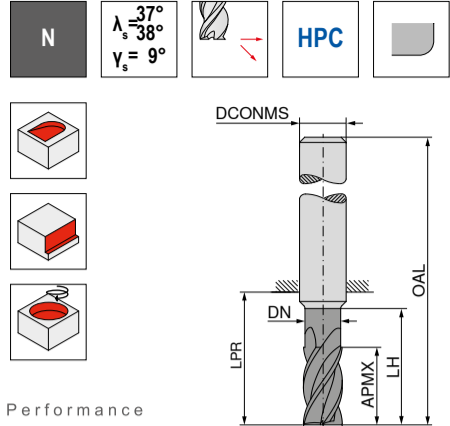
DC _{d11} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 979 ... PG SA		
									EUR	EUR	
3,0	8	2,8	13	21	57	6	0,1	4	03200	99,18	55,20
3,5	11	3,3	17	21	57	6	0,1	4	03700	99,18	55,20
4,0	11	3,8	17	21	57	6	0,1	4	04200	99,18	55,20
4,5	13	4,3	19	21	57	6	0,1	4	04700	99,18	55,20
5,0	13	4,8	19	21	57	6	0,1	4	05200	99,18	55,20
5,5	13	5,3	19	21	57	6	0,1	4	05700	99,18	55,20
6,0	13	5,8	19	21	57	6	0,1	4	06200	99,18	55,20
7,0	21	6,7	25	27	63	8	0,2	4	07200	99,36	58,65
8,0	21	7,7	25	27	63	8	0,2	4	08200	99,36	58,65
10,0	22	9,7	30	32	72	10	0,2	4	10200	123,48	72,45
12,0	26	11,6	36	38	83	12	0,3	4	12200	195,09	115,00
14,0	26	13,6	36	38	83	14	0,3	4	14200	256,69	148,35
16,0	36	15,5	42	44	92	16	0,3	4	16200	399,79	182,85
20,0	41	19,5	52	54	104	20	0,3	4	20200	477,69	282,90
P										●	
M										●	
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S										●	
H											
O											



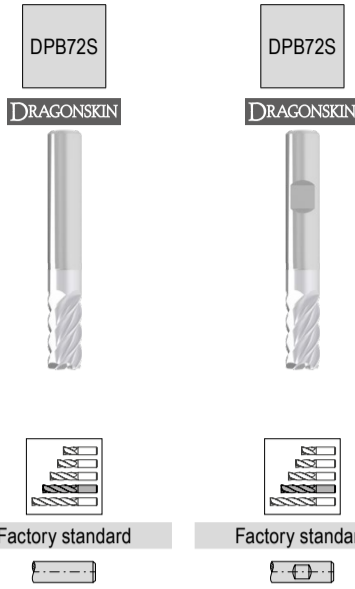
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→ see page 91



SilverLine – End milling cutter with corner radius



Performance

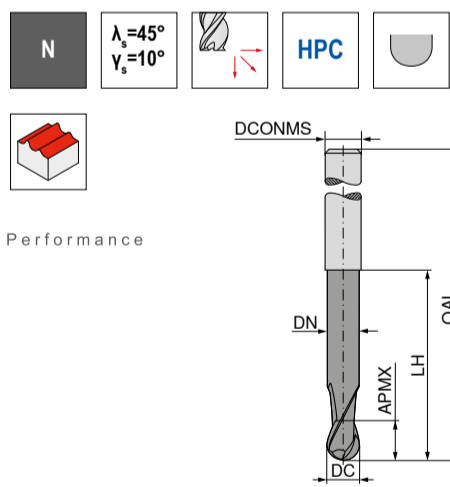


DC _{es}	RE _{±0,05}	APMX	LPR	OAL	DCONMS _{h6}	ZEPF	50 997 ... PG SA	50 998 ... PG SA	
mm	mm	mm	mm	mm	mm		EUR	EUR	
6	0,2	13	21	57	6	5	06202	95,33	49,45
6	0,5	13	21	57	6	5	06205	95,33	49,45
6	1,0	13	21	57	6	5	06210	95,33	49,45
8	0,2	21	27	63	8	5	08202	186,98	63,25
8	0,5	21	27	63	8	5	08205	186,98	63,25
8	1,0	21	27	63	8	5	08210	186,98	63,25
8	1,5	21	27	63	8	5	08215	186,98	63,25
10	0,2	22	32	72	10	5	10202	133,66	78,20
10	0,5	22	32	72	10	5	10205	133,66	78,20
10	1,0	22	32	72	10	5	10210	133,66	78,20
10	1,5	22	32	72	10	5	10215	133,66	78,20
10	1,6	22	32	72	10	5	10216	133,66	78,20
10	2,0	22	32	72	10	5	10220	133,66	78,20
12	0,3	26	38	83	12	5	12203	266,36	121,90
12	0,5	26	38	83	12	5	12205	266,36	121,90
12	1,0	26	38	83	12	5	12210	266,36	121,90
12	1,5	26	38	83	12	5	12215	266,36	121,90
12	1,6	26	38	83	12	5	12216	266,36	121,90
12	2,0	26	38	83	12	5	12220	266,36	121,90
12	2,5	26	38	83	12	5	12225	266,36	121,90
16	0,3	36	44	92	16	5	16203	341,98	184,00
16	0,5	36	44	92	16	5	16205	341,98	184,00
16	1,0	36	44	92	16	5	16210	341,98	184,00
16	1,5	36	44	92	16	5	16215	341,98	184,00
16	1,6	36	44	92	16	5	16216	341,98	184,00
16	2,0	36	44	92	16	5	16220	341,98	184,00
16	2,5	36	44	92	16	5	16225	341,98	184,00
16	3,0	36	44	92	16	5	16230	341,98	184,00
20	0,3	41	54	104	20	5	20203	467,18	277,15
20	0,5	41	54	104	20	5	20205	467,18	277,15
20	1,0	41	54	104	20	5	20210	467,18	277,15
20	1,5	41	54	104	20	5	20215	467,18	277,15
20	2,0	41	54	104	20	5	20220	467,18	277,15
20	2,5	41	54	104	20	5	20225	467,18	277,15
20	3,0	41	54	104	20	5	20230	467,18	277,15
20	4,0	41	54	104	20	5	20240	467,18	277,15

P	•	•
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N	○	○
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H		
O		

SilverLine – Ball Nosed Cutter

The all-rounder for universal application



Performance



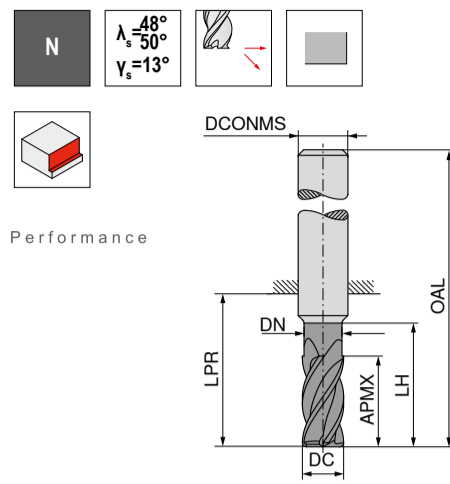
DC _{h8}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEPF	50 953 ... PG SA		
mm	mm	mm	mm	mm	mm	mm		EUR		
4	11	3,9	16	21	57	6	3	04200	64,61	37,95
5	13	4,9	19	21	57	6	3	05200	64,61	37,95
6	13	5,9	19	21	57	6	3	06200	75,55	43,70
8	19	7,8	25	27	63	8	3	08200	93,64	55,20
10	22	9,7	30	32	72	10	3	10200	118,26	69,00
12	26	11,7	36	38	83	12	3	12200	187,08	110,40
16	36	15,5	42	44	92	16	3	16200	276,08	163,30
20	38	19,5	52	54	104	20	3	20200	408,08	236,90

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



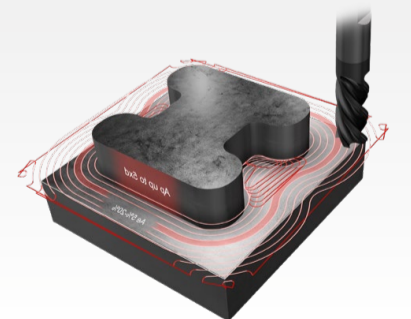
DC _{h8}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEPF	50 991 ... PG SA	50 991 ... PG SA	
mm	mm	mm	mm	mm	mm	mm		EUR	EUR	
6	13	5,6	19	21	57	6	6	06700	94,76	48,30
6	10	5,8	18	22	58	6	6	06200	94,84	48,30
6	13	5,8	27	31	67	6	6			
6	13	5,8	36	40	76	6	6			
6	15	5,6	42	44	80	6	6			
8	19	7,6	25	27	63	8	6	08700	93,93	55,20
8	13	7,7	24	28	64	8	6	08200	93,59	55,20
8	17	7,7	36	40	76	8	6			
8	17	7,7	48	53	89	8	6			
8	20	7,6	62	64	100	8	6			
10	22	9,6	30	32	72	10	6	10700	164,09	95,45
10	16	9,7	30	34	74	10	6	10200	164,36	95,45
10	21	9,7	45	49	89	10	6			
10	25	9,6	58	60	100	10	6			
10	21	9,7	60	64	104	10	6			
12	26	11,5	36	38	83	12	6	12700	248,46	128,80
12	19	11,6	36	40	85	12	6	12200	248,76	128,80
12	25	11,6	54	58	103	12	6			
12	30	11,5	73	75	120	12	6			
12	25	11,6	72	76	121	12	6			
16	32	15,0	42	44	92	16	6	16700	486,66	240,35
16	25	15,5	48	52	100	16	6	16200	486,79	240,35
16	33	15,5	72	76	124	16	6			
16	33	15,5	96	100	148	16	6			
16	40	15,0	100	102	150	16	6			
20	38	19,0	52	54	104	20	6	20700	585,89	347,30
20	32	19,5	60	64	114	20	6	20200	586,29	347,30
20	42	19,5	90	94	144	20	6			
20	50	19,0	98	100	150	20	6			
20	42	19,5	120	124	174	20	6			
25	40	24,5	75	80	136	25	6	25200	734,09	434,70
25	52	24,5	113	118	174	25	6			
25	52	24,5	150	154	210	25	6			

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.

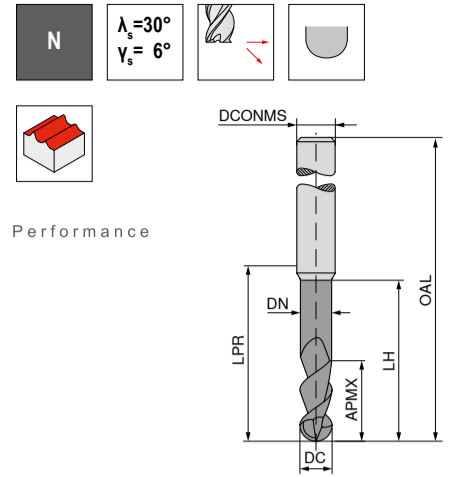


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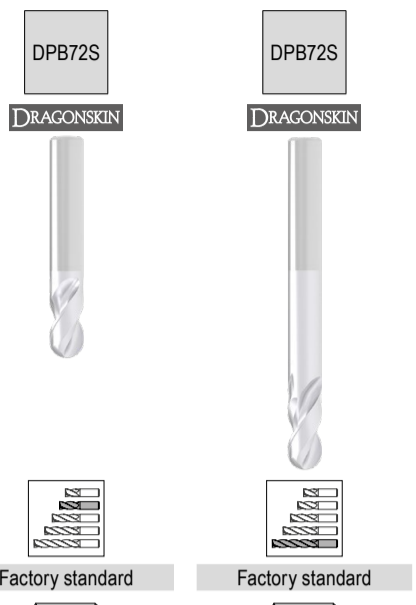
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SilverLine – Ball Nosed Cutter



Performance

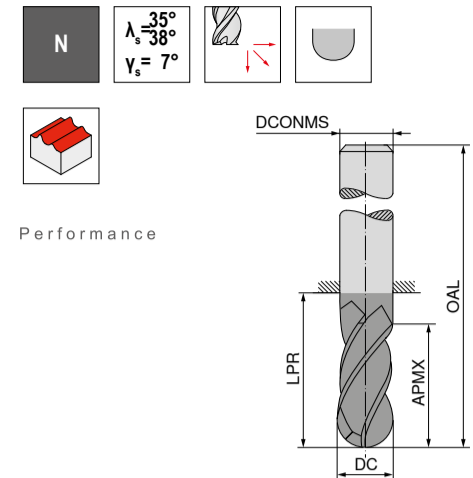


DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZFP	50 963 ...	PG SA	50 963 ...	PG SA
mm	mm	mm	mm	mm	mm	mm			EUR		EUR
3	4	2,8	10	14	50	6	2	03115	69,82		41,40
3	7			24	60	6	2			03415	93,66 55,20
4	8	3,8	12	18	54	6	2	04120	69,82		41,40
4	10			39	75	6	2			04420	93,66 55,20
5	9	4,8	16	18	54	6	2	05125	69,82		41,40
5	12			39	75	6	2			05425	97,44 57,50
6	10	5,7	16	18	54	6	2	06130	69,82		41,40
6	12			64	100	6	2			06430	112,80 66,70
7	11	6,6	20	22	58	8	2	07135	84,99		49,45
8	12	7,6	20	22	58	8	2	08140	84,99		49,45
8	14			64	100	8	2			08440	131,98 78,20
10	14	9,6	24	26	66	10	2	10150	106,38		62,10
10	18			60	100	10	2			10450	179,38 105,80
12	16	11,5	26	28	73	12	2	12160	154,58		90,85
12	22			55	100	12	2			12460	231,38 136,85
14	18	13,3	28	30	75	14	2	14170	179,38		105,80
16	22	15,2	32	34	82	16	2	16180	227,58		134,55
16	30			102	150	16	2			16480	497,68 294,40
20	26	19,0	40	42	92	20	2	20110	374,88		221,95
20	38			100	150	20	2			20410	658,68 389,85

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

SilverLine – Ball Nosed Cutter

The all-rounder for universal application



Performance

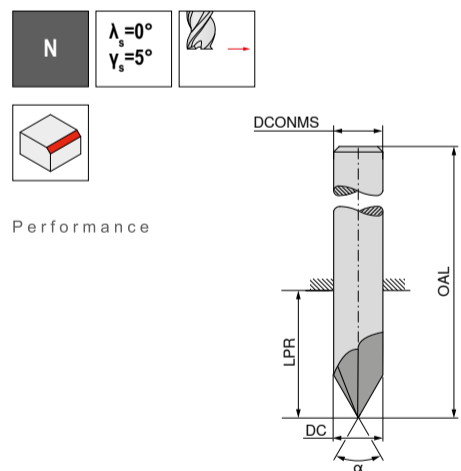


DC _{h6}	APMX	LPR	OAL	DCONMS _{h6}	ZFP	50 990 ...	PG SA
mm	mm	mm	mm	mm			EUR
4	11	21	57	6	4	04220	68,00 40,25
5	13	21	57	6	4	05225	68,00 40,25
6	13	21	57	6	4	06230	79,53 47,15
8	19	36	72	8	4	08280	98,57 57,50
10	22	32	72	10	4	10250	124,48 73,60
12	26	38	83	12	4	12260	196,00 116,15
16	32	44	92	16	4	16280	298,68 171,35
20	38	54	104	20	4	20210	421,08 249,55

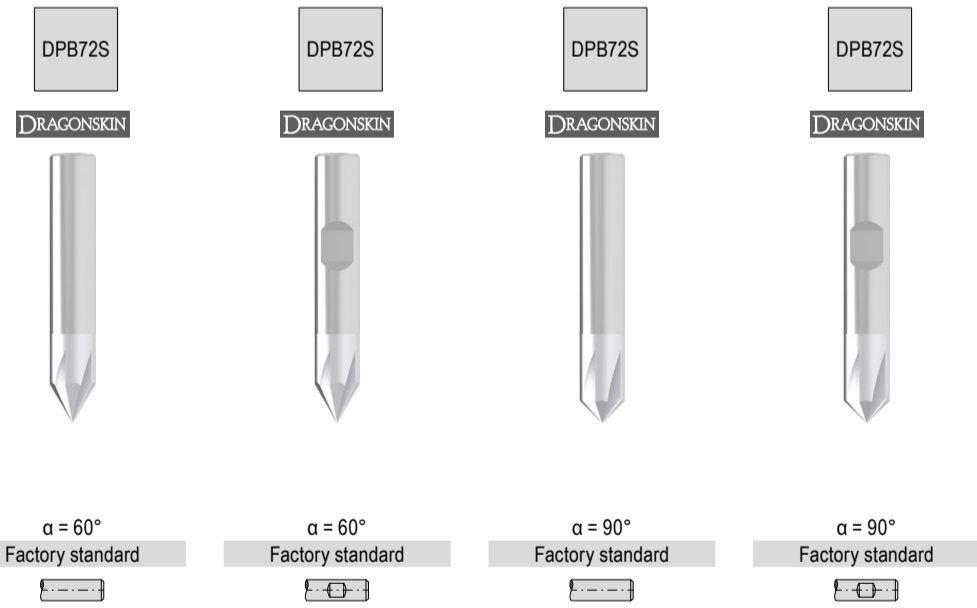
P	●
M	○
K	●
N	○
S	○
H	○
O	○

SilverLine – NC deburring cutter

▲ High performance 5 flute chamfering tool



Performance



DC _{h6}	OAL	LPR	DCONMS _{h6}	ZFP	50 326 ...	PG SA	50 327 ...	PG SA	50 324 ...	PG SA	50 325 ...	PG SA
mm	mm	mm	mm			EUR		EUR		EUR		EUR
4	50	22	4	5	04000	54,00		31,05	04000	54,00		31,05
6	55	19	6	5	06000	59,37		34,50	06000	59,37		34,50
8	58	22	8	5	08000	77,36		44,85	08000	77,36		44,85
10	60	20	10	5	10000	94,94		54,05	10000	94,94		54,05
12	70	25	12	5	12000	117,58		69,00	12000	117,58		69,00

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.

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

Product Manager CERATIZIT, Michael Wucher



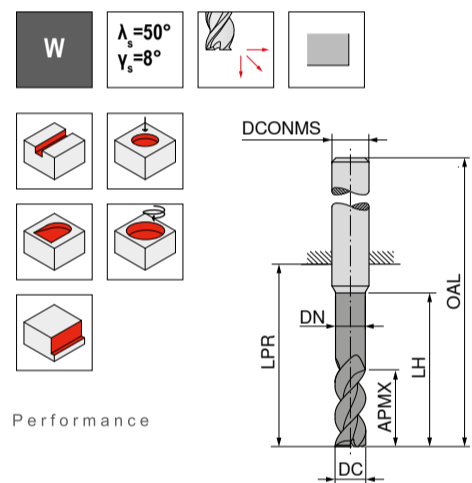
Cutting datas can be found in our main catalogue, Chapter 14 Solid Carbide milling cutters on page 414-419



AluLine – End milling cutter

The specialist for machining non-ferrous metals

▲ With polished chip flutes



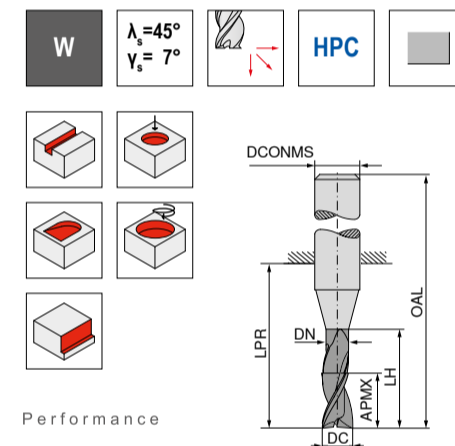
Performance

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
P		
M		
K		
N		
S		
H		
O		

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	53 618 ...	PG SA
P				
M				
K				
N				
S				
H				
O				



Technical support: 1800 93 22 55

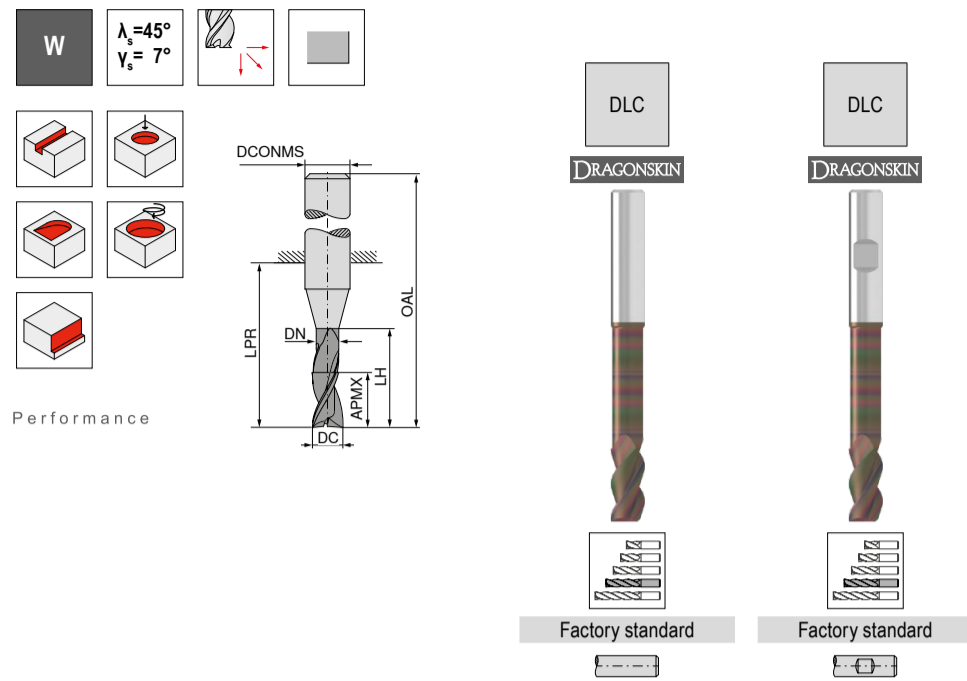
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AluLine – End milling cutter

▲ With polished chip flutes

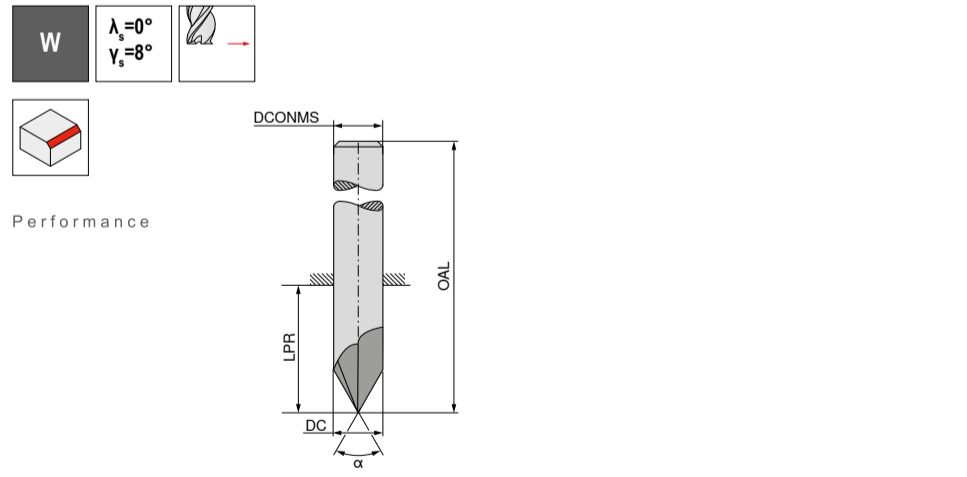


DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEPF	53 617 ... PG SA	53 618 ... PG SA
mm	mm	mm	mm	mm	mm	mm		EUR EUR	EUR EUR
2,0	5,5	1,8	10,0	19	55	6	3	02200	67,04 39,10
2,5	6,5	2,3	12,5	22	58	6	3	02700	66,32 39,10
3,0	8,0	2,8	15,0	22	58	6	3	03200	67,74 39,10
3,5	10,5	3,3	20,0	26	62	6	3	03700	70,55 41,40
4,0	10,5	3,8	20,0	26	62	6	3	04200	71,23 41,40
4,5	13,0	4,3	25,0	34	70	6	3	04700	67,02 50,60
5,0	13,0	4,8	25,0	34	70	6	3	05200	77,03 46,00
5,5	16,0	5,3	30,0	34	70	6	3	05700	88,06 51,75
6,0	16,0	5,8	30,0	34	70	6	3	06200	81,43 48,30
8,0	21,0	7,7	40,0	44	80	8	3	08200	89,59 52,90
10,0	26,0	9,7	50,0	54	94	10	3	10200	130,60 77,05
12,0	31,0	11,6	60,0	64	109	12	3	12200	185,00 109,25
14,0	36,0	13,6	70,0	74	119	14	3	14200	251,30 148,35
16,0	41,0	15,5	80,0	84	132	16	3	16200	338,10 200,10
20,0	52,0	19,5	100,0	104	154	20	3	20200	533,50 316,25

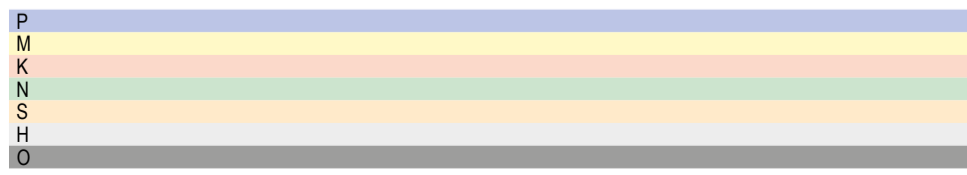


AluLine – NC deburring cutter

▲ Point angle $\alpha = 90^\circ$

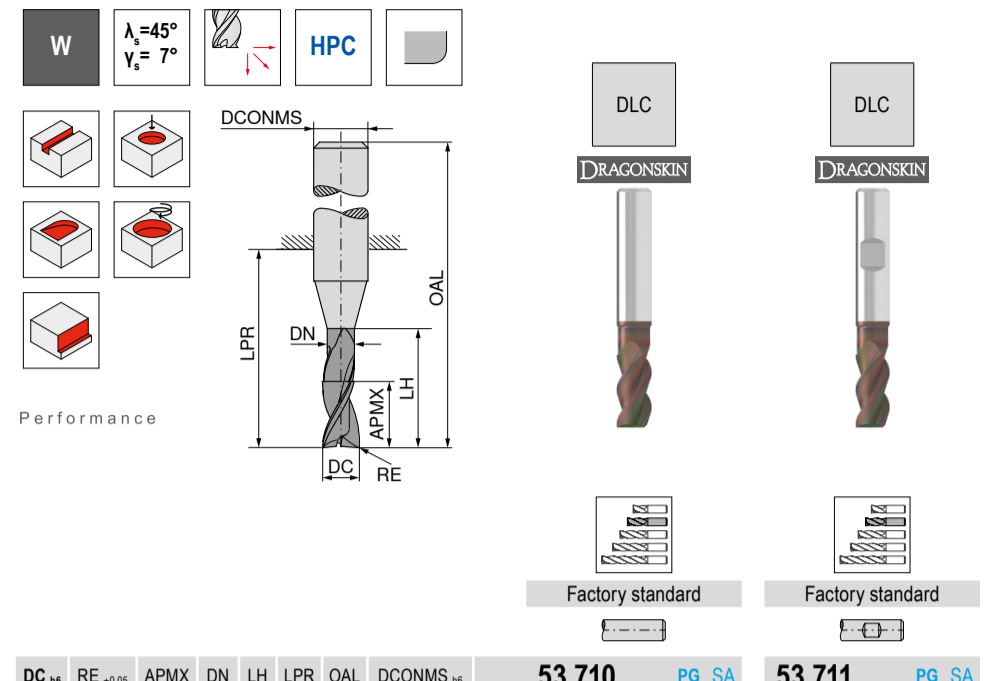


DC _{h6}	OAL	LPR	DCONMS _{h6}	ZEPF
mm	mm	mm	mm	
4	50	22	4	4
6	55	19	6	4
8	58	22	8	4
10	60	20	10	4
12	70	25	12	4
16	80	32	16	4

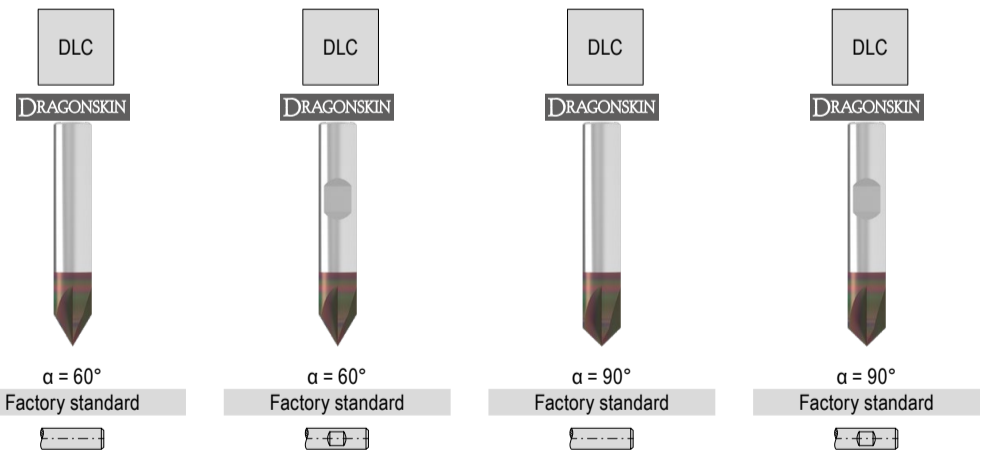
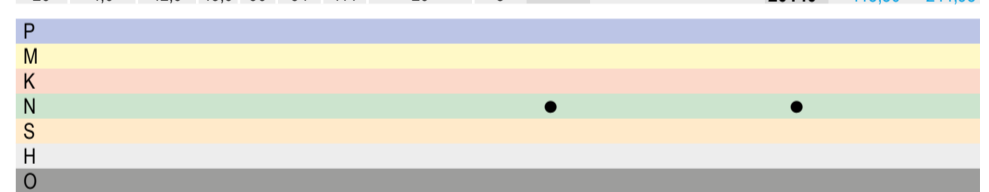


AluLine – End milling cutter with corner radius

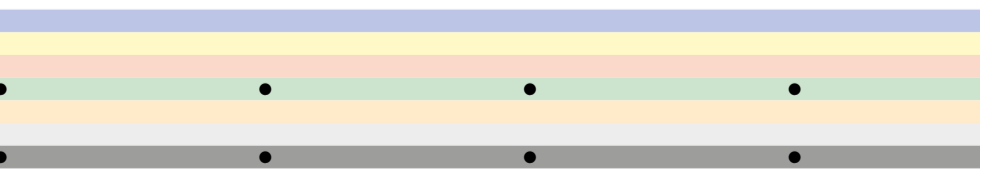
▲ With polished chip flutes



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		EUR EUR	EUR EUR
2	0,3	4,5	1,8	6	14	50	6	3	02103	60,20 35,65
2	0,5	4,5	1,8	6	14	50	6	3	02105	60,20 35,65
3	0,3	6,5	2,7	9	19	55	6	3	03103	64,56 35,65
3	0,5	6,5	2,7	9	19	55	6	3	03105	64,56 35,65
3	1,0	6,5	2,7	9	19	55	6	3	03110	64,56 35,65
4	0,3	8,5	3,7	12	19	55	6	3	04103	64,62 37,95
4	0,5	8,5	3,7	12	19	55	6	3	04105	64,62 37,95
4	1,0	8,5	3,7	12	19	55	6	3	04110	64,62 37,95
5	0,3	10,5	4,7	15	22	58	6	3	05103	70,63 41,40
5	0,5	10,5	4,7	15	22	58	6	3	05105	70,63 41,40
5	1,0	10,5	4,7	15	22	58	6	3	05110	70,63 41,40
6	0,3	13,0	5,7	18	22	58	6	3	06103	73,07 43,70
6	0,5	13,0	5,7	18	22	58	6	3	06105	73,07 43,70
6	1,0	13,0	5,7	18	22	58	6	3	06110	73,07 43,70
6	1,5	13,0	5,7	18	22	58	6	3	06115	73,07 43,70
8	0,3	17,0	7,4	24	28	64	8	3	08103	81,34 47,15
8	0,5	17,0	7,4	24	28	64	8	3	08105	81,34 47,15
8	1,0	17,0	7,4	24	28	64	8	3	08110	81,34 47,15
8	1,5	17,0	7,4	24	28	64	8	3	08115	81,34 47,15
8	2,0	17,0	7,4	24	28	64	8	3	08120	81,34 47,15
10	0,3	21,0	9,2	30	34	74	10	3	10103	117,90 69,00
10	0,5	21,0	9,2	30	34	74	10	3	10105	117,90 69,00
10	1,0	21,0	9,2	30	34	74	10	3	10110	117,90 69,00
10	1,5	21,0	9,2	30	34	74	10	3	10115	117,90 69,00
10	2,0	21,0	9,2	30	34	74	10	3	10120	117,90 69,00
10	3,0	21,0	9,2	30	34	74	10	3	10130	117,90 69,00
12	0,3	25,0	11,0	36	40	85	12	3	12103	167,00 98,90
12	0,5	25,0	11,0	36	40	85	12	3	12105	167,00 98,90
12	1,0	25,0	11,0	36	40	85	12	3	12110	167,00 98,90
12	1,5	25,0	11,0	36	40	85	12	3	12115	167,00 98,90
12	2,0	25,0	11,0	36	40	85	12	3	12120	167,00 98,90
12	3,0	25,0	11,0	36	40	85	12	3	12130	167,00 98,90
12	4,0	25,0	11,0	36	40	85	12	3	12140	167,00 98,90
16	0,3	33,0	15,0	48	52	100	16	3	16103	267,00 158,70
16	0,5	33,0	15,0	48	52	100	16	3	16105	267,00 158,70
16	1,0	33,0	15,0	48	52	100	16	3	16110	267,00 158,70
16	1,5	33,0	15,0	48	52	100	16	3	16115	267,00 158,70
16	2,0	33,0	15,0	48	52	100	16	3	16120	267,00 158,70
16	3,0	33,0	15,0	48	52	100	16	3	16130	267,00 158,70
16	4,0	33,0	15,0	48	52	100	16	3	16140	267,00 158,70
20	0,5	42,0	19,0	60	64	114	20	3	20105	413,30 244,95
20	1,0	42,0	19,0	60	64	114	20	3	20110	413,30 244,95
20	1,5	42,0	19,0	60	64	114	20	3	20115	413,30 244,95
20	2,0	42,0	19,0	60	64	114	20	3	20120	413,30 244,95
20	3,0	42,0	19,0	60	64	114	20	3	20130	413,30 244,95
20	4,0	42,0	19,0	60	64	114	20	3	20140	413,30 244,95

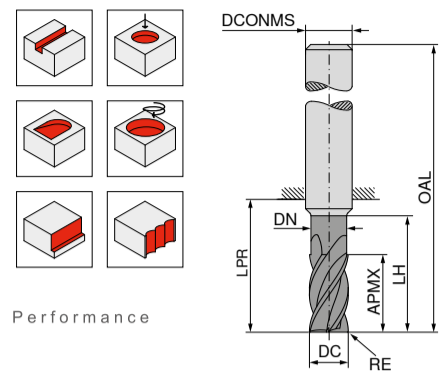
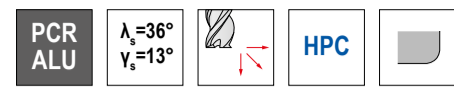


53 662 ... PG SA	53 663 ... PG SA	53 660 ... PG SA	53 661 ... PG SA
EUR EUR	EUR EUR	EUR EUR	EUR EUR
04000	68,30 40,25	06000	75,10 43,70
06000	75,10 43,70	08000	87,44 51,75
08000	87,44 51,75	10000	124,10 71,30
10000	124,10 71,30	12000	136,60 80,50
12000	136,60 80,50	16000	222,70 131,10
16000	222,70 131,10	16000	222,70 131,10
16000	222,70 131,10	16000	222,70 131,10

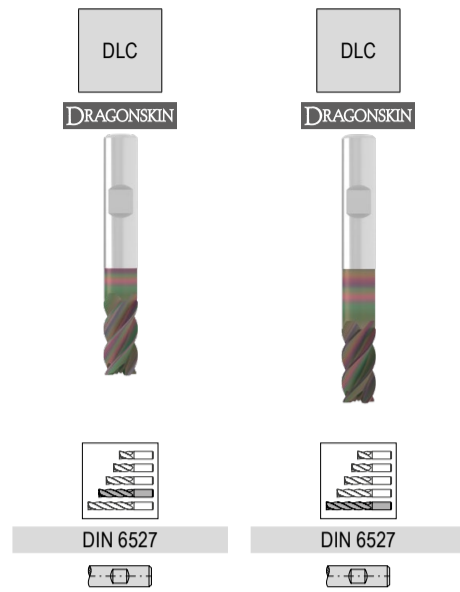


MonsterMill – Plunge milling cutter with corner radius

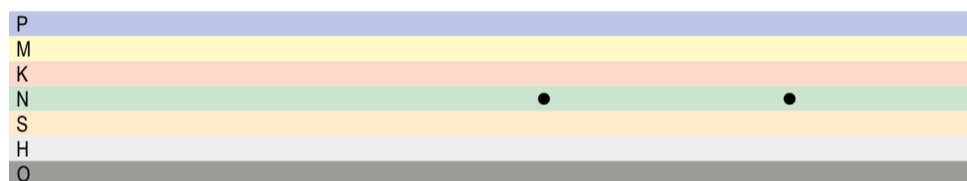
The specialist for ramping, plunging and helical milling



Performance



DC _{R8} 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			
									EUR	EUR	EUR	EUR		
5,0	0,20	13	4,8	19	21	57	6	4	050	99,32	47,15			
5,0	0,20	13	4,8	24	26	62	6	4				050	109,50	51,75
5,7	0,20	13	5,5	19	21	57	6	4	057	99,32	47,15			
5,7	0,20	13	5,5	24	26	62	6	4				057	109,50	51,75
6,0	0,20	13	5,8	19	21	57	6	4	060	102,30	48,30			
6,0	0,20	13	5,8	24	26	62	6	4				060	112,80	52,90
7,7	0,20	19	7,5	25	27	63	8	4	077	117,80	56,35			
7,7	0,20	21	7,4	30	32	68	8	4				077	147,20	70,15
8,0	0,20	19	7,8	25	27	63	8	4	080	124,80	58,65			
8,0	0,20	21	7,7	30	32	68	8	4				080	153,60	72,45
9,0	0,32	19	8,8	30	32	72	10	4	090	164,70	78,20			
9,0	0,32	22	8,7	38	40	80	10	4				090	181,20	86,25
10,0	0,32	22	9,8	30	32	72	10	4	100	159,70	75,90			
10,0	0,32	22	9,7	38	40	80	10	4				100	174,20	82,80
11,7	0,32	26	11,5	36	38	83	12	4	117	213,60	101,20			
12,0	0,32	26	11,8	36	38	83	12	4	120	203,50	96,60			
12,0	0,32	26	11,6	46	48	93	12	4				120	230,60	113,85
13,7	0,32	26	13,5	36	38	83	14	4	137	254,30	120,75			
14,0	0,32	26	13,8	36	38	83	14	4	140	263,50	125,35			
14,0	0,32	26	13,6	52	54	99	14	4				140	295,00	141,45
16,0	0,32	32	15,8	42	44	92	16	4	160	352,00	167,90			
16,0	0,32	36	15,5	58	60	108	16	4				160	400,20	194,35
20,0	0,50	38	19,8	52	54	104	20	4	200	554,60	263,35			
20,0	0,50	41	19,5	74	76	126	20	4				200	667,20	318,55



Our recycling service

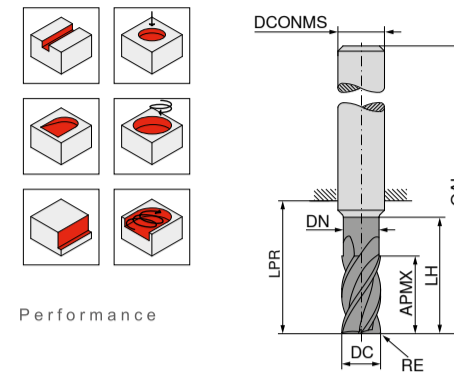
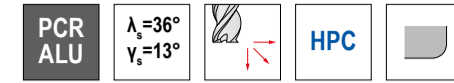
For all our vending customers only, we will collect your used carbide, recycle it back into our system and pay you a 10% premium on market rate for it, current rate 40 EUR per kg.



MonsterMill – Plunge milling cutter with corner radius

The specialist for ramping, plunging and helical milling

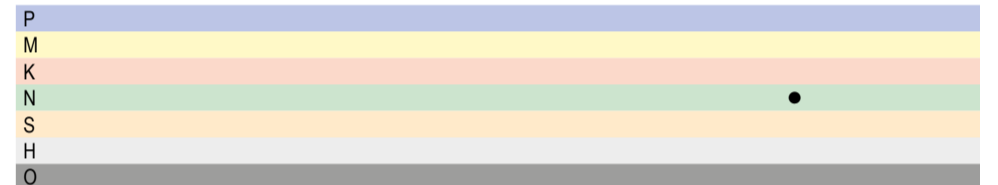
▲ suitable for trochoidal milling
▲ Chip breaker 0.9 x DC



Performance



DC _{R8} mm	RE _{±0.03} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP	52 618 ... PG SA		
									EUR	EUR	
5	0,20	17	4,8	24	26	62	6	4	05202	116,30	57,50
6	0,20	18	5,8	25	26	62	6	4	06202	116,30	57,50
8	0,20	24	7,7	30	32	68	8	4	08202	152,60	75,90
10	0,32	30	9,7	35	40	80	10	4	10203	177,70	88,55
12	0,32	36	11,6	45	48	93	12	4	12203	210,20	119,60
14	0,32	42	13,6	50	54	99	14	4	14203	305,10	151,80
16	0,32	48	15,5	56	60	108	16	4	16203	403,80	201,25
18	0,32	54	17,5	67	69	117	18	4	18203	505,00	251,85
20	0,50	60	19,5	70	76	126	20	4	20205	656,10	326,60

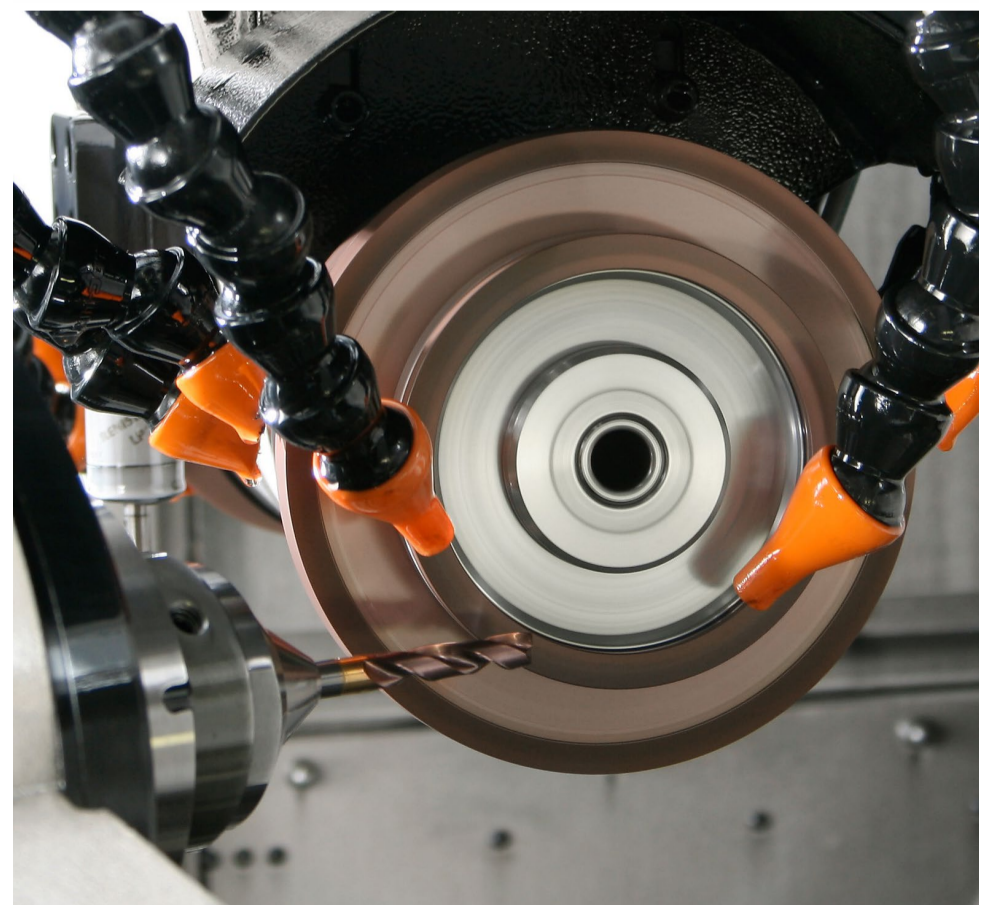


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AluLine – Roughing-Finishing Cutter

The specialist for machining non-ferrous metals

WF $\lambda_s = 5^\circ$
 $\gamma_s = 15^\circ$

Performance

DLC
DRAGONSKIN

Factory standard

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		EUR	EUR
5	0,15	8	4,7	16	18	54	6	3	05101	69,53 40,25
6	0,20	10	5,7	17	18	54	6	3	06102	69,53 40,25
8	0,25	13	7,4	20	22	58	8	3	08103	80,87 47,15
10	0,30	16	9,2	24	26	66	10	3	10103	110,00 65,55
12	0,35	19	11,0	26	28	73	12	3	12104	152,00 89,70

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AluLine – Roughing-Finishing Cutter

The specialist for machining non-ferrous metals

WF $\lambda_s = 5^\circ$
 $\gamma_s = 15^\circ$

Performance

DLC
DRAGONSKIN

Factory standard

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		EUR	EUR
3	0,10	5	2,7	18	44	80	6	3	03301	79,50 47,15
4	0,10	7	3,7	24	44	80	6	3	04301	82,27 48,30
5	0,15	8	4,7	30	44	80	6	3	05301	86,64 50,60
6	0,20	10	5,7	42	44	80	6	3	06302	94,53 55,20
8	0,25	13	7,4	62	64	100	8	3	08303	103,70 60,95
10	0,30	16	9,2	58	60	100	10	3	10303	146,30 86,25
12	0,35	19	11,0	73	75	120	12	3	12304	187,80 110,40

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AluLine – Roughing-Finishing Cutter

The specialist for machining non-ferrous metals

WF $\lambda_s = 5^\circ$
 $\gamma_s = 15^\circ$

Performance

DLC
DRAGONSKIN

Factory standard

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		EUR	EUR
5	0,15	13	4,7	18	21	57	6	3	05201	69,53 40,25
6	0,20	13	5,7	18	21	57	6	3	06202	69,53 40,25
8	0,25	21	7,4	25	27	63	8	3	08203	85,48 50,60
10	0,30	22	9,2	30	32	72	10	3	10203	117,60 69,00
12	0,35	26	11,0	36	38	83	12	3	12204	158,70 93,15

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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

CCR AL $\lambda_s = 45^\circ$
 $\gamma_s = 8^\circ$

Performance

DLC
DRAGONSKIN

Factory standard

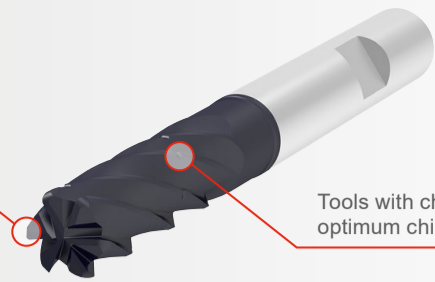
DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{ns}	ZEPF	53 591 ...	PG SM	53 590 ...	PG SM
mm	mm	mm	mm	mm	mm	mm		EUR	EUR	EUR	EUR
6	25	5,8	30	35	71	6	4	060	98,13 57,50	060	94,04 55,20
6	19	5,8	24	30	66	6	4	080	126,70 74,75	080	123,50 72,45
8	33	7,7	40	44	80	8	4	100	175,30 103,50	100	172,10 101,20
8	25	7,7	32	37	73	8	4	120	210,00 128,80	120	207,00 121,90
10	41	9,7	50	55	95	10	4	14000	324,70 192,05	14000	317,10 187,45
10	31	9,7	40	49	89	10	4	160	433,60 256,45	160	425,20 251,85
12	49	11,6	60	64	109	12	4	200	611,30 362,25	200	596,70 353,05
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				

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CircularLine

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



DRAGONSKIN

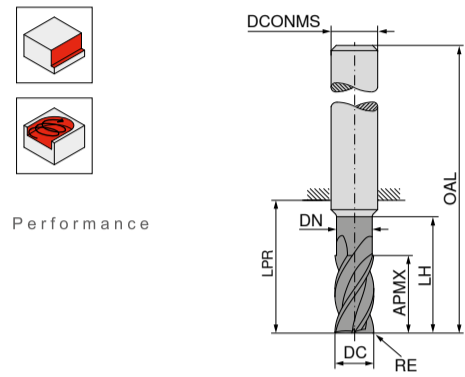
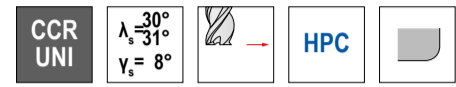
Tools with chip breakers for optimum chip removal



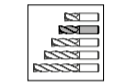
CircularLine – End milling cutter with corner radius

The specialist for trochoidal machining

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



Performance



Factory standard

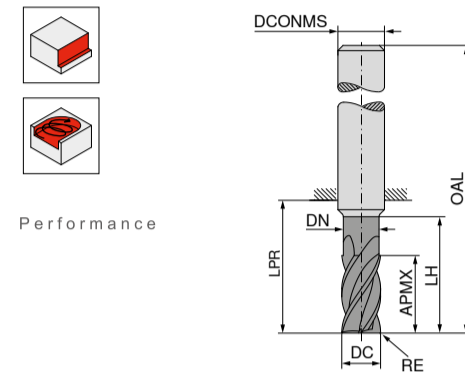
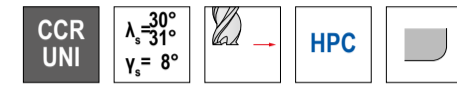
DC _{as}	OAL	RE _{±0.05}	APMX	DN	LH	LPR	DCONMS _{h6}	ZEFP	53 586 ... PG SM	
mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
6	57	1,0	13	5,8	19	21	6	6	06010	90,00 40,25
6	57	0,2	13	5,8	19	21	6	6	06002	89,64 40,25
6	57	1,5	13	5,8	19	21	6	6	06015	90,00 40,25
8	63	1,0	21	7,7	25	27	8	6	08010	110,60 54,05
8	63	0,2	21	7,7	25	27	8	6	08002	116,00 52,90
8	63	1,5	21	7,7	25	27	8	6	08015	110,60 54,05
8	63	2,0	21	7,7	25	27	8	6	08020	110,60 54,05
10	72	1,5	22	9,7	30	32	10	6	10015	154,20 70,15
10	72	0,2	22	9,7	30	32	10	6	10002	150,10 67,85
10	72	1,0	22	9,7	30	32	10	6	10010	154,20 70,15
10	72	2,0	22	9,7	30	32	10	6	10020	154,20 70,15
12	83	1,5	26	11,6	36	38	12	6	12015	194,00 88,55
12	83	0,2	26	11,6	36	38	12	6	12002	193,00 88,55
12	83	1,0	26	11,6	36	38	12	6	12010	194,00 88,55
12	83	1,6	26	11,6	36	38	12	6	12016	194,00 88,55
12	83	2,0	26	11,6	36	38	12	6	12020	194,00 88,55
12	83	3,0	26	11,6	36	38	12	6	12030	194,00 88,55
16	92	3,0	36	15,5	42	44	16	6	16030	404,10 184,00
16	92	0,2	36	15,5	42	44	16	6	16002	384,00 175,95
16	92	1,0	36	15,5	42	44	16	6	16010	415,10 189,75
16	92	1,5	36	15,5	42	44	16	6	16015	404,10 184,00
16	92	1,6	36	15,5	42	44	16	6	16016	404,10 184,00
16	92	2,0	36	15,5	42	44	16	6	16020	404,10 184,00
16	92	4,0	36	15,5	42	44	16	6	16040	404,10 184,00
20	104	2,0	41	19,5	52	54	20	6	20020	550,20 256,45
20	104	0,2	41	19,5	52	54	20	6	20002	553,50 253,00
20	104	1,0	41	19,5	52	54	20	6	20010	550,20 256,45
20	104	1,5	41	19,5	52	54	20	6	20015	550,20 256,45
20	104	3,0	41	19,5	52	54	20	6	20030	550,20 256,45
20	104	4,0	41	19,5	52	54	20	6	20040	550,20 256,45

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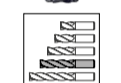
CircularLine – End milling cutter with corner radius

The specialist for trochoidal machining

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



Performance



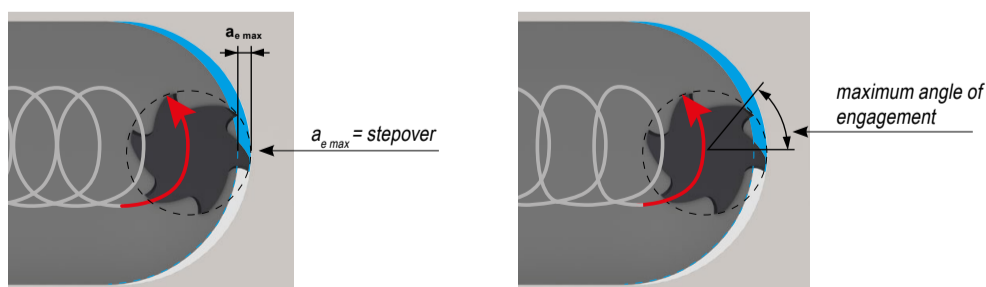
Factory standard

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		EUR	EUR
6	0,2	19	5,8	25	27	63	6	6	06202	90,30 40,25
6	1,0	19	5,8	25	27	63	6	6	06210	93,00 40,25
6	1,5	19	5,8	25	27	63	6	6	06215	93,00 40,25
8	0,2	25	7,7	33	35	71	8	6	08202	117,00 51,75
8	1,0	25	7,7	33	35	71	8	6	08210	120,00 52,90
8	1,5	25	7,7	33	35	71	8	6	08215	120,00 52,90
8	2,0	25	7,7	33	35	71	8	6	08220	120,00 52,90
10	0,2	31	9,7	41	43	83	10	6	10202	164,70 73,60
10	1,0	31	9,7	41	43	83	10	6	10210	168,30 74,75
10	1,5	31	9,7	41	43	83	10	6	10215	168,30 74,75
10	2,0	31	9,7	41	43	83	10	6	10220	168,30 74,75
12	0,2	37	11,6	47	49	94	12	6	12202	194,50 86,25
12	1,0	37	11,6	47	49	94	12	6	12210	199,40 88,55
12	1,5	37	11,6	47	49	94	12	6	12215	199,40 88,55
12	1,6	37	11,6	47	49	94	12	6	12216	199,40 88,55
12	2,0	37	11,6	47	49	94	12	6	12220	199,40 88,55
12	3,0	37	11,6	47	49	94	12	6	12230	199,40 88,55
16	0,2	49	15,5	61	63	111	16	6	16202	404,00 178,25
16	1,0	49	15,5	61	63	111	16	6	16210	406,00 180,55
16	1,5	49	15,5	61	63	111	16	6	16215	406,00 180,55
16	1,6	49	15,5	61	63	111	16	6	16216	406,00 180,55
16	2,0	49	15,5	61	63	111	16	6	16220	406,00 180,55
16	3,0	49	15,5	61	63	111	16	6	16230	406,00 180,55
16	4,0	49	15,5	61	63	111	16	6	16240	406,00 180,55
20	0,2	61	19,5	75	77	127	20	6	20202	562,70 250,70
20	1,0	61	19,5	75	77	127	20	6	20210	560,00 253,00
20	1,5	61	19,5	75	77	127	20	6	20215	560,00 253,00
20	1,6	61	19,5	75	77	127	20	6	20216	560,00 253,00
20	2,0	61	19,5	75	77	127	20	6	20220	560,00 253,00
20	3,0	61	19,5	75	77	127	20	6	20230	560,00 253,00
20	4,0	61	19,5	75	77	127	20	6	20240	560,00 253,00

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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

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

- $a_{e \max}$ = 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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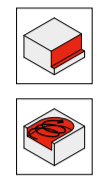
Order by 6:00 pm and get your guaranteed free express delivery

CircularLine – End milling cutter

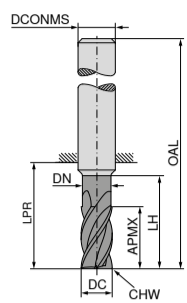
The specialist for trochoidal machining

▲ Chip breaker 0,9 x DC

▲ Cutting depth: 4 x DC



Performance



DC _{es}	OAL	APMX	DN	LH	LPR	DCONMS _{h6}	CHW	ZEPF	53 589 ...	PG SM
mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
6	67	25	5,8	29	31	6	0,2	5	060	93,48 41,40
8	76	33	7,7	38	40	8	0,2	5	080	120,00 52,90
10	89	41	9,7	47	49	10	0,2	5	100	167,00 73,60
12	102	49	11,6	55	57	12	0,2	5	120	204,00 90,85
16	123	65	15,5	73	75	16	0,2	5	160	440,00 181,70
20	143	82	19,5	91	93	20	0,2	5	200	577,00 256,45

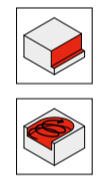
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CircularLine – End milling cutter with corner radius

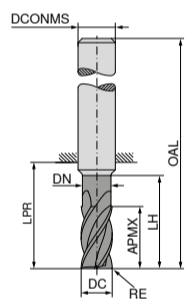
The specialist for trochoidal machining

▲ Chip breaker 0,9 x DC

▲ Cutting depth: 4 x DC



Performance



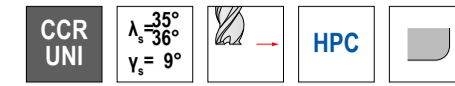
DC _{es}	OAL	RE _{±0,05}	APMX	DN	LH	LPR	DCONMS _{h6}	ZEPF	53 593 ...	PG SM
mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
6	67	1,5	25	5,8	29	31	6	5	06015	96,24 42,55
6	67	1,0	25	5,8	29	31	6	5	06010	96,24 42,55
6	67	0,2	25	5,8	29	31	6	5	06002	93,48 41,40
8	76	1,5	33	7,7	38	40	8	5	08015	120,00 54,05
8	76	1,0	33	7,7	38	40	8	5	08010	120,00 54,05
8	76	2,0	33	7,7	38	40	8	5	08020	120,00 54,05
8	76	0,2	33	7,7	38	40	8	5	08002	120,00 52,90
10	89	1,0	41	9,7	47	49	10	5	10010	171,70 75,90
10	89	1,5	41	9,7	47	49	10	5	10015	171,70 75,90
10	89	2,0	41	9,7	47	49	10	5	10020	171,70 75,90
10	89	0,2	41	9,7	47	49	10	5	10002	167,00 73,60
12	102	1,0	49	11,6	55	57	12	5	12010	209,70 93,15
12	102	1,5	49	11,6	55	57	12	5	12015	209,70 93,15
12	102	1,6	49	11,6	55	57	12	5	12016	209,70 93,15
12	102	2,0	49	11,6	55	57	12	5	12020	209,70 93,15
12	102	3,0	49	11,6	55	57	12	5	12030	209,70 93,15
12	102	0,2	49	11,6	55	57	12	5	12002	204,00 90,85
16	123	1,6	65	15,5	73	75	16	5	16016	446,70 185,15
16	123	1,0	65	15,5	73	75	16	5	16010	446,70 185,15
16	123	1,5	65	15,5	73	75	16	5	16015	446,70 185,15
16	123	2,0	65	15,5	73	75	16	5	16020	446,70 185,15
16	123	3,0	65	15,5	73	75	16	5	16030	446,70 185,15
16	123	4,0	65	15,5	73	75	16	5	16040	446,70 185,15
16	123	0,2	65	15,5	73	75	16	5	16002	440,00 181,70
20	143	3,0	82	19,5	91	93	20	5	20030	585,00 261,05
20	143	1,0	82	19,5	91	93	20	5	20010	585,00 261,05
20	143	1,5	82	19,5	91	93	20	5	20015	585,00 261,05
20	143	2,0	82	19,5	91	93	20	5	20020	585,00 261,05
20	143	4,0	82	19,5	91	93	20	5	20040	585,00 261,05
20	143	0,2	82	19,5	91	93	20	5	20002	577,00 256,45

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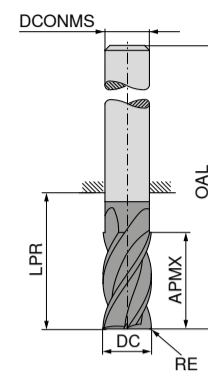
CircularLine – End milling cutter with corner radius

▲ Chip breaker 0,9 x DC

▲ Cutting depth: 5 x DC

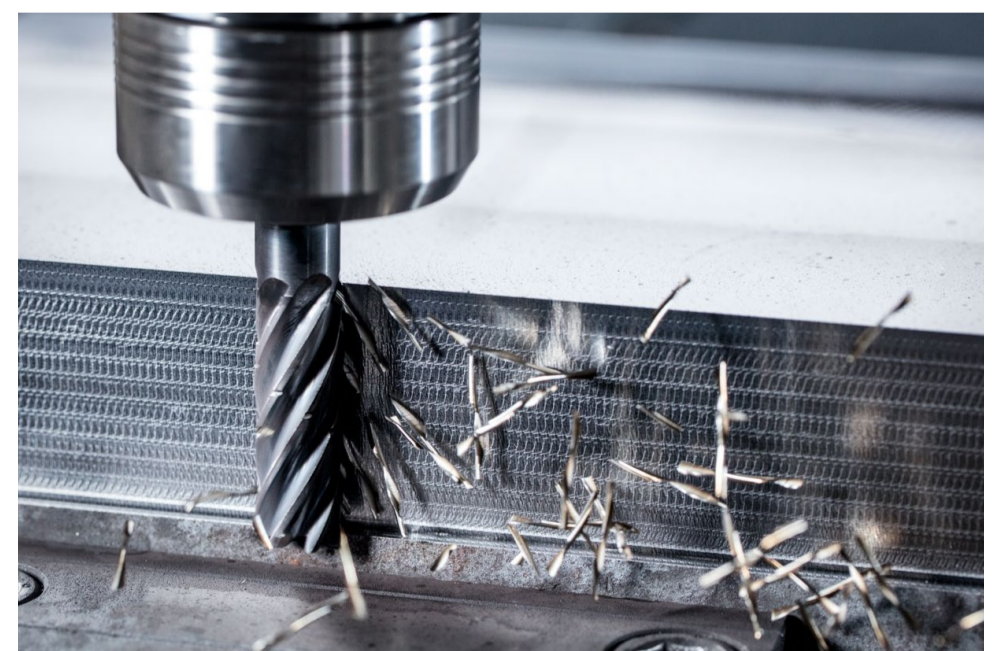


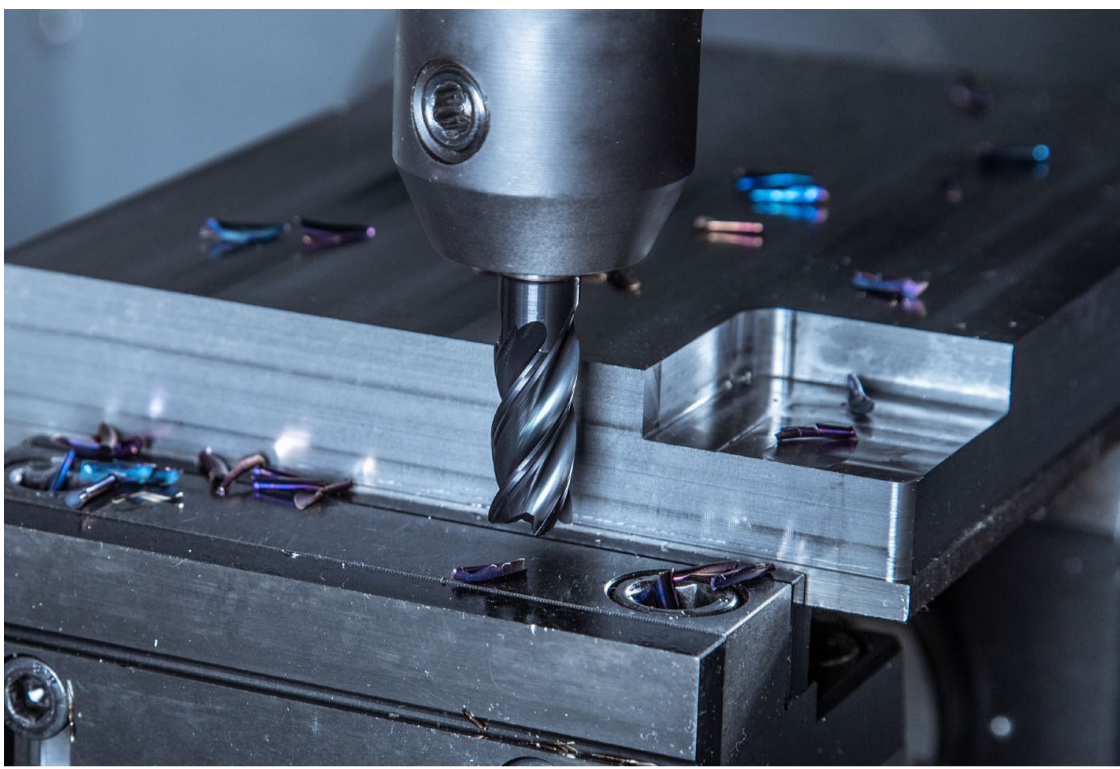
Performance



DC _{es}	RE _{±0,05}	APMX	LPR	OAL	DCONMS _{h6}	ZEPF	53 593 ...	PG SM
mm	mm	mm	mm	mm	mm		EUR	EUR
6	0,2	31	39	75	6	5	06402	115,00 60,95
6	1,0	31	39	75	6	5	06410	115,00 60,95
6	1,5	31	39	75	6	5	06415	115,00 60,95
8	0,2	41	49	85	8	5	08402	132,50 70,15
8	1,0	41	49	85	8	5	08410	132,50 70,15
8	1,5	41	49	85	8	5	08415	132,50 70,15
8	2,0	41	49	85	8	5	08420	132,50 70,15
10	0,2	51	60	100	10	5	10402	182,00 96,60
10	1,0	51	60	100	10	5	10410	182,00 96,60
10	1,5	51	60	100	10	5	10415	182,00 96,60
10	1,6	51	60	100	10	5	10416	182,00 96,60
10	2,0	51	60	100	10	5	10420	182,00 96,60
12	0,2	61	70	115	12	5	12402	226,70 119,60
12	1,0	61	70	115	12	5	12410	226,70 119,60
12	1,5	61	70	115	12	5	12415	226,70 119,60
12	1,6	61	70	115	12	5	12416	226,70 119,60
12	2,0	61	70	115	12	5	12420	226,70 119,60
12	3,0	61	70	115	12	5	12430	226,70 119,60
14	0,2	71	81	126	14	5	14402	465,00 119,60
14	1,0	71	81	126	14	5	14410	465,00 247,25
14	1,5	71	81	126	14	5	14415	465,00 247,25
14	2,0	71	81	126	14	5	14420	465,00 247,25
14	3,0	71	81	126	14	5	14430	465,00 247,25
16	0,2	81	92	140	16	5	16402	460,00 243,80
16	1,0	81	92	140	16	5	16410	460,00 243,80
16	1,5	81	92	140	16	5	16415	460,00 243,80
16	2,0	81	92	140	16	5	16420	460,00 243,80
16	3,0	81	92	140	16	5	16430	460,00 243,80
16	4,0	81	92	140	16	5	16440	460,00 243,80
18	0,2	91	102	150	18	5	18402	527,10 279,45
20	0,2	102	113	163	20	5	20402	636,00 336,95
20	1,0	102	113	163	20	5	20410	636,00 336,95
20	1,5	102	113	163	20	5	20415	636,00 336,95
20	2,0	102	113	163	20	5	20420	636,00 336,95
20	3,0	102	113	163	20	5	20430	636,00 336,95
20	4,0	102	113	163	20	5	20440	636,00 336,95

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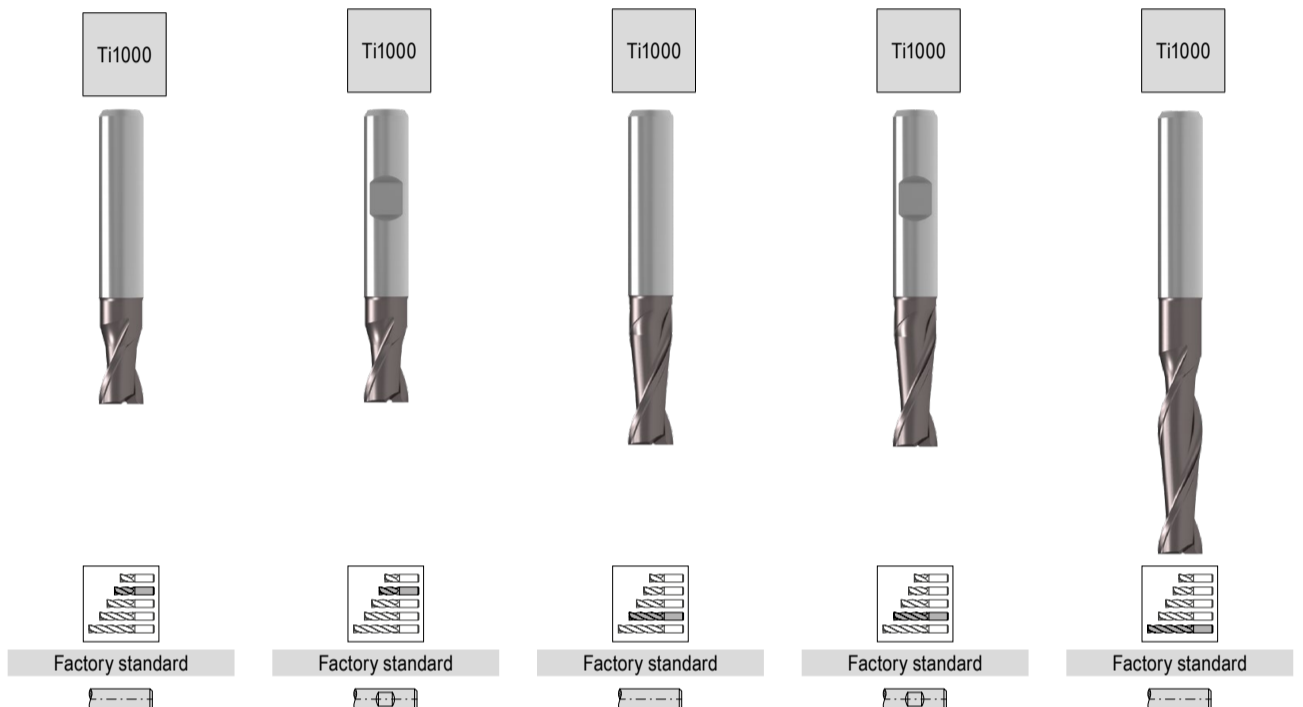
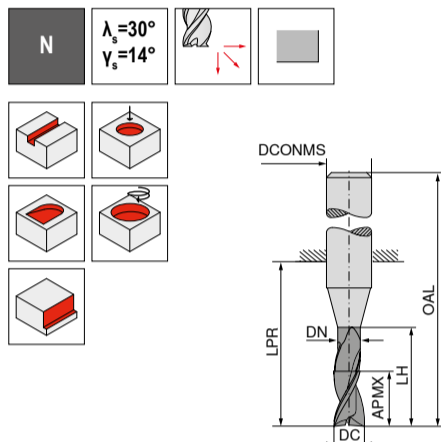


Ti 1000 CoreLine

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



End milling cutter



DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP	54 069 ... PG CX		54 079 ... PG CX		54 080 ... PG CX		54 081 ... PG CX		54 082 ... PG CX					
								EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR						
0,5	1,5			10	38	3	2	95000	13,76	10,35											
0,6	1,5			10	38	3	2	96000	13,76	10,35											
0,7	2,0			10	38	3	2	97000	13,76	10,35											
0,8	2,0			10	38	3	2	98000	13,76	10,35											
0,9	2,5			10	38	3	2	99000	13,76	10,35											
1,0	3,0			10	38	3	2	31000	13,76	10,35											
1,0	4,0	0,9	6	22	58	6	2														
1,1	3,0			10	38	3	2	31100	13,76	10,35			01000	13,76	10,35						
1,2	4,0			10	38	3	2	31200	13,76	10,35											
1,3	4,0			10	38	3	2	31300	13,76	10,35											
1,4	4,0			10	38	3	2	31400	13,76	10,35											
1,5	4,0			10	38	3	2	31500	13,76	10,35											
1,5	3,0	1,4	6	18	54	6	2	01500	13,76	10,35											
1,5	6,0	1,4	8	22	58	6	2														
1,6	4,0			10	38	3	2	31600	13,76	10,35			01500	13,76	10,35						
1,8	5,0			10	38	3	2	31800	13,76	10,35											
2,0	5,0			10	38	3	2	32000	13,76	10,35											
2,0	4,0	1,9	8	18	54	6	2	02000	13,76	10,35											
2,0	7,0	1,9	10	22	58	6	2														
2,5	6,0			10	38	3	2	32500	13,76	10,35			02000	13,76	10,35						
2,5	4,0	2,4	8	18	54	6	2	02500	13,76	10,35											
3,0	6,0			10	38	3	2	33000	13,76	10,35											
3,0	6,0	2,9	9	18	54	6	2	03000	13,76	10,35											
3,0	10,0	2,9	14	22	58	6	2														
3,0	20,0	2,9	24	32	60	3	2														
3,5	6,0	3,3	9	18	54	6	2	03500	13,76	10,35							33000	24,35	20,70		
4,0	7,0	3,8	12	18	54	6	2	04000	13,76	10,35			04000	13,76	10,35						
4,0	13,0	3,8	18	22	58	6	2														
4,0	30,0	3,8	35	47	75	4	2											44000	24,35	20,70	
4,5	7,0	4,3	12	18	54	6	2	04500	13,76	10,35											
5,0	8,0	4,8	16	18	54	6	2	05000	13,76	10,35			05000	13,76	10,35						
5,0	15,0	4,8	18	22	58	6	2														
5,0	30,0	4,8	35	47	75	5	2												55000	24,35	20,70
6,0	10,0	5,8	16	18	54	6	2	06000	13,76	10,35			06000	13,76	10,35						
6,0	16,0	5,8	20	22	58	6	2														
6,0	40,0	5,8	60	64	100	6	2												06000	24,35	20,70
8,0	12,0	7,7	20	23	59	8	2	08000	18,52	14,95			08000	18,52	14,95						
8,0	22,0	7,7	25	34	70	8	2														
8,0	40,0	7,7	60	64	100	8	2												08000	23,87	27,60
10,0	13,0	9,7	24	27	67	10	2	10000	23,82	19,55			10000	23,82	19,55						
10,0	25,0	9,7	30	33	73	10	2														
10,0	40,0	9,7	55	60	100	10	2												10000	43,40	35,65
12,0	16,0	11,6	26	28	73	12	2	12000	31,75	26,45			12000	31,75	26,45						
12,0	26,0	11,6	35	39	84	12	2														
12,0	45,0	11,6	50	55	100	12	2												12000	60,33	49,45
P									●		●		●		●		●				
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K									●		●		●		●		●				
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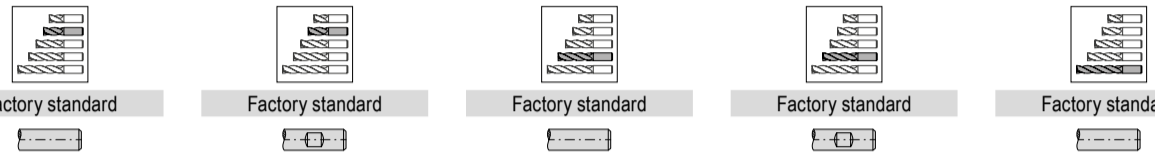
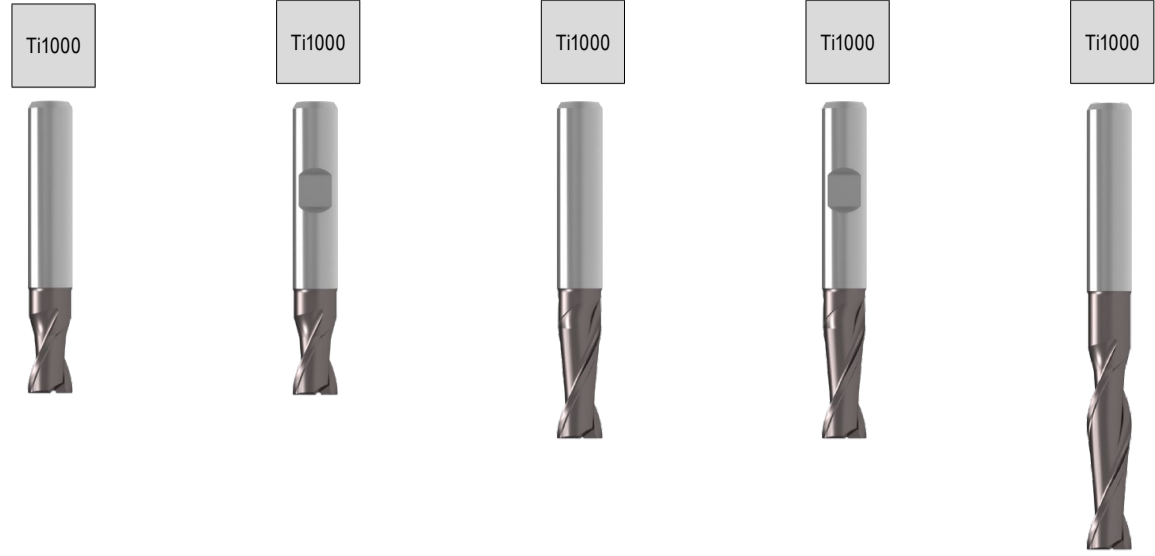
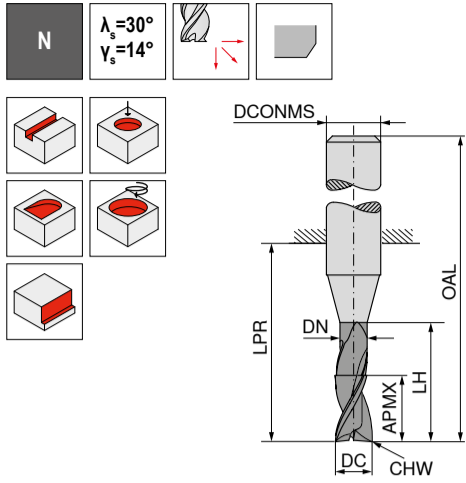


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End milling cutter



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		EUR	EUR	EUR	EUR	EUR			
0,5	1,5			10	38	3	0,04	2	95000	13,76	10,35					
0,6	1,5			10	38	3	0,04	2	96000	13,76	10,35					
0,7	2,0			10	38	3	0,04	2	97000	13,76	10,35					
0,8	2,0			10	38	3	0,04	2	98000	13,76	10,35					
0,9	2,5			10	38	3	0,04	2	99000	13,76	10,35					
1,0	3,0			10	38	3	0,04	2	31000	13,76	10,35					
1,0	4,0	0,9	6	22	58	6	0,04	2			01000	13,76	10,35			
1,1	3,0			10	38	3	0,04	2	31100	13,76	10,35					
1,2	4,0			10	38	3	0,04	2	31200	13,76	10,35					
1,3	4,0			10	38	3	0,04	2	31300	13,76	10,35					
1,4	4,0			10	38	3	0,04	2	31400	13,76	10,35					
1,5	4,0			10	38	3	0,04	2	31500	13,76	10,35					
1,5	3,0	1,4	6	18	54	6	0,04	2	01500	13,76	10,35					
1,5	6,0	1,4	8	22	58	6	0,04	2			01500	13,76	10,35			
1,6	4,0			10	38	3	0,04	2	31600	13,76	10,35					
1,8	5,0			10	38	3	0,04	2	31800	13,76	10,35					
2,0	5,0			10	38	3	0,04	2	32000	13,76	10,35					
2,0	6,0			10	38	2	0,04	2			22000	13,76	10,35			
2,0	4,0	1,9	8	18	54	6	0,04	2	02000	13,76	10,35					
2,5	6,0			10	38	3	0,07	2	32500	13,76	10,35					
2,5	4,0	2,4	8	18	54	6	0,07	2	02500	13,76	10,35					
3,0	6,0			10	38	3	0,07	2	33000	13,76	10,35					
3,0	7,0			10	38	3	0,07	2			33000	13,76	10,35			
3,0	6,0	2,9	9	18	54	6	0,07	2	03000	13,76	10,35					
3,0	10,0	2,9	14	22	58	6	0,07	2			03000	13,76	10,35			
3,0	20,0	2,9	24	32	60	3	0,07	2					33000	24,35	20,70	
3,5	6,0	3,3	9	18	54	6	0,07	2	03500	13,76	10,35					
4,0	8,0	3,8	20	22	50	4	0,07	2			44000	13,76	10,35			
4,0	7,0	3,8	12	18	54	6	0,07	2	04000	13,76	10,35					
4,0	13,0	3,8	18	22	58	6	0,07	2			04000	13,76	10,35			
4,0	30,0	3,8	35	47	75	4	0,07	2					44000	24,35	20,70	
4,5	7,0	4,3	12	18	54	6	0,12	2	04500	13,76	10,35					
5,0	10,0	4,8	20	22	50	5	0,12	2			55000	13,76	10,35			
5,0	8,0	4,8	16	18	54	6	0,12	2	05000	13,76	10,35					
5,0	15,0	4,8	18	22	58	6	0,12	2			05000	13,76	10,35			
5,0	30,0	4,8	35	47	75	5	0,12	2					55000	24,35	20,70	
6,0	10,0	5,8	16	18	54	6	0,12	2	06000	13,76	10,35					
6,0	16,0	5,8	20	22	58	6	0,12	2			06000	13,76	10,35			
6,0	40,0	5,8	60	64	100	6	0,12	2					06000	24,35	20,70	
8,0	12,0	7,7	20	23	59	8	0,12	2	08000	18,52	14,95					
8,0	22,0	7,7	25	34	70	8	0,12	2			08000	18,52	14,95			
8,0	40,0	7,7	60	64	100	8	0,12	2					08000	33,07	27,60	
10,0	13,0	9,7	24	27	67	10	0,20	2	10000	23,82	19,55					
10,0	25,0	9,7	30	33	73	10	0,20	2			10000	23,82	19,55			
10,0	40,0	9,7	55	60	100	10	0,20	2					10000	43,48	35,65	
12,0	16,0	11,6	26	28	73	12	0,20	2	12000	31,75	26,45					
12,0	26,0	11,6	35	39	84	12	0,20	2			12000	31,75	26,45			
12,0	45,0	11,6	50	55	100	12	0,20	2					12000	60,33	49,45	
P									●		●		●		●	
M									○		○		○		○	
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N									○		○		○		○	
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H																
O																

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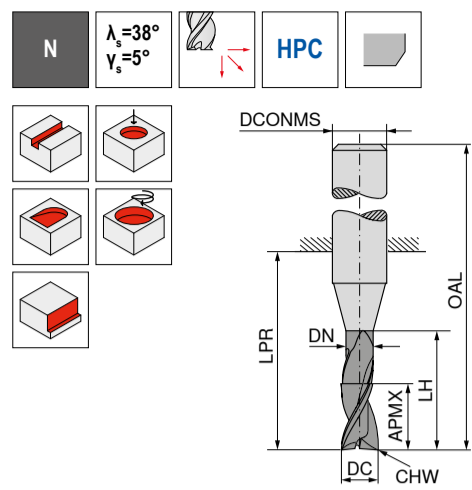


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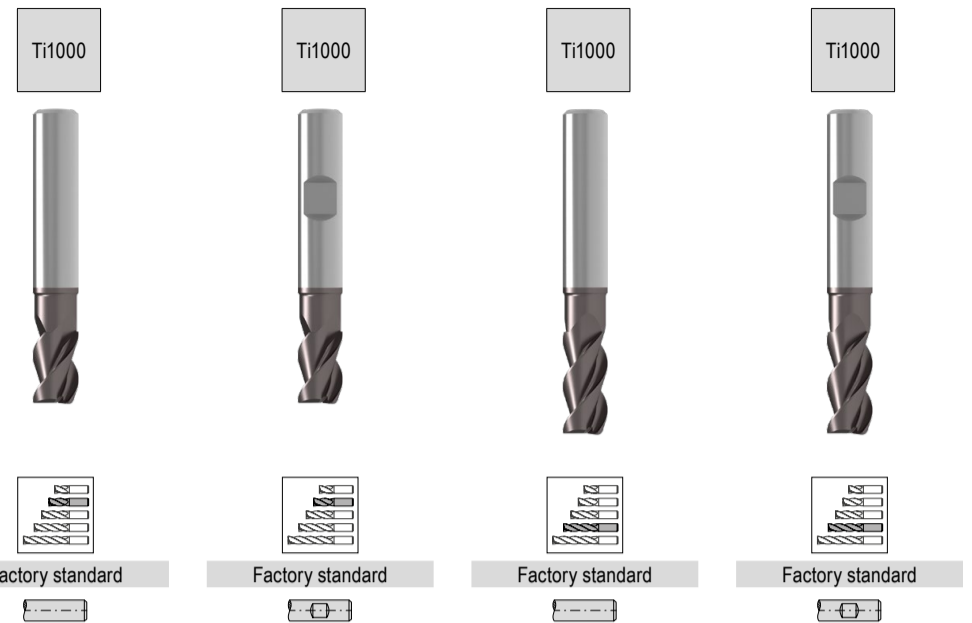
End milling cutter

▲ Cutting edges with irregular pitch



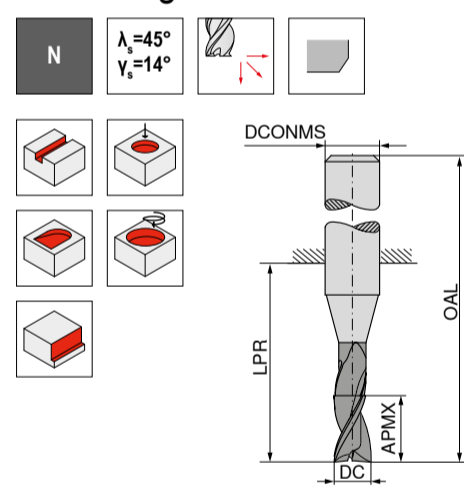
DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP
2,0	4	1,9	8	18	54	6	0,04	3
2,0	7	1,9	10	22	58	6	0,04	3
2,5	5	2,4	8	18	54	6	0,07	3
3,0	6	2,9	9	18	54	6	0,07	3
3,0	10	2,9	14	22	58	6	0,07	3
4,0	7	3,8	12	18	54	6	0,07	3
4,0	13	3,8	17	22	58	6	0,07	3
5,0	8	4,8	16	18	54	6	0,12	3
5,0	15	4,8	19	22	58	6	0,12	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
EUR	EUR	EUR	EUR
02000	11,50	11,50	11,50
02500	11,50	11,50	11,50
03000	11,50	11,50	11,50
04000	11,50	11,50	11,50
05000	11,50	11,50	11,50
06000	11,50	11,50	11,50
08000	17,25	17,25	17,25
10000	20,70	20,70	20,70
12000	31,05	31,05	31,05

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	EUR	EUR
03000	20,70	20,70
03500	20,70	20,70
04000	20,70	20,70
04500	20,70	20,70
05000	20,70	20,70
05500	20,70	20,70
06000	20,70	20,70
06500	27,60	27,60
07000	27,60	27,60
08000	27,60	27,60
10000	35,65	35,65
12000	49,45	49,45
16000	101,20	101,20
20000	132,25	132,25

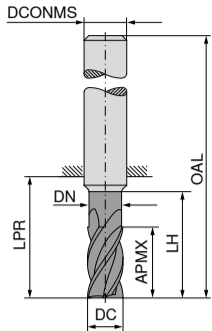
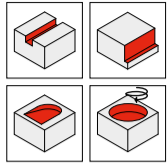
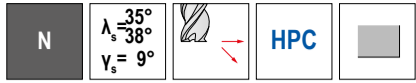


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End milling cutter



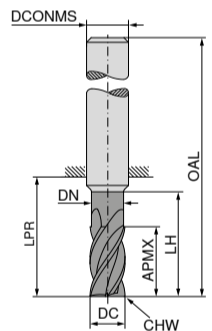
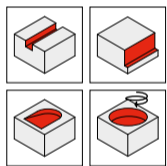
Square Corner

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

54 070 ... PG CX		54 070 ... PG CX		54 070 ... PG CX	
Code	EUR	EUR	EUR	EUR	EUR
03100	49,80	10,35	03200	49,80	10,35
04100	49,80	10,35	04200	49,80	10,35
05100	49,80	10,35	05200	49,80	10,35
06100	49,80	10,35	06200	23,14	12,65
08100	27,07	16,10	08200	29,99	16,10
10100	36,18	19,55	10200	39,40	23,00
12100	52,04	29,90	12200	62,54	35,65
16100	94,15	51,75	16200	96,27	55,20
20100	135,50	78,20	20200	145,98	83,95
			20400	198,38	113,85

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

End milling cutter



Chamfered Edge

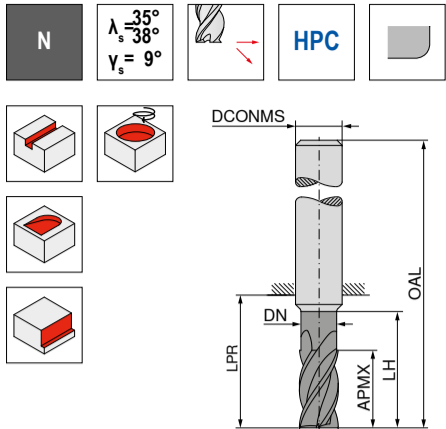
DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
3	5			14	50	6	0,1	4
3	8	2.8	13	21	57	6	0,1	4
3	8	2.8	15	22	69	6	0,1	4
4	8			18	54	6	0,1	4
4	11	3.8	17	21	57	6	0,1	4
4	11	3.8	20	26	69	6	0,1	4
5	9			18	54	6	0,1	4
5	13	4.8	19	21	57	6	0,1	4
5	13	4.8	25	34	69	6	0,1	4
6	10			18	54	6	0,1	4
6	13	5.8	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

54 071 ... PG CX		54 071 ... PG CX		54 071 ... PG CX		54 071 ... PG CX	
Code	EUR	EUR	EUR	EUR	EUR	EUR	EUR
03100	46,80	10,35	03200	47,61	10,35		
04100	46,80	10,35	04200	47,61	10,35	03400	27,08 16,10
05100	46,80	10,35	05200	47,61	10,35	04400	27,08 16,10
06100	46,80	10,35	06300	23,27	12,65	05400	31,48 17,25
08100	22,76	16,10	06200	47,61	12,65	06400	35,16 19,55
10100	30,27	19,55	08300	30,05	16,10	08400	44,62 25,30
12100	42,56	29,90	10300	39,40	21,85	10400	62,12 35,65
16100	74,40	51,75	12300	62,65	35,65	12400	76,58 43,70
20100	111,00	78,20	14300	95,42	49,45	16400	144,58 82,80
			16300	96,64	55,20	20400	198,38 113,85
			18300	129,20	73,60		
			20300	145,98	82,80		

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

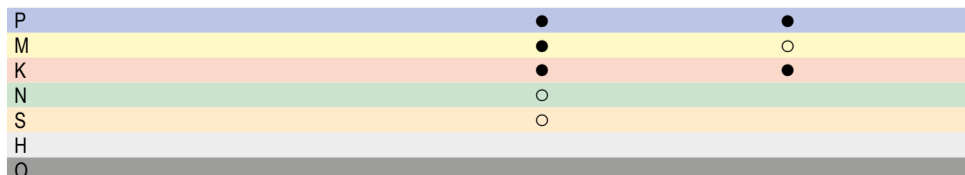


End milling cutter with corner radius

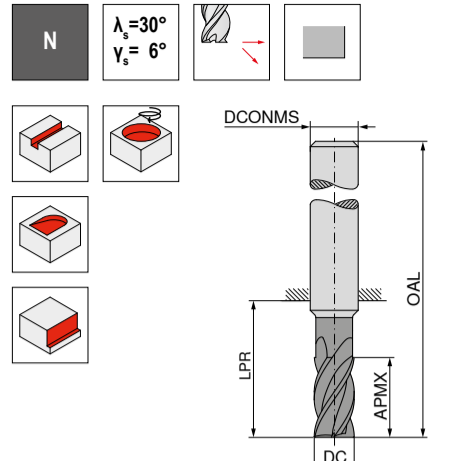


Corner radius

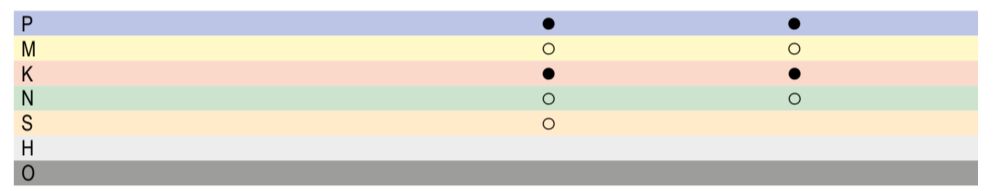
DC _{H10}	RE	APMX	DN	LH	LPR	OAL	DCONMS _{H6}	ZEPF	54 072 ...	PG CX	
mm	±0.05 mm	mm	mm	mm	mm	mm	mm		EUR	EUR	
3	0,1	8	2,8	13	21	57	6	4	03201	25,94	13,80
3	0,3	8	2,8	13	21	57	6	4	03203	25,94	13,80
3	0,5	8	2,8	13	21	57	6	4	03205	25,94	13,80
3	1,0	8	2,8	13	21	57	6	4	03210	25,94	13,80
3	0,5	8	2,8	15	22	69	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	25,94	13,80
4	0,3	11	3,8	17	21	57	6	4	04203	25,94	13,80
4	0,5	11	3,8	17	21	57	6	4	04205	25,94	13,80
4	1,0	11	3,8	17	21	57	6	4	04210	25,94	13,80
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	25,94	13,80
5	0,1	13	4,8	19	21	57	6	4	05201	25,94	13,80
5	0,3	13	4,8	19	21	57	6	4	05203	25,94	13,80
5	1,0	13	4,8	19	21	57	6	4	05210	25,94	13,80
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	28,65	16,10
6	0,1	13	5,8	19	21	57	6	4	06201	28,65	16,10
6	0,5	13	5,8	19	21	57	6	4	06205	28,65	16,10
6	1,0	13	5,8	19	21	57	6	4	06210	28,65	16,10
6	1,5	13	5,8	19	21	57	6	4	06215	28,65	16,10
6	2,0	13	5,8	19	21	57	6	4	06220	28,65	16,10
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	37,59	20,70
8	0,3	21	7,7	25	27	63	8	4	08203	37,59	20,70
8	0,5	21	7,7	25	27	63	8	4	08205	37,59	20,70
8	1,0	21	7,7	25	27	63	8	4	08210	37,59	20,70
8	1,5	21	7,7	25	27	63	8	4	08215	37,59	20,70
8	2,0	21	7,7	25	27	63	8	4	08220	37,59	20,70
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	47,43	26,45
10	0,1	22	9,7	30	32	72	10	4	10201	47,43	26,45
10	0,3	22	9,7	30	32	72	10	4	10203	47,43	26,45
10	0,5	22	9,7	30	32	72	10	4	10205	47,43	26,45
10	1,5	22	9,7	30	32	72	10	4	10215	47,43	26,45
10	2,0	22	9,7	30	32	72	10	4	10220	47,43	26,45
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	73,39	41,40
12	0,1	26	11,6	36	38	83	12	4	12201	73,39	41,40
12	0,3	26	11,6	36	38	83	12	4	12203	73,39	41,40
12	1,0	26	11,6	36	38	83	12	4	12210	73,39	41,40
12	1,5	26	11,6	36	38	83	12	4	12215	73,39	41,40
12	2,0	26	11,6	36	38	83	12	4	12220	73,39	41,40
12	3,0	26	11,6	36	38	83	12	4	12230	73,39	41,40
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	110,89	64,40
16	0,1	36	15,5	42	44	92	16	4	16201	110,89	64,40
16	0,5	36	15,5	42	44	92	16	4	16205	110,89	64,40
16	1,0	36	15,5	42	44	92	16	4	16210	110,89	64,40
16	1,5	36	15,5	42	44	92	16	4	16215	110,89	64,40
16	2,0	36	15,5	42	44	92	16	4	16220	110,89	64,40
16	3,0	36	15,5	42	44	92	16	4	16230	110,89	64,40
16	4,0	36	15,5	42	44	92	16	4	16240	110,89	64,40
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	161,89	92,00
20	0,3	41	19,5	52	54	104	20	4	20203	161,89	92,00
20	0,5	41	19,5	52	54	104	20	4	20205	161,89	92,00
20	1,0	41	19,5	52	54	104	20	4	20210	161,89	92,00
20	1,5	41	19,5	52	54	104	20	4	20215	161,89	92,00
20	2,0	41	19,5	52	54	104	20	4	20220	161,89	92,00
20	3,0	41	19,5	52	54	104	20	4	20230	161,89	92,00
20	4,0	41	19,5	52	54	104	20	4	20240	161,89	92,00
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			



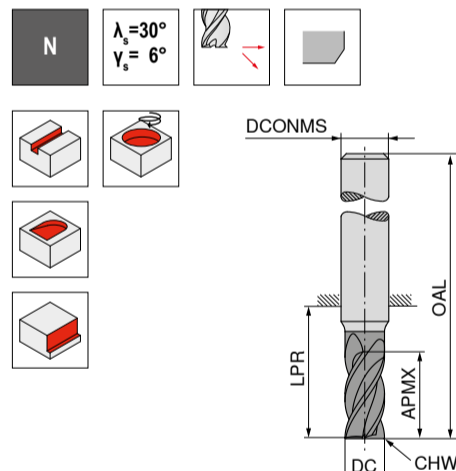
End milling cutter



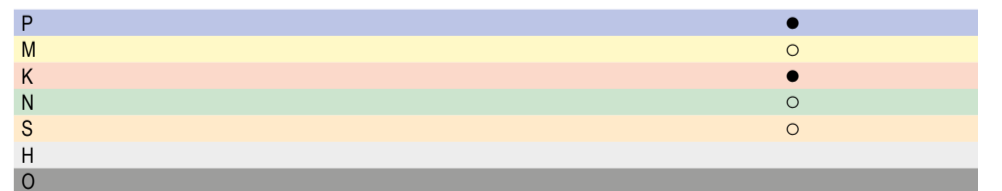
DC _{H10}	APMX	LPR	OAL	DCONMS _{H6}	ZEPF	54 093 ...	PG CX
mm	mm	mm	mm	mm		EUR	EUR
2,0	8	8	32	2,0	4	22000	15,35 11,50
2,5	8	8	32	2,5	4	22500	15,35 11,50
3,0	12	12	32	3,0	4	33000	15,35 11,50
3,0	30	32	60	3,0	4		
3,5	12	12	32	3,5	4	33500	15,35 11,50
4,0	12	12	40	4,0	4	44000	15,35 11,50
4,0	30	47	75	4,0	4		
4,5	14	22	50	4,5	4	44500	15,35 11,50
5,0	14	22	50	5,0	4	55000	15,35 11,50
5,0	35	47	75	5,0	4		
5,5	16	22	50	5,5	4	55500	15,35 11,50
6,0	14	14	50	6,0	4	06000	15,35 11,50
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		



End milling cutter



DC _{H10}	APMX	LPR	OAL	DCONMS _{H6}	CHW	ZEPF	54 095 ...	PG CX
mm	mm	mm	mm	mm	mm		EUR	EUR
2,0	8	8	32	2,0	0,04	4	22000	15,35 11,50
2,5	8	8	32	2,5	0,04	4	22500	15,35 11,50
3,0	12	12	32	3,0	0,07	4	33000	15,35 11,50
3,5	12	12	32	3,5	0,07	4	33500	15,35 11,50
4,0	12	12	40	4,0	0,07	4	44000	15,35 11,50
4,5	14	22	50	4,5	0,07	4	44500	15,35 11,50
5,0	14	22	50	5,0	0,12	4	55000	15,35 11,50
5,5	16	22	50	5,5	0,12	4	55500	15,35 11,50
6,0	14	14	50	6,0	0,12	4	06000	15,35 11,50

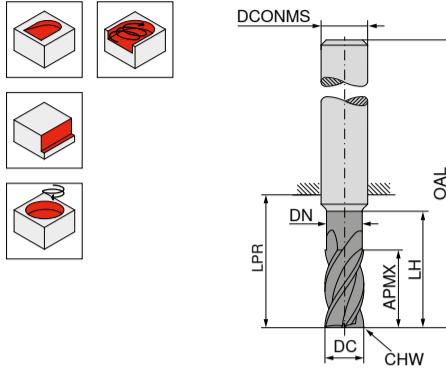
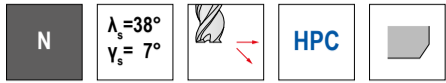


Technical support: 1800 93 22 55
3 time served engineers, available from 8:00 am to 6:00 pm, Monday to Friday
Email: techsupport.uk@ceratizit.com

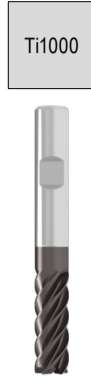
End milling cutter

Optimised for trochoidal machining

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



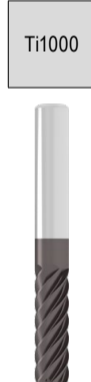
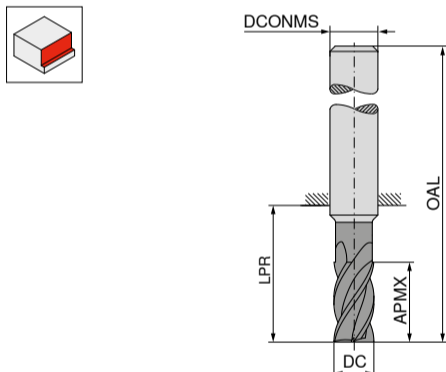
Modern Milling Strategies



DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP	54 098 ... PG CX	
mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
6	18	5,8	24	26	62	6	0,1	5	44,46	36,80
8	24	7,7	30	32	68	8	0,2	5	58,22	48,30
10	30	9,7	38	40	80	10	0,2	5	76,24	62,10
12	36	11,6	46	48	93	12	0,3	5	99,87	73,60
16	48	15,5	58	60	108	16	0,3	5	159,89	132,25
20	60	19,5	74	76	126	20	0,3	5	245,69	203,55

P	●
M	○
K	●
N	○
S	○
H	○
O	○

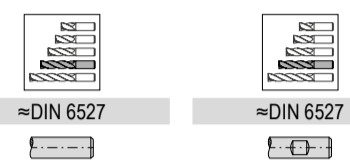
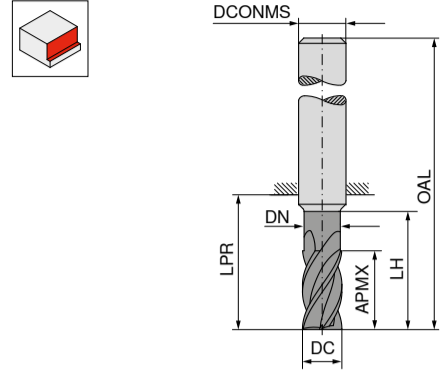
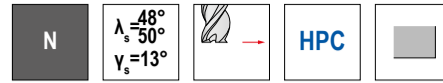
Finish milling cutter



DC _{h10}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP	54 099 ... PG CX	
mm	mm	mm	mm	mm		EUR	EUR
4	16	26	62	6	6	33,87	27,60
5	18	26	62	6	6	33,87	27,60
6	18	26	62	6	6	33,87	27,60
8	24	32	68	8	6	42,34	34,50
10	30	40	80	10	6	58,22	48,30
12	36	48	93	12	6	74,98	59,80
16	48	60	108	16	6	142,99	118,45
20	60	76	126	20	8	199,59	157,55

P	●
M	○
K	●
N	○
S	○
H	○
O	○

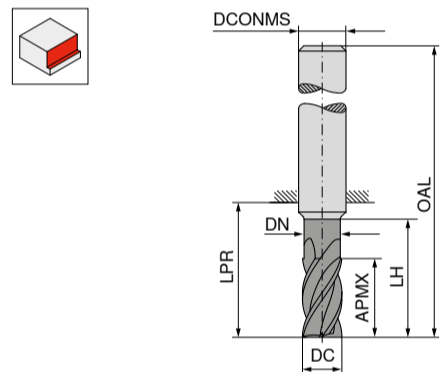
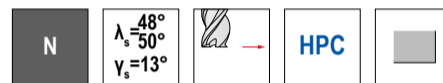
Finish milling cutter



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		EUR	EUR	EUR	EUR		
6	13	5,6	19	21	57	6	6	06200	28,94	16,10	06200	28,94	16,10
8	19	7,6	25	27	63	8	6	08200	37,39	20,70	08200	37,39	20,70
10	22	9,6	30	32	72	10	6	10200	49,25	27,60	10200	49,25	27,60
12	26	11,5	36	38	83	12	6	12200	78,13	44,85	12200	78,13	44,85
16	32	15,0	42	44	92	16	6	16200	129,46	69,00	16200	129,46	69,00
20	38	19,0	52	54	104	20	6	20200	192,39	105,80	20200	192,39	105,80

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		EUR	EUR	EUR	EUR		
6	15	5,6	42	44	80	6	6	06400	43,93	25,30	06400	43,93	25,30
8	20	7,6	62	64	100	8	6	08400	55,77	32,20	08400	55,77	32,20
10	25	9,6	58	60	100	10	6	10400	77,66	43,70	10400	77,66	43,70
12	30	11,5	73	75	120	12	6	12400	96,73	54,05	12400	96,73	54,05
16	40	15,0	100	102	150	16	6	16400	199,79	104,65	16400	199,79	104,65
20	50	19,0	98	100	150	20	6	20400	247,99	143,75	20400	247,99	143,75

P	●
M	●
K	○
N	○
S	○
H	○
O	○

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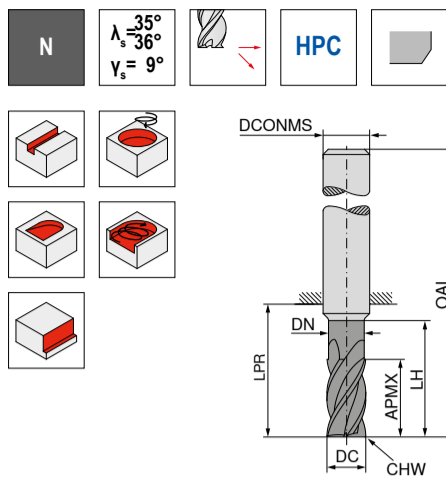


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End milling cutter

▲ Cutting depth: 3 x DC

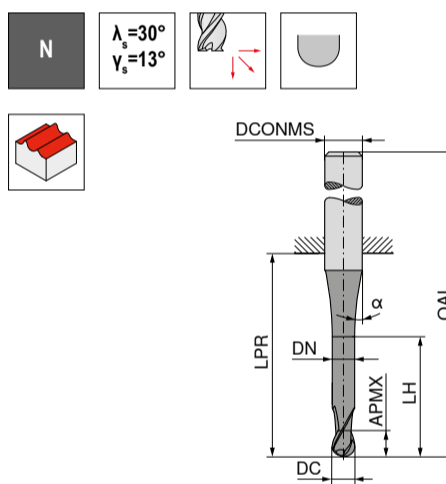


DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS ₁₆ mm	CHW mm	ZEPF	54 078 ...	PG	CX
6	19	5,8	24	26	62	6	0,1	4	06200	29,84	23,00
8	25	7,7	30	32	68	8	0,2	4	08200	38,56	29,90
10	31	9,7	38	40	80	10	0,2	4	10200	50,53	39,10
12	37	11,6	46	48	93	12	0,2	4	12200	66,32	62,10
16	49	15,5	58	60	108	16	0,3	4	16200	124,00	96,60
20	61	19,5	74	76	126	20	0,3	4	20200	167,00	144,90

P	•
M	•
K	•
N	•
S	•
H	•
O	•

Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm

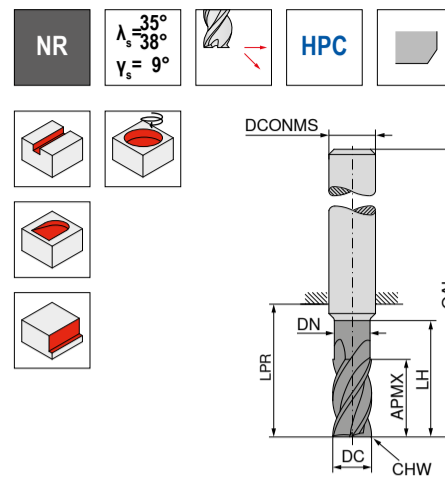


DC ₁₁₀ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS ₁₆ mm	α°	ZEPF	54 073 ...	PG	CX
3	5	2,9	9	14	50	6	15	2	03115	23,00	12,65
4	8	3,9	12	18	54	6	45	2	04120	23,00	12,65
5	9	4,9	15	18	54	6	45	2	05125	23,00	12,65
6	10	5,9	17	18	54	6	45	2	06130	24,03	13,80
8	12	7,8	20	22	58	8	45	2	08140	32,74	18,40
10	14	9,8	26	26	66	10	45	2	10150	40,02	23,00
12	16	11,8	28	28	73	12	45	2	12160	50,74	33,35
16	22	15,7	32	34	82	16	45	2	16180	97,55	56,35
20	26	19,7	40	42	92	20	45	2	20110	139,30	80,50

P	•
M	•
K	•
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H	•
O	•

Rough milling cutter

▲ With roughing profile

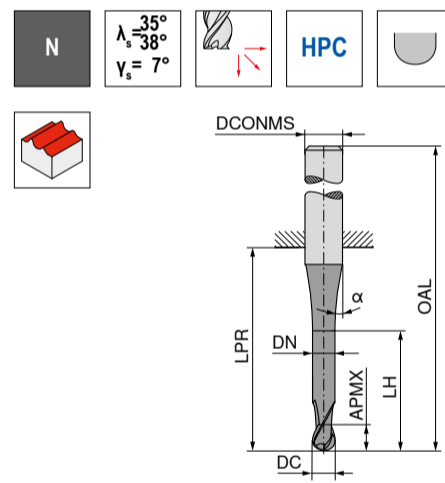


DC ₁₁₁ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS ₁₆ mm	CHW mm	ZEPF	54 077 ...	PG	CX
3	8	2,8	13	21	57	6	0,1	4	00300	28,34	16,10
4	11	3,8	17	21	57	6	0,1	4	00400	28,34	16,10
5	13	4,8	19	21	57	6	0,1	4	00500	28,34	16,10
6	13	5,8	19	21	57	6	0,1	4	00600	33,03	19,55
8	21	7,7	25	27	63	8	0,2	4	00800	42,43	24,15
10	22	9,7	30	32	72	10	0,2	4	01000	54,07	29,90
12	26	11,6	36	38	83	12	0,3	4	01200	67,09	50,60
16	36	15,5	42	44	92	16	0,3	4	01600	102,10	75,90
20	41	19,5	52	54	104	20	0,3	4	02000	136,70	112,70

P	•
M	•
K	•
N	•
S	•
H	•
O	•

Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm



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	23,00	12,65
3	8	2,8	13	21	57	6	30	4	04120	23,00	12,65
4	11			21	57	6	30	4	05125	23,00	12,65
4	11	3,8	17	21	57	6	30	4	06130	24,03	13,80
5	13			21	57	6	30	4	08140	32,74	18,40
5	13	4,8	19	21	57	6	30	4	10150	40,02	23,00
6	13			21	57	6	30	4	12160	50,74	33,35
6	13	5,8	19	21	57	6	30	4	16180	97,55	56,35
8	19			36	72	8	30	4	20110	139,30	80,50
8	19	7,7	25	36	72	8	30	4	03215	23,00	12,65
10	22			32	72	10	30	4	04220	23,00	12,65
10	22	9,7	30	32	72	10	30	4	05225	23,00	12,65
12	26			38	83	12	30	4	06430	27,08	16,10
12	26	11,6	36	38	83	12	30	4	08440	34,64	19,55
16	32			44	92	16	30	4	10450	43,85	25,30
16	32	15,5	42	44	92	16	30	4	12460	60,30	40,25
20	38			54	104	20	30	4	16480	102,10	58,65
20	38	19,5	52	54	104	20	30	4	20410	140,30	85,10

P	•
M	•
K	•
N	•
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H	•
O	•



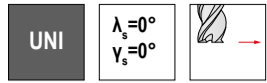
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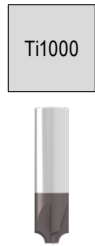
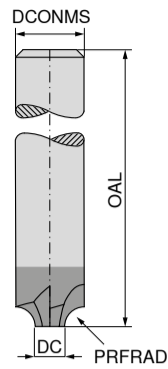


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Quarter-round profile milling cutter, concave



Standard

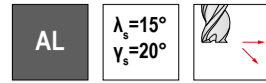


Factory standard

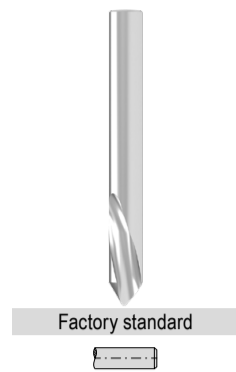
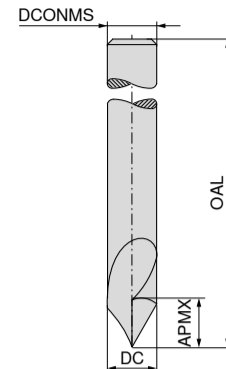
PRFRAD +0.02 mm	DC mm	OAL mm	APMX mm	DCONMS _{h6} mm	ZFP	52 247 ... PG CX	EUR	EUR
0,50	7,0	70	0,50	8	4	00500	80,00	73,60
1,00	6,0	70	1,00	8	4	01000	80,00	73,60
1,25	7,5	75	1,25	10	4	01200	85,00	78,20
1,50	7,0	75	1,50	10	4	01500	85,00	78,20
2,00	6,0	75	2,00	10	4	02000	85,00	78,20
2,50	7,0	73	2,50	12	4	02500	95,47	88,55
3,00	6,0	73	3,00	12	4	03000	95,47	88,55
3,50	9,0	80	3,50	16	4	03500	120,20	111,55
4,00	8,0	80	4,00	16	4	04000	120,20	111,55
4,50	7,0	80	4,50	16	4	04500	120,20	111,55
5,00	10,0	80	5,00	20	4	05000	170,00	157,55
6,00	8,0	80	6,00	20	4	06000	170,00	157,55

P	●
M	●
K	●
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H	
O	

Engraving cutter 60°



Standard



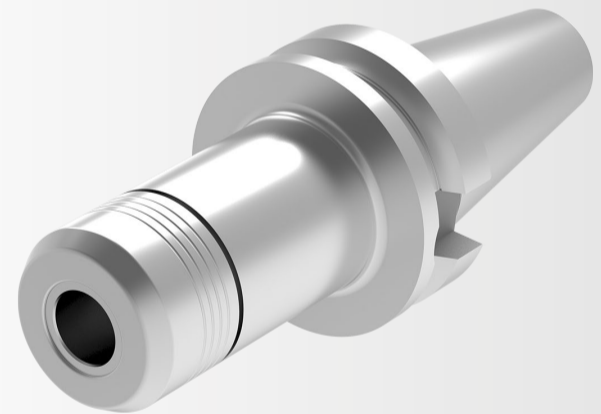
Factory standard

DC _{h6} mm	APMX mm	OAL mm	DCONMS _{h6} mm	ZFP	52 196 ... PG CX	EUR	EUR
3	2,6	50	3	1	03000	36,74	33,35
4	3,5	50	4	1	04000	39,08	35,65
6	5,2	54	6	1	06000	42,06	37,95

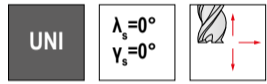
P	○
M	○
K	○
N	●
S	○
H	
O	●



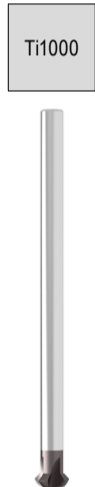
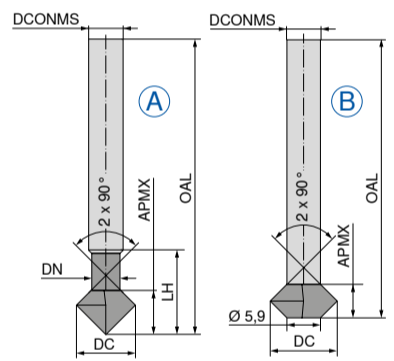
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NC front and rear chamfer milling cutter



Standard



Factory standard

DC _{+0,09} -0,1 mm	APMX mm	DN mm	LH mm	OAL mm	DCONMS _{h6} mm	ZFP	Fig.	52 189 ... PG CX	EUR	EUR
3	2,00	2,2	12,0	75	4	4	A	03000	61,32	56,35
4	2,65	2,9	17,7	75	4	4	A	04000	62,44	57,50
5	3,05	3,9	18,0	75	5	4	A	05000	63,64	58,65
6	4,05	3,9	19,0	100	6	4	A	06000	76,08	70,15
8	2,25			100	6	4	B	08000	98,67	90,85
10	4,25			100	6	4	B	10000	123,00	113,85
12	6,25			100	6	4	B	12000	146,40	135,70

P	●
M	●
K	●
N	○
S	○
H	
O	



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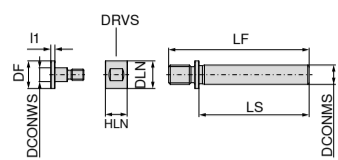
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Cylindrical shank adapter for circular saw blades

▲ DCONWS = circular saw blade bore diameter

Standard

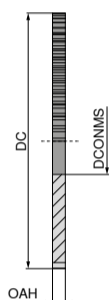
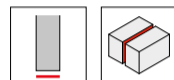


DCONWS _{H7}	DCONMS _{H7}	DLN	DF	LF	LS	HLN	I ₁	DRVS
mm	mm	mm	mm	mm	mm	mm	mm	mm
5	10	10	10	61	50	8	3	9
5	7	10	10	51	40	8	3	9
8	10	15	15	61	50	8	3	14
8	7	15	15	51	40	8	3	14
10	10	17	17	63	50	10	3	16
10	7	17	17	53	40	10	3	16
10	16	17	17	74	55	10	3	16
13	16	20	20	77	55	10	3	18
13	10	20	20	66	50	10	3	18
16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

72 900 ...	PG TO	EUR	EUR
105		175.00	32.20
005		175.00	32.20
108		180.00	35.65
008		175.00	32.20
110		180.00	35.65
010		175.00	32.20
210		202.00	37.95
213		202.00	37.95
113		180.00	35.65
216		202.00	37.95
116		180.00	35.65

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

▲ fine-straight-cut



Standard

DC _{js15}	OAH _{±0.01}	DCONMS _{H6}	ZEFP	DIN 1837 A	54 700 ...	PG SM	EUR	EUR
mm	mm	mm	mm					
15	1.10	5	40		113		38.87	14.95
15	0.20	5	64		102		29.42	10.35
15	0.25	5	64		103		29.42	10.35
15	0.30	5	64		104		29.42	10.35
15	0.40	5	64		106		29.42	10.35
15	0.50	5	48		107		29.42	10.35
15	0.60	5	48		108		29.42	10.35
15	0.70	5	48		109		35.88	12.65
15	0.80	5	40		110		35.88	12.65
15	0.90	5	40		111		35.88	13.80
15	1.00	5	40		112		37.30	13.80
15	1.20	5	40		114		38.87	14.95
15	1.30	5	40		115		38.87	14.95
15	1.40	5	40		116		38.87	14.95
15	1.50	5	40		117		42.27	16.10
15	1.60	5	40		118		45.39	17.25
15	1.70	5	40		119		48.24	19.55
15	1.80	5	40		120		48.24	19.55
15	2.00	5	40		122		51.80	19.55
15	2.50	5	40		123		71.60	27.60
15	3.00	5	40		124		81.14	31.05
20	1.10	5	40		163		45.39	17.25
20	0.20	5	80		152		31.90	12.65
20	0.25	5	64		153		31.90	12.65
20	0.30	5	64		154		31.90	12.65
20	0.35	5	64		155		31.90	12.65
20	0.40	5	64		156		31.90	12.65
20	0.50	5	48		157		31.90	12.65
20	0.60	5	48		158		31.90	12.65
20	0.70	5	48		159		37.30	13.80
20	0.80	5	48		160		37.30	13.80
20	0.90	5	40		161		38.87	14.95
20	1.00	5	40		162		42.27	16.10
20	1.20	5	40		164		45.39	17.25
20	1.30	5	40		165		47.83	17.25
20	1.40	5	40		166		51.80	19.55
20	1.50	5	40		167		51.80	19.55
20	1.60	5	40		168		54.39	20.70
20	1.70	5	40		169		57.30	21.85
20	1.80	5	32		170		57.30	21.85
20	2.00	5	32		172		60.81	23.00
20	2.50	5	32		173		75.76	28.75
20	3.00	5	32		174		86.30	33.35
20	3.50	5	24		175		97.87	36.80
20	4.00	5	24		176		115.50	44.85
25	1.20	8	48		214		56.63	21.85
25	0.20	8	80		202		31.46	11.50
25	0.25	8	80		203		31.46	11.50
25	0.30	8	80		204		31.46	11.50
25	0.40	8	64		206		31.46	11.50
25	0.50	8	64		207		36.63	13.80
25	0.60	8	64		208		36.63	13.80
25	0.70	8	48		209		40.68	14.95
25	0.80	8	48		210		45.39	17.25
25	0.90	8	48		211		48.24	19.55
25	1.00	8	48		212		48.24	19.55
25	1.30	8	40		215		50.00	21.85
25	1.40	8	40		216		51.58	23.00
25	1.50	8	40		217		51.58	23.00
25	1.60	8	40		218		57.84	26.45
25	1.70	8	40		219		57.84	26.45
25	1.80	8	40		220		70.57	26.45
25	2.00	8	40		222		77.75	29.90
25	2.50	8	40		223		94.37	35.65
25	3.00	8	32		224		122.80	47.15
30	1.70	8	48		269		81.56	31.05
30	0.20	8	100		252		40.68	14.95
30	0.25	8	100		253		40.68	14.95
30	0.30	8	80		254		48.68	14.95
30	0.35	8	80		255		48.68	14.95
30	0.40	8	80		256		48.68	14.95
30	0.50	8	80		257		42.70	16.10
30	0.60	8	64		258		42.70	16.10
30	0.70	8	64		259		51.78	19.55
30	0.80	8	64		260		56.63	21.85
30	0.90	8	64		261		61.58	23.00
30	1.00	8	64		262		61.58	23.00
30	1.10	8	64		263		68.24	26.45

DC _{js15}	OAH _{±0.01}	DCONMS _{H6}	ZEFP
mm	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

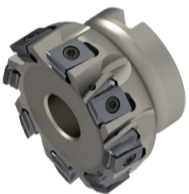
54 700 ...	PG SM	EUR	EUR
264		68.11	26.45
265		70.37	26.45
266		76.63	28.75
267		76.63	28.75
268		81.56	31.05
270		83.82	32.20
271		86.30	33.35
272		91.67	34.50
273		107.68	41.40
274		108.18	49.45
275		145.40	55.20
276		163.20	63.25
278		188.20	77.05
280		233.68	90.85
316		52.82	31.05
302		49.86	19.55
303		40.86	19.55
304		40.86	19.55
306		52.82	20.70
307		57.84	21.85
308		57.84	21.85
309		65.88	25.30
310		68.53	26.45
311		68.53	26.45
312		70.79	26.45
313		73.04	27.60

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.



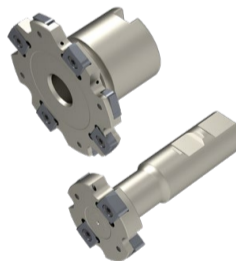
MaxiMill 251 – first choice indexable button milling system.



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.

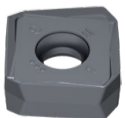


MaxiMill Slot-SNHX – Robust side and face milling/underside milling cutter with maximum process security for slot milling 6-16mm

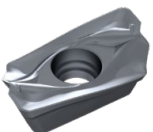


MaxiMill 242 – first choice chamfer milling system.

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.

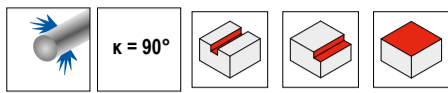


CTC5240 – first choice for titanium and heat resistant super alloys.

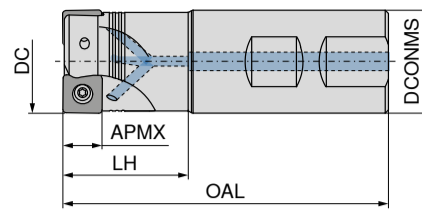


M1 – first choice chipbreaker for parting off.

MaxiMill – 491-09 End milling cutter



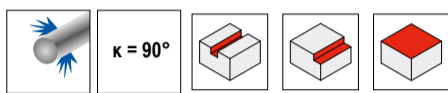
Performance



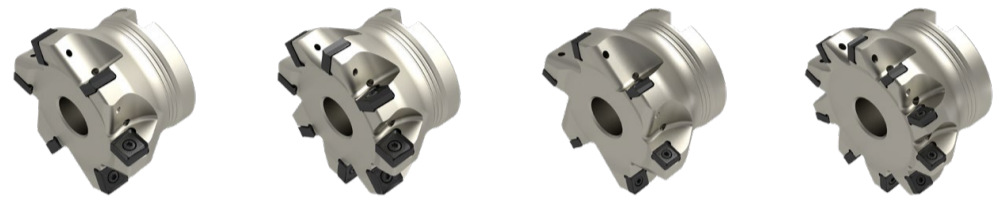
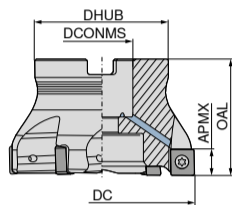
Designation	DC mm	OAL mm	LH mm	DCONMS _{ns} mm	APMX mm	Insert	ZNF
C491.25.R.03-09-B-32	25	89	32	25	6	SNHU 09T3	3
C491.25.R.03-09-A-50-225	25	225	50	25	6	SNHU 09T3	3
C491.32.R.03-09-B-40	32	101	40	32	6	SNHU 09T3	3
C491.32.R.04-09-B-40	32	101	40	32	6	SNHU 09T3	4
C491.32.R.03-09-A-63-250	32	250	63	32	6	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
	EUR	EUR		EUR	EUR
325	507,40	73,60	425	507,40	73,60
532	522,10	75,90	632	522,10	75,90
332	566,00	82,80	432	566,00	82,80

MaxiMill – 491-09 / -12 Shell mill



Performance

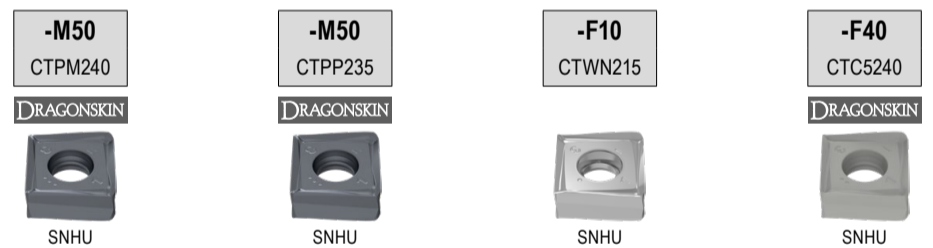


Designation	DC mm	OAL mm	DHUB mm	DCONMS mm	APMX mm	RPMX 1/min.	torque moment Nm	Insert	ZNF
A491.40.R.03-09	40	40	38	16	6	16800	2	SNHU 09T3	3
A491.40.R.05-09	40	40	38	16	6	16800	2	SNHU 09T3	5
A491.50.R.04-09	50	40	43	22	6	14600	2	SNHU 09T3	4
A491.50.R.06-09	50	40	43	22	6	14600	2	SNHU 09T3	6
A491.63.R.05-09	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
	EUR	EUR		EUR	EUR
240	554,00	80,50			
250	644,70	89,70			
263	734,00	106,95			
280	775,00	113,85			
300	984,60	143,75			
325	1.194,00	174,80			
050	644,70	89,70	050	656,40	95,45
063	734,00	106,95	063	775,00	113,85
080	775,00	113,85	080	895,20	131,10
100	984,60	143,75	100	1.149,00	163,30
125	1.194,00	174,80	125	1.373,00	201,25

SNHU

Performance

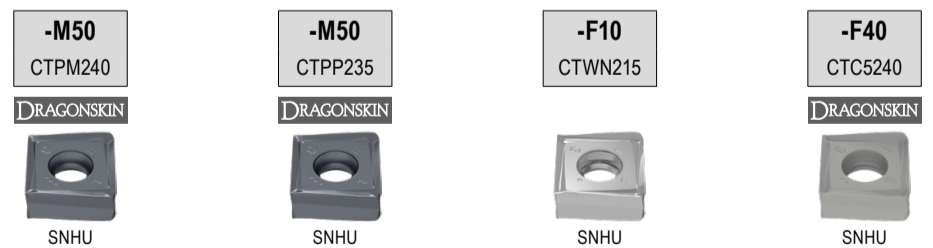


ISO	RE mm
09T308ER	0,8
09T308FR	0,8
09T308SR	0,8
09T312FR	1,2
09T312SR	1,2
09T316FR	1,6
09T316SR	1,6

51 120 ...	PG	IM	51 120 ...	PG	IM
	EUR	EUR		EUR	EUR
408	28,43	16,10	108	28,43	16,10
41200	28,43	16,10	11200	28,43	16,10
41600	28,43	16,10	11600	28,43	16,10

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
	EUR	EUR		EUR	EUR
408	34,74	19,55	108	34,74	19,55
			112	34,74	19,55
			116	34,74	19,55
			120	34,74	19,55



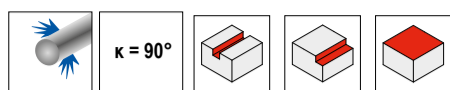
Technical support: 1800 93 22 55

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

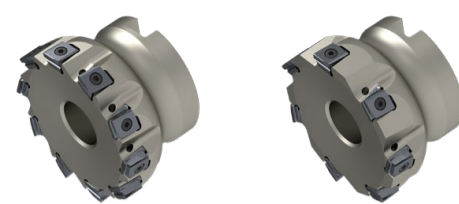
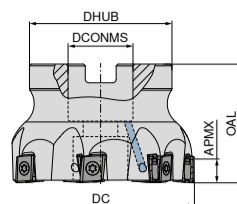


Order by 6:00 pm and get your guaranteed free express delivery

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	
										EUR	EUR	EUR	EUR
ATANG.40.R.04-09-A16	40	4	8	40	38	16	31300	2,2	LN.U 0904			04004	510,00 75,90
ATANG.40.R.06-09-A16	40	6	8	40	38	16	31300	2,2	LN.U 0904		96,60	05005	562,50 83,95
ATANG.50.R.05-09-A22	50	5	8	40	43	22	28000	2,2	LN.U 0904			06307	664,00 98,90
ATANG.50.R.07-09-A22	50	7	8	40	43	22	28000	2,2	LN.U 0904		104,65	08008	767,30 115,00
ATANG.63.R.07-09-A22	63	7	8	40	48	22	25000	2,2	LN.U 0904			08011	1.000,00 164,45
ATANG.63.R.10-09-A22	63	10	8	40	48	22	25000	2,2	LN.U 0904		133,40		
ATANG.80.R.08-09-A27	80	8	8	50	58	27	21000	2,2	LN.U 0904				
ATANG.80.R.11-09-A27	80	11	8	50	58	27	21000	2,2	LN.U 0904				

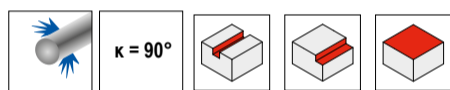
LNHU

Performance

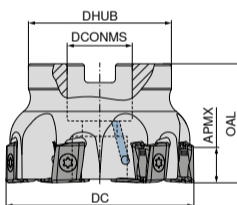


ISO	51 257 ... PG IM		51 257 ... PG IM		51 257 ... PG IM		51 257 ... PG IM		51 257 ... PG IM		51 257 ... PG IM		51 258 ... PG MA	
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
090404	00400	21,48 12,65	10400	21,48 12,65	40400	21,48 12,65	40401	29,70 17,25	50400	21,48 12,65	60400	21,48 12,65	10401	29,70 17,25
P	●		●		○		●		●		●		●	
M														
K	○		○		●		●		●		●		●	
N														
S														
H														
O														

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	
										EUR	EUR	EUR	EUR
ATANG.40.R.04-13-A16	40	4	12	40	38	16	22500	5,0	LN.U 1306			04004	510,00 75,90
ATANG.40.R.05-13-A16	40	5	12	40	38	16	22500	5,0	LN.U 1306		89,70	05005	562,50 83,95
ATANG.40.R.05-13-A22	40	5	12	40	38	22	22500	5,0	LN.U 1306			06306	664,00 98,90
ATANG.50.R.05-13-A22	50	5	12	40	43	22	20200	5,0	LN.U 1306			08007	767,30 115,00
ATANG.50.R.06-13-A22	50	6	12	40	43	22	20200	5,0	LN.U 1306			08010	1.000,00 154,10
ATANG.50.R.06-13-A27	50	6	12	45	48	27	20200	5,0	LN.U 1306			10013	1.249,00 187,45
ATANG.63.R.06-13-A22	63	6	12	40	48	22	18000	5,0	LN.U 1306			12511	1.000,00 163,30
ATANG.63.R.08-13-A22	63	8	12	40	48	22	18000	5,0	LN.U 1306				
ATANG.80.R.07-13-A27	80	7	12	50	58	27	15900	5,0	LN.U 1306				
ATANG.80.R.10-13-A27	80	10	12	50	58	27	15900	5,0	LN.U 1306				
ATANG.100.R.09-13-A32	100	9	12	50	78	32	14200	5	LN.U 1306				
ATANG.100.R.13-13-A32	100	13	12	50	78	32	14200	5,0	LN.U 1306				
ATANG.125.R.11-13-A40	125	11	12	63	88	40	12700	5,0	LN.U 1306				
ATANG.125.R.16-13-A40	125	16	12	63	88	40	12700	5,0	LN.U 1306				

LNHU

Performance

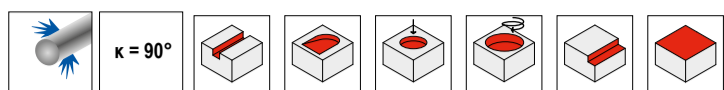


ISO	51 255 ... PG IM		51 255 ... PG IM		51 256 ... PG IM		51 256 ... PG IM		51 255 ... PG IM		51 255 ... PG IM		51 256 ... PG MA	
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
130608	00800	26,21 14,95	10800	26,21 14,95	40800	26,21 14,95	40801	35,60 20,70	50800	26,21 14,95	60800	26,21 14,95	10801	35,60 20,70
P	●		●		○		●		●		●		●	
M														
K	○		○		●		●		●		●		●	
N														
S														
H														
O														

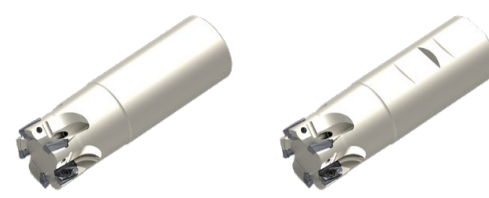
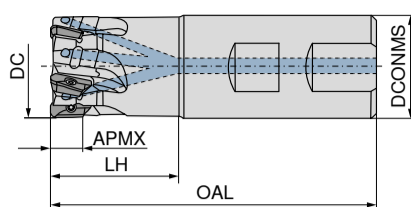


MaxiMill – 211-11 End milling cutter

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



Performance

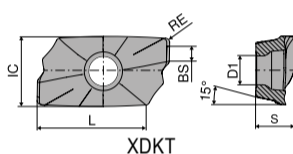


ISO designation	DC mm	OAL mm	LH mm	DCONMS _{ns} mm	APMX mm	RPMX 1/min.	Insert	ZNF
C211.16.R.02-11-A-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-B-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-A15-32-165	16	165	32	15	10	14800	XD.T 11T3	2
C211.16.R.02-11-A-32-165	16	165	32	16	10	14800	XD.T 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
EUR	EUR	EUR	EUR	EUR	EUR
116	327,00	47,15	016	327,00	47,15
316	327,00	47,15	216	327,00	47,15
120	372,40	54,05	020	372,40	54,05
12002	345,70	50,60	320	345,70	50,60
620	345,70	50,60	420	345,70	50,60
625	390,20	56,35	025	416,00	60,95
125	416,00	60,95	325	416,00	60,95
425	390,20	56,35	825	390,20	56,35
02502	360,70	52,90	13204	431,50	63,25
132	461,10	66,70	53204	431,50	63,25
332	461,10	66,70	432	431,50	63,25

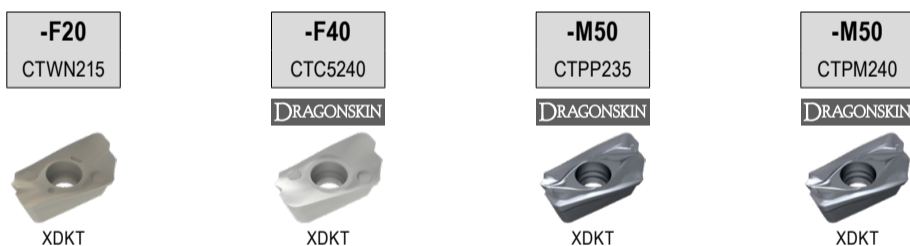
XDKT

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
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
11T302FR	502	18,20	13,80	504	25,55	14,95	104	18,20	10,35	404	18,20	10,35
11T304ER	504	18,20	13,80	500	25,55	14,95	108	18,20	10,35	408	18,20	10,35
11T304FR	508	18,20	13,80	512	25,55	14,95	112	18,20	10,35	412	18,20	10,35
11T304SR	520 ¹⁾	18,20	13,80	516	25,55	14,95	120 ¹⁾	18,20	10,35	420 ¹⁾	18,20	10,35
11T308ER	525 ¹⁾	18,20	13,80	520 ¹⁾	25,55	14,95	125 ¹⁾	18,20	10,35	432 ¹⁾	18,20	10,35
11T308FR				525 ¹⁾	25,55	14,95						
11T308SR				532 ¹⁾	25,55	14,95						
11T312ER				540 ¹⁾	25,55	14,95						
11T312SR												
11T316ER												
11T320ER												
11T320FR												
11T320SR												
11T325ER												
11T325FR												
11T325SR												
11T332ER												
11T332SR												
11T340ER												

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

1) Insert radius >1.6 mm: Modify cutter body



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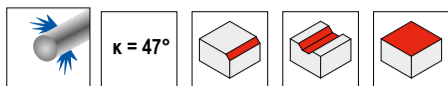
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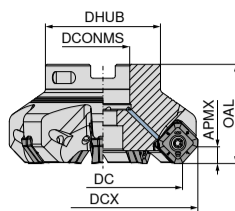
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MaxiMill – 271-12 Face mill

▲ 8 cutting edges per insert



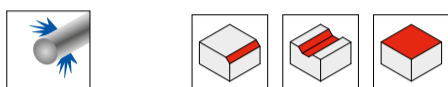
Performance



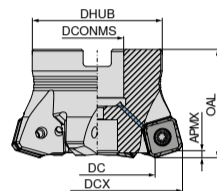
ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
A271.40.R.04-12	40	53	4	6,8	40	38	16	17900	3,2	SOHU 1204.. / XOHU 1204..
A271.50.R.05-12	50	63	5	6,8	40	43	22	15200	3,2	SOHU 1204.. / XOHU 1204..
A271.63.R.07-12	63	76	7	6,8	40	48	22	13100	3,2	SOHU 1204.. / XOHU 1204..
A271.80.R.06-12	80	93	6	6,8	50	58	27	11300	3,2	SOHU 1204.. / XOHU 1204..
A271.80.R.08-12	80	93	8	6,8	50	58	27	11300	3,2	SOHU 1204.. / XOHU 1204..
A271.100.R.07-12	100	113	7	6,8	63	78	32	9900	3,2	SOHU 1204.. / XOHU 1204..
A271.100.R.10-12	100	113	10	6,8	63	78	32	9900	3,2	SOHU 1204.. / XOHU 1204..
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
EUR	EUR	EUR	EUR
04004	579,00 85,10	08006	754,00 110,40
05005	594,50 86,25	10007	956,00 140,30
06307	754,00 110,40	12508	1.160,00 170,20
08008	969,00 127,65		
10010	1.087,00 158,70		
12512	1.334,00 195,50		

MaxiMill – 271-12 HFC Face mill



Performance

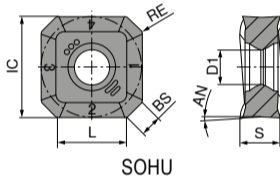


ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
A271.50.R.04-12-HFC	30	50	4	2,6	40	43	22	14600	3,2	SOHU 1204..
A271.63.R.06-12-HFC	43	63	6	2,6	40	48	22	12500	3,2	SOHU 1204..
A271.80.R.07-12-HFC	60	80	7	2,6	50	58	27	10800	3,2	SOHU 1204..

50 788 ...	PG TO
EUR	EUR
05004	594,50 86,25
06306	754,00 110,40
08007	969,00 127,65

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	51 140 ...	PG MA	51 138 ...	PG IM	51 138 ...	PG IM
1204ABSR	0,8	EUR	EUR	EUR	EUR	EUR	EUR
		17000	44,79 26,45	12000	33,38 19,55	42000	33,38 19,55

-F50
CTC5240
DRAGONSKIN

SOHU

-M50
CTPP235
DRAGONSKIN

SOHU

-M50
CTPM240
DRAGONSKIN

SOHU

P

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1
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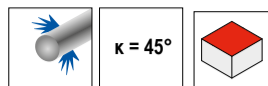
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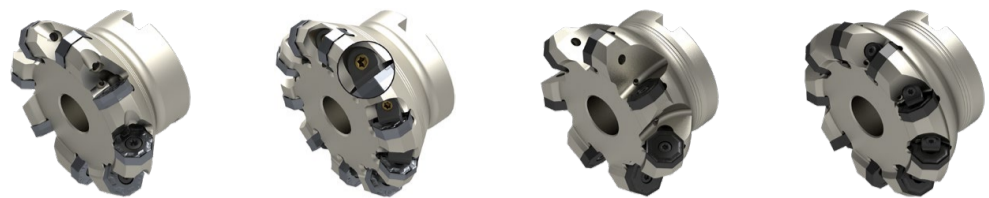
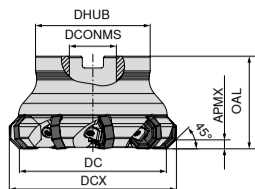
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MaxiMill – 273-06 / -08 Shell mill

▲ 16 cutting edges per insert



Performance

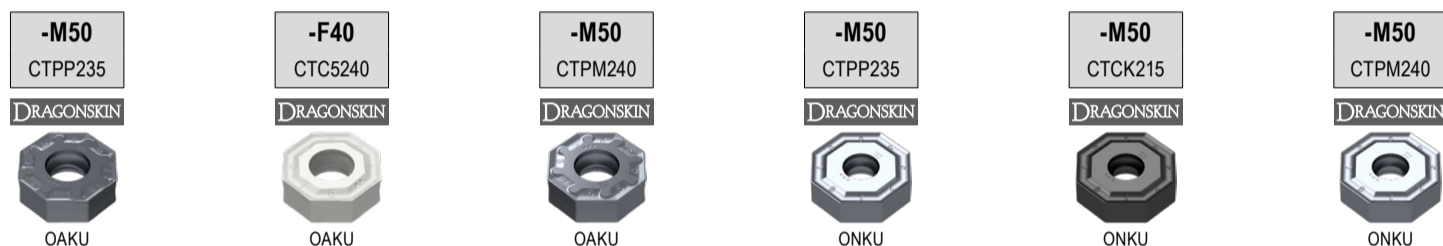


Designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DCONMS mm	DHUB mm	torque moment Nm	Insert	50 741 ... PG TO		50 741 ... PG TO		50 779 ... PG TO		50 779 ... PG TO		
										EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	
A273.40.R.03-06	40	50,2	3	3,5	40	16	38	5	OAKU / XAHT 0605	040	542,60	79,35						
A273.40.R.04-06	40	50,2	4	3,5	40	16	38	5	OAKU / XAHT 0605	140	569,10	82,80						
A273.50.R.05-06	50	60,2	5	3,5	40	22	43	5	OAKU / XAHT 0605	050	638,20	93,15						
A273.63.R.07-06	63	73,2	7	3,5	40	22	48	5	OAKU / XAHT 0605	063	766,40	111,55						
A273.80.R.08-06	80	90,2	8	3,5	50	27	58	5	OAKU / XAHT 0605	080	893,60	131,10						
A273.80.R.10-06	80	90,2	10	3,5	50	27	58	4	OAKU / XAHT 0605	100	1.053,00	154,10	180	1.361,60	198,95			
A273.100.R.10-06	100	110,2	10	3,5	50	32	78	5	OAKU / XAHT 0605	200	1.740,00	255,30	200	1.740,00	255,30			
A273.100.R.14-06	100	110,2	14	3,5	50	32	78	4	OAKU / XAHT 0605	225	2.040,00	295,55	225	2.040,00	295,55			
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				06300	661,60	101,20			
A273.63.R.06-08	63	76,7	6	5,0	50	22	48	5	ONKU 0806							16300 ¹⁾	966,40	147,20
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									

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

OAKU / ONKU

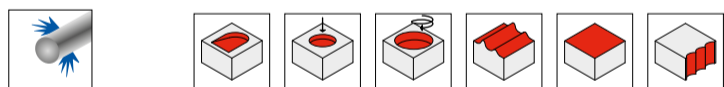
Performance



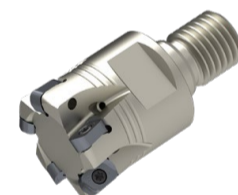
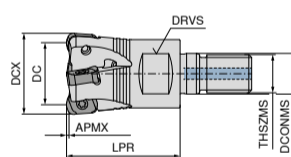
ISO	RE mm	51 001 ... PG IM		50 446 ... PG MA		51 001 ... PG IM		51 163 ... PG IM		51 163 ... PG IM		51 163 ... PG IM	
		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
060508ER	0,8												
060508SR	0,8	108	31,00	18,40	550	43,39	25,30	408	31,00	18,40			
080608SN	0,8							10800	32,48	18,40	50800	32,48	18,40
P		●			○			●			○		
M		○			●			○			●		
K		○						○					
N													
S					●								
H													
O													

MaxiMill – HFCD high-feed screw-in cutter

▲ Programmed radius r3D = 2.0 mm



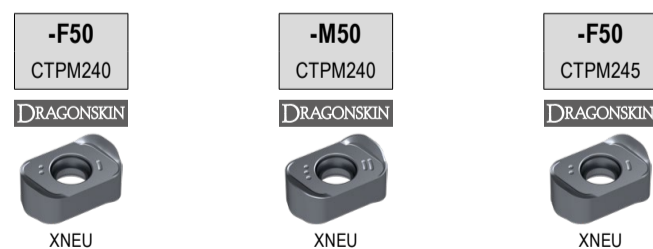
Performance



Designation	DC mm	DCX mm	ZNF	APMX mm	LPR mm	DCONMS mm	THSZMS	DRVS mm	RPMX 1/min.	torque moment Nm	Insert	50 357 ... PG TO		
												EUR	EUR	
GHFCD.16.R.02-06	10	16	2	0,8	27	8,5	M8	10	23500	1,2	XNEU 06T3..	01602	328,50	48,30
GHFCD.20.R.03-06	14	20	3	0,8	33	10,5	M10	15	20200	1,2	XNEU 06T3..	02003	372,40	55,20
GHFCD.25.R.04-06	19	25	4	0,8	35	12,5	M12	17	18100	1,2	XNEU 06T3..	02504	447,40	62,10
GHFCD.32.R.05-06	26	32	5	0,8	35	17,0	M16	24	17300	1,2	XNEU 06T3..	03205	461,30	69,00
GHFCD.35.R.06-06	29	35	6	0,8	35	17,0	M16	24	16100	1,2	XNEU 06T3..	03506	488,30	72,45
GHFCD.42.R.06-06	36	42	6	0,8	35	17,0	M16	24	14100	1,2	XNEU 06T3..	04206	507,40	75,90

XNEU

Performance



ISO	RE mm	51 260 ... PG IM		51 261 ... PG IM		51 260 ... PG IM				
		EUR	EUR	EUR	EUR	EUR	EUR			
06T318SER	1,8	41800	47,93	10,35	41800	47,93	10,35	41801	33,76	13,80
P		○			○			●		
M		●			●			●		
K										
N										
S										
H										
O										

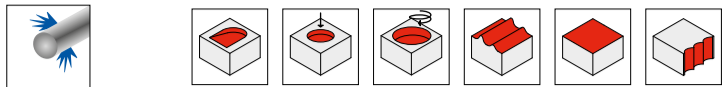


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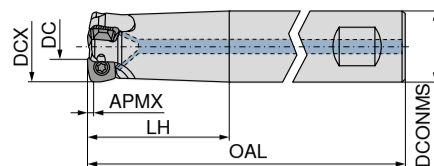


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MaxiMill – HFC high-feed end mill



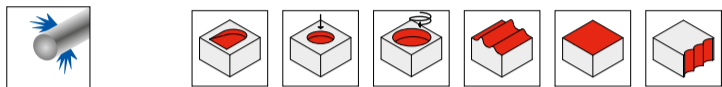
Performance



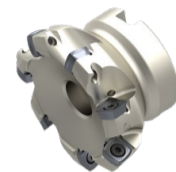
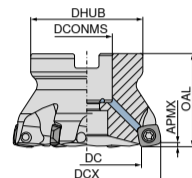
ISO designation	DC	DCX	OAL	LH	DCONMS _{H6}	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	mm	1/min.		
CHFC.16.R.02-06-A-40-200	7,0	16	200	40	16	0,8	4600	XPLX 0603..	2
CHFC.16.R.02-06-B-40	7,0	16	89	40	16	0,8	17300	XPLX 0603..	2
CHFC.20.R.03-06-A-50-225	11,0	20	225	50	20	0,8	4200	XPLX 0603..	3
CHFC.20.R.03-06-B-50	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	EUR	EUR
716		327,90	47,15
720		372,40	54,05
025		392,70	57,50
125		423,90	60,95
132		423,90	59,80
725		446,80	60,95
035		449,40	64,40
032		449,40	64,40
732		461,10	66,70

MaxiMill – HFC high-feed face mill



Performance

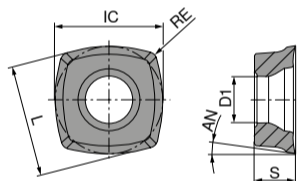


ISO designation	DC	DCX	OAL	DCONMS _{H6}	DHUB	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	mm	1/min.		
AHFC.32.R.03-09	19,3	32	40	16	38	1	27700	XDLX 09T3..	3
AHFC.35.R.04-09	19,3	35	40	16	38	1	26700	XDLX 09T3..	4
AHFC.40.R.04-09	27,3	40	40	16	38	1	26400	XDLX 09T3..	4
AHFC.42.R.05-09	29,3	42	40	16	38	1	26100	XDLX 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	EUR	EUR
032		440,40	64,40
035		469,70	67,85
140		488,40	71,30
142		546,90	74,75
150		571,50	83,95
152		609,20	88,55
163		666,60	96,60
16600		669,90	101,20
040		450,70	66,70
042		488,40	71,30
050		546,90	79,35
052		571,50	83,95
063		609,20	92,00
066		666,60	96,60
080		746,90	109,25
100		839,90	121,90

XPLX

Performance



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



50 518 ...	PG MA	EUR	EUR
558		24,27	12,65



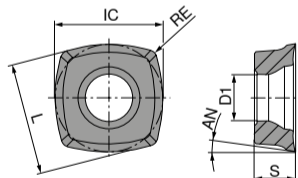
51 019 ...	PG IM	EUR	EUR
105		45,90	9,20



51 019 ...	PG IM	EUR	EUR
405		45,90	9,20

XDLX

Performance



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



50 503 ...	PG MA	EUR	EUR
558		24,70	12,65



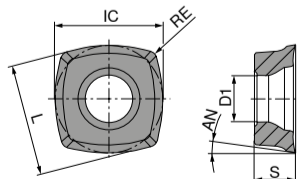
51 016 ...	PG IM	EUR	EUR
108		46,40	9,20



51 016 ...	PG IM	EUR	EUR
408		46,40	9,20

XOHX / XOLX

Performance



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



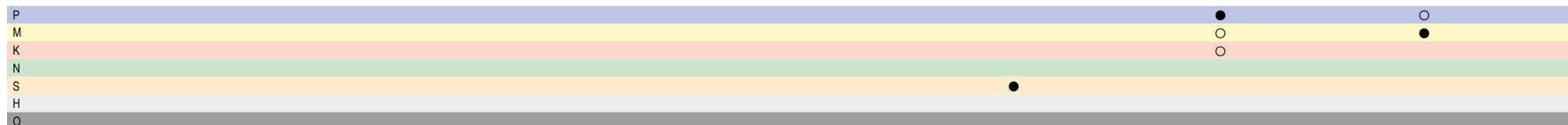
51 124 ...	PG MA	EUR	EUR
16000		32,90	19,55



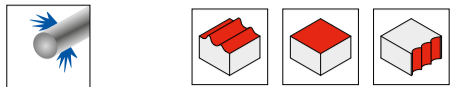
51 017 ...	PG IM	EUR	EUR
110		49,74	11,50



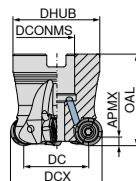
51 017 ...	PG IM	EUR	EUR
410		49,74	11,50



MaxiMill – 252 Shell mill



Performance

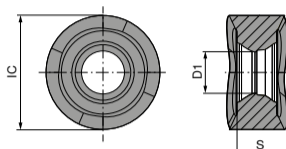


ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS mm	torque moment Nm	Insert
A252.40.R.04-12	28	40	4	3	40	38	16	3,2	RNHU 1205..
A252.50.R.05-12	38	50	5	3	40	43	22	3,2	RNHU 1205..
A252.52.R.05-12	40	52	5	3	40	43	22	3,2	RNHU 1205..
A252.63.R.06-12	51	63	6	3	40	48	22	3,2	RNHU 1205..
A252.66.R.07-12	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	EUR 78,20
250	EUR 94,30
252	EUR 95,45
263	EUR 117,30
266	EUR 123,05
280	EUR 134,55
30000	EUR 161,00
32500	EUR 194,35

RNHU

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



RNHU

Performance



ISO	51 107 ...	PG IM	50 521 ...	PG MA
1205M4ER	EUR 21,85	EUR 23,00	EUR 23,00	EUR 23,00
P				
M				
K				
N				
S				
H				
O				

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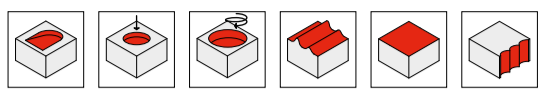


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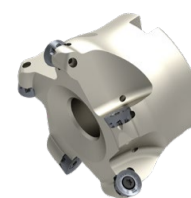
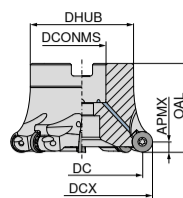


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MaxiMill – 251 RS Shell mill



Performance

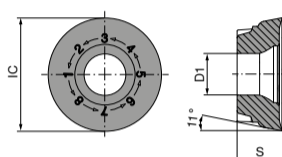


ISO designation	DCX mm	DC mm	OAL mm	APMX mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	Insert	ZNF
A251.40.R.05-10-RS	40	30	40	5	38	16	16000	RP.X 10T3..	5
A251.42.R.06-10-RS	42	32	40	5	38	16	16000	RP.X 10T3..	6
A251.50.R.06-10-RS	50	40	40	5	43	22	12500	RP.X 10T3..	6
A251.52.R.06-10-RS	52	42	40	5	43	22	12500	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	EUR	EUR
140		506,10	73,60
142		501,70	85,10
150		601,00	87,40
152		601,00	87,40
340		465,50	67,85
050		565,00	82,80
052		502,70	86,25
063		607,60	102,35
166		735,40	106,95
080		706,00	115,00
200		1.038,00	151,80

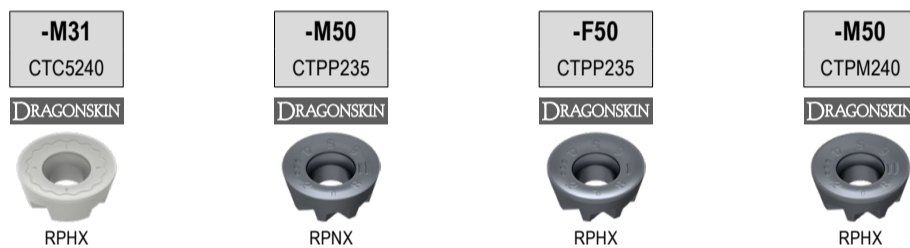
RPHX / RPNX

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	
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
10T3M4EN	550	22,88 13,80						
10T3M8EN	551	22,88 13,80						
10T3M8SN			12000	12,65 6,90	12000	16,61 9,20	420	16,61 9,20
1204M4EN	552	25,21 14,95						
1204M6EN	56200	25,21 14,95						
1204M8EN	582	25,21 14,95						
1204M8SN			125	11,53 8,05	125	10,20 10,35	425	10,20 10,35

P								
M								
K								
N								
S								
H								
O								

1) Insert with 4 indexes

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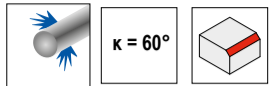
For CNC machine shops, accurately calculating manufacturing times and costs for quoting is more than just a tedious sales task – it's a key driver of profitability and long-term success. But in reality, this process can quickly become complex and time-consuming, especially when responding to urgent customer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

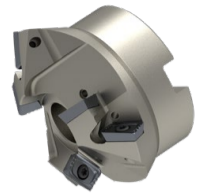
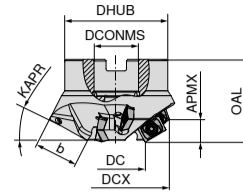


MaxiMill – 242 Chamfer Cutter

- ▲ 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
	EUR EUR
13003	535,00 78,20
14503	535,00 78,20
11503	535,00 78,20
16003	535,00 78,20
17503 ¹⁾	535,00 78,20

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



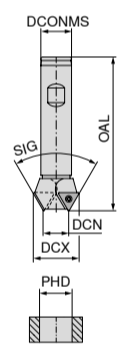
51 157 ...	PG IM
	EUR EUR
00802	20,01 16,10

Indexable chamfer milling 90°

Scope of supply:

Indexable insert countersink including clamping screws

Performance



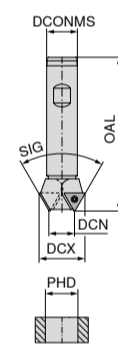
DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 196 ...	PG TO
19	7	9,5	2	16	100	TOHX 090204	19000	307,00 57,50
23	11	12,0	2	16	100	TOHX 090204	23000	311,70 57,50
26	11	12,0	1	16	100	TOHX 090204	26000	311,70 57,50
30	12	13,0	2	20	100	TOHX 140305	30000	320,20 57,50
34	16	17,0	2	20	100	TOHX 140305	34000	334,00 57,50
37	19	20,0	2	20	100	TOHX 140305	37000	334,00 57,50

Indexable chamfer milling 60°

Scope of supply:

Indexable insert countersink including clamping screws

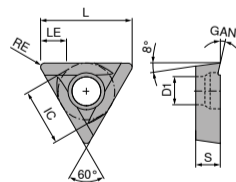
Performance



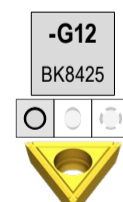
DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 197 ...	PG TO
16,5	8,1	8,5	1	16	100	TOHX 090204	16500	311,00 57,50
20,0	11,6	12,0	2	16	100	TOHX 090204	20000	314,70 57,50
22,0	13,6	14,0	2	16	100	TOHX 090204	22000	320,20 57,50
23,5	15,1	15,5	2	16	100	TOHX 090204	23500	334,00 57,50
25,5	17,1	17,5	2	16	100	TOHX 090204	25500	334,00 57,50

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
	EUR EUR
30200	24,55 13,80
31800	27,75 16,10
31400	20,54 16,10
32600	31,25 18,40

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



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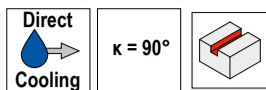


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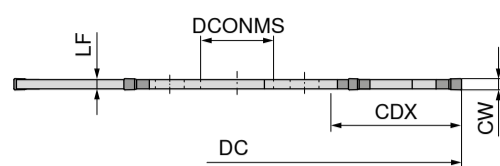
MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

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



Performance



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

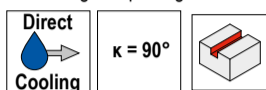
50 383 ... PG TO

	EUR	EUR
08002	987,50	105,80
08003	987,50	105,80
08004	987,50	105,80
08005	987,50	105,80

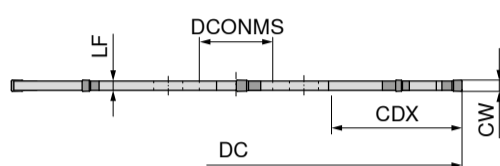
MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

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



Performance



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

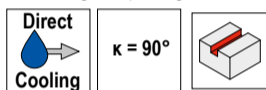
50 384 ... PG TO

	EUR	EUR
10002	987,50	140,30
10003	987,50	140,30
10004	987,50	140,30
10005	987,50	140,30
10006	987,50	140,30

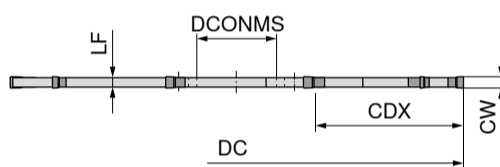
MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

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



Performance



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

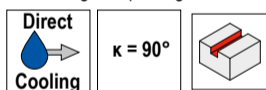
50 385 ... PG TO

	EUR	EUR
12502	1.134,00	175,95
12503	1.134,00	175,95

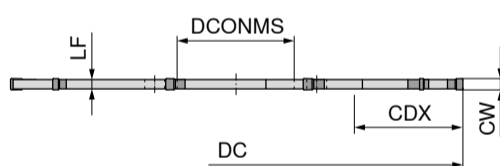
MaxiMill – Slot-SX slot milling and parting off cutter

Scope of supply:

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



Performance



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

50 386 ... PG TO

	EUR	EUR
12502	1.134,00	175,95
12503	1.134,00	175,95
12504	1.134,00	175,95
12505	1.134,00	175,95
12506	1.134,00	175,95

Ejector SX

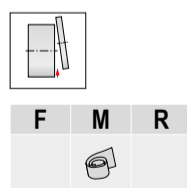
Spare parts

Insert	EUR	EUR
SX E2 ..	25,30	836
SX E3 ..	25,30	836
SX E4 ..	25,30	837
SX E5 ..	25,30	837
SX E6 ..	25,30	837

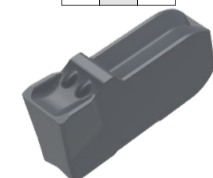
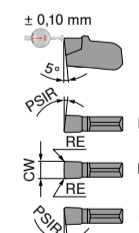
70 950 ...

Insert SX

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



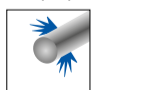
Performance



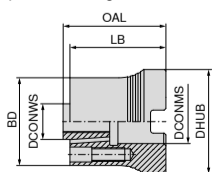
MaxiMill – Slot-SX multipurpose milling cutter adapter

Scope of supply:

Multipurpose milling cutter adapter including screws



Performance



Designation	DCONMS mm	DCONWS _{H6} mm	LB mm	OAL mm	BD mm		
AD.SLOT.13.32.A16	16	13	35	37,5	32	01300	240,00 32,20
AD.SLOT.22.40.A22	22	22	35	37,5	40	02200	247,20 33,35
AD.SLOT.32.63.A27	27	32	45	47,5	63	03200	260,00 36,80
AD.SLOT.40.80.A32.SK	32	40	55	57,5	80	04000	341,00 46,00
AD.SLOT.40.80.A32.ZK	32	40	55	57,5	80	04100	341,00 46,00

50 395 ... PG TO

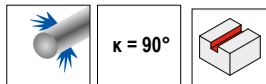
Designation	IH	CW _{+/-0,05} mm	for tool holder		
SX E2.00 N 0.20	N	2	-SX2	622	47,07 10,35
SX E3.00 N 0.20	N	3	-SX3	623	48,45 11,50
SX E4.00 N 0.30	N	4	-SX4	624	48,42 11,50
SX E5.00 N 0.30	N	5	-SX5	625	20,37 12,65
SX E6.00 N 0.40	N	6	-SX6	626	24,07 13,80

70 342 ... PG IG

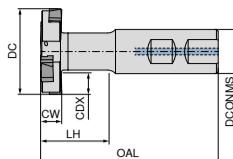
P	●
M	●
K	●
N	○
S	●
H	●
O	○



MaxiMill – Slot-SNHX cylindrical shank saw



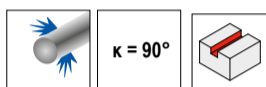
Performance



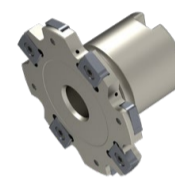
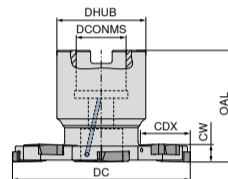
Designation	DC mm	CW mm	CDX mm	OAL mm	LH mm	DCONMS mm	ZNF	Insert
CSLOT.50.R.04-SN13-06-DC-B20-42	50	6	13	95	42	20	4	SNHX 1303..
CSLOT.63.R.06-SN13-06-DC-B25-41	63	6	18	100	41	25	6	SNHX 1303..
CSLOT.80.R.08-SN13-06-DC-B32-48	80	6	22	110	48	32	8	SNHX 1303..
CSLOT.100.R.10-SN13-06-DC-B40-52	100	6	29	125	52	40	10	SNHX 1303..
CSLOT.50.R.04-SN13-08-DC-B20-42	50	8	13	95	42	20	4	SNHX 1304..
CSLOT.63.R.06-SN13-08-DC-B25-41	63	8	18	100	41	25	6	SNHX 1304..
CSLOT.80.R.08-SN13-08-DC-B32-48	80	8	22	110	48	32	8	SNHX 1304..
CSLOT.100.R.10-SN13-08-DC-B40-52	100	8	29	125	52	40	10	SNHX 1304..
CSLOT.50.R.04-SN13-10-DC-B20-42	50	10	13	95	42	20	4	SNHX 1305..
CSLOT.63.R.06-SN13-10-DC-B25-41	63	10	18	100	41	25	6	SNHX 1305..
CSLOT.80.R.08-SN13-10-DC-B32-48	80	10	22	110	48	32	8	SNHX 1305..
CSLOT.100.R.10-SN13-10-DC-B40-52	100	10	29	125	52	40	10	SNHX 1305..
CSLOT.50.R.04-SN13-12-DC-B20-42	50	12	13	95	42	20	4	SNHX 1307..
CSLOT.63.R.06-SN13-12-DC-B25-41	63	12	18	100	41	25	6	SNHX 1307..
CSLOT.80.R.08-SN13-12-DC-B32-48	80	12	22	110	48	32	8	SNHX 1307..
CSLOT.100.R.10-SN13-12-DC-B40-52	100	12	29	125	52	40	10	SNHX 1307..

50 372 ...		PG TO
EUR	EUR	
05006	517,50	77,05
06306	691,00	102,35
08006	866,20	128,80
10006	1.035,00	154,10
05008	517,50	77,05
06308	691,00	102,35
08008	866,20	128,80
10008	1.035,00	154,10
05010	517,50	77,05
06310	691,00	102,35
08010	866,20	128,80
10010	1.035,00	154,10
05012	517,50	77,05
06312	691,00	102,35
08012	866,20	128,80
10012	1.035,00	154,10

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
ASLOT.80.R.08-SN13-06-DC-A22	80	6	22,0	50	22	40	8	SNHX 1303..
ASLOT.100.R.10-SN13-06-DC-A27	100	6	25,0	50	27	48	10	SNHX 1303..
ASLOT.125.R.12-SN13-06-DC-A32	125	6	31,5	50	32	58	12	SNHX 1303..
ASLOT.160.R.16-SN13-06-DC-A40	160	6	41,5	50	40	70	16	SNHX 1303..
ASLOT.200.R.18-SN13-06-DC-A40	200	6	52,0	50	40	88	18	SNHX 1303..
ASLOT.80.R.08-SN13-08-DC-A22	80	8	22,0	50	22	40	8	SNHX 1304..
ASLOT.100.R.10-SN13-08-DC-A27	100	8	25,0	50	27	48	10	SNHX 1304..
ASLOT.125.R.12-SN13-08-DC-A32	125	8	31,5	50	32	58	12	SNHX 1304..
ASLOT.160.R.16-SN13-08-DC-A40	160	8	41,5	50	40	70	16	SNHX 1304..
ASLOT.200.R.18-SN13-08-DC-A40	200	8	52,0	50	40	88	18	SNHX 1304..
ASLOT.80.R.08-SN13-10-DC-A22	80	10	22,0	50	22	40	8	SNHX 1305..
ASLOT.100.R.10-SN13-10-DC-A27	100	10	25,0	50	27	48	10	SNHX 1305..
ASLOT.125.R.12-SN13-10-DC-A32	125	10	31,5	50	32	58	12	SNHX 1305..
ASLOT.160.R.16-SN13-10-DC-A40	160	10	41,5	50	40	70	16	SNHX 1305..
ASLOT.200.R.18-SN13-10-DC-A40	200	10	52,0	50	40	88	18	SNHX 1305..
ASLOT.80.R.08-SN13-12-DC-A22	80	12	22,0	50	22	40	8	SNHX 1307..
ASLOT.100.R.10-SN13-12-DC-A27	100	12	25,0	50	27	48	10	SNHX 1307..
ASLOT.125.R.12-SN13-12-DC-A32	125	12	31,5	50	32	58	12	SNHX 1307..
ASLOT.160.R.16-SN13-12-DC-A40	160	12	41,5	50	40	70	16	SNHX 1307..
ASLOT.200.R.18-SN13-12-DC-A40	200	12	52,0	50	40	88	18	SNHX 1307..
ASLOT.80.R.08-SN13-16-DC-A22	80	16	22,0	50	22	40	8	SNHX 1309..
ASLOT.80.R.08-SN13-14-DC-A22	80	14	22,0	50	22	40	8	SNHX 1309..
ASLOT.100.R.10-SN13-14-DC-A27	100	14	25,0	50	27	48	10	SNHX 1309..
ASLOT.100.R.10-SN13-16-DC-A27	100	16	25,0	50	27	48	10	SNHX 1309..
ASLOT.125.R.12-SN13-16-DC-A32	125	16	31,5	50	32	58	12	SNHX 1309..
ASLOT.125.R.12-SN13-14-DC-A32	125	14	31,5	50	32	58	12	SNHX 1309..
ASLOT.160.R.16-SN13-16-DC-A40	160	16	41,5	50	40	70	16	SNHX 1309..
ASLOT.160.R.16-SN13-14-DC-A40	160	14	41,5	50	40	70	16	SNHX 1309..
ASLOT.200.R.18-SN13-14-DC-A40	200	14	52,0	50	40	88	18	SNHX 1309..
ASLOT.200.R.18-SN13-16-DC-A40	200	16	52,0	50	40	88	18	SNHX 1309..

50 374 ...		PG TO
EUR	EUR	
08006	849,40	126,50
10006	1.014,00	150,65
12506	1.183,00	177,10
16006	1.360,00	201,25
20006	1.530,00	226,55
08008	849,40	126,50
10008	1.014,00	150,65
12508	1.183,00	177,10
16008	1.360,00	201,25
20008	1.530,00	226,55
08010	849,40	126,50
10010	1.014,00	150,65
12510	1.183,00	177,10
16010	1.360,00	201,25
20010	1.530,00	226,55
08012	849,40	126,50
10012	1.014,00	150,65
12512	1.183,00	177,10
16012	1.360,00	201,25
20012	1.530,00	226,55
08016	849,40	126,50
08014	849,40	126,50
10014	1.014,00	150,65
10016	1.014,00	150,65
12516	1.183,00	177,10
12514	1.183,00	177,10
16016	1.360,00	201,25
16014	1.360,00	201,25
20014	1.530,00	226,55
20016	1.530,00	226,55

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	
		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
130308EL	0,8	40800	18,02 10,35								
130308ER	0,8	41800	18,02 10,35								
130408EL	0,8			40800	18,03 10,35						
130408ER	0,8			41800	18,03 10,35						
130508EL	0,8					40800	18,03 10,35				
130508ER	0,8					41800	18,03 10,35				
130708EL	0,8							40800	20,10 11,50		
130708ER	0,8							41800	20,10 11,50		
130908EL	0,8									40800	20,00 11,50
130908ER	0,8									41800	20,00 11,50
P		○		○		○		○		○	
M		●		●		●		●		●	
K											
N											
S											
H											
O											



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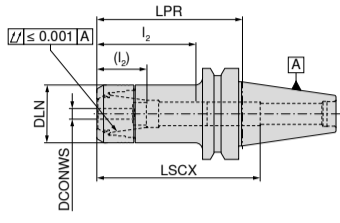
ER precision collet chuck – Centro-P

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

Scope of supply:

Holder without nut, without backstop

Centro-P Performance



AD
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l ₂ (l ₂) mm	for collet	84 524 ... PG CT	
							EUR	EUR
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	210	130,20 64,40
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	310	444,70 75,90
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	410	130,20 103,50
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	510	215,60 111,55
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	116	137,40 72,45
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	216	130,20 64,40
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	316	117,70 75,90
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	416	200,70 111,55
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	516	230,00 119,60
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	616	207,00 138,00
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	120	137,40 72,45
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	220	130,20 64,40
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	320	144,70 75,90
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	420	200,70 111,55
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	520	230,00 119,60

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 mm	84 950 ... PG CT	
		EUR	EUR
426E / ER 16 CP	30	027	36,52 50,60
430E / ER 25 CP	40	054	36,76 58,65
470E / ER 32 CP + STD	50	056	36,76 55,20

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

Performance

for collet	DLN mm	84 950 ... PG CT	
		EUR	EUR
426E (ER16)	001	10,48	25,30
430E (ER25)	003	14,03	27,60
470E (ER32)	005	17,68	29,90

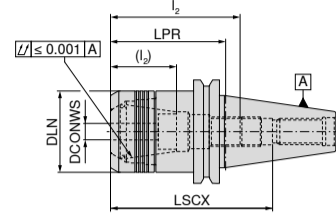
ER Precision Collet chuck – Centro-P

- ▲ 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

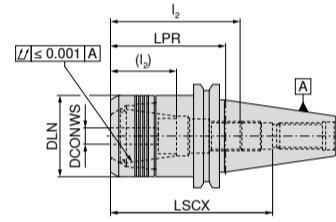
Centro-P Performance



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

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l ₂ (l ₂) mm	for collet	84 414 ... PG CT	
							EUR	EUR
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)	510	198,10 104,65
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)	910	234,10 116,15
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)	816	167,60 95,45
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)	516	212,50 113,85
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)	916	238,60 120,75
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)	620	212,50 113,85
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)	920	238,60 120,75
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)	520	207,00 195,50
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)	720	412,20 318,55

Centro-P Performance



AD
G 2,5 n_{max} 25000

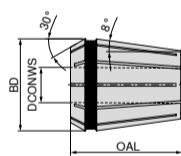
Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l ₂ (l ₂) mm	for collet	84 424 ... PG CT	
							EUR	EUR
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	102	130,20 83,95
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	103	144,70 103,50
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	162	130,20 78,20
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	163	144,70 103,50
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	201	137,40 102,35
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	202	130,20 72,45
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	203	144,70 103,50
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	261 ¹⁾	173,00 117,30
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	167	207,00 195,50

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

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 mm	BD = 17 OAL = 27,5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32	
	84 596 ... PG CT	EUR	EUR	84 597 ... PG CT	EUR	EUR
1,0	010	88,00	41,40			
1,1	011	130,00	73,60			
1,2	012	130,00	73,60			
1,4	014	130,00	73,60			
1,5	015	88,00	41,40			
1,6	016	130,00	73,60			
1,8	018	130,00	73,60			
2,0	020	88,00	35,65	020	60,05	36,80
2,2	022	130,00	65,55			
2,4	024	130,00	65,55			
2,5	025	88,00	35,65	025	60,05	36,80
2,6	026	130,00	65,55			
2,8	028	130,00	65,55			
3,0	030	¹⁾ 67,12	29,90	030	50,56	31,05
3,2	032	100,00	57,50			
3,4	034	100,00	51,75			
3,5	035	81,73	37,95	035	86,03	40,25
3,6	036	100,00	57,50			
3,8	038	100,00	57,50			
4,0	040	¹⁾ 67,12	29,90	040	50,56	31,05
4,5	045	81,73	37,95	045	86,03	40,25
5,0	050	¹⁾ 67,12	29,90	050	86,03	31,05
5,5	055	81,73	37,95	055	86,03	40,25
5,6	056	100,00	57,50			
6,0	060	¹⁾ 67,12	29,90	060	¹⁾ 50,56	31,05
6,3	063	100,00	57,50			
6,5	065	81,73	37,95	065	86,03	40,25

1) Included in the set

Clamping range covered: H10 corresponding to shank Ø DCONWS



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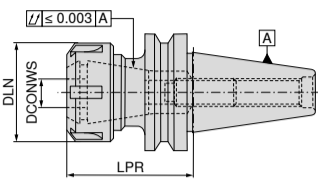
ER-Collet chuck

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

Scope of supply:

Holder with lock nut and adjustable back stop

Standard



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

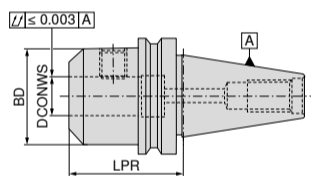
Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 509 ... PG CX	
							EUR	EUR
short	BT 40	1 - 10	60	32	56	426E (ER16)	110	73,03 31,05
	BT 40	1 - 16	70	42	104	430E (ER25)	116	76,34 32,20
	BT 40	2 - 20	70	50	136	470E (ER32)	120	76,68 32,20
	BT 40	3 - 26	70	63	176	472E (ER40)	126	79,69 33,35
medium length	BT 40	1 - 10	120	32	56	426E (ER16)	410	80,09 34,50
	BT 40	1 - 16	120	42	104	430E (ER25)	416	83,39 35,65
	BT 40	2 - 20	120	50	136	470E (ER32)	420	83,62 35,65

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	
					EUR	EUR
short	BT 40	6	50	25	106	52,30 21,85
	BT 40	8	50	28	108	52,30 21,85
	BT 40	10	63	35	110	49,36 20,70
	BT 40	12	63	42	112	49,36 20,70
	BT 40	14	63	44	114	49,36 20,70
	BT 40	16	63	48	116	53,46 23,00
	BT 40	18	63	50	118	53,46 23,00
	BT 40	20	63	52	120	53,46 23,00
	BT 40	25	100	65	125	56,65 25,30
	BT 40	32	100	72	132 ¹⁾	63,79 27,60
medium length	BT 40	6	100	25	506	54,52 23,00
	BT 40	8	100	28	508	54,52 23,00
	BT 40	10	100	35	510	54,46 21,85
	BT 40	12	100	42	512	54,46 21,85
	BT 40	14	100	44	514	54,43 21,85
	BT 40	16	100	48	516	56,63 24,15
	BT 40	18	100	50	518	56,20 24,15
	BT 40	20	100	52	520	56,53 24,15
extra-long	BT 40	6	160	25	606	62,73 26,45
	BT 40	8	160	28	608	62,73 26,45
	BT 40	10	160	35	610	59,44 25,30
	BT 40	12	160	42	612	59,44 25,30
	BT 40	14	160	44	614	59,44 25,30
	BT 40	16	160	48	616	59,69 25,30
	BT 40	18	160	50	618	59,69 25,30
	BT 40	20	160	52	620	59,69 25,30
	BT 40	25	160	65	625 ¹⁾	63,79 27,60

1) Version with two grub screws

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



Shell mill adapter

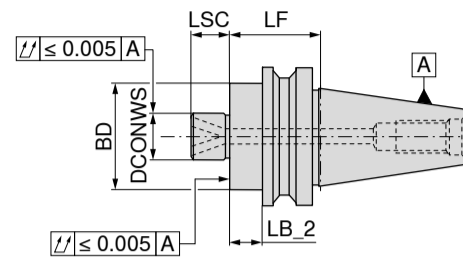
▲ With fixed drive dogs and enlarged contact face for milling cutters with transverse groove

▲ 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	
							EUR	EUR
short	BT 40	16	25	52	38	17	116	72,23 31,05
	BT 40	22	25	52	48	19	122	76,45 32,20
	BT 40	27	25	52	58	21	127	77,07 33,35
	BT 40	32	23	50	78	24	132	82,07 34,50
	BT 40	40	23	50	88	27	140 ¹⁾	89,25 37,95

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

HyTens – Hydraulic chuck

▲ Hydraulic chuck, short and stable version

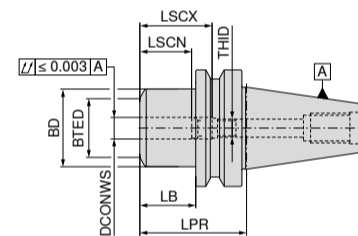
▲ for solid carbide and HSS shanks to h6 tolerance or better

▲ 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	
									EUR	EUR
BT 40	12	58,0	42	32	31,0	36	46	M8x1	01269	219,10 136,85
BT 40	20	72,5	49	38	45,5	41	51	M16x1	02069	219,10 136,85
BT 50	20	83,5	49	38	45,5	41	51	M16x1	02068	394,60 243,80

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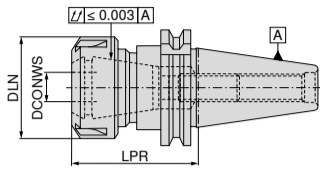
ER Collet chuck

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

Scope of supply:

Holder with lock nut and adjustable back stop

Standard



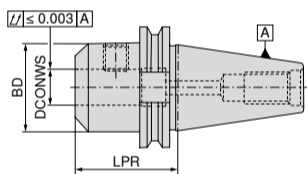
AD/B
G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 415 ... PG CX	
							EUR	EUR
short	SK 40	1 - 10	60	32	56	426E (ER16)	110	73,03 31,05
	SK 40	1 - 16	70	42	104	430E (ER25)	116	76,34 32,20
	SK 40	2 - 20	70	50	136	470E (ER32)	120	76,58 32,20
	SK 40	3 - 26	70	63	176	472E (ER40)	126	79,60 33,35
medium length	SK 40	1 - 10	120	32	56	426E (ER16)	410	80,00 34,50
	SK 40	1 - 16	120	42	104	430E (ER25)	416	83,30 35,65
	SK 40	2 - 20	120	50	136	470E (ER32)	420	83,62 35,65

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	82 401 ... PG CX	
					EUR	EUR
short	SK 40	6	50	25	106	52,30 21,85
	SK 40	8	50	28	108	52,30 21,85
	SK 40	10	50	35	110	49,36 20,70
	SK 40	12	50	42	112	49,36 20,70
	SK 40	14	50	44	114	49,36 20,70
	SK 40	16	63	48	116	53,46 23,00
	SK 40	18	63	50	118	53,46 23,00
	SK 40	20	63	52	120	53,46 23,00
	SK 40	25	100	65	125 ¹⁾	56,65 25,30
medium length	SK 40	32	100	72	132 ¹⁾	63,79 27,60
	SK 40	6	100	25	506	54,52 23,00
	SK 40	8	100	28	508	54,52 23,00
	SK 40	10	100	35	510	54,46 21,85
	SK 40	12	100	42	512	54,46 21,85
	SK 40	14	100	44	514	54,43 21,85
	SK 40	16	100	48	516	56,63 24,15
	SK 40	18	100	50	518	56,20 24,15
extra-long	SK 40	20	100	52	520	56,53 24,15
	SK 40	6	160	25	606	62,73 26,45
	SK 40	8	160	28	608	62,73 26,45
	SK 40	10	160	35	610	59,44 25,30
	SK 40	12	160	42	612	59,44 25,30
	SK 40	14	160	44	614	59,44 25,30
	SK 40	16	160	48	616	59,60 25,30
	SK 40	18	160	50	618	59,60 25,30
SK 40	20	160	52	620	59,60 25,30	
SK 40	25	160	65	625 ¹⁾	63,79 27,60	

1) Version with two grub screws

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



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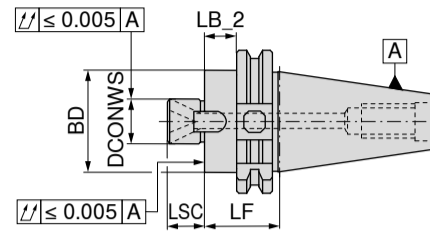
Shell mill adapter

▲ 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	
							EUR	EUR
short	SK 40	16	25	44	38	17	116	72,23 31,05
	SK 40	22	25	44	48	19	122	76,58 32,20
	SK 40	27	36	55	58	21	127	77,07 33,35
	SK 40	32	31	50	78	24	132	82,07 34,50
	SK 40	40	31	50	88	27	140 ¹⁾	89,25 37,95

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

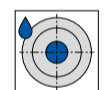
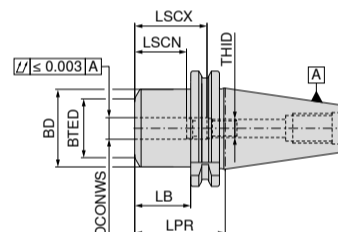
HyTens – Hydraulic chuck

▲ 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	
									EUR	EUR
SK 40	12	50,0	42	32	31,0	46	56	M8x1	01279	219,10 136,85
SK 40	20	64,5	49	38	45,5	41	51	M16x1	02079	219,10 136,85
SK 50	20	64,5	49	38	45,5	41	51	M16x1	02078	394,60 243,80

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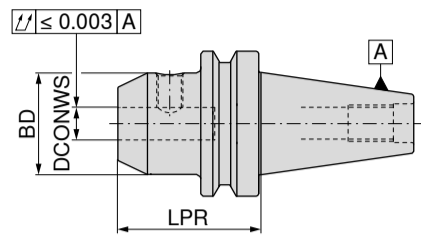


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Cylindrical shank adapter Weldon

- ▲ with face contact
- ▲ for shanks according to DIN 6535 / 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	
					EUR	EUR
short	BT-FC 30	6	50	25	10665	108,20 71,30
	BT-FC 30	8	50	28	10865	108,20 71,30
	BT-FC 30	10	50	35	11065	108,20 71,30
	BT-FC 30	12	55	42	11265	108,20 71,30
	BT-FC 30	16	63	48	11665	116,00 77,05
	BT-FC 30	20	63	52	12065	116,00 77,05
	BT-FC 40	6	50	25	10664	137,10 90,85
	BT-FC 40	8	50	28	10864	132,50 87,40
	BT-FC 40	10	63	35	11064	132,50 87,40
	BT-FC 40	12	63	42	11264	132,50 87,40
	BT-FC 40	16	63	48	11664	132,50 87,40
	BT-FC 40	20	63	52	12064	132,50 87,40
	BT-FC 40	25	100	65	12564 ¹⁾	176,50 117,30
	BT-FC 40	32	100	72	13264 ¹⁾	176,50 117,30
	BT-FC 50	6	63	25	10663	203,70 134,55
	BT-FC 50	8	63	28	10863	197,60 131,10
	BT-FC 50	10	80	35	11063	197,60 131,10
	BT-FC 50	12	80	42	11263	197,60 131,10
	BT-FC 50	16	80	48	11663	197,60 131,10
	BT-FC 50	20	80	52	12063	197,60 131,10
BT-FC 50	25	100	65	12563 ¹⁾	226,20 149,50	
BT-FC 50	32	105	72	13263 ¹⁾	226,20 149,50	

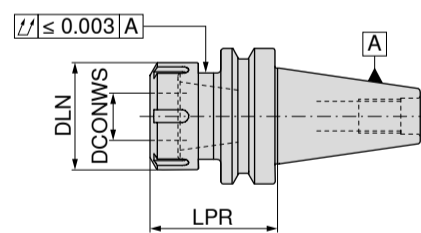
1) Version with two grub screws

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	
							EUR	EUR
short	BT-FC 30	1 - 10	63	32	56	426E (ER16)	11065	122,00 80,50
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	11665	122,00 80,50
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	12065	122,00 80,50
	BT-FC 40	1 - 10	63	32	56	426E (ER16)	11064	153,70 102,35
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	11664	153,70 102,35
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	12064	153,70 102,35
	BT-FC 50	1 - 10	100	32	56	426E (ER16)	11063	209,60 139,15
	BT-FC 50	1 - 16	75	42	104	430E (ER25)	11663	209,60 139,15
	BT-FC 50	2 - 20	75	50	136	470E (ER32)	12063	209,60 139,15

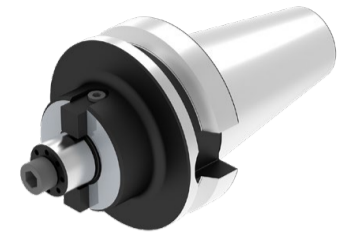
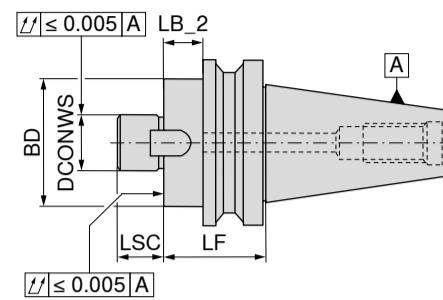
Spare parts can be found in → Chapter 16 Adaptors and accessories in the clamping technology catalogue.



Shell mill adapter

- ▲ 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	
							EUR	EUR
short	BT-FC 30	16	18	40	40	17	11665	110,00 79,35
	BT-FC 30	22	18	40	50	19	12265	110,00 79,35
	BT-FC 30	27	28	50	60	21	12765	110,00 79,35
	BT-FC 30	32	28	50	80	24	13265	110,00 79,35
	BT-FC 40	16	25	52	40	17	11664	143,10 94,30
	BT-FC 40	22	25	52	50	19	12264	143,10 94,30
	BT-FC 40	27	25	52	60	21	12764	143,10 94,30
	BT-FC 40	32	23	50	80	24	13264	143,10 94,30
	BT-FC 40	40	23	50	89	27	14064	143,10 94,30
	BT-FC 50	22	25	63	50	19	12263	166,00 110,40
	BT-FC 50	27	25	63	60	21	12763	166,00 110,40
	BT-FC 50	32	22	60	80	24	13263	176,50 117,30
	BT-FC 50	40	22	60	89	27	14063	176,50 117,30

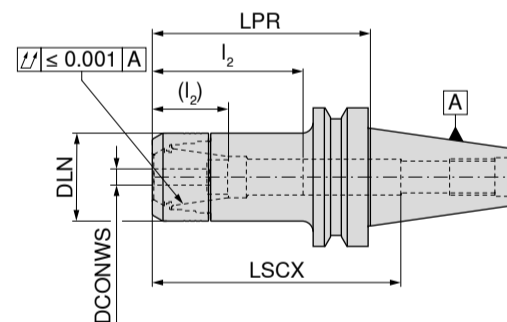
ER Precision Collet chuck – Centro-P – BT-FC

- ▲ 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	
							EUR	EUR
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	002	215,00 111,55
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	012	215,00 112,70
BT-FC 30	2 - 20	75	45	84	42 - 62 (24 - 45)	470E (ER32)	022	215,00 112,70
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	102	220,20 124,20
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	112	220,20 125,35
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	122	220,20 125,35

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



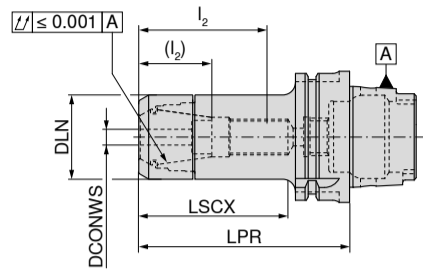
ER Precision Collet chuck – Centro-P

- ▲ 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
	EUR	EUR
504 ¹⁾	296,70	128,80
505	299,70	128,80
609 ¹⁾	172,00	124,20
610	172,00	121,90
613	212,50	140,30
611	298,00	147,20
612	302,30	249,55
615	172,00	124,20
616	172,00	121,90
619	297,00	150,65
617	253,00	155,25
620	172,00	121,90
621	172,00	121,90
625	297,00	150,65
622	253,00	155,25
626 ²⁾	216,00	156,40
62700	271,20	128,80

- 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
 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

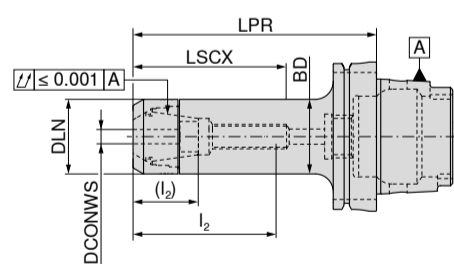
ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**

Performance



AD
G 2,5 n_{max} 25000

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

84 719 ...	PG	CT
	EUR	EUR
407	270,30	161,00
610	183,60	124,20
710	183,60	124,20
810	298,00	158,70
910	264,60	158,70
507	183,60	124,20
607	183,60	128,80
707	298,00	158,70
608	264,60	169,05

i 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



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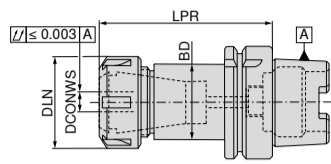
ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut

Standard



AD
G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 743 ... PG CX	
							EUR	EUR
medium length	HSK-A 63	1 - 10	100	22	56	426E (ER16 mini)	21157	138,00 58,65
	HSK-A 63	1 - 10	100	32	56	426E (ER16)	21057	144,00 50,60
	HSK-A 63	1 - 16	100	42	104	430E (ER25)	21657	144,00 50,60
	HSK-A 63	2 - 20	100	50	136	470E (ER32)	22057	144,00 50,60
	HSK-A 63	3 - 26	100	63	176	472E (ER40)	22657	144,00 50,60
extra-long	HSK-A 63	1 - 10	160	22	56	426E (ER16 mini)	41157	138,00 58,65
	HSK-A 63	1 - 10	160	32	56	426E (ER16)	41057	161,00 70,15
	HSK-A 63	1 - 16	160	42	104	430E (ER25)	41657	161,00 70,15
	HSK-A 63	2 - 20	160	50	136	470E (ER32)	42057	161,00 70,15
	HSK-A 63	3 - 26	160	63	176	472E (ER40)	42657	161,00 70,15

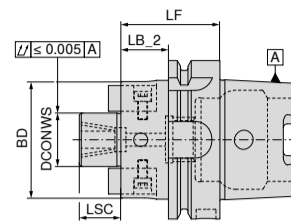
Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog

Standard



AD
G 2,5 n_{max} 25000

Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 315 ... PG CX	
							EUR	EUR
short	HSK-A 63	22	34	60	38	19	12257	240,00 73,60
	HSK-A 63	27	34	60	48	21	12757	240,00 73,60

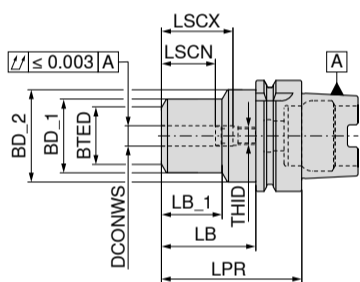
HyTens – Hydraulic chuck

▲ 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_1 mm	BD_2 mm	BTED mm	LB mm	LB_1 mm	LSCN mm	LSCX mm	THID	83 430 ... PG CT	
											EUR	EUR
HSK-A 63	12	80	42	52,5	32	54	34	36	46	M8x1	01257	243,00 151,80
HSK-A 63	20	80	49	52,5	38	54	36	41	51	M8x1	02057	243,00 151,80
HSK-A 100	12	85	42	52,5	32	51	34	36	46	M8x1	01255	342,20 212,75
HSK-A 100	20	85	49	52,5	38	51	36	41	51	M8x1	02055	342,20 212,75

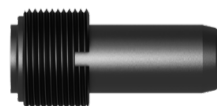
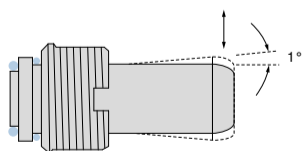
Coolant pipe – HSK

▲ use up to 100 bar

Scope of supply:

complete, including seals

Standard



Adapter	THOD	83 760 ... PG CT	
		EUR	EUR
HSK 50	M16 x 1	050	11,42 8,05
HSK 63	M18 x 1	063	11,46 4,60
HSK 100	M24 x 1,5	100	13,69 6,90

Key – HSK

Standard



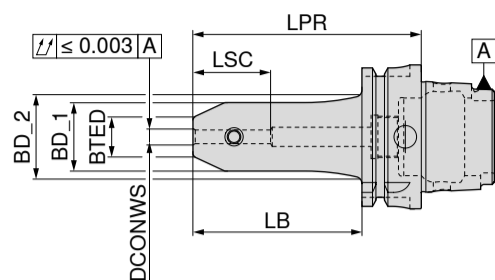
Adapter	83 758 ... PG CT	
	EUR	EUR
HSK 50	050	21,71 16,10
HSK 63	063	23,52 9,20
HSK 100	100	27,16 18,40



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	130	45	65		104	54
HSK-A 63	32	130	52	72		104	58	
long	HSK-A 63	6	130	17	30	36,2	104	34
	HSK-A 63	8	130	20	32	38,2	104	34
	HSK-A 63	10	130	25	35	41,2	104	39
	HSK-A 63	12	130	30	42	48,2	104	44
	HSK-A 63	14	130	32	45	50,5	104	44
	HSK-A 63	16	130	36	48	50,1	104	47
	HSK-A 63	18	130	38	48	50,1	104	47
	HSK-A 63	20	130	40	52		104	49
	HSK-A 63	25	130	45	63		104	54
	HSK-A 63	32	130	52	72		104	58
	HSK-A 100	6	160	17	30	38,2	131	34
	HSK-A 100	8	160	20	32	40,2	131	34
HSK-A 100	10	160	25	35	43,2	131	39	
HSK-A 100	12	160	30	42	50,2	131	44	
HSK-A 100	14	160	32	45	53,2	131	44	
HSK-A 100	16	160	36	48	56,2	131	47	
HSK-A 100	18	160	38	48	56,2	131	47	
HSK-A 100	20	160	40	52	60,2	131	49	
HSK-A 100	25	160	45	65	73,2	131	54	
HSK-A 100	32	160	52	72	79,5	134	58	

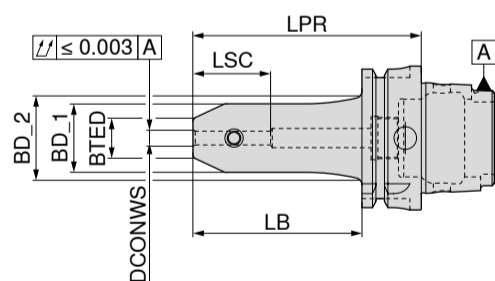
1) Version with two grubscrews

82 740 ... PG CX	EUR	EUR	82 741 ... PG CX	EUR	EUR
10657	139,40	60,95	10657	106,10	46,00
10857	139,40	60,95	10857	106,10	46,00
11057	139,40	60,95	11057	106,10	46,00
11257	139,40	60,95	11257	106,10	46,00
11457	139,40	60,95	11457	106,10	46,00
11657	139,40	60,95	11657	106,10	46,00
11857	139,40	60,95	11857	106,10	46,00
12057	139,40	60,95	12057	106,10	46,00
12557 ¹⁾	139,40	60,95	12557 ¹⁾	106,10	46,00
13257 ¹⁾	139,40	60,95	13257 ¹⁾	106,10	46,00
10655	106,00	81,65	10655	103,10	71,30
10855	106,00	81,65	10855	103,10	71,30
11055	106,00	81,65	11055	103,10	71,30
11255	106,00	81,65	11255	103,10	71,30
11455	106,00	81,65	11455	103,10	71,30
11655	106,00	81,65	11655	103,10	71,30
11855	106,00	81,65	11855	103,10	71,30
12055	106,00	81,65	12055	103,10	71,30
12555 ¹⁾	106,00	81,65	12555 ¹⁾	103,10	71,30
13255 ¹⁾	106,00	81,65	13255 ¹⁾	103,10	71,30
14055 ¹⁾	106,00	81,65	14055 ¹⁾	103,10	71,30
20657	152,40	66,70	20657	121,00	52,90
20857	152,40	66,70	20857	121,00	52,90
21057	152,40	66,70	21057	121,00	52,90
21257	152,40	66,70	21257	121,00	52,90
21457	152,40	66,70	21457	121,00	52,90
21657	152,40	66,70	21657	121,00	52,90
21857	152,40	66,70	21857	121,00	52,90
22057	152,40	66,70	22057	121,00	52,90
30657	162,00	71,30	30657	134,20	58,65
30857	162,00	71,30	30857	134,20	58,65
31057	162,00	71,30	31057	134,20	58,65
31257	162,00	71,30	31257	134,20	58,65
31457	162,00	71,30	31457	134,20	58,65
31657	162,00	71,30	31657	134,20	58,65
31857	162,00	71,30	31857	134,20	58,65
32057	162,00	71,30	32057	134,20	58,65
32557 ¹⁾	162,00	71,30	32557 ¹⁾	134,20	58,65
33257 ¹⁾	162,00	71,30	33257 ¹⁾	134,20	58,65

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	

1) Version with two grubscrews

82 740 ... PG CX	EUR	EUR	82 741 ... PG CX	EUR	EUR
40655	239,20	100,05	40655	212,00	93,15
40855	239,20	100,05	40855	212,00	93,15
41055	239,20	100,05	41055	212,00	93,15
41255	239,20	100,05	41255	212,00	93,15
41455	239,20	100,05	41455	212,00	93,15
41655	239,20	100,05	41655	212,00	93,15
41855	239,20	100,05	41855	212,00	93,15
42055	239,20	100,05	42055	212,00	93,15
42555 ¹⁾	239,20	100,05	42555 ¹⁾	212,00	93,15
43255 ¹⁾	239,20	100,05	43255 ¹⁾	212,00	93,15
40657	173,20	75,90	40657	146,00	64,40
40857	173,20	75,90	40857	146,00	64,40
41057	173,20	75,90	41057	146,00	64,40
41257	173,20	75,90	41257	146,00	64,40
41457	173,20	75,90	41457	146,00	64,40
41657	173,20	75,90	41657	146,00	64,40
41857	173,20	75,90	41857	146,00	64,40
42057	173,20	75,90	42057	146,00	64,40
42557 ¹⁾	173,20	75,90	42557 ¹⁾	146,00	64,40



Technical support: 1800 93 22 55

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

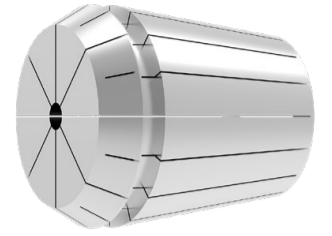
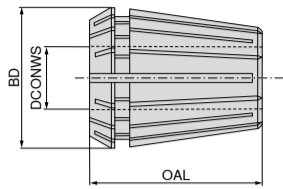


Order by 6:00 pm and get your guaranteed free express delivery

ER precision collet

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

ER-B
20 µm Standard



DCONWS mm	BD = 17 OAL = 27,5 426 E / ER16		BD = 21 OAL = 31,5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	82 687 ...	PG CX	82 688 ...	PG CX	82 689 ...	PG CX	82 690 ...	PG CX	82 691 ...	PG CX
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
1	01000	19,97 10,35	01000	20,64 10,35	02000	21,44 11,50				
2	02000	19,97 10,35	02000	20,64 10,35	03000	16,09 8,05	03000	17,30 9,20	03000	21,85 11,50
3	03000	16,23 8,05	03000	15,00 8,05	04000	16,09 8,05	04000	17,30 9,20	04000	21,85 11,50
4	04000	16,23 8,05	04000	15,00 8,05	05000	16,09 8,05	05000	17,30 9,20	05000	21,85 11,50
5	05000	16,23 8,05	05000	15,00 8,05	06000	16,09 8,05	06000	17,30 9,20	06000	21,85 11,50
6	06000	16,23 8,05	06000	15,00 8,05	07000	16,09 8,05	07000	17,30 9,20	07000	21,85 11,50
7	07000	16,23 8,05	07000	15,00 8,05	08000	16,09 8,05	08000	17,30 9,20	08000	21,85 11,50
8	08000	16,23 8,05	08000	15,00 8,05	09000	16,09 8,05	09000	17,30 9,20	09000	21,85 11,50
9	09000	16,23 8,05	09000	15,00 8,05	10000	16,09 8,05	10000	17,30 9,20	10000	21,85 11,50
10	10000	16,23 8,05	10000	15,00 8,05	11000	16,09 8,05	11000	17,30 9,20	11000	21,85 11,50
11			11000	15,00 8,05	12000	16,09 8,05	12000	17,30 9,20	12000	21,85 11,50
12			12000	15,00 8,05	13000	16,09 8,05	13000	17,30 9,20	13000	21,85 11,50
13			13000	15,00 8,05	14000	16,09 8,05	14000	17,30 9,20	14000	21,85 11,50
14					15000	16,09 8,05	15000	17,30 9,20	15000	21,85 11,50
15					16000	16,09 8,05	16000	17,30 9,20	16000	21,85 11,50
16							17000	17,30 9,20	17000	21,85 11,50
17							18000	17,30 9,20	18000	21,85 11,50
18							19000	17,30 9,20	19000	21,85 11,50
19							20000	17,30 9,20	20000	21,85 11,50
20									21000	21,85 11,50
21									22000	21,85 11,50
22									23000	21,85 11,50
23									24000	21,85 11,50
24									25000	21,85 11,50
25									26000	21,85 11,50
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



Set	BD mm	OAL mm	82 687 ...	PG CX
426 E / ER16	17	27,5	99900	179,80 95,45

Collet Set

Scope of supply

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



Set	BD mm	OAL mm	82 688 ...	PG CX
428 E / ER20	21	31,5	99900	193,10 102,35

Collet Set

Scope of supply

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



Set	BD mm	OAL mm	82 689 ...	PG CX
430 E / ER25	26	34	99900	263,50 134,55

Collet Set

Scope of supply

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



Set	BD mm	OAL mm	82 690 ...	PG CX
470 E / ER32	33	40	99900	311,10 164,45

Collet Set

Scope of supply

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

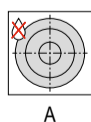
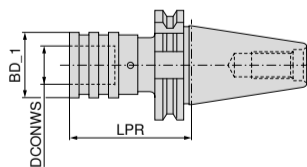


Set	BD mm	OAL mm	82 691 ...	PG CX
472 E / ER40	41	46	99900	525,60 278,30

Quick change tap chuck with length compensation

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

Standard

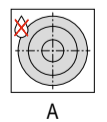
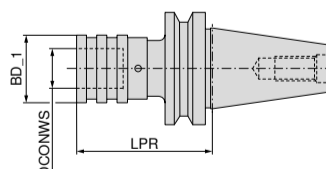


Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 428 ...	PG CT
SK 30	M6 - M20	02	101	55	31	15	320	432,00 240,35
SK 30	M3 - M12	01	60	38	19	9	312	388,10 211,60
SK 40	M6 - M20	02	100	55	31	15	420	518,10 177,10
SK 40	M3 - M12	01	60	38	19	9	412	295,60 163,30
SK 50	M6 - M20	02	83	55	31	15	520	478,20 264,50
SK 50	M3 - M12	01	62	38	19	9	512	438,90 244,95

Quick change tap chuck with length compensation

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

Standard



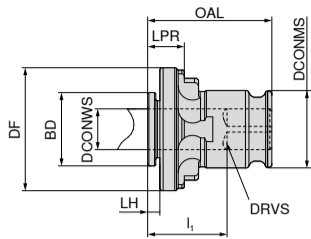
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 528 ...	PG CT
BT 30	M3 - M12	01	63	38	19	9	312	322,70 212,75
BT 30	M6 - M20	02	96	55	31	15	320	410,30 266,80
BT 40	M3 - M12	01	68	38	19	9	412	258,00 171,35
BT 40	M6 - M20	02	93	55	31	15	420	273,00 177,10
BT 50	M3 - M12	01	80	38	19	9	512	435,00 286,35
BT 50	M6 - M20	02	102	55	31	15	520	502,10 330,05



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
	EUR	EUR
110	29,56	17,25
100	29,56	17,25
101	29,56	17,25
102	29,56	17,25
103	29,56	17,25
104	29,56	17,25
105	29,56	17,25
106	29,56	17,25
107	29,56	17,25
108	29,56	17,25
109	29,56	17,25
205	40,84	24,15
200	40,84	24,15
201	40,84	24,15
202	40,84	24,15
203	40,84	24,15
204	40,84	24,15
206	40,84	24,15
207	40,84	24,15
208	40,84	24,15
209	40,84	24,15

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

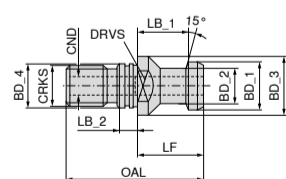
82 530 ...	PG	CX	82 534 ...	PG	CX
	EUR	EUR		EUR	EUR
030	12,06	8,05	030	12,03	8,05
040	7,56	6,90	040	9,73	8,05
050	12,17	9,20	050	13,18	10,35

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
	EUR	EUR
030	12,06	6,90
040	6,00	5,75
050	10,02	8,05



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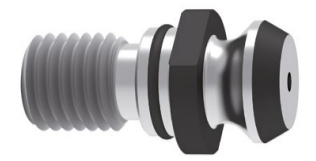
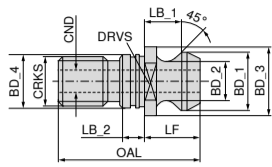
Pull studs for tool holders according to ISO 7388-1

- ▲ CAT Mazak
- ▲ Face ground flat

Scope of supply:

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

Standard



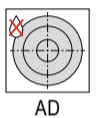
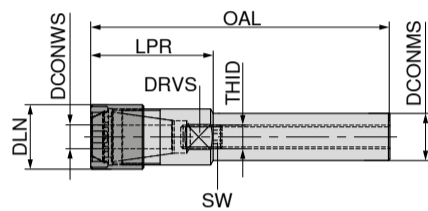
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
SK 40	18,79	12,44	21,8	17	M16	41,26	16,25	11,17	4,0	7,0	19	50
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	150

82 487 ...	PG	CX
	EUR	EUR
040	6,99	5,75
050	10,02	9,20

ER collet chuck with mini clamping nut

- ▲ with cylindrical shank

Standard



AD

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)

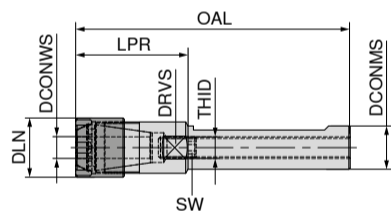
83 453 ...	PG	CX
	EUR	EUR
081 ¹⁾	99,99	56,35
122	137,00	119,60
163	147,00	118,45
164	193,00	80,50
165	147,00	118,45
204	142,40	85,10
254	164,00	97,75
256	205,00	123,05

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

- ▲ with cylindrical shank and clamping flat

Standard



AD

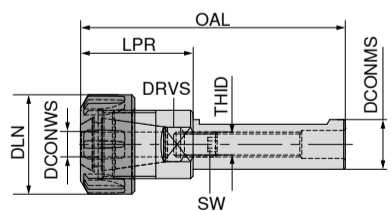
DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
20	1 - 10	168	28	22	M11x1	17	426E (ER16)
20	1 - 13	138	38	28	M11x1	22	428E (ER20)
20	1 - 16	146	46	35	M14x1	27	430E (ER25)
25	1 - 13	168	28	28	M14x1	22	428E (ER20)
25	1 - 16	189	39	35	M18x1	27	430E (ER25)

83 454 ...	PG	CX
	EUR	EUR
204	142,40	85,10
206	107,00	60,95
208	124,40	71,30
254	164,00	97,75
256	205,00	123,05

ER Collet Chuck

- ▲ with cylindrical shank and clamping flat

Standard



AD

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)

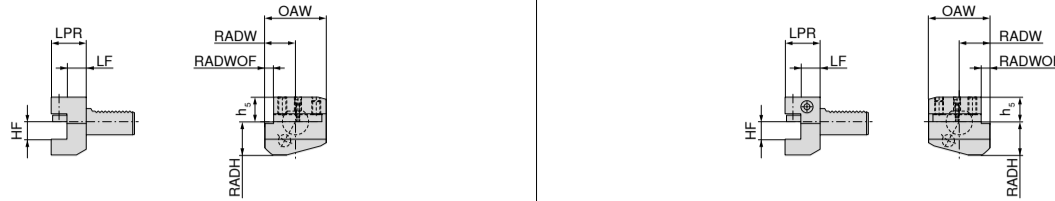
83 455 ...	PG	CX
	EUR	EUR
401	127,40	72,45
402	156,20	88,55
405	145,40	82,80

Note: Spanner to be ordered separately.



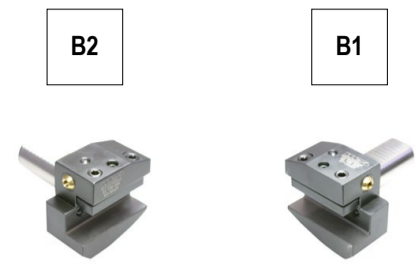
Radial tool holders, short

Performance



B2

B1



Left-hand

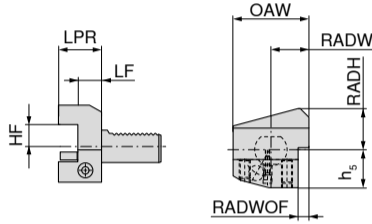
Right-hand

Adapter	HF _{0±0,1} mm	OAW mm	RADW mm	RADWOF mm	h _s mm	RADH mm	LF _{0±0,5} mm	LPR 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

82 189 ... PG CX			82 185 ... PG CX		
EUR	EUR		EUR	EUR	
200	148,88	69,00	160	191,70	81,65
201	147,68	90,85	200	158,88	73,60
300	151,58	74,75	201	144,98	85,10
301	190,40	118,45	300	136,78	67,85
400	154,28	75,90	301	178,88	112,70
500	237,38	118,45	400	140,88	69,00
			500	234,68	116,15

Radial tool holders, overhead, short

Performance



B3



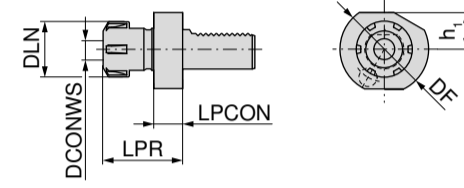
Right-hand

Adapter	HF _{0±0,1} mm	OAW mm	RADW mm	RADWOF mm	h _s mm	RADH mm	LF _{0±0,5} mm	LPR 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

82 193 ... PG CX		
EUR	EUR	
160	139,68	85,10
201	173,88	106,95
300	142,88	70,15
400	143,68	73,60
500	237,38	118,45

ER Collet chucks

Performance



E4

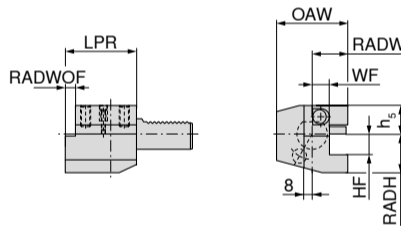


Adapter	DCONWS mm	DF mm	DLN mm	h _i mm	LPR mm	LPCON mm	for collet
VDI 16	1 - 10	40	28	18,0	43,5	14	426E (ER16)
VDI 16	1 - 13	40	34	18,0	44,0	14	428E (ER20)
VDI 20	1 - 16	50	42	23,0	57,0	18	430E (ER25)
VDI 20	2 - 20	50	50	23,0	62,0	18	470E (ER32)
VDI 30	1 - 16	68	42	28,0	57,0	22	430E (ER25)
VDI 30	2 -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

82 286 ... PG CX		
EUR	EUR	
160	193,18	117,30
161	198,48	116,15
202	194,58	95,45
203	199,78	100,05
300	173,88	94,30
301	177,88	94,30
400	195,88	102,35
401	195,88	102,35
402	282,68	100,05
500	287,78	148,35
501	297,78	148,35

Axial tool holders

Performance



C1



Right-hand

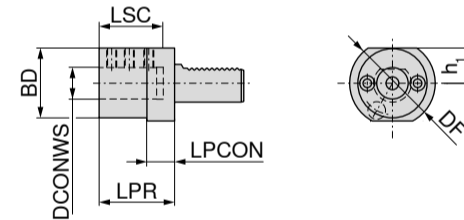
Adapter	HF _{0±0,1} mm	OAW mm	RADW mm	WF _{0±0,3} mm	h _s mm	RADH mm	LPR mm	RADWOF mm
VDI 30	20	70	35,0	17,0	28,0	38	70	10,0
VDI 40	25	85	42,5	20,5	32,5	48	85	12,5
VDI 50	32	100	50,0	25,5	35,0	60	100	16,0

82 211 ... PG CX		
EUR	EUR	
300	159,68	79,35
400	182,48	92,00
500	276,88	133,40

Boring bar holder

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

Performance



E2



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

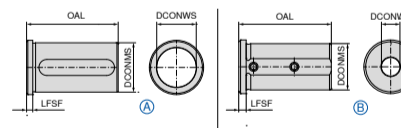
82 268 ... PG CX		
EUR	EUR	
160	161,08	100,05
161	136,78	77,05
162	136,78	77,05
163	136,78	77,05
164	136,78	77,05
200	143,58	71,30
201	143,58	71,30
202	143,58	71,30
203	143,58	71,30
204	143,58	71,30
205	143,58	71,30
300	140,88	69,00
301	140,88	69,00
302	140,88	69,00
303	140,88	69,00
304	140,88	69,00
305	140,88	69,00
306	140,88	69,00
400	143,58	71,30
401	143,58	71,30
402	143,58	71,30
403	143,58	71,30
404	143,58	71,30
405	143,58	71,30
406	143,58	71,30
407	143,58	71,30
500	285,18	102,35
501	285,18	102,35
502	285,18	102,35
503	195,88	97,75
504	195,88	97,75
505	195,88	97,75
506	195,88	97,75

1) Coolant supply through pipe joint

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank

Performance



83 272 ... PG CX		
EUR	EUR	
262	63,28	46,00
256	61,68	60,95
258	63,28	46,00
260	63,28	46,00
266	63,28	46,00
270	63,28	46,00
326	84,24	62,10
328	84,24	62,10
330	85,98	47,15
332	85,98	47,15
336	85,98	47,15
340	85,98	47,15
345	85,98	47,15
408	182,48	75,90
410	84,24	62,10
412	91,15	62,10
416	91,15	62,10
420	91,15	62,10
425	91,15	62,10
432	91,15	62,10
525	94,83	70,15
512	94,83	70,15
516	94,83	70,15
520	94,83	70,15
532	94,83	70,15
540	94,83	70,15

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



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Apprentice Toolkit

Article Number: **93 026 15292**

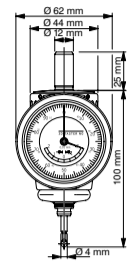
Price: **€200**



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



Universal 3D-Tester HQ

85 292 ...	PG CT
EUR	EUR
100	471,00 322,00

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

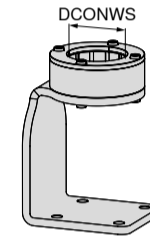


30 100 ...	PG CX
EUR	EUR
999	86,04 27,60

Assembly fixture for tool holders

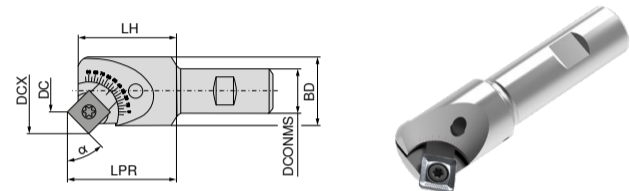
- ▲ gripping by roller
- ▲ secure clamping
- ▲ quick assembly, no additional clamping necessary

Standard



Adapter	DCONWS mm	80 722 ...	PG CT
		EUR	EUR
HSK 32, PSC 32	32.0	032	250,00 138,00
HSK 40, PSC 40	40.0	040	250,00 138,00
MAS-BT 30	46.0	046	207,40 115,00
DIN 69871 / DIN 2080 - SK 30, HSK 50, PSC 50	50.0	050	207,40 115,00
DIN 69871 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63.0	063	245,40 115,00
DIN 69871 - SK 50	97.5	097	400,70 230,00
HSK 100, MAS-BT 50, ANSI-CAT 50	100.0	100	400,70 230,00

Adjustable single angle milling cutter C 4500



Designation	DCONMS mm	DC mm	DCX mm	LH mm	BD mm	LPR mm	50 690 ...	PG TO
							EUR	EUR
C490.20.R.01	16.0	1.6-11.1	20.1-23.6	32.0	18.65	23.9-34.6	01600	208,00 31,05
C490.26.R.01	20.0	1.1-14.1	26.6-31.5	37.0	25.00	38.2-40.6	02000	244,00 36,80

Zero height setting gauge



Designation	Height mm	85 900 ...	PG CT
		EUR	EUR
Zero height setting gauge	100	018	240,70 86,25

Twist drill sets DIN 338 – Type N short

- ▲ In metal box
- ▲ In 0.1 mm steps



	Ø mm	10 158 ...	PG CX
		EUR	EUR
0.1 mm steps	1.0-5.9	050	408,00 46,00
0.1 mm steps	6.0-10	100	297,20 92,00

Assembly device for ISO adapters

- ▲ Aluminium



Collet chuck	80 720 ...	PG CT
	EUR	EUR
SK 30	030	464,00 63,25
SK 40	040	464,00 69,00
SK 50	050	260,00 78,20

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

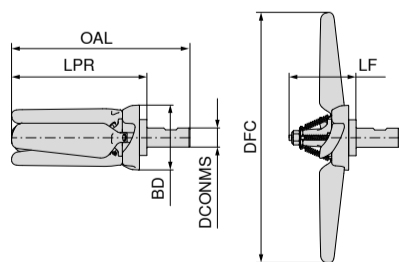


Countersink 90°, DIN 335-C	BD mm	OAL mm	82 689 ...	PG CX
			EUR	EUR
430 E / ER25	26	34	99900	253,50 134,55

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



IK central

80 399 ...	PG CT
EUR	EUR
02000	275,00 115,00

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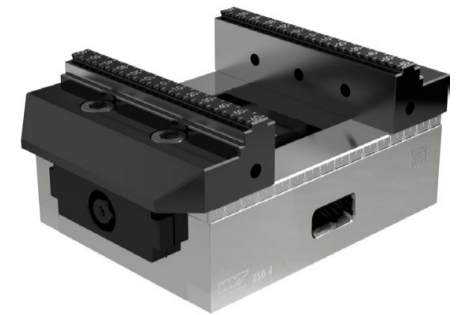
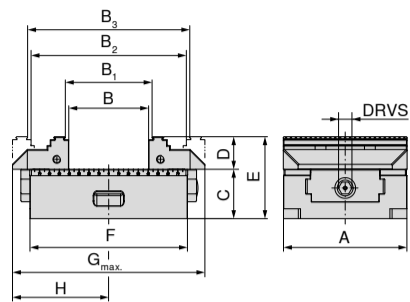
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CentriClamp – ZSG 4

- ▲ 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
EUR	EUR	EUR
08700	861,20	601,45
08800	985,30	687,70
15300	1.006,00	759,00

Base plate, round



80 899 ...	PG	CW
EUR	EUR	EUR
125	632,00	441,60

MNG indexing bolt



80 899 ...	PG	CW
EUR	EUR	EUR
51500	49,47	12,65

MNG pull studs



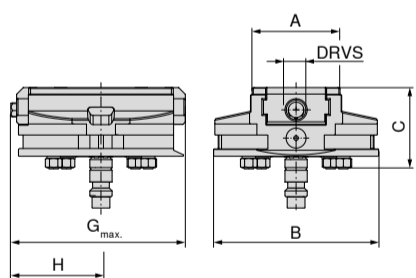
80 899 ...	PG	CW
EUR	EUR	EUR
025	53,87	37,95

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

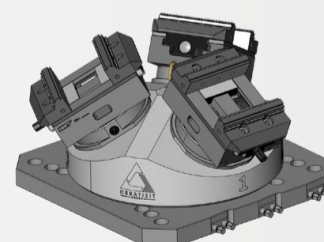
- ▲ Sealed centric vice for Erowa ITS 148
- ▲ Ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability

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
EUR	EUR	EUR
08900	1.510,00	1.058,00



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