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**Application engineers
with know-how**

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VALID: 01.12.2021 – 28.02.2022



WTX – Micro

**Specialists in micro tools
for universal application**

SPECIAL SELECTION

TEAM CUTTING TOOLS



CUTTING SOLUTIONS BY
CERATIZIT



KOMET



klenk

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

Tooling the Future

www.ceratizit.com

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WTX – Micro

Drill for use in micro dimensions.
Hole depths up to 30xD can be achieved
in the accustomed high WTX Performance
drilling quality.



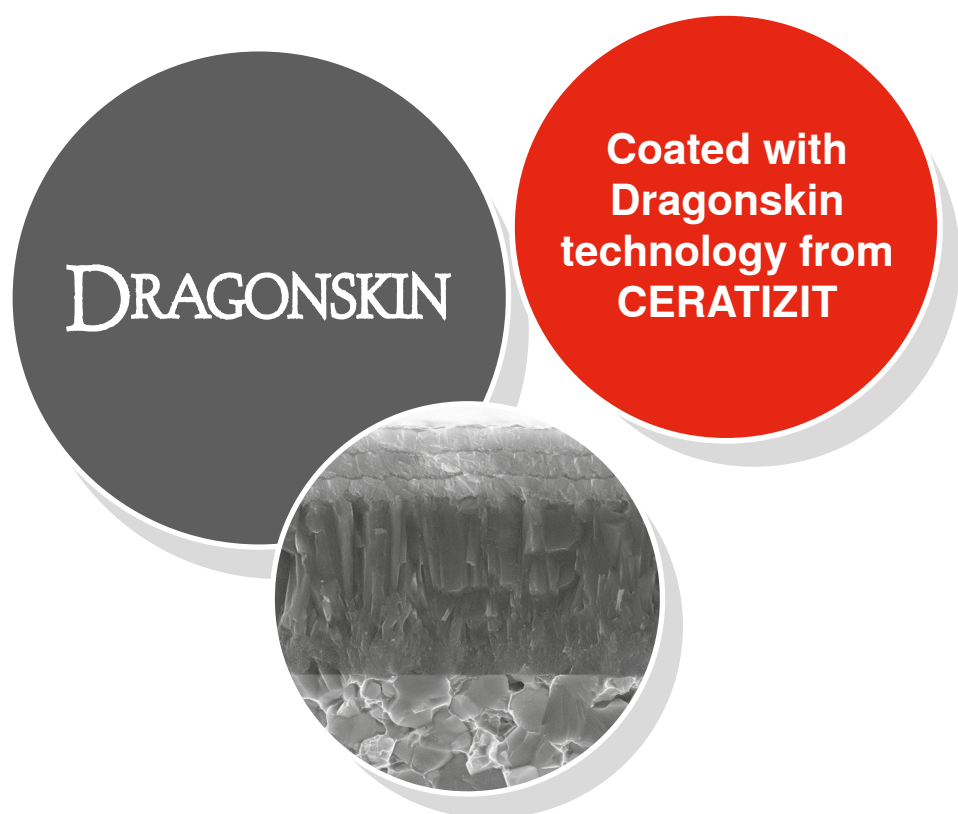
Specialists in micro tools for universal application

The new drill series from the CERATIZIT Group’s Team Cutting Tools might sound like a complete contradiction, but the WTX Micro from the WNT Performance range is both the specialist for micro and deep hole drilling and suitable for universal use – it is anything but choosy when it comes to materials. This means it can be used for many different applications in a diverse range of industries.

Reliable processes thanks to optimised geometry and tough coating

Advantage/benefit

- ▲ **Special drill point**
guarantees maximum positioning accuracy and outstanding centring properties
- ▲ **Lapped surfaces and patented chip space openings**
allow for rapid and reliable chip removal
- ▲ **Innovative Dragonskin DPX74-M**
makes the WTX Micro resistant to heat and wear
- ▲ **Spiral coolant holes and a Power chamber along the whole shank length**
ensure optimum cooling of the cutting edges, significantly extending tool life
- ▲ **Process security and tight tolerances**
are the priority in the performance specification - and the WTX Micro has been successfully engineered for this very purpose
- ▲ **Ultra-fine grain carbide from CERATIZIT**
ensures consistently outstanding tool quality



The WTX Micro drills are equipped with the innovative DPX74-M coating to make them even more resistant against wear and heat.

”

Whether it is steel, cast iron materials or heat-resistant materials/alloys, our WTX Micro can take on anything!

CERATIZIT Product Manager, Felix Meggle

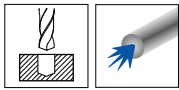


The WTX Micro comes in diameters ranging from 0.8 to 2.90 mm and lengths of 5xD, 8xD, 12xD, 16xD and 20xD. The WTX Micro deep hole drills are available in the 1.00 mm to 2.90 mm range in lengths of 25xD and 30xD.

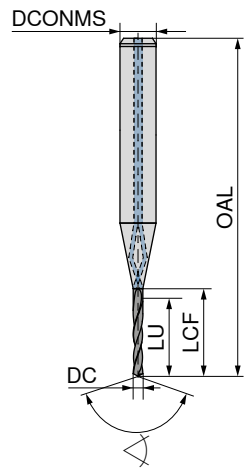


cuttingtools.ceratizit.com/ie/en/wtx-micro

WTX – High Performance Drills



WNT \ Performance



DC h6/m6	DCONMS h6	OAL	LCF	LU
mm	mm	mm	mm	mm
0,8	3	41	8,0	6,4
0,8	3	44	11,2	9,6
0,8	3	39	5,6	4,0
0,9	3	42	9,0	7,2
0,9	3	46	12,6	10,8
0,9	3	39	6,3	4,5
1,0	3	43	10,0	8,0
1,0	3	47	14,0	12,0
1,0	3	40	7,0	5,0
1,1	3	44	11,0	8,8
1,1	3	48	15,4	13,2
1,1	3	41	7,7	5,5
1,2	3	45	12,0	9,6
1,2	3	50	16,8	14,4
1,2	3	41	8,4	6,0
1,3	3	46	13,0	10,4
1,3	3	51	18,2	15,6
1,3	3	42	9,1	6,5
1,4	3	47	14,0	11,2
1,4	3	52	19,6	16,8
1,4	3	42	9,8	7,0
1,5	3	47	15,0	12,0
1,5	3	53	21,0	18,0
1,5	3	43	10,5	7,5
1,6	3	48	16,0	12,8
1,6	3	55	22,4	19,2
1,6	3	44	11,2	8,0
1,7	3	49	17,0	13,6
1,7	3	56	23,8	20,4
1,7	3	44	11,9	8,5
1,8	3	50	18,0	14,4
1,8	3	57	25,2	21,6
1,8	3	45	12,6	9,0
1,9	3	51	19,0	15,2
1,9	3	59	26,6	22,8
1,9	3	45	13,3	9,5
2,0	3	52	20,0	16,0
2,0	3	60	28,0	24,0
2,0	3	46	14,0	10,0
2,1	3	53	21,0	16,8
2,1	3	61	29,4	25,2
2,1	3	47	14,7	10,5
2,2	3	54	22,0	17,6
2,2	3	63	30,8	26,4
2,2	3	47	15,4	11,0
2,3	3	55	23,0	18,4
2,3	3	64	32,2	27,6
2,3	3	48	16,1	11,5
2,4	3	56	24,0	19,2
2,4	3	65	33,6	28,8
2,4	3	48	16,8	12,0
2,5	3	56	25,0	20,0
2,5	3	67	35,0	30,0
2,5	3	49	17,5	12,5
2,6	3	57	26,0	20,8
2,6	3	68	36,4	31,2
2,6	3	50	18,2	13,0
2,7	3	58	27,0	21,6
2,7	3	69	37,8	32,4
2,7	3	50	18,9	13,5
2,8	3	59	28,0	22,4
2,8	3	70	39,2	33,6
2,8	3	51	19,6	14,0
2,9	3	60	29,0	23,2
2,9	3	72	40,6	34,8
2,9	3	51	20,3	14,5

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

NEW
MICRO
DPX74M
≤ 5xD



HA 
135°
Solid carbide

10 693 ...

EUR

00800

84,48

00900

84,48

01000

75,00

01100

75,00

01200

75,00

01300

75,00

01400

75,00

01500

75,00

01600

78,95

01700

78,95

01800

78,95

01900

78,95

02000

78,95

02100

81,44

02200

81,44

02300

81,44

02400

81,44

02500

81,44

02600

85,68

02700

85,68

02800

85,68

02900

85,68

NEW
MICRO
DPX74M
≤ 8xD



HA 
128°
Solid carbide

10 694 ...

EUR

00800

88,64

00900

88,64

01000

79,10

01100

79,10

01200

79,10

01300

79,10

01400

79,10

01500

79,10

01600

85,12

01700

85,12

01800

85,12

01900

85,12

02000

85,12

02100

86,48

02200

86,48

02300

86,48

02400

86,48

02500

86,48

02600

89,20

02700

89,20

02800

89,20

02900

89,20

NEW
MICRO
DPX74M
≤ 12xD



HA 
128°
Solid carbide

10 695 ...

EUR

00800

98,72

00900

98,72

01000

89,20

01100

89,20

01200

89,20

01300

89,20

01400

89,20

01500

89,20

01600

93,92

01700

93,92

01800

93,92

01900

93,92

02000

93,92

02100

96,00

02200

96,00

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96,00

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96,00

02600

98,00

02700

98,00

02800

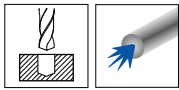
98,00

02900

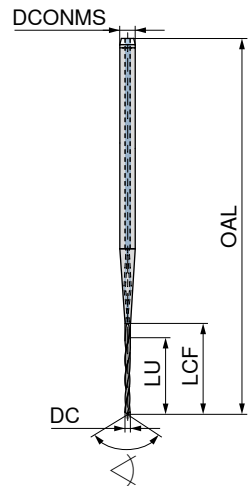
98,00



WTX – High performance deep hole drills



WNT \ Performance



DC _{h6} mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm
0,8	3	48	14,4	12,8
0,8	3	51	17,6	16,0
0,9	3	49	16,2	14,4
0,9	3	53	19,8	18,0
1,0	3	55	22,0	20,0
1,0	3	65	32,0	30,0
1,0	3	60	27,0	25,0
1,0	3	51	18,0	16,0
1,1	3	57	24,2	22,0
1,1	3	68	35,2	33,0
1,1	3	63	29,7	27,5
1,1	3	53	19,8	17,6
1,2	3	59	26,4	24,0
1,2	3	71	38,4	36,0
1,2	3	65	32,4	30,0
1,2	3	54	21,6	19,2
1,3	3	61	28,6	26,0
1,3	3	74	41,6	39,0
1,3	3	68	35,1	32,5
1,3	3	56	23,4	20,8
1,4	3	63	30,8	28,0
1,4	3	78	44,8	42,0
1,4	3	71	37,8	35,0
1,4	3	58	25,2	22,4
1,5	3	66	33,0	30,0
1,5	3	81	48,0	45,0
1,5	3	73	40,5	37,5
1,5	3	60	27,0	24,0
1,6	3	68	35,2	32,0
1,6	3	84	51,2	48,0
1,6	3	76	43,2	40,0
1,6	3	61	28,8	25,6
1,7	3	70	37,4	34,0
1,7	3	87	54,4	51,0
1,7	3	78	45,9	42,5
1,7	3	63	30,6	27,2
1,8	3	72	39,6	36,0
1,8	3	90	57,6	54,0
1,8	3	81	48,6	45,0
1,8	3	65	32,4	28,8
1,9	3	74	41,8	38,0
1,9	3	93	60,8	57,0
1,9	3	84	51,3	47,5
1,9	3	66	34,2	30,4
2,0	3	76	44,0	40,0
2,0	3	96	64,0	60,0
2,0	3	86	54,0	50,0
2,0	3	68	36,0	32,0
2,1	3	78	46,2	42,0
2,1	3	99	67,2	63,0
2,1	3	89	56,7	52,5
2,1	3	70	37,8	33,6
2,2	3	80	48,4	44,0
2,2	3	102	70,4	66,0
2,2	3	91	59,4	55,0
2,2	3	71	39,6	35,2
2,3	3	82	50,6	46,0
2,3	3	106	73,6	69,0
2,3	3	94	62,1	57,5
2,3	3	73	41,4	36,8
2,4	3	85	52,8	48,0
2,4	3	109	76,8	72,0
2,4	3	97	64,8	60,0
2,4	3	75	43,2	38,4
2,5	3	87	55,0	50,0
2,5	3	112	80,0	75,0
2,5	3	99	67,5	62,5
2,5	3	77	45,0	40,0
2,6	3	89	57,2	52,0
2,6	3	115	83,2	78,0
2,6	3	102	70,2	65,0
2,6	3	78	46,8	41,6
2,7	3	91	59,4	54,0
2,7	3	118	86,4	81,0
2,7	3	104	72,9	67,5
2,7	3	80	48,6	43,2
2,8	3	93	61,6	56,0
2,8	3	121	89,6	84,0
2,8	3	107	75,6	70,0
2,8	3	82	50,4	44,8
2,9	3	95	63,8	58,0
2,9	3	124	92,8	87,0
2,9	3	110	78,3	72,5
2,9	3	83	52,2	46,4

NEW

MICRO

DPX74M

≤ 16xD



HA

128°

Solid carbide

NEW

MICRO

DPX74M

≤ 20xD



HA

128°

Solid carbide

NEW

MICRO

DPX74M

≤ 25xD



HA

128°

Solid carbide

NEW

MICRO

DPX74M

≤ 30xD



HA

128°

Solid carbide

10 696 ...	EUR	10 697 ...	EUR	10 698 ...	EUR	10 699 ...	EUR
00800	125,52	00800	137,92				
00900	125,52	00900	137,92				
		01000	128,48			01000	157,36
01000	116,00			01000	142,16		
		01100	128,48			01100	157,36
01100	116,00			01100	142,16		
		01200	128,48			01200	157,36
01200	116,00			01200	142,16		
		01300	128,48			01300	157,36
01300	116,00			01300	142,16		
		01400	128,48			01400	157,36
01400	116,00			01400	142,16		
		01500	128,48			01500	157,36
01500	116,00			01500	142,16		
		01600	135,28			01600	165,76
01600	122,16			01600	149,68		
		01700	135,28			01700	165,76
01700	122,16			01700	149,68		
		01800	135,28			01800	165,76
01800	122,16			01800	149,68		
		01900	135,28			01900	165,76
01900	122,16			01900	149,68		
		02000	135,28			02000	165,76
02000	122,16			02000	149,68		
		02100	138,08			02100	169,28
02100	124,72			02100	152,88		
		02200	138,08			02200	169,28
02200	124,72			02200	152,88		
		02300	138,08			02300	169,28
02300	124,72			02300	152,88		
		02400	138,08			02400	169,28
02400	124,72			02400	152,88		
		02500	138,08			02500	169,28
02500	124,72			02500	152,88		
		02600	141,12			02600	172,88
02600	127,44			02600	156,16		
		02700	141,12			02700	172,88
02700	127,44			02700	156,16		
		02800	141,12			02800	172,88
02800	127,44			02800	156,16		
		02900	141,12			02900	172,88
02900	127,44			02900	156,16		

P	•	•	•	•
M	•	•	•	•
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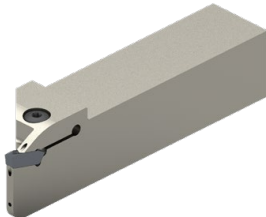
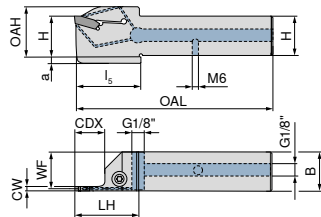
Order by 6:00 pm and get your
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Tool holders with DirectCooling (DC)

Targeted coolant application on the cutting edge

MonoClamp – Radial Monoholder GX-DC 16

CERATIZIT \ Performance

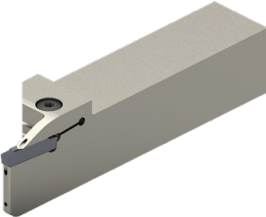
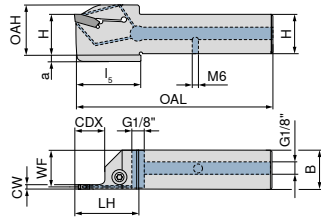


Designation	H mm	B mm	CW mm	WF mm	OAH mm	OAL mm	LH mm	l ₅ mm	a mm	CDX mm	for grooving inserts
E16 R/L 0013S2-1616X-S-DC-GX16	16	16	2	15,20	21	90	35	36	4	13	GX 16-1 E2..
E20 R/L 0013S2-2020X-S-DC-GX16	20	20	2	19,20	25	104	35			13	GX 16-1 E2..
E16 R/L 0013S3-1616X-S-DC-GX16	16	16	3	14,85	21	90	35	36	4	13	GX 16-2 E3..
E20 R/L 0013S3-2020X-S-DC-GX16	20	20	3	18,85	25	104	35			13	GX 16-2 E3..
E25 R/L 0013S3-2525X-S-DC-GX16	25	25	3	23,85	30	119	35			13	GX 16-2 E3..
E16 R/L 0013S4-1616X-S-DC-GX16	16	16	4	14,40	21	90	35	36	4	13	GX 16-3 E4..
E20 R/L 0013S4-2020X-S-DC-GX16	20	20	4	18,40	25	104	35			13	GX 16-3 E4..
E25 R/L 0013S4-2525X-S-DC-GX16	25	25	4	23,40	30	119	35			13	GX 16-3 E4..
E16 R/L 0013S5-1616X-S-DC-GX16	16	16	5	14,00	21	90	35	36	4	13	GX 16-3 E5..
E20 R/L 0013S5-2020X-S-DC-GX16	20	20	5	18,00	25	104	35			13	GX 16-3 E5..
E25 R/L 0013S5-2525X-S-DC-GX16	25	25	5	23,00	30	119	35			13	GX 16-3 E5..

NEW Left-hand		NEW Right-hand	
70 842 ...	EUR	70 842 ...	EUR
21601	136,62	21600	136,62
22001	157,32	22000	157,32
31601	136,62	31600	136,62
32001	157,32	32000	157,32
32501	167,31	32500	167,31
41601	136,62	41600	136,62
42001	157,32	42000	157,32
42501	167,31	42500	167,31
51601	136,62	51600	136,62
52001	157,32	52000	157,32
52501	167,31	52500	167,31

MonoClamp – Radial Monoholder GX-DC 24

CERATIZIT \ Performance

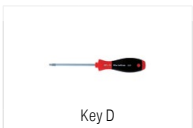


Designation	H mm	B mm	CW mm	WF mm	OAH mm	OAL mm	LH mm	l ₅ mm	a mm	CDX mm	for grooving inserts
E16 R/L 0021S2-1616X-S-DC-GX24	16	16	2	15,2	22	94	39	40	4	21	GX 24-1 E2..
E20 R/L 0021S2-2020X-S-DC-GX24	20	20	2	19,2	26	109	40			21	GX 24-1 E2..
E16 R/L 0021S3-1616X-S-DC-GX24	16	16	3	14,8	22	94	39	40	4	21	GX 24-2 E3..
E20 R/L 0021S3-2020X-S-DC-GX24	20	20	3	18,8	26	109	40			21	GX 24-2 E3..
E25 R/L 0021S3-2525X-S-DC-GX24	25	25	3	23,8	31	124	40			21	GX 24-2 E3..
E20 R/L 0021S4-2020X-S-DC-GX24	20	20	4	18,3	26	109	40			21	GX 24-3 E4..
E25 R/L 0021S4-2525X-S-DC-GX24	25	25	4	23,3	31	124	40			21	GX 24-3 E4..
E20 R/L 0021S5-2020X-S-DC-GX24	20	20	5	18,0	26	109	40			21	GX 24-3 E5..
E25 R/L 0021S5-2525X-S-DC-GX24	25	25	5	23,0	31	124	40			21	GX 24-3 E5..
E25 R/L 0021S6-2525X-S-DC-GX24	25	25	6	22,5	31	124	40			21	GX 24-4 E6..

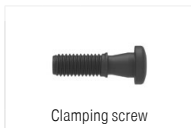
NEW Left-hand		NEW Right-hand	
70 844 ...	EUR	70 844 ...	EUR
21601	146,88	21600	146,88
22001	169,11	22000	169,11
31601	146,88	31600	146,88
32001	169,11	32000	169,11
32501	180,81	32500	180,81
42001	169,11	42000	169,11
42501	180,81	42500	180,81
52001	169,11	52000	169,11
52501	180,81	52500	180,81
62501	180,81	62500	180,81

Spare parts for grooving inserts

GX 24-1 E2..
GX 24-2 E3..
GX 24-3 E4..
GX 24-3 E5..
GX 24-4 E6..



Key D



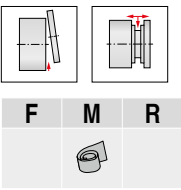
Clamping screw

EUR	80 950 ...	EUR	70 950 ...
11,03	128	9,02	865
11,03	128	9,02	865
11,03	128	9,02	865
11,03	128	9,02	865
11,03	128	9,02	865

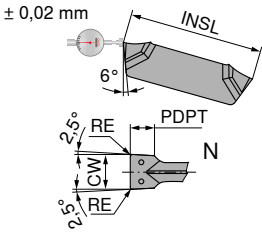


Insert GX 09/16 – Standard

▲ Suitable for parting thin-walled workpieces



CERATIZIT \ Performance



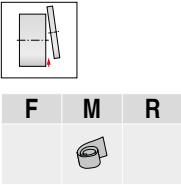
Designation	INSL mm	CW mm	RE mm	PDPT mm	for tool holder
GX 16-1 E2.00 N 0.20	16	2,0	0,2	2,5	GX 16-1
GX 16-1 E2.50 N 0.20	16	2,5	0,2	2,5	GX 16-1
GX 16-2 E3.00 N 0.30	16	3,0	0,3	3,0	GX 16-2
GX 16-2 E3.00 N 0.50	16	3,0	0,5	3,0	GX 16-2
GX 16-2 E3.50 N 0.30	16	3,5	0,3	3,0	GX 16-2
GX 16-3 E4.00 N 0.40	16	4,0	0,4	3,5	GX 16-3
GX 16-3 E4.00 N 0.60	16	4,0	0,6	3,5	GX 16-3
GX 16-3 E5.00 N 0.40	16	5,0	0,4	3,5	GX 16-3
GX 16-4 E6.00 N 0.50	16	6,0	0,5	4,0	GX 16-4
GX 16-4 E6.00 N 0.80	16	6,0	0,8	4,0	GX 16-4

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

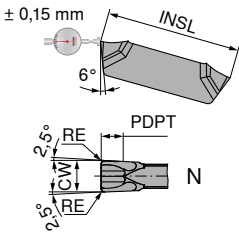
CTCP325	CTCP335	CTP1340
DRAGONSkin	DRAGONSkin	DRAGONSkin
70 350 ...	70 350 ...	70 350 ...
900	500	600
904	504	604
908	508	608
910		
912	512	612
916	516	616
918		
924	524	624
928		628
930		

Insert GX 16

▲ Very good swarf control



CERATIZIT \ Performance

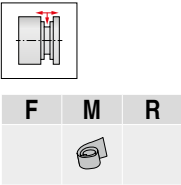


Designation	INSL mm	CW mm	RE mm	PDPT mm	for tool holder
GX 16-1 E2.00 N 0.20	16	2	0,2	2,0	GX 16-1
GX 16-2 E3.00 N 0.20	16	3	0,2	2,5	GX 16-2
GX 16-3 E4.00 N 0.30	16	4	0,3	3,0	GX 16-3

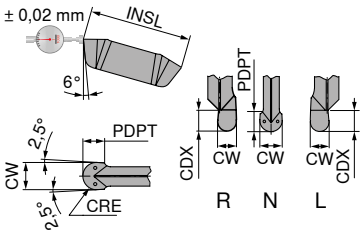
P	●	●	●
M	○	○	●
K	●	●	●
N			○
S	○	○	●
H			
O			○

-M1	-M1	-M1
CTCP325	CTPP345	CTP1340
DRAGONSkin	DRAGONSkin	DRAGONSkin
70 362 ...	70 362 ...	70 362 ...
902	800	600
904	802	602
		604

Radius groove insert GX 09/16 -Standard



CERATIZIT \ Performance



Designation	IH	INSL mm	CW mm	CRE mm	PDPT mm	CDX mm	for tool holder
GX 16-2 R0.80 L	L	16	1,6	0,8		1,78	R/L 03-GX 16-2
GX 16-2 R0.80 R	R	16	1,6	0,8		1,78	R/L 03-GX 16-2
GX 16-2 R1.00 L	L	16	2,0	1,0		2,18	R/L 03-GX 16-2
GX 16-2 R1.00 R	R	16	2,0	1,0		2,18	R/L 03-GX 16-2
GX 16-2 R1.20 L	L	16	2,4	1,2		2,58	R/L 03-GX 16-2
GX 16-2 R1.20 R	R	16	2,4	1,2		2,58	R/L 03-GX 16-2
GX 16-2 R1.50 N	N	16	3,0	1,5	1,5		GX 16-2
GX 16-3 R2.00 N	N	16	4,0	2,0	2,0		GX 16-3
GX 16-3 R2.50 N	N	16	5,0	2,5	2,5		GX 16-3
GX 16-4 R3.00 N	N	16	6,0	3,0	3,0		GX 16-4

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

CTP1340	CTCP325	CTCP325
DRAGONSkin	DRAGONSkin	DRAGONSkin
70 354 ...	70 354 ...	70 354 ...
		912
		900
		916
		904
		920
		908
624	924	
628	928	
632	932	
636	936	



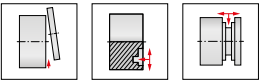
Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



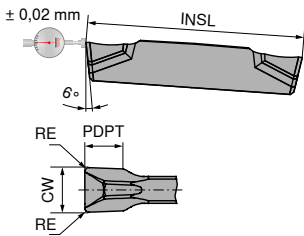
Order by 6:00 pm and get your
guaranteed free express delivery

Insert GX 24

- ▲ Insert with ground periphery
- ▲ Suitable also for parting off tubes and thin-walled workpieces



CERATIZIT \ Performance

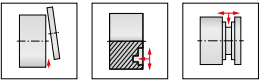


Designation	INSL mm	CW mm	RE mm	PDPT mm	for tool holder
GX 24-2 E3.00 N 0.30	24	3,0	0,3	2,5	GX 24-2
GX 24-2 E3.50 N 0.30	24	3,5	0,3	2,5	GX 24-2
GX 24-3 E4.00 N 0.40	24	4,0	0,4	3,0	GX 24-3
GX 24-3 E5.00 N 0.40	24	5,0	0,4	3,5	GX 24-3
GX 24-4 E6.00 N 0.50	24	6,0	0,5	4,0	GX 24-4

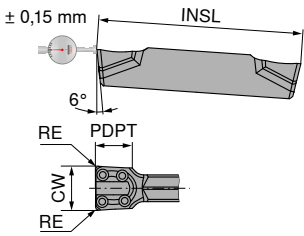
	-F2 CTCP325 DRAGONSKIN	-F2 CTPP345 DRAGONSKIN	-F2 CTP1340 DRAGONSKIN
70 350 ...	EUR	EUR	EUR
962	25,65	862	25,65
966	27,68	864	25,65
970	30,38	866	27,68
		870	30,38
		872	33,38
		662	25,65
		666	27,68
		671	30,38
		672	33,38

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

Insert GX 24



CERATIZIT \ Performance

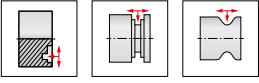


Designation	INSL mm	CW mm	RE mm	PDPT mm	for tool holder
GX 24-2 E3.00 N 0.30	24	3	0,3	2,5	GX 24-2
GX 24-3 E4.00 N 0.40	24	4	0,4	3,0	GX 24-3
GX 24-3 E5.00 N 0.40	24	5	0,4	3,0	GX 24-3
GX 24-4 E6.00 N 0.50	24	6	0,5	3,5	GX 24-4

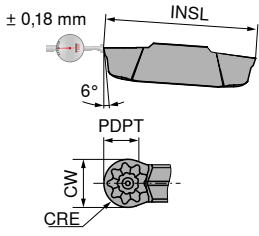
	-E CTCP325 DRAGONSKIN  <table><tr><td>70 350 ...</td><td>EUR</td></tr><tr><td>932</td><td>17,26</td></tr><tr><td>936</td><td>18,89</td></tr><tr><td>940</td><td>20,60</td></tr><tr><td>944</td><td>22,64</td></tr></table>	70 350 ...	EUR	932	17,26	936	18,89	940	20,60	944	22,64	-E CTCP335 DRAGONSKIN  <table><tr><td>70 350 ...</td><td>EUR</td></tr><tr><td>532</td><td>17,26</td></tr><tr><td>536</td><td>18,89</td></tr><tr><td>540</td><td>20,60</td></tr><tr><td>544</td><td>22,64</td></tr></table>	70 350 ...	EUR	532	17,26	536	18,89	540	20,60	544	22,64	-E CTPP345 DRAGONSKIN  <table><tr><td>70 350 ...</td><td>EUR</td></tr><tr><td>832</td><td>17,26</td></tr><tr><td>836</td><td>18,89</td></tr><tr><td>840</td><td>20,60</td></tr><tr><td>844</td><td>22,64</td></tr></table>	70 350 ...	EUR	832	17,26	836	18,89	840	20,60	844	22,64	-E CTP1340 DRAGONSKIN  <table><tr><td>70 350 ...</td><td>EUR</td></tr><tr><td>632</td><td>17,26</td></tr><tr><td>636</td><td>18,89</td></tr><tr><td>640</td><td>20,60</td></tr><tr><td>644</td><td>22,64</td></tr></table>	70 350 ...	EUR	632	17,26	636	18,89	640	20,60	644	22,64
70 350 ...	EUR																																											
932	17,26																																											
936	18,89																																											
940	20,60																																											
944	22,64																																											
70 350 ...	EUR																																											
532	17,26																																											
536	18,89																																											
540	20,60																																											
544	22,64																																											
70 350 ...	EUR																																											
832	17,26																																											
836	18,89																																											
840	20,60																																											
844	22,64																																											
70 350 ...	EUR																																											
632	17,26																																											
636	18,89																																											
640	20,60																																											
644	22,64																																											

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M	○	○	•	•
K	•	•	•	•
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H	•	•	•	•
O	•	•	•	○

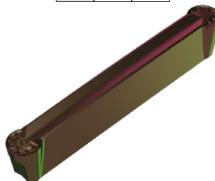
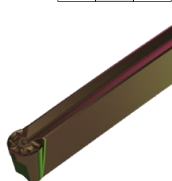
Radius groove insert GX 24



CERATIZIT \ Performance



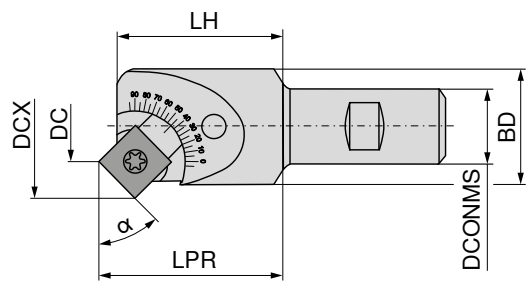
Designation	INSL mm	CW mm	CRE mm	PDPT mm	for tool holder
GX 24-3 R2.50 N	24,4	5	2,5	3,0	GX 24-3
GX 24-2 R1.50 N	24,4	3	1,5	1,5	GX 24-2
GX 24-3 R2.00 N	24,4	4	2,0	2,5	GX 24-3
GX 24-4 R3.00 N	24,4	6	3,0	4,0	GX 24-4

-M3 CTCP325 DRAGONSKIN  	-M3 CTCP335 DRAGONSKIN  																				
70 354 ... <table><tr><td></td><td>EUR</td></tr><tr><td>956</td><td>25,65</td></tr><tr><td>952</td><td>22,97</td></tr><tr><td>954</td><td>24,58</td></tr><tr><td>958</td><td>27,58</td></tr></table>		EUR	956	25,65	952	22,97	954	24,58	958	27,58	70 354 ... <table><tr><td></td><td>EUR</td></tr><tr><td>556</td><td>25,65</td></tr><tr><td>552</td><td>22,97</td></tr><tr><td>554</td><td>24,58</td></tr><tr><td>558</td><td>27,58</td></tr></table>		EUR	556	25,65	552	22,97	554	24,58	558	27,58
	EUR																				
956	25,65																				
952	22,97																				
954	24,58																				
958	27,58																				
	EUR																				
556	25,65																				
552	22,97																				
554	24,58																				
558	27,58																				

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



Adjustable single angle milling cutter C 4500



Designation	DCONMS mm	DC mm	DCX mm	LH mm	BD mm	LPR mm
C490.20.R.01	16.0	1.6–11.1	20.1–23.6	32.0	18.65	23.9–34.6
C490.26.R.01	20.0	1.1–14.1	26.6–31.5	37.0	25.00	38.2–40.6



50 690 ...	EUR
01600	110,00
02000	135,00

UltraMini – Set

- ▲ internal turning, grooving and chamfering



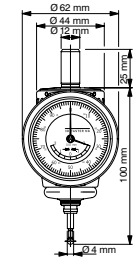
Set	73 085 ...	EUR
	999	260,00

Universal 3D-Tester HQ

- ▲ fast and accurate positioning at reference edges
- ▲ characterised by over travel safety
- ▲ accuracy 0,01 mm

Scope of supply

3D tester including tracer insert and Allen key



Universal 3D-Tester HQ	85 292 ...	EUR
	100	250,00

Zero height setting gauge



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

Assembly device for ISO adapters

- ▲ Aluminium



Collet chuck	80 720 ...	EUR
SK 30	030	63,00
SK 40	040	69,00
SK 50	050	75,00

Twist drill sets DIN 338 – Type N short



	Ø mm	10 158 ...	EUR
0.1 mm steps	1.0–5.9	050	40,00
0.1 mm steps	6.0–10	100	80,00

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

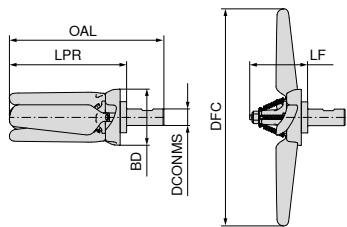


Set	30 100 ...	EUR
	999	35,00

Cleaning propeller

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

WNT \ Standard

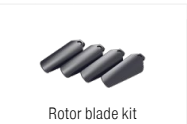


DCONMS mm	OAL mm	LPR mm	LF mm	DFC mm	BD mm	RPMX 1/min.	80 399 ...	EUR
20	186.3	141.3	69.75	254	67.68	5000 - 8000	02000	155,00

Spare parts
for Article no.
80 399 02000



EUR	80 399 ...
21,67	30100

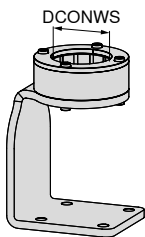


EUR	80 399 ...
83,75	30200

Assembly fixture for tool holders

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

WNT \ Standard



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



Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



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

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

	NC-A	UNI	WT	VX	UNI	VX	UNI
		TiN ≤ 3xD DIN 1897 	TiN ≤ 3xD DIN 1897 	TiN ≤ 3xD ≈DIN 1897 	TiN ≤ 5xD DIN 338 	TiN ≤ 5xD ≈DIN 338 	TiN ≤ 10xD DIN 340 
							
	WNT \ Performance	WNT \ Performance	WNT \ Performance	WNT \ Performance	WNT \ Performance	WNT \ Performance	WNT \ Performance
DC _{h8/h6} mm	10 520 ...	10 107 ...	10 110 ...	10 122 ...	10 171 ...	10 124 ...	10 270 ...
0,90					009 1) 3,07		
1,00		010 1) 4,89	010 4,80		010 1) 3,07		010 5,51
1,10		011 1) 4,89	011 5,01		011 1) 3,37		011 6,21
1,20		012 1) 5,02	012 4,68		012 1) 3,29		012 6,90
1,25					125 1) 3,37		
1,30		013 1) 5,27	013 5,01		013 1) 3,37		013 6,79
1,40		014 1) 4,82	014 5,01		014 1) 3,39		014 6,71
1,45					145 1) 3,19		
1,50		015 1) 4,55	015 4,68		015 1) 3,19		015 5,80
1,55					155 1) 3,19		
1,60		016 1) 4,76	016 4,53		016 1) 3,19		016 6,90
1,65					165 1) 3,43		
1,70		017 1) 4,82	017 4,46		017 1) 3,43		017 7,50
1,80		018 1) 4,76	018 4,59		018 1) 3,39		018 7,20
1,90		019 1) 4,76	019 4,59		019 1) 3,39		019 7,70
2,00		020 1) 3,99	020 3,89	020 9,28	020 1) 3,29	020 11,35	020 5,72
2,10		021 1) 4,89	021 4,39	021 10,21	021 1) 3,43	021 13,32	021 6,60
2,20		022 1) 4,89	022 4,80	022 11,13	022 1) 3,58	022 13,32	022 6,71
2,30		023 1) 4,14	023 4,80	023 11,13	023 1) 3,50	023 13,32	023 6,60
2,38		238 1) 4,50			238 1) 3,50		
2,40		024 1) 4,94	024 4,96	024 11,68	024 1) 3,29	024 13,32	024 6,12
2,50		025 1) 4,34	025 4,25	025 10,05	025 1) 3,37	025 13,32	025 5,80
2,55					255 1) 3,50		
2,60		026 1) 5,10	026 4,96	026 11,68	026 1) 3,50	026 13,32	026 6,71
2,70		027 1) 5,42	027 5,26	027 12,23	027 1) 3,70	027 13,32	027 7,11
2,78		278 1) 5,24			278 1) 4,50		
2,80		028 1) 5,02	028 5,26	028 12,23	028 1) 3,61	028 13,32	028 6,79
2,90		029 1) 5,35	029 5,26	029 12,23	029 1) 3,70	029 13,32	029 7,11
3,00	030 7,05	030 1) 4,50	030 4,48	030 11,13	030 1) 3,54	030 12,66	030 6,30
3,10		031 1) 4,82	031 5,16	031 11,13	031 1) 3,92	031 14,41	031 7,50
3,17		317 1) 4,76			317 1) 3,90		
3,20		032 1) 4,55	032 4,87	032 11,13	032 1) 3,75	032 14,41	032 7,00
3,25					325 1) 3,92		
3,30		033 1) 4,55	033 5,26	033 11,25	033 1) 3,81	033 14,41	033 7,41
3,40		034 1) 5,27	034 5,26	034 11,25	034 1) 4,21	034 14,41	034 7,70
3,50		035 1) 4,55	035 4,77	035 10,71	035 1) 4,26	035 14,41	035 7,50
3,57		357 1) 5,17			357 1) 4,26		
3,60		036 1) 6,06	036 5,26	036 11,57	036 1) 4,32	036 15,72	036 7,80
3,70		037 1) 5,24	037 5,67	037 12,11	037 1) 4,32	037 15,72	037 7,60
3,80		038 1) 5,58	038 5,39	038 11,79	038 1) 4,52	038 15,72	038 7,30
3,90		039 1) 6,33	039 5,67	039 12,11	039 1) 4,61	039 15,72	039 8,20
3,97		397 1) 5,67			397 1) 4,72		
4,00	040 7,16	040 1) 5,17	040 4,87	040 9,88	040 1) 4,44	040 15,72	040 8,00
4,10		041 1) 5,92	041 5,39	041 9,88	041 1) 4,52	041 18,78	041 8,11
4,20		042 1) 5,17	042 5,39	042 10,32	042 1) 4,52	042 19,54	042 7,80
4,25					425 1) 4,84		
4,30		043 1) 5,88	043 5,98	043 10,91	043 1) 4,84	043 18,78	043 8,69
4,37		437 1) 7,91			437 1) 4,90		
4,40		044 1) 6,33	044 6,14	044 12,23	044 1) 4,84	044 18,78	044 7,70
4,50		045 1) 5,88	045 5,08	045 9,98	045 1) 4,72	045 18,78	045 8,20
4,60		046 1) 5,92	046 6,68	046 13,10	046 1) 5,00	046 21,07	046 7,89
4,65		465 1) 6,79	465 6,79		465 1) 5,00	465 21,07	
4,70		047 1) 6,59	047 6,79	047 13,20	047 1) 6,06	047 21,07	047 9,08
4,76		476 1) 6,59			476 1) 5,10		
4,80		048 1) 6,71	048 6,76	048 13,20	048 1) 5,10	048 21,07	048 8,89
4,90		049 1) 6,77	049 6,76	049 13,20	049 1) 5,18	049 21,07	049 9,01
4,95					495 1) 5,04		
5,00	050 7,49	050 1) 5,67	050 5,50	050 11,13	050 1) 5,23	050 23,25	050 9,08
5,05					505 1) 5,23		
5,10		051 1) 6,27	051 6,96	051 13,20	051 1) 5,23	051 23,25	051 10,11
5,16		516 1) 7,46			516 1) 5,71		
5,20		052 1) 6,77	052 7,08	052 13,42	052 1) 5,38	052 23,25	052 9,90
5,30		053 1) 7,69	053 7,20	053 13,75	053 1) 5,71	053 24,57	053 10,91
5,40		054 1) 7,50	054 7,95	054 14,96	054 1) 6,97	054 24,57	054 11,90
5,50		055 1) 6,41	055 5,92	055 11,79	055 1) 6,00	055 23,25	055 9,50
5,55			555 7,70	555 14,96	555 1) 7,06	555 26,42	
5,56		556 1) 7,00			556 1) 7,06		
5,60		056 1) 7,69	056 7,70	056 14,96	056 1) 6,41	056 26,42	056 12,44
5,70		057 1) 8,18	057 7,70	057 14,96	057 1) 6,34	057 26,42	057 13,86
5,75					575 1) 6,34		
5,80		058 1) 7,88	058 7,70	058 14,96	058 1) 6,34	058 26,42	058 12,01
5,90		059 1) 8,64	059 7,93	059 14,96	059 1) 6,74	059 26,42	059 13,42
5,95		595 1) 13,20			595 1) 8,25		
6,00	060 7,67	060 1) 6,89	060 6,21	060 12,33	060 1) 6,10	060 25,21	060 11,46
6,10		061 1) 8,12	061 9,95	061 19,21	061 1) 6,88	061 30,34	061 13,65
6,20		062 1) 8,12	062 10,25	062 19,21	062 1) 6,78	062 30,34	062 12,11
6,30		063 1) 9,27	063 10,44	063 23,36	063 1) 7,51	063 30,34	063 13,65
6,35		635 1) 8,54			635 1) 7,93		
6,40		064 1) 8,61	064 10,50	064 19,76	064 1) 7,95	064 30,34	064 12,33
6,50		065 1) 8,12	065 7,78	065 14,63	065 1) 7,33	065 30,34	065 11,79
6,60		066 1) 8,96	066 10,48	066 23,68	066 1) 8,04	066 31,98	066 13,75
6,70		067 1) 9,82	067 10,65	067 23,68	067 1) 8,02	067 31,98	067 14,09
6,75		675 1) 12,01			675 1) 10,84		
6,80		068 1) 9,87	068 11,35	068 25,43	068 1) 8,25	068 31,98	068 14,96
6,90		069 1) 9,72	069 11,35	069 25,76	069 1) 8,39	069 31,98	069 15,60
7,00		070 1) 9,06	070 9,31	070 19,44	070 1) 8,25	070 31,98	070 14,19
7,10		071 1) 11,02	071 12,56	071 28,60	071 1) 9,49	071 33,19	071 13,75
7,14		714 1) 14,51			714 1) 14,19		
7,20		072 1) 11,35	072 12,56	072 28,49	072 1) 9,46	072 33,19	072 15,60
P	●	●	●	●	●	●	●
M	○	●	●	●	●	●	●
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H			○				
Q		○		○	○	○	○

1) self-centering

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



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

	NC-A	UNI	WT	VX	UNI	VX	UNI
							
		TiN	TiN	TiN	TiN	TiN	TiN
		≤ 3xD	≤ 3xD	≤ 3xD	≤ 5xD	≤ 5xD	≤ 10xD
		DIN 1897	DIN 1897	≈DIN 1897	DIN 338	≈DIN 338	DIN 340
							
	WNT \ Performance	WNT \ Performance	WNT \ Performance	WNT \ Performance	WNT \ Performance	WNT \ Performance	WNT \ Performance
DC _{h8/h6} mm	10 520 ...	10 107 ...	10 110 ...	10 122 ...	10 171 ...	10 124 ...	10 270 ...
7,30		073 1) 12,11	073 12,66	073 28,49	073 1) 9,82	073 33,19	073 16,26
7,40		074 1) 11,46	074 12,66	074 28,60	074 1) 9,60	074 33,19	074 16,91
7,45				745 28,60	745 1) 8,74		
7,50		075 1) 9,45	075 9,74	075 20,53	075 1) 8,74		
7,55						075 33,19	075 17,14
7,60		076 1) 14,74	076 14,09	076 28,71	076 1) 10,61	755 34,71	
7,70		077 1) 15,94	077 14,09	077 31,98	077 1) 12,11	076 34,71	076 18,45
7,80		078 1) 12,23	078 14,19	078 31,98	078 1) 10,35	077 34,71	077 17,58
7,90		079 1) 17,04	079 14,19	079 31,98	079 1) 12,33	078 34,71	078 19,21
7,94		794 1) 11,68			794 1) 11,13	079 34,71	079 18,55
8,00	080 12,88	080 1) 11,35	080 10,12	080 21,07	080 1) 9,86	080 34,71	080 15,72
8,10		081 1) 14,41	081 14,30	081 35,14	081 1) 10,77	081 37,87	081 17,24
8,20		082 1) 14,96	082 14,30	082 35,14	082 1) 10,61	082 37,87	082 18,89
8,30		083 1) 15,72	083 14,51	083 35,14	083 1) 11,79	083 37,87	083 20,09
8,40		084 1) 15,17	084 14,51	084 35,14	084 1) 11,79	084 37,87	084 21,50
8,50		085 1) 13,20	085 12,11	085 23,79	085 1) 10,15	085 39,41	085 18,45
8,60		086 1) 14,74	086 14,84	086 36,68	086 1) 17,79	086 35,14	086 18,45
8,70		087 1) 16,91	087 14,84	087 36,68	087 1) 17,79	087 35,14	087 18,55
8,73		873 1) 20,73			873 1) 10,92		
8,80		088 1) 16,38	088 14,96	088 36,68	088 1) 11,79	088 35,14	088 18,89
8,90		089 1) 20,95	089 15,72	089 36,68	089 1) 16,49	089 35,14	089 19,10
9,00		090 1) 13,42	090 12,23	090 26,20	090 1) 11,13	090 35,14	090 19,32
9,10		091 1) 17,69	091 19,44	091 45,07	091 1) 18,33	091 37,99	091 19,32
9,20		092 1) 17,79	092 19,44	092 45,07	092 1) 18,33	092 37,99	092 19,32
9,30		093 1) 15,17	093 19,44	093 45,07	093 1) 12,88	093 37,99	093 19,32
9,35				935 45,07	935 1) 11,68		
9,40		094 1) 20,63	094 19,44	094 45,07	094 1) 18,78	094 37,99	094 19,32
9,50		095 1) 14,74	095 16,05	095 31,44	095 1) 11,68	095 37,99	095 19,32
9,55					955 41,70		
9,60		096 1) 21,62	096 20,19	096 33,95	096 1) 13,97	096 41,70	096 20,53
9,70		097 1) 20,95	097 20,19	097 33,95	097 1) 20,19	097 41,70	097 21,50
9,80		098 1) 17,69	098 21,62	098 33,95	098 1) 13,97	098 41,70	098 23,03
9,90		099 1) 22,38	099 21,62	099 33,95	099 1) 16,59	099 41,70	099 25,00
10,00	100 14,30	100 1) 14,51	100 14,96	100 30,12	100 1) 13,20	100 41,70	100 27,07
10,10		101 1) 21,62		101 47,37	101 1) 18,89	101 51,63	101 29,69
10,20		102 1) 18,45	102 20,95	102 44,42	102 1) 15,29	102 51,63	102 31,55
10,30		103 1) 20,09		103 46,06	103 1) 16,49	103 51,63	103 34,17
10,40		104 1) 23,47		104 49,01	104 1) 20,41	104 51,63	104 34,17
10,50		105 1) 17,58	105 19,98	105 43,33	105 1) 15,39	105 51,63	105 34,60
10,55					955 1) 15,94		
10,60				106 52,61		106 56,66	
10,70				107 48,03		107 56,66	
10,80			108 44,87	108 46,16		108 56,66	
10,90				109 67,78		109 56,66	
11,00		110 1) 19,21	110 19,98	110 43,33	110 1) 15,94	110 48,57	110 41,16
11,10				111 43,01		111 52,28	
11,11		111 1) 22,81			111 1) 19,98		
11,20					112 1) 17,69	112 52,28	
11,30					113 1) 17,69	113 52,28	
11,40					114 1) 17,69	114 52,28	
11,50		115 1) 22,48	115 21,18	115 45,07	115 1) 17,69	115 52,28	115 41,58
11,60					116 1) 18,89	116 56,43	
11,70				117 51,52		117 56,43	
11,80			118 25,21	118 54,03		118 56,43	
11,90				119 67,90		119 56,43	
12,00	120 20,73	120 1) 21,94	120 24,57	120 51,95	120 1) 18,89	120 56,43	120 42,02
12,10				121 38,32		121 64,29	
12,15					121 1) 19,64		
12,20				122 57,08		122 64,29	
12,30		123 1) 36,58	123 37,54	123 70,18	123 1) 33,84	123 64,29	
12,40				124 83,62		124 64,29	
12,50		125 1) 23,91	125 25,21	125 54,36	925 1) 19,64	125 64,29	125 46,06
12,60				126 110,20		126 68,00	
12,70		127 1) 30,34		127 120,10	127 1) 25,66	127 68,00	
12,80			128 47,60	128 56,98		128 68,00	
12,90				129 84,05		129 68,00	
13,00		130 1) 23,91	130 25,87	130 58,40	130 1) 20,85	130 75,53	130 50,10
13,10					131 1) 37,12		
13,30					133 1) 37,12		
13,50		135 1) 25,53	135 28,16	135 86,23	135 1) 37,12	135 97,58	135 50,97
13,80			138 29,91				
14,00		140 1) 31,87	140 29,25	140 86,23	140 1) 25,33	140 97,58	140 53,05
14,50			145 29,80	145 110,20		145 125,60	
15,00			150 30,79	150 103,90		150 117,90	
15,50			155 40,27	155 113,50		155 127,70	
15,75			157 42,13				
16,00	160 27,17		160 39,73	160 108,80		160 123,40	
16,50			165 59,61	165 169,20		165 189,90	
17,00			170 57,53	170 169,20		170 189,90	
17,50			175 55,01	175 169,20		175 189,90	
17,75			177 66,80				
18,00			180 62,87	180 169,20		180 189,90	
18,50			185 71,06	185 169,20		185 189,90	
19,00			190 69,32	190 169,20		190 189,90	
19,50			195 77,83	195 169,20		195 189,90	
19,75			197 79,25				
20,00	200 43,76		200 74,22	200 149,60		200 170,40	
P	●	●	●	●	●	●	●
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K	●	●	●	●	●	●	●
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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



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

High Performance Drill, factory standard

	UNI 	UNI 	UNI 	UNI 	UNI 	UNI 
	TiAIN	TiAIN	TiAIN	TiAIN	TiAIN	TiAIN
	≤ 3xD	≤ 3xD	≤ 5xD	≤ 5xD	≤ 8xD	≤ 12xD
	DIN 6537	DIN 6537	DIN 6537	DIN 6537	DIN 6537	DIN 6537
						
	HA	HB	HA	HB	HA	HA
	WNT \ Standard	WNT \ Standard	WNT \ Standard	WNT \ Standard	WNT \ Standard	WNT \ Standard
DC _{H7} mm	11 700 ...	11 701 ...	11 702 ...	11 703 ...	11 704 ...	11 705 ...
1,00	01000 31,93		01000 37,22			
1,10	01100 31,93		01100 37,22			
1,20	01200 31,93		01200 37,22			
1,30	01300 31,93		01300 37,22			
1,40	01400 31,93		01400 37,22			
1,50	01500 31,93		01500 37,22			
1,60	01600 31,93		01600 37,22			
1,70	01700 31,93		01700 37,22			
1,80	01800 31,93		01800 37,22			
1,90	01900 31,93		01900 37,22			
2,00	02000 31,93		02000 37,22			
2,10	02100 31,93		02100 37,22			
2,20	02200 31,93		02200 37,22			
2,30	02300 31,93		02300 37,22			
2,40	02400 31,93		02400 37,22			
2,50	02500 31,93		02500 37,22			
2,60	02600 31,93		02600 37,22			
2,70	02700 31,93		02700 37,22			
2,80	02800 31,93		02800 37,22			
2,90	02900 31,93		02900 37,22			
3,00	03000 27,79	03000 27,79	03000 36,62	03000 36,62	03000 72,86	03000 97,95
3,10	03100 27,79	03100 27,79	03100 36,62	03100 36,62	03100 72,86	03100 97,95
3,20	03200 27,79	03200 27,79	03200 36,62	03200 36,62	03200 72,86	03200 97,95
3,25	03250 27,79	03250 27,79	03250 36,62	03250 36,62		
3,30	03300 27,79	03300 27,79	03300 36,62	03300 36,62	03300 72,86	03300 97,95
3,40	03400 27,79	03400 27,79	03400 36,62	03400 36,62	03400 72,86	03400 97,95
3,50	03500 27,79	03500 27,79	03500 36,62	03500 36,62	03500 72,86	03500 97,95
3,60	03600 27,79	03600 27,79	03600 36,62	03600 36,62	03600 72,86	03600 97,95
3,70	03700 27,79	03700 27,79	03700 36,62	03700 36,62	03700 72,86	03700 97,95
3,80	03800 27,79	03800 27,79	03800 36,62	03800 36,62	03800 72,86	03800 97,95
3,85			03850 36,62	03850 36,62		
3,90	03900 27,79	03900 27,79	03900 36,62	03900 36,62	03900 72,86	03900 97,95
4,00	04000 27,79	04000 27,79	04000 36,62	04000 36,62	04000 72,86	04000 97,95
4,10	04100 27,79	04100 27,79	04100 36,62	04100 36,62	04100 72,86	04100 97,95
4,20	04200 27,79	04200 27,79	04200 36,62	04200 36,62	04200 72,86	04200 97,95
4,30	04300 27,79	04300 27,79	04300 36,62	04300 36,62	04300 72,86	04300 97,95
4,40	04400 27,79	04400 27,79	04400 36,62	04400 36,62	04400 72,86	04400 97,95
4,50	04500 27,79	04500 27,79	04500 36,62	04500 36,62	04500 72,86	04500 97,95
4,60	04600 27,79	04600 27,79	04600 36,62	04600 36,62	04600 72,86	04600 97,95
4,65	04650 27,79	04650 27,79	04650 36,62	04650 36,62		
4,70	04700 27,79	04700 27,79	04700 36,62	04700 36,62	04700 72,86	04700 97,95
4,80	04800 27,79	04800 27,79	04800 36,62	04800 36,62	04800 72,86	04800 97,95
4,90	04900 27,79	04900 27,79	04900 36,62	04900 36,62	04900 72,86	04900 97,95
5,00	05000 27,79	05000 27,79	05000 36,62	05000 36,62	05000 72,86	05000 97,95
5,10	05100 27,79	05100 27,79	05100 36,62	05100 36,62	05100 72,86	05100 97,95
5,20	05200 27,79	05200 27,79	05200 36,62	05200 36,62	05200 72,86	05200 97,95
5,30	05300 27,79	05300 27,79	05300 36,62	05300 36,62	05300 72,86	05300 97,95
5,40	05400 27,79	05400 27,79	05400 36,62	05400 36,62	05400 72,86	05400 97,95
5,50	05500 27,79	05500 27,79	05500 36,62	05500 36,62	05500 72,86	05500 97,95
5,55	05550 27,79	05550 27,79	05550 36,62	05550 36,62		
5,60	05600 27,79	05600 27,79	05600 36,62	05600 36,62	05600 72,86	05600 97,95
5,65	05650 27,79	05650 27,79	05650 36,62	05650 36,62		
5,70	05700 27,79	05700 27,79	05700 36,62	05700 36,62	05700 72,86	05700 97,95
5,80	05800 27,79	05800 27,79	05800 36,62	05800 36,62	05800 72,86	05800 97,95
5,90	05900 27,79	05900 27,79	05900 36,62	05900 36,62	05900 72,86	05900 97,95
6,00	06000 27,79	06000 27,79	06000 36,62	06000 36,63	06000 72,86	06000 97,95
6,10	06100 37,95	06100 37,95			06100 89,82	06100 108,70
6,20	06200 37,95	06200 37,95	06200 42,07	06200 42,07	06200 89,82	06200 108,70
6,30	06300 37,95	06300 37,95	06300 42,07	06300 42,07	06300 89,82	06300 108,70
6,40	06400 37,95	06400 37,95	06400 42,07	06400 42,07	06400 89,82	06400 108,70
6,50	06500 37,95	06500 37,95	06500 42,07	06500 42,07	06500 89,82	06500 108,70
6,60	06600 37,95	06600 37,95	06600 42,07	06600 42,07	06600 89,82	06600 108,70
6,70	06700 37,95	06700 37,95	06700 42,07	06700 42,07	06700 89,82	06700 108,70
6,80	06800 37,95	06800 37,95	06800 42,07	06800 42,07	06800 89,82	06800 108,70
6,90	06900 37,95	06900 37,95	06900 42,07	06900 42,07	06900 89,82	06900 108,70
7,00	07000 37,95	07000 37,95	07000 42,07	07000 42,07	07000 89,82	07000 108,70
7,10	07100 37,95	07100 37,95	07100 42,07	07100 42,07	07100 89,82	07100 108,70
7,20	07200 37,95	07200 37,95	07200 42,07	07200 42,07	07200 89,82	07200 108,70
7,30	07300 37,95	07300 37,95	07300 42,07	07300 42,07	07300 89,82	07300 108,70
7,40	07400 37,95	07400 37,95	07400 42,07	07400 42,07	07400 89,82	07400 108,70
7,50	07500 37,95	07500 37,95	07500 42,07	07500 42,07	07500 89,82	07500 108,70
7,55	07550 37,95	07550 37,95	07550 42,07	07550 42,07		
7,60	07600 37,95	07600 37,95	07600 42,07	07600 42,07	07600 89,82	07600 108,70
7,65	07650 37,95	07650 37,95	07650 42,07	07650 42,07		
7,70	07700 37,95	07700 37,95	07700 42,07	07700 42,07	07700 89,82	07700 108,70
7,80	07800 37,95	07800 37,95	07800 42,07	07800 42,07	07800 89,82	07800 108,70
7,90	07900 37,95	07900 37,95				

High Performance Drill, factory standard

		UNI 		UNI 		UNI 		UNI 		UNI 		UNI 	
		TiAIN		TiAIN		TiAIN		TiAIN		TiAIN		TiAIN	
		≤ 3xD		≤ 3xD		≤ 5xD		≤ 5xD		≤ 8xD		≤ 12xD	
		DIN 6537		DIN 6537		DIN 6537		DIN 6537		DIN 6537		DIN 6537	
													
		HA 		HB 		HA 		HB 		HA 		HA 	
		WNT \ Standard		WNT \ Standard		WNT \ Standard		WNT \ Standard		WNT \ Standard		WNT \ Standard	
		11 700 ...		11 701 ...		11 702 ...		11 703 ...		11 704 ...		11 705 ...	
		EUR		EUR		EUR		EUR		EUR		EUR	
DC _{H7}		09600	43,01	09600	43,01	09600	48,12	09600	48,12	09600	110,70	09600	152,90
9,60		09700	43,01	09700	43,01	09700	48,12	09700	48,12	09700	110,70	09700	152,90
9,70		09800	43,01	09800	43,01	09800	48,12	09800	48,12	09800	110,70	09800	152,90
9,80		09900	43,01	09900	43,01	09900	48,12	09900	48,12	09900	110,70	09900	152,90
9,90		10000	43,01	10000	43,01	10000	48,12	10000	48,12	10000	110,70	10000	152,90
10,00		10100	62,00	10100	62,00	10100	71,57	10100	71,57				
10,10		10200	62,00	10200	62,00	10200	71,57	10200	71,57	10200	147,00	10200	210,60
10,20		10300	62,00	10300	62,00	10300	71,57	10300	71,57				
10,30		10400	62,00	10400	62,00	10400	71,57	10400	71,57				
10,40		10500	62,00	10500	62,00	10500	71,57	10500	71,57	10500	147,00	10500	210,60
10,50		10600	62,00	10600	62,00	10600	71,57	10600	71,57				
10,60		10700	62,00	10700	62,00	10700	71,57	10700	71,57				
10,70		10800	62,00	10800	62,00	10800	71,57	10800	71,57	10800	147,00	10800	210,60
10,80		10900	62,00	10900	62,00	10900	71,57	10900	71,57				
10,90		11000	62,00	11000	62,00	11000	71,57	11000	71,57	11000	147,00	11000	210,60
11,00		11100	62,00	11100	62,00	11100	71,57	11100	71,57				
11,10		11200	62,00	11200	62,00	11200	71,57	11200	71,57				
11,20		11300	62,00	11300	62,00	11300	71,57	11300	71,57				
11,30		11400	62,00	11400	62,00	11400	71,57	11400	71,57				
11,40		11500	62,00	11500	62,00	11500	71,57	11500	71,57	11500	147,00	11500	210,60
11,50		11600	62,00	11600	62,00	11600	71,57	11600	71,57				
11,60		11700	62,00	11700	62,00	11700	71,57	11700	71,57				
11,70		11800	62,00	11800	62,00	11800	71,57	11800	71,57	11800	147,00	11800	210,60
11,80		11900	62,00	11900	62,00	11900	71,57	11900	71,57				
11,90		12000	62,00	12000	62,00	12000	71,57	12000	71,57	12000	147,00	12000	210,60
12,00						12100	91,26	12100	91,26				
12,10		12200	83,04	12200	83,04	12200	91,26	12200	91,26	12200	220,40		
12,20		12300	83,04	12300	83,04								
12,30						12400	91,26	12400	91,26				
12,40		12500	83,04	12500	83,04	12500	91,26	12500	91,26	12500	220,40	12500	271,30
12,50						12600	91,26	12600	91,26				
12,60													
12,70		12700	83,04	12700	83,04	12800	91,26	12800	91,26			12700	271,30
12,80		12800	83,04	12800	83,04							12800	271,30
12,90		12900	83,04	12900	83,04								
13,00		13000	83,04	13000	83,04	13000	91,26	13000	91,26	13000	220,40	13000	271,30
13,10						13100	91,26	13100	91,26				
13,20						13200	91,26	13200	91,26				
13,30						13300	91,26	13300	91,26				
13,50		13500	83,04	13500	83,04	13500	91,26	13500	91,26	13500	220,40	13500	271,30
13,80		13800	83,04	13800	83,04	13800	91,26	13800	91,26			13800	271,30
14,00		14000	83,04	14000	83,04	14000	91,26	14000	91,26	14000	220,40	14000	271,30
14,20		14200	107,20	14200	107,20	14200	117,10	14200	117,10				
14,30						14300	117,10	14300	117,10				
14,40		14400	107,20	14400	107,20	14400	117,10	14400	117,10				
14,50		14500	107,20	14500	107,20	14500	117,10	14500	117,10	14500	288,00	14500	357,50
14,80		14800	107,20	14800	107,20	14800	117,10	14800	117,10			14800	357,50
15,00		15000	107,20	15000	107,20	15000	117,10	15000	117,10	15000	288,00	15000	357,50
15,10		15100	107,20	15100	107,20	15100	117,10	15100	117,10				
15,20		15200	107,20	15200	107,20	15200	117,10	15200	117,10				
15,25						15250	117,10	15250	117,10				
15,30						15300	117,10	15300	117,10				
15,50		15500	107,20	15500	107,20	15500	117,10	15500	117,10	15500	288,00	15500	357,50
15,80		15800	107,20	15800	107,20	15800	117,10	15800	117,10			15800	357,50
16,00		16000	107,20	16000	107,20	16000	117,10	16000	117,10	16000	288,00	16000	357,50
16,20						16200	181,10	16200	181,10				
16,30						16300	181,10	16300	181,10				
16,50		16500	162,70	16500	162,70	16500	181,10	16500	181,10	16500	373,10	16500	427,00
16,80						16800	181,10	16800	181,10				
17,00		17000	162,70	17000	162,70	17000	181,10	17000	181,10	17000	373,10	17000	427,00
17,30						17300	181,10	17300	181,10				
17,50		17500	162,70	17500	162,70	17500	181,10	17500	181,10	17500	373,10	17500	427,00
18,00		18000	162,70	18000	162,70	18000	181,10	18000	181,10	18000	373,10	18000	427,00
18,50		18500	179,30	18500	179,30	18500	196,90	18500	196,90	18500	415,40	18500	427,00
18,90		18900	179,30	18900	179,30	18900	196,90	18900	196,90				
19,00		19000	179,30	19000	179,30	19000	196,90	19000	196,90	19000	415,40	19000	427,00
19,20						19200	196,90	19200	196,90				
19,30		19300	179,30	19300	179,30	19300	196,90	19300	196,90				
19,50		19500	179,30	19500	179,30	19500	196,90	19500	196,90	19500	415,40	19500	427,00
19,70						19700	196,90	19700	196,90				
20,00		20000	179,30	20000	179,30	20000	196,90	20000	196,90	20000	415,40	20000	427,00
P		•		•		•		•		•		•	
M		•		•		•		•		•		•	
K		•		•		•		•		•		•	
N		○		○		○		○					
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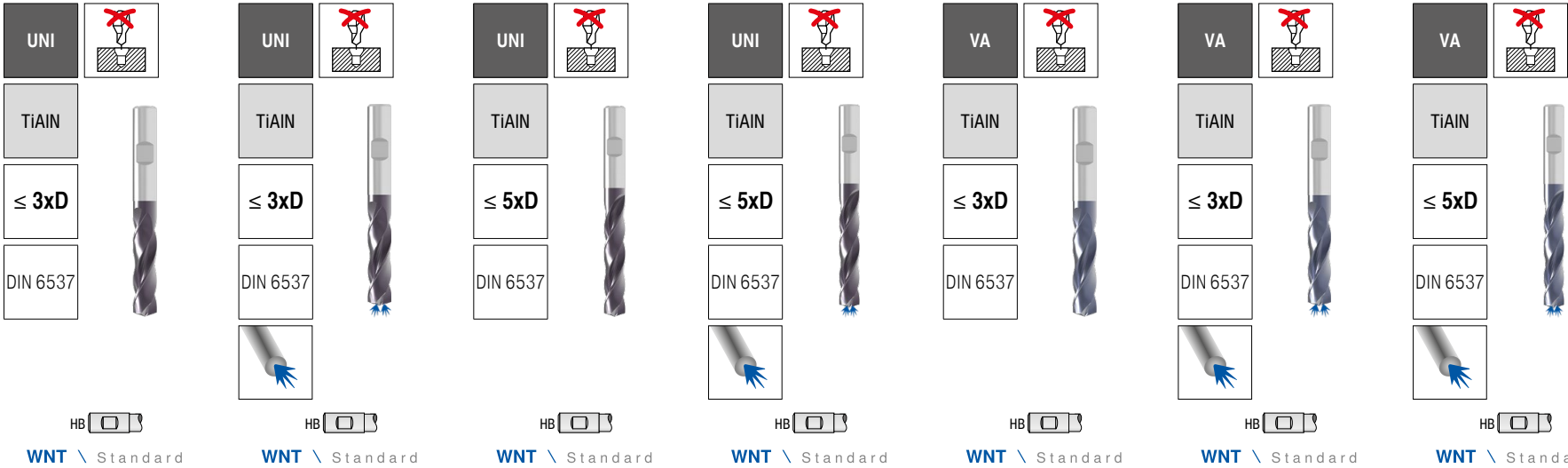


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WPC – High Performance Drill, DIN 6537

UNI		UNI		UNI		UNI		VA		VA		VA		
TiAIN		TiAIN		TiAIN		TiAIN		TiAIN		TiAIN		TiAIN		
≤ 3xD		≤ 3xD		≤ 5xD		≤ 5xD		≤ 3xD		≤ 3xD		≤ 5xD		
DIN 6537		DIN 6537		DIN 6537		DIN 6537		DIN 6537		DIN 6537		DIN 6537		
HB		HB		HB		HB		HB		HB		HB		
WNT \ Standard		WNT \ Standard		WNT \ Standard		WNT \ Standard		WNT \ Standard		WNT \ Standard		WNT \ Standard		
DC _{m7} mm	11 601 ...	EUR	11 604 ...	EUR	11 607 ...	EUR	11 610 ...	EUR	11 621 ...	EUR	11 624 ...	EUR	11 630 ...	EUR
2,00	020	25,11							020	25,11				
2,10	021	25,11							021	25,11				
2,20	022	25,11							022	25,11				
2,30	023	25,11							023	25,11				
2,40	024	25,11							024	25,11				
2,50	025	25,11							025	25,11				
2,60	026	25,11							026	25,11				
2,70	027	25,11							027	25,11				
2,80	028	25,11							028	25,11				
2,90	029	25,11							029	25,11				
3,00	030	24,31	030	31,71	030	29,04	030	43,28	030	24,31	030	31,71	030	43,28
3,10	031	24,31	031	31,71	031	29,04	031	43,28	031	24,31	031	31,71	031	43,28
3,20	032	24,31	032	31,71	032	29,04	032	43,28	032	24,31	032	31,71	032	43,28
3,25			890	31,71			890	43,28						
3,30	033	24,31	033	31,71	033	29,04	033	43,28	033	24,31	033	31,71	033	43,28
3,40	034	24,31	034	31,71	034	29,04	034	43,28	034	24,31	034	31,71	034	43,28
3,50	035	24,31	035	31,71	035	29,04	035	43,28	035	24,31	035	31,71	035	43,28
3,60	036	24,31	036	31,71	036	29,04	036	43,28	036	24,31	036	31,71	036	43,28
3,70	037	24,31	037	31,71	037	29,04	037	43,28	037	24,31	037	31,71	037	43,28
3,80	038	24,31	038	31,71	038	29,04	038	43,28	038	24,31	038	31,71	038	43,28
3,90	039	24,31	039	31,71	039	29,04	039	43,28	039	24,31	039	31,71	039	43,28
4,00	040	24,31	040	31,71	040	29,04	040	43,28	040	24,31	040	31,71	040	43,28
4,10	041	24,31	041	31,71	041	29,04	041	43,28	041	24,31	041	31,71	041	43,28
4,20	042	24,31	042	31,71	042	29,04	042	43,28	042	24,31	042	31,71	042	43,28
4,30	043	24,31	043	31,71	043	29,04	043	43,28	043	24,31	043	31,71	043	43,28
4,40	044	24,31	044	31,71	044	29,04	044	43,28	044	24,31	044	31,71	044	43,28
4,50	045	24,31	045	31,71	045	29,04	045	43,28	045	24,31	045	31,71	045	43,28
4,60	046	24,31	046	31,71	046	29,04	046	43,28	046	24,31	046	31,71	046	43,28
4,65	900	24,31	900	31,71	900	29,04	900	43,28	900	24,31	900	31,71	900	43,28
4,70	047	24,31	047	31,71	047	29,04	047	43,28	047	24,31	047	31,71	047	43,28
4,80	048	24,31	048	31,71	048	29,04	048	43,28	048	24,31	048	31,71	048	43,28
4,90	049	24,31	049	31,71	049	29,04	049	43,28	049	24,31	049	31,71	049	43,28
5,00	050	24,31	050	31,71	050	29,04	050	43,28	050	24,31	050	31,71	050	43,28
5,10	051	24,31	051	31,71	051	29,04	051	43,28	051	24,31	051	31,71	051	43,28
5,20	052	24,31	052	31,71	052	29,04	052	43,28	052	24,31	052	31,71	052	43,28
5,30	053	24,31	053	31,71	053	29,04	053	43,28	053	24,31	053	31,71	053	43,28
5,40	054	24,31	054	31,71	054	29,04	054	43,28	054	24,31	054	31,71	054	43,28
5,50	055	24,31	055	31,71	055	29,04	055	43,28	055	24,31	055	31,71	055	43,28
5,55	902	24,31	902	31,71	902	29,04	902	43,28	902	24,31	902	31,71	902	43,28
5,60	056	24,31	056	31,71	056	29,04	056	43,28	056	24,31	056	31,71	056	43,28
5,70	057	24,31	057	31,71	057	29,04	057	43,28	057	24,31	057	31,71	057	43,28
5,80	058	24,31	058	31,71	058	29,04	058	43,28	058	24,31	058	31,71	058	43,28
5,90	059	24,31	059	31,71	059	29,04	059	43,28	059	24,31	059	31,71	059	43,28
6,00	060	24,31	060	31,71	060	29,04	060	43,28	060	24,31	060	31,71	060	43,28
6,10	061	24,41	061	42,92	061	29,51	061	48,03	061	24,41	061	42,92	061	48,03
6,20	062	24,41	062	42,92	062	29,51	062	48,03	062	24,41	062	42,92	062	48,03
6,30	063	24,41	063	42,92	063	29,51	063	48,03	063	24,41	063	42,92	063	48,03
6,40	064	24,41	064	42,92	064	29,51	064	48,03	064	24,41	064	42,92	064	48,03
6,50	065	24,41	065	42,92	065	29,51	065	48,03	065	24,41	065	42,92	065	48,03
6,60	066	24,41	066	42,92	066	29,51	066	48,03	066	24,41	066	42,92	066	48,03
6,70	067	24,41	067	42,92	067	29,51	067	48,03	067	24,41	067			

WPC – High Performance Drill, DIN 6537



DC _{m7} mm	11 601 ...	EUR	11 604 ...	EUR	11 607 ...	EUR	11 610 ...	EUR	11 621 ...	EUR	11 624 ...	EUR	11 630 ...	EUR
9,10	091	27,31	091	49,31	091	32,52	091	54,97	091	27,31	091	49,31	091	54,97
9,20	092	27,31	092	49,31	092	32,52	092	54,97	092	27,31	092	49,31	092	54,97
9,25	925	27,31	925	49,31	925	32,52	925	54,97	925	27,31	925	49,31	925	54,97
9,30	093	27,31	093	49,31	093	32,52	093	54,97	093	27,31	093	49,31	093	54,97
9,35			930	49,31			930	54,97						
9,40	094	27,31	094	49,31	094	32,52	094	54,97	094	27,31	094	49,31	094	54,97
9,50	095	27,31	095	49,31	095	32,52	095	54,97	095	27,31	095	49,31	095	54,97
9,60	096	27,31	096	49,31	096	32,52	096	54,97	096	27,31	096	49,31	096	54,97
9,70	097	27,31	097	49,31	097	32,52	097	54,97	097	27,31	097	49,31	097	54,97
9,80	098	27,31	098	49,31	098	32,52	098	54,97	098	27,31	098	49,31	098	54,97
9,90	099	27,31	099	49,31	099	32,52	099	54,97	099	27,31	099	49,31	099	54,97
10,00	100	27,31	100	49,31	100	32,52	100	54,97	100	27,31	100	49,31	100	54,97
10,10	101	41,20	101	70,71	101	48,60	101	80,07	101	41,20	101	70,71	101	80,07
10,20	102	41,20	102	70,71	102	48,60	102	80,07	102	41,20	102	70,71	102	80,07
10,30	103	41,20	103	70,71	103	48,60	103	80,07	103	41,20	103	70,71	103	80,07
10,40	104	41,20	104	70,71	104	48,60	104	80,07	104	41,20	104	70,71	104	80,07
10,50	105	41,20	105	70,71	105	48,60	105	80,07	105	41,20	105	70,71	105	80,07
10,60	106	41,20	106	70,71	106	48,60	106	80,07	106	41,20	106	70,71	106	80,07
10,70	107	41,20	107	70,71	107	48,60	107	80,07	107	41,20	107	70,71	107	80,07
10,75			904	70,71			904	80,07						
10,80	108	41,20	108	70,71	108	48,60	108	80,07	108	41,20	108	70,71	108	80,07
10,90	109	41,20	109	70,71	109	48,60	109	80,07	109	41,20	109	70,71	109	80,07
11,00	110	41,20	110	70,71	110	48,60	110	80,07	110	41,20	110	70,71	110	80,07
11,10	111	41,20	111	70,71	111	48,60	111	80,07	111	41,20	111	70,71	111	80,07
11,20	112	41,20	112	70,71	112	48,60	112	80,07	112	41,20	112	70,71	112	80,07
11,25			912	70,71			912	80,07						
11,30	113	41,20	113	70,71	113	48,60	113	80,07	113	41,20	113	70,71	113	80,07
11,40	114	41,20	114	70,71	114	48,60	114	80,07	114	41,20	114	70,71	114	80,07
11,50	115	41,20	115	70,71	115	48,60	115	80,07	115	41,20	115	70,71	115	80,07
11,60	116	41,20	116	70,71	116	48,60	116	80,07	116	41,20	116	70,71	116	80,07
11,70	117	41,20	117	70,71	117	48,60	117	80,07	117	41,20	117	70,71	117	80,07
11,80	118	41,20	118	70,71	118	48,60	118	80,07	118	41,20	118	70,71	118	80,07
11,90	119	41,20	119	70,71	119	48,60	119	80,07	119	41,20	119	70,71	119	80,07
12,00	120	41,20	120	70,71	120	48,60	120	80,07	120	41,20	120	70,71	120	80,07
12,25	122	55,20	122	98,13	122	63,78	122	107,80						
12,50	125	55,20	125	98,13	125	63,78	125	107,80	125	55,20	125	98,13	125	107,80
12,70	127	55,20	127	98,13	127	63,78	127	107,80	127	55,20	127	98,13	127	107,80
12,80	128	55,20	128	98,13	128	63,78	128	107,80						
12,90	129	55,20	129	98,13	129	63,78	129	107,80						
13,00	130	55,20	130	98,13	130	63,78	130	107,80	130	55,20	130	98,13	130	107,80
13,10			131	98,13			131	107,80						
13,30	133	55,20	133	98,13	133	63,78	133	107,80						
13,50	135	55,20	135	98,13	135	63,78	135	107,80	135	55,20	135	98,13	135	107,80
13,70	137	55,20	137	98,13	137	63,78	137	107,80	137	55,20	137	98,13	137	107,80
13,80	138	55,20	138	98,13	138	63,78	138	107,80						
14,00	140	55,20	140	98,13	140	63,78	140	107,80	140	55,20	140	98,13	140	107,80
14,20	142	71,76	142	121,60	142	82,97	142	134,20						
14,50	145	71,76	145	121,60	145	82,97	145	134,20	145	71,76	145	121,60	145	134,20
14,70	147	71,76	147	121,60	147	82,97	147	134,20	147	71,76	147	121,60	147	134,20
14,80	148	71,76	148	121,60	148	82,97	148	134,20						
15,00	150	71,76	150	121,60	150	82,97	150	134,20	150	71,76	150	121,60	150	134,20
15,10			151	121,60			151	134,20						
15,25	152	71,76	152	121,60	152	82,97	152	134,20						
15,30	153	71,76	153	121,60	153	82,97	153	134,20						
15,50	155	71,76	155	121,60	155	82,97	155	134,20	155	71,76	155	121,60	155	134,20
15,60			156	121,60			156	134,20						
15,70	157	71,76	157	121,60	157	82,97	157	134,20	157	71,76	157	121,60	157	134,20
15,80	158	71,76	158	121,60	158	82,97	158	134,20						
16,00	160	71,76	160	121,60	160	82,97	160	134,20	160	71,76	160	121,60	160	134,20
16,50	165	121,60	165	192,20	165	134,20	165	214,00	165	121,60	165	192,20	165	214,00
16,80	168	121,60	168	192,20	168	134,20	168	214,00						
16,90			169	192,20			169	214,00						
17,00	170	121,60	170	192,20	170	134,20	170	214,00	170	121,60	170	192,20	170	214,00
17,50	175	121,60	175	192,20	175	134,20	175	214,00	175	121,60	175	192,20	175	214,00
17,60			176	192,20			176	214,00						
17,80	178	121,60	178	192,20	178	134,20	178	214,00						
18,00	180	121,60	180	192,20	180	134,20	180	214,00	180	121,60	180	192,20	180	214,00
18,50	185	133,10	185	211,90	185	144,70	185	232,60	185	133,10	185	211,90	185	232,60
18,80	188	133,10	188	211,90	188	144,70	188	232,60						
18,90			189	211,90			189	232,60						
19,00	190	133,10	190	211,90	190	144,70	190	232,60	190	133,10	190	211,90	190	232,60
19,50	195	133,10	195	211,90	195	144,70	195	232,60	195	133,10	195	211,90	195	232,60
19,60			196	211,90			196	232,60						
19,80	198	133,10	198	211,90	198	144,70	198	232,60						
20,00	200	133,10	200	211,90	200	144,70	200	232,60	200	133,10	200	211,90	200	232,60
P	●		●		●		●		○		○		○	
M									●		●		●	
K	●		●		●		●		●		●		●	
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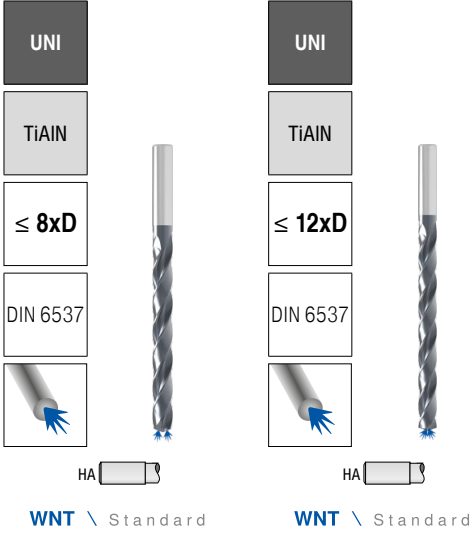


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WPC – High Performance Drill, factory standard



DC _{h7} mm	11 612 ...	EUR	11 615 ...	EUR
3,0	030	86,09	030	115,70
3,1	031	86,09	031	115,70
3,2	032	86,09	032	115,70
3,3	033	86,09	033	115,70
3,4	034	86,09	034	115,70
3,5	035	86,09	035	115,70
3,6	036	86,09	036	115,70
3,7	037	86,09	037	115,70
3,8	038	86,09	038	115,70
3,9	039	86,09	039	115,70
4,0	040	86,09	040	115,70
4,1	041	86,09	041	115,70
4,2	042	86,09	042	115,70
4,3	043	86,09	043	115,70
4,4	044	86,09	044	115,70
4,5	045	86,09	045	115,70
4,6	046	86,09	046	115,70
4,7	047	86,09	047	115,70
4,8	048	86,09	048	115,70
4,9	049	86,09	049	115,70
5,0	050	86,09	050	115,70
5,1	051	86,09		
5,2	052	86,09		
5,3	053	86,09		
5,5	055	86,09	055	115,70
5,8	058	86,09	058	115,70
5,9	059	86,09		
6,0	060	86,09	060	115,70
6,1	061	106,20		
6,2	062	106,20		
6,3	063	106,20	063	128,40
6,5	065	106,20	065	128,40
6,6	066	106,20	066	128,40
6,8	068	106,20	068	128,40
7,0	070	106,20	070	128,40
7,4	074	106,20		
7,5	075	106,20	075	128,40
7,7	077	106,20		
7,8	078	106,20	078	128,40
7,9	079	106,20		
8,0	080	106,20	080	128,40
8,1	081	130,80		
8,2	082	130,80	082	180,60
8,3	083	130,80		
8,5	085	130,80	085	180,60
8,6	086	130,80		
8,7	087	130,80		
8,8	088	130,80		
9,0	090	130,80	090	180,60
9,1	091	130,80		
9,2	092	130,80		
9,3	093	130,80		
9,4	094	130,80		
9,5	095	130,80	095	180,60
9,7	097	130,80		
9,8	098	130,80	098	180,60
9,9	099	130,80		
10,0	100	130,80	100	180,60
10,2	102	173,70		
10,5	105	173,70	105	248,90
10,8	108	173,70		
11,0	110	173,70	110	248,90
11,2	112	173,70		
11,5	115	173,70	115	248,90
11,8	118	173,70		
12,0	120	173,70	120	248,90
12,5	125	260,40		
13,0	130	260,40	130	320,60
13,5	135	260,40		
14,0	140	260,40	140	320,60
14,5	145	340,30		
15,0	150	340,30	150	422,40
15,5	155	340,30		
16,0	160	340,30	160	422,40
16,5	165	440,90		
17,0	170	440,90		
17,5	175	440,90		
18,0	180	440,90	180	504,60
18,5	185	490,80		
19,0	190	490,80		
20,0	200	490,80		
P	•		•	
M				
K	•		•	
N				
S				
H				
O				

NC Spot Drill, factory standard

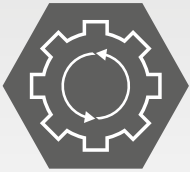


DC _{h5} mm	OAL mm	LCF mm	10 704 ...	EUR
2	32	6	002	14,23
3	32	8	003	14,23
4	40	10	004	15,86
5	50	13	005	18,18
6	50	13	006	20,24
8	60	23	008	31,24
10	70	24	010	43,86
12	70	24	012	59,14
14	75	26	014	86,91
16	75	29	016	107,30
18	100	35	018	202,40
20	100	35	020	189,80
P			○	
M				
K			•	
N			•	
S				
H				
O				

New for old

Regrind instead of buying new

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

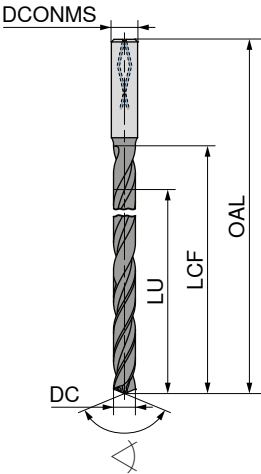


WTX – High performance deep hole drills

- ▲ Pilot hole necessary
- ▲ Excellent alignment precision
- ▲ Secure chip evacuation



WNT \ Performance



TB 16
UNI

TiAlN

≤ 16xD

HA
◁ 135°
Solid carbide

TB 16
ALU

DLC

≤ 16xD

HA
◁ 135°
Solid carbide

TB 20
UNI

TiAlN

≤ 20xD

HA
◁ 135°
Solid carbide

TB 20
ALU

DLC

≤ 20xD

HA
◁ 135°
Solid carbide

DC _{h7} mm	11 016 ...	EUR	11 017 ...	EUR	11 020 ...	EUR	11 021 ...	EUR
2,0	020	128,40	020	128,40	020	136,50	020	136,50
2,2	022	128,40	022	128,40	022	136,50	022	136,50
2,3	023	128,40	023	128,40	023	136,50	023	136,50
2,4	024	143,60	024	143,60	024	151,60	024	151,60
2,5	025	143,60	025	143,60	025	151,60	025	151,60
2,7	027	143,60	027	143,60	027	151,60	027	151,60
2,8	028	143,60	028	143,60	028	151,60	028	151,60
3,0	030	182,80	030	182,80	030	203,70	030	203,70
3,2	032	182,80	032	182,80	032	203,70	032	203,70
3,3	033	182,80	033	182,80	033	203,70	033	203,70
3,5	035	182,80	035	182,80	035	203,70	035	203,70
3,8	038	190,90	038	190,90	038	211,90	038	211,90
4,0	040	190,90	040	190,90	040	211,90	040	211,90
4,2	042	204,90	042	204,90	042	228,00	042	228,00
4,5	045	204,90	045	204,90	045	228,00	045	228,00
4,8	048	216,40	048	216,40	048	240,80	048	240,80
5,0	050	216,40	050	216,40	050	240,80	050	240,80
5,5	055	226,80	055	226,80	055	251,10	055	251,10
5,8	058	226,80	058	226,80	058	251,10	058	251,10
6,0	060	226,80	060	226,80	060	251,10	060	251,10
6,5	065	240,80	065	240,80	065	268,50	065	268,50
6,8	068	259,30	068	259,30	068	288,20	068	288,20
7,0	070	259,30	070	259,30	070	288,20	070	288,20
7,5	075	289,40	075	289,40	075	321,70	075	321,70
7,8	078	289,40	078	289,40	078	321,70	078	321,70
8,0	080	289,40	080	289,40	080	321,70	080	321,70
8,5	085	319,40	085	319,40	085	354,20	085	354,20
8,8	088	356,60	088	356,60	088	398,10	088	398,10
9,0	090	356,60	090	356,60	090	398,10	090	398,10
9,8	098	356,60	098	356,60	098	398,10	098	398,10
10,0	100	356,60	100	356,60	100	398,10	100	398,10
10,2	102	398,10	102	398,10	102	437,40	102	437,40
10,8	108	398,10	108	398,10	108	437,40	108	437,40
11,8	118	398,10	118	398,10	118	437,40	118	437,40
12,0	120	398,10	120	398,10	120	437,40	120	437,40
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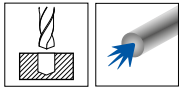
Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



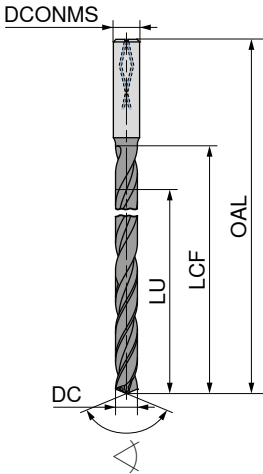
Order by 6:00 pm and get your
guaranteed free express delivery

WTX – High performance deep hole drills

- ▲ Pilot hole necessary
- ▲ Excellent alignment precision
- ▲ Secure chip evacuation



WNT \ Performance



TB 25 UNI	TB 25 ALU	TB 30 UNI	TB 30 ALU	TB 40 UNI	TB 50 UNI
TiAIN	DLC	TiAIN	DLC	TiAIN	TiAIN
≤ 25xD	≤ 25xD	≤ 30xD	≤ 30xD	≤ 40xD	≤ 50xD
HA	HA	HA	HA	HA	HA
135°	135°	135°	135°	135°	135°
Solid carbide	Solid carbide	Solid carbide	Solid carbide	Solid carbide	Solid carbide

DC mm	11 025 ...		11 026 ...		11 030 ...		11 031 ...		11 040 ...		11 050 ...	
		EUR		EUR		EUR		EUR		EUR		EUR
2,0	020	144,70	020	144,70	020	155,20	020	155,20				
2,2	022	144,70	022	144,70	022	155,20	022	155,20				
2,3	023	144,70	023	144,70	023	155,20	023	155,20				
2,4	024	165,50	024	165,50	024	179,50	024	179,50				
2,5	025	165,50	025	165,50	025	179,50	025	179,50				
2,7	027	165,50	027	165,50	027	179,50	027	179,50				
2,8	028	165,50	028	165,50	028	179,50	028	179,50				
3,0	030	236,20	030	236,20	030	303,20	030	303,20	030	384,20	030	522,00
3,2	032	236,20	032	236,20	032	303,20	032	303,20				
3,3	033	262,70	033	262,70	033	311,30	033	311,30				
3,5	035	262,70	035	262,70	035	311,30	035	311,30				
3,8	038	269,60	038	269,60	038	311,30	038	311,30				
4,0	040	269,60	040	269,60	040	311,30	040	311,30	040	384,20	040	522,00
4,2	042	269,60	042	269,60	042	311,30	042	311,30	042	424,80	042	581,00
4,5	045	281,20	045	281,20	045	320,60	045	320,60	045	424,80	045	581,00
4,8	048	281,20	048	281,20	048	320,60	048	320,60	048	453,70	048	656,20
5,0	050	281,20	050	281,20	050	320,60	050	320,60	050	453,70	050	656,20
5,5	055	302,10	055	302,10	055	335,60	055	335,60	055	488,40	055	738,30
5,8	058	302,10	058	302,10	058	335,60	058	335,60	058	488,40	058	748,80
6,0	060	302,10	060	302,10	060	335,60	060	335,60	060	488,40	060	748,80
6,5	065	336,70	065	336,70	065	370,30	065	370,30	065	525,30	065	832,10
6,8	068	336,70	068	336,70	068	384,20	068	384,20	068	525,30	068	902,70
7,0	070	336,70	070	336,70	070	384,20	070	384,20	070	525,30		
7,5	075	375,00	075	375,00	075	384,20	075	384,20	075	584,40		
7,8	078	375,00	078	375,00	078	428,20	078	428,20	078	584,40		
8,0	080	375,00	080	375,00	080	428,20	080	428,20	080	584,40		
8,5	085	421,20	085	421,20	085	494,10	085	494,10	085	643,60		
8,8	088	458,20	088	458,20	088	519,50	088	519,50	088	643,60		
9,0	090	458,20	090	458,20	090	519,50	090	519,50	090	643,60		
9,8	098	458,20	098	458,20	098	519,50	098	519,50				
10,0	100	458,20	100	458,20	100	519,50	100	519,50				
10,2	102	550,80	102	550,80	102	663,20	102	663,20				
10,8	108	550,80	108	550,80	108	663,20	108	663,20				
11,8	118	550,80	118	550,80	118	663,20	118	663,20				
12,0	120	550,80	120	550,80	120	663,20	120	663,20				
P	●		●		●		●		●		●	
M	●		●		●		●		●		●	
K	●		●		●		●		●		●	
N			●				●					
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Indexable Insert Drills

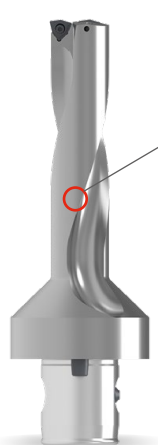


MaxiDrill 900
The specialist for high productivity in rough machining

- ▲ provides perfect drilling quality even under enormous loads
- ▲ ideal for large drilling depths: The high feed rates increase productivity
- ▲ for stable machining situations

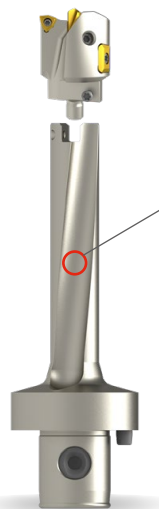
Drilling guide (Main catalogue 2021)

Cutting data	58–71
Coding example	74–76
Maximum Offset Range	77
Grade description	81+82



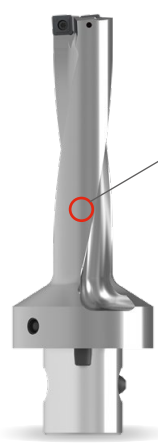
KUB Trigon
The solution for unstable conditions and high accuracy

- ▲ ideal for machining under unstable conditions
- ▲ well-suited to machining on less powerful machines
- ▲ the first choice for creating dimensionally accurate holes



KUB Centron
The specialist for holes with a large length to diameter ratio

- ▲ Cost-effective and process-secure drilling
- ▲ Hole depths up to 9xD in virtually all materials
- ▲ HSS or solid carbide centring tip for optimum positioning accuracy



KUB Pentron
The specialist for large hole depths

- ▲ the all-rounder for process-secure drilling under a wide variety of conditions
- ▲ ideal for extreme machining situations

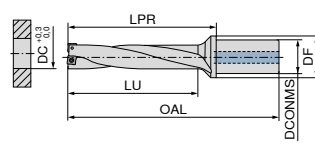


KUB Pentron CS
The final piece in the product portfolio

- ▲ Process-secure, reliable, modular system for creating large holes with a diameter of up to 96.00 mm
- ▲ Consists of a base body, an internal cartridge and an external cartridge
- ▲ Universal application, powerful, specialised
- ▲ A certain diameter range can be covered with a holder and a suitable internal cartridge

MaxiDrill 900 – Indexable insert drill

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





≤ 2xD



KOMET \ Performance

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ...	EUR
MD900.2D.120.R.03-C20	12,0	28	20	90	24	40	SONT 031804	120	126,00
MD900.2D.125.R.03-C20	12,5	28	20	91	25	41	SONT 031804	125	126,00
MD900.2D.130.R.03-C20	13,0	28	20	92	26	42	SONT 031804	130	126,00
MD900.2D.135.R.03-C20	13,5	28	20	93	27	43	SONT 031804	135	126,00
MD900.2D.140.R.04-C20	14,0	30	20	96	28	46	SONT 042105	140	134,00
MD900.2D.145.R.04-C20	14,5	30	20	97	29	47	SONT 042105	145	134,00
MD900.2D.150.R.04-C20	15,0	30	20	98	30	48	SONT 042105	150	134,00
MD900.2D.155.R.04-C20	15,5	30	20	99	31	49	SONT 042105	155	134,00
MD900.2D.160.R.05-C20	16,0	30	20	100	32	50	SONT 052306	160	134,00
MD900.2D.165.R.05-C20	16,5	30	20	101	33	51	SONT 052306	165	134,00
MD900.2D.170.R.05-C20	17,0	30	20	102	34	52	SONT 052306	170	142,00
MD900.2D.175.R.05-C20	17,5	30	20	103	35	53	SONT 052306	175	142,00
MD900.2D.180.R.06-C25	18,0	32	25	111	36	55	SONT 062506	180	142,00
MD900.2D.185.R.06-C25	18,5	32	25	112	37	56	SONT 062506	185	142,00
MD900.2D.190.R.06-C25	19,0	32	25	113	38	57	SONT 062506	190	153,00
MD900.2D.195.R.06-C25	19,5	32	25	114	39	58	SONT 062506	195	153,00
MD900.2D.200.R.06-C25	20,0	32	25	115	40	59	SONT 062506	200	153,00
MD900.2D.205.R.06-C25	20,5	32	25	116	41	60	SONT 062506	205	153,00
MD900.2D.210.R.07-C25	21,0	32	25	118	42	62	SONT 072907	210	153,00
MD900.2D.220.R.07-C25	22,0	32	25	120	44	64	SONT 072907	220	153,00
MD900.2D.230.R.07-C25	23,0	32	25	122	46	66	SONT 072907	230	158,00
MD900.2D.240.R.08-C32	24,0	40	32	132	48	72	SONT 083308	240	158,00
MD900.2D.250.R.08-C32	25,0	40	32	134	50	74	SONT 083308	250	158,00
MD900.2D.260.R.08-C32	26,0	40	32	136	52	76	SONT 083308	260	175,00
MD900.2D.270.R.08-C32	27,0	40	32	138	54	78	SONT 083308	270	175,00
MD900.2D.280.R.09-C32	28,0	40	32	140	56	80	SONT 093808	280	175,00
MD900.2D.290.R.09-C32	29,0	40	32	142	58	82	SONT 093808	290	175,00
MD900.2D.300.R.09-C32	30,0	40	32	144	60	84	SONT 093808	300	175,00
MD900.2D.310.R.09-C32	31,0	40	32	146	62	86	SONT 093808	310	189,00
MD900.2D.320.R.09-C32	32,0	40	32	148	64	88	SONT 093808	320	189,00
MD900.2D.330.R.10-C40	33,0	50	40	163	66	93	SONT 104408	330	189,00
MD900.2D.340.R.10-C40	34,0	50	40	165	68	95	SONT 104408	340	189,00

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ...	EUR
MD900.2D.350.R.10-C40	35,0	50	40	167	70	97	SONT 104408	350	194,00
MD900.2D.360.R.10-C40	36,0	50	40	169	72	99	SONT 104408	360	194,00
MD900.2D.370.R.12-C40	37,0	56	40	174	74	104	SONT 124810	370	200,00
MD900.2D.380.R.12-C40	38,0	56	40	176	76	106	SONT 124810	380	200,00
MD900.2D.390.R.12-C40	39,0	56	40	178	78	108	SONT 124810	390	200,00
MD900.2D.400.R.12-C40	40,0	56	40	180	80	110	SONT 124810	400	200,00
MD900.2D.410.R.12-C40	41,0	56	40	182	82	112	SONT 124810	410	200,00
MD900.2D.420.R.13-C40	42,0	60	40	187	84	117	SONT 135012	420	210,00
MD900.2D.430.R.13-C40	43,0	60	40	189	86	119	SONT 135012	430	210,00
MD900.2D.440.R.13-C40	44,0	60	40	191	88	121	SONT 135012	440	210,00
MD900.2D.450.R.13-C40	45,0	60	40	193	90	123	SONT 135012	450	210,00
MD900.2D.460.R.13-C40	46,0	60	40	195	92	125	SONT 135012	460	210,00
MD900.2D.470.R.15-C40	47,0	60	40	198	94	128	SONT 155312	470	221,00
MD900.2D.480.R.15-C40	48,0	60	40	200	96	130	SONT 155312	480	221,00
MD900.2D.490.R.15-C40	49,0	60	40	202	98	132	SONT 155312	490	238,00
MD900.2D.500.R.15-C40	50,0	60	40	204	100	134	SONT 155312	500	238,00
MD900.2D.510.R.15-C40	52,0	60	40	208	104	138	SONT 155312	520	244,00
MD900.2D.520.R.15-C40	51,0	60	40	206	102	136	SONT 155312	510	244,00
MD900.2D.530.R.15-C40	53,0	60	40	210	106	140	SONT 155312	530	244,00
MD900.2D.540.R.15-C40	54,0	60	40	212	108	142	SONT 155312	540	244,00
MD900.2D.550.R.17-C40	55,0	60	40	215	110	145	SONT 175612	550	244,00
MD900.2D.560.R.17-C40	56,0	60	40	217	112	147	SONT 175612	560	253,00
MD900.2D.570.R.17-C40	57,0	60	40	219	114	149	SONT 175612	570	253,00
MD900.2D.580.R.17-C40	58,0	60	40	221	116	151	SONT 175612	580	253,00
MD900.2D.590.R.17-C40	59,0	60	40	223	118	153	SONT 175612	590	253,00
MD900.2D.600.R.17-C40	60,0	62	40	225	120	155	SONT 175612	600	253,00
MD900.2D.610.R.17-C40	61,0	62	40	227	122	157	SONT 175612	610	253,00
MD900.2D.620.R.17-C40	62,0	64	40	229	124	159	SONT 175612	620	253,00
MD900.2D.630.R.17-C40	63,0	64	40	231	126	161	SONT 175612	630	253,00

Spare parts			Key D			Clamping screw		
DC			EUR			EUR		
12 - 13,5			T06 - IP	9,63	123	M1,8x3,6 - IP	3,47	862
14 - 17,5			T06 - IP	9,63	123	M2x4,3 - IP	3,10	863
18 - 23			T07 - IP	9,48	124	M2,2x5 - IP	3,01	856
24 - 27			T08 - IP	9,46	125	M2,5x6 - IP	3,86	857
28 - 32			T09 - IP	10,42	126	M3x7 - IP	2,97	819
33 - 41			T15 - IP	11,03	128	M3,5x8,6 - IP	2,97	859
42 - 63			T20 - IP	11,63	129	M4,5x10,5 - IP	2,97	864



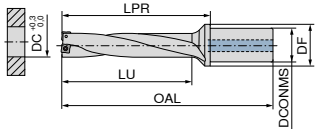
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Order by 6:00 pm and get your
guaranteed free express delivery

MaxiDrill 900 – Indexable insert drill

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



≤ 3xD

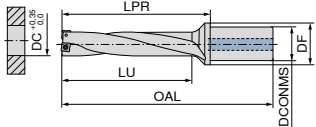
 KOMET \ Performance

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 853 ...	EUR
MD900.3D.120.R.03-C20	12,0	28	20	102	36,0	52	SONT 031804	120	134,00
MD900.3D.125.R.03-C20	12,5	28	20	104	37,5	54	SONT 031804	125	134,00
MD900.3D.130.R.03-C20	13,0	28	20	105	39,0	55	SONT 031804	130	134,00
MD900.3D.135.R.03-C20	13,5	28	20	107	40,5	57	SONT 031804	135	134,00
MD900.3D.140.R.04-C20	14,0	30	20	109	42,0	59	SONT 042105	140	141,00
MD900.3D.145.R.04-C20	14,5	30	20	111	44,0	61	SONT 042105	145	141,00
MD900.3D.150.R.04-C20	15,0	30	20	112	45,0	62	SONT 042105	150	141,00
MD900.3D.155.R.04-C20	15,5	30	20	114	47,0	64	SONT 042105	155	144,00
MD900.3D.160.R.05-C20	16,0	30	20	115	48,0	65	SONT 052306	160	144,00
MD900.3D.165.R.05-C20	16,5	30	20	117	50,0	67	SONT 052306	165	144,00
MD900.3D.170.R.05-C20	17,0	30	20	118	51,0	68	SONT 052306	170	150,00
MD900.3D.175.R.05-C20	17,5	30	20	120	53,0	70	SONT 052306	175	150,00
MD900.3D.180.R.06-C25	18,0	32	25	128	54,0	72	SONT 062506	180	150,00
MD900.3D.185.R.06-C25	18,5	32	25	130	56,0	74	SONT 062506	185	150,00
MD900.3D.190.R.06-C25	19,0	32	25	131	57,0	75	SONT 062506	190	161,00
MD900.3D.195.R.06-C25	19,5	32	25	133	59,0	77	SONT 062506	195	161,00
MD900.3D.200.R.06-C25	20,0	32	25	134	60,0	78	SONT 062506	200	161,00
MD900.3D.205.R.06-C25	20,5	32	25	136	62,0	80	SONT 062506	205	161,00
MD900.3D.210.R.07-C25	21,0	32	25	138	63,0	82	SONT 072907	210	161,00
MD900.3D.215.R.07-C25	21,5	32	25	140	65,0	84	SONT 072907	215	161,00
MD900.3D.220.R.07-C25	22,0	32	25	141	66,0	85	SONT 072907	220	161,00
MD900.3D.225.R.07-C25	22,5	32	25	143	68,0	87	SONT 072907	225	166,00
MD900.3D.230.R.07-C25	23,0	32	25	144	69,0	88	SONT 072907	230	166,00
MD900.3D.235.R.07-C25	23,5	32	25	146	71,0	90	SONT 072907	235	166,00
MD900.3D.240.R.08-C32	24,0	40	32	155	72,0	95	SONT 083308	240	166,00
MD900.3D.245.R.08-C32	24,5	40	32	157	74,0	97	SONT 083308	245	166,00
MD900.3D.250.R.08-C32	25,0	40	32	158	75,0	98	SONT 083308	250	166,00
MD900.3D.255.R.08-C32	25,5	40	32	160	77,0	100	SONT 083308	255	166,00
MD900.3D.260.R.08-C32	26,0	40	32	161	78,0	101	SONT 083308	260	184,00
MD900.3D.265.R.08-C32	26,5	40	32	163	80,0	103	SONT 083308	265	184,00
MD900.3D.270.R.08-C32	27,0	40	32	164	81,0	104	SONT 083308	270	184,00
MD900.3D.275.R.08-C32	27,5	40	32	166	83,0	106	SONT 083308	275	184,00
MD900.3D.280.R.09-C32	28,0	40	32	167	84,0	107	SONT 093808	280	184,00
MD900.3D.285.R.09-C32	28,5	40	32	169	86,0	109	SONT 093808	285	184,00
MD900.3D.290.R.09-C32	29,0	40	32	170	87,0	110	SONT 093808	290	184,00
MD900.3D.295.R.09-C32	29,5	40	32	172	89,0	112	SONT 093808	295	184,00
MD900.3D.300.R.09-C32	30,0	40	32	173	90,0	113	SONT 093808	300	184,00
MD900.3D.305.R.09-C32	30,5	40	32	175	92,0	115	SONT 093808	305	184,00
MD900.3D.310.R.09-C32	31,0	40	32	176	93,0	116	SONT 093808	310	199,00
MD900.3D.315.R.09-C32	31,5	40	32	178	95,0	118	SONT 093808	315	199,00
MD900.3D.320.R.09-C32	32,0	40	32	179	96,0	119	SONT 093808	320	199,00

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 853 ...	EUR
MD900.3D.325.R.10-C40	32,5	50	40	192	98,0	124	SONT 104408	325	199,00
MD900.3D.330.R.10-C40	33,0	50	40	193	99,0	125	SONT 104408	330	199,00
MD900.3D.335.R.10-C40	33,5	50	40	195	101,0	127	SONT 104408	335	199,00
MD900.3D.340.R.10-C40	34,0	50	40	196	102,0	128	SONT 104408	340	199,00
MD900.3D.345.R.10-C40	34,5	50	40	198	104,0	130	SONT 104408	345	199,00
MD900.3D.350.R.10-C40	35,0	50	40	199	105,0	131	SONT 104408	350	204,00
MD900.3D.355.R.10-C40	35,5	50	40	201	107,0	133	SONT 104408	355	204,00
MD900.3D.360.R.10-C40	36,0	50	40	202	108,0	134	SONT 104408	360	204,00
MD900.3D.365.R.10-C40	36,5	50	40	204	110,0	136	SONT 104408	365	204,00
MD900.3D.370.R.12-C40	37,0	56	40	211	111,0	141	SONT 124810	370	210,00
MD900.3D.380.R.12-C40	38,0	56	40	214	114,0	144	SONT 124810	380	210,00
MD900.3D.390.R.12-C40	39,0	56	40	217	117,0	147	SONT 124810	390	210,00
MD900.3D.400.R.12-C40	40,0	56	40	220	120,0	150	SONT 124810	400	210,00
MD900.3D.410.R.12-C40	41,0	56	40	223	123,0	153	SONT 124810	410	210,00
MD900.3D.420.R.13-C40	42,0	60	40	229	126,0	159	SONT 135012	420	221,00
MD900.3D.430.R.13-C40	43,0	60	40	232	129,0	162	SONT 135012	430	221,00
MD900.3D.440.R.13-C40	44,0	60	40	235	132,0	165	SONT 135012	440	221,00
MD900.3D.450.R.13-C40	45,0	60	40	238	135,0	168	SONT 135012	450	221,00
MD900.3D.460.R.13-C40	46,0	60	40	241	138,0	171	SONT 135012	460	221,00
MD900.3D.470.R.15-C40	47,0	60	40	245	141,0	175	SONT 155312	470	232,00
MD900.3D.480.R.15-C40	48,0	60	40	248	144,0	178	SONT 155312	480	232,00
MD900.3D.490.R.15-C40	49,0	60	40	251	147,0	181	SONT 155312	490	251,00
MD900.3D.500.R.15-C40	50,0	60	40	254	150,0	184	SONT 155312	500	251,00
MD900.3D.510.R.15-C40	51,0	60	40	257	153,0	187	SONT 155312	510	257,00
MD900.3D.520.R.15-C40	52,0	60	40	260	156,0	190	SONT 155312	520	257,00
MD900.3D.530.R.15-C40	53,0	60	40	263	159,0	193	SONT 155312	530	257,00
MD900.3D.540.R.15-C40	54,0	60	40	266	162,0	196	SONT 155312	540	257,00
MD900.3D.550.R.17-C40	55,0	60	40	270	165,0	200	SONT 175612	550	257,00
MD900.3D.560.R.17-C40	56,0	60	40	273	168,0	203	SONT 175612	560	267,00
MD900.3D.570.R.17-C40	57,0	60	40	276	171,0	206	SONT 175612	570	267,00
MD900.3D.580.R.17-C40	58,0	60	40	279	174,0	209	SONT 175612	580	267,00
MD900.3D.590.R.17-C40	59,0	60	40	282	177,0	212	SONT 175612	590	267,00
MD900.3D.600.R.17-C40	60,0	62	40	285	180,0	215	SONT 175612	600	267,00
MD900.3D.610.R.17-C40	61,0	62	40	288	183,0	218	SONT 175612	610	267,00
MD900.3D.620.R.17-C40	62,0	64	40	291	186,0	221	SONT 175612	620	267,00
MD900.3D.630.R.17-C40	63,0	64	40	294	189,0	224	SONT 175612	630	267,00

MaxiDrill 900 – Indexable insert drill

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



≤ 4xD

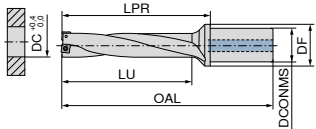
 KOMET \ Performance

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 854 ...	EUR
MD900.4D.120.R.03-C20	12	28	20	114	48	64	SONT 031804	120	185,00
MD900.4D.130.R.03-C20	13	28	20	118	52	68	SONT 031804	130	185,00
MD900.4D.140.R.04-C20	14	30	20	123	56	73	SONT 042105	140	190,00
MD900.4D.150.R.04-C20	15	30	20	127	60	77	SONT 042105	150	190,00
MD900.4D.160.R.05-C20	16	30	20	131	64	81	SONT 052306	160	194,00
MD900.4D.170.R.05-C20	17	30	20	135	68	85	SONT 052306	170	202,00
MD900.4D.180.R.06-C25	18	32	25	146	72	90	SONT 062506	180	202,00
MD900.4D.190.R.06-C25	19	32	25	150	76	94	SONT 062506	190	217,00
MD900.4D.200.R.06-C25	20	32	25	154	80	98	SONT 062506	200	217,00
MD900.4D.210.R.07-C25	21	32	25	159	84	103	SONT 072907	210	217,00
MD900.4D.220.R.07-C25	22	32	25	163	88	107	SONT 072907	220	217,00
MD900.4D.230.R.07-C25	23	32	25	167	92	111	SONT 072907	230	224,00
MD900.4D.240.R.08-C32	24	40	32	179	96	119	SONT 083308	240	224,00
MD900.4D.250.R.08-C32	25	40	32	183	100	123	SONT 083308	250	224,00
MD900.4D.260.R.08-C32	26	40	32	187	104	127	SONT 083308	260	247,00
MD900.4D.270.R.08-C32	27	40	32	191	108	131	SONT 083308	270	247,00
MD900.4D.280.R.09-C32	28	40	32	195	112	135	SONT 093808	280	247,00
MD900.4D.290.R.09-C32	29	40	32	199	116	139	SONT 093808	290	247,00
MD900.4D.300.R.09-C32	30	40	32	203	120	143	SONT 093808	300	247,00
MD900.4D.310.R.09-C32	31	40	32	207	124	147	SONT 093808	310	268,00
MD900.4D.320.R.09-C32	32	40	32	211	128	151	SONT 093808	320	268,00
MD900.4D.330.R.10-C40	33	50	40	228	132	158	SONT 104408	330	268,00
MD900.4D.340.R.10-C40	34	50	40	232	136	162	SONT 104408	340	268,00
MD900.4D.350.R.10-C40	35	50	40	236	140	166	SONT 104408	350	274,00
MD900.4D.360.R.10-C40	36	50	40	240	144	170	SONT 104408	360	274,00

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 854 ...	EUR
MD900.4D.370.R.12-C40	37	56	40	248	148	178	SONT 124810	370	283,00
MD900.4D.380.R.12-C40	38	56	40	252	152	182	SONT 124810	380	283,00
MD900.4D.390.R.12-C40	39	56	40	256	156	186	SONT 124810	390	283,00
MD900.4D.400.R.12-C40	40	56	40	260	160	190	SONT 124810	400	283,00
MD900.4D.410.R.12-C40	41	56	40	264	164	194	SONT 124810	410	283,00
MD900.4D.420.R.13-C40	42	60	40	271	168	201	SONT 135012	420	297,00
MD900.4D.430.R.13-C40	43	60	40	275	172	205	SONT 135012	430	297,00
MD900.4D.440.R.13-C40	44	60	40	279	176	209	SONT 135012	440	297,00
MD900.4D.450.R.13-C40	45	60	40	283	180	213	SONT 135012	450	297,00
MD900.4D.460.R.13-C40	46	60	40	287	184	217	SONT 135012	460	297,00
MD900.4D.470.R.15-C40	47	60	40	292	188	222	SONT 155312	470	313,00
MD900.4D.480.R.15-C40	48	60	40	296	192	226	SONT 155312	480	313,00
MD900.4D.490.R.15-C40	49	60	40	300	196	230	SONT 155312	490	313,00
MD900.4D.500.R.15-C40	50	60	40	304	200	234	SONT 155312	500	313,00
MD900.4D.510.R.15-C40	51	60	40	308	204	238	SONT 155312	510	313,00
MD900.4D.520.R.15-C40	52	60	40	312	208	242	SONT 155312	520	313,00
MD900.4D.530.R.15-C40	53	60	40	316	212	246	SONT 155312	530	313,00
MD900.4D.540.R.15-C40	54	60	40	320	216	250	SONT 155312	540	313,00

MaxiDrill 900 – Indexable insert drill

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



≤ 5xD

 KOMET \ Performance

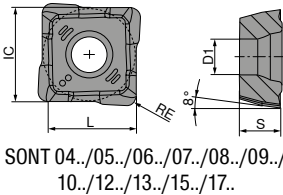
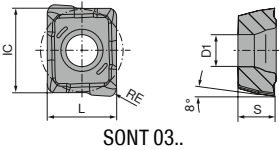
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 855 ...	EUR
MD900.5D.120.R.03-C20	12	28	20	126	60	76	SONT 031804	120	221,00
MD900.5D.130.R.03-C20	13	28	20	131	65	81	SONT 031804	130	221,00
MD900.5D.140.R.04-C20	14	30	20	137	70	87	SONT 042105	140	225,00
MD900.5D.150.R.04-C20	15	30	20	142	75	92	SONT 042105	150	225,00
MD900.5D.160.R.05-C20	16	30	20	147	80	97	SONT 052306	160	231,00
MD900.5D.170.R.05-C20	17	30	20	152	85	102	SONT 052306	170	239,00
MD900.5D.180.R.06-C25	18	32	25	164	90	108	SONT 062506	180	239,00
MD900.5D.190.R.06-C25	19	32	25	169	95	113	SONT 062506	190	257,00
MD900.5D.200.R.06-C25	20	32	25	174	100	118	SONT 062506	200	257,00
MD900.5D.210.R.07-C25	21	32	25	180	105	124	SONT 072907	210	257,00
MD900.5D.220.R.07-C25	22	32	25	184	110	128	SONT 072907	220	257,00
MD900.5D.230.R.07-C25	23	32	25	189	115	133	SONT 072907	230	266,00
MD900.5D.240.R.08-C32	24	40	32	203	120	143	SONT 083308	240	266,00
MD900.5D.250.R.08-C32	25	40	32	208	125	148	SONT 083308	250	266,00
MD900.5D.260.R.08-C32	26	40	32	212	130	152	SONT 083308	260	294,00
MD900.5D.270.R.08-C32	27	40	32	217	135	157	SONT 083308	270	294,00

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 855 ...	EUR
MD900.5D.280.R.09-C32	28	40	32	221	140	161	SONT 093808	280	294,00
MD900.5D.290.R.09-C32	29	40	32	226	145	166	SONT 093808	290	294,00
MD900.5D.300.R.09-C32	30	40	32	230	150	170	SONT 093808	300	294,00
MD900.5D.310.R.09-C32	31	40	32	235	155	175	SONT 093808	310	318,00
MD900.5D.320.R.09-C32	32	40	32	239	160	179	SONT 093808	320	318,00
MD900.5D.330.R.10-C40	33	50	40	259	165	191	SONT 104408	330	318,00
MD900.5D.340.R.10-C40	34	50	40	264	170	196	SONT 104408	340	318,00
MD900.5D.350.R.10-C40	35	50	40	269	175	201	SONT 104408	350	326,00
MD900.5D.360.R.10-C40	36	50	40	274	180	206	SONT 104408	360	326,00
MD900.5D.370.R.12-C40	37	56	40	285	185	215	SONT 124810	370	337,00
MD900.5D.380.R.12-C40	38	56	40	290	190	220	SONT 124810	380	337,00
MD900.5D.390.R.12-C40	39	56	40	295	195	225	SONT 124810	390	337,00
MD900.5D.400.R.12-C40	40	56	40	300	200	230	SONT 124810	400	337,00
MD900.5D.410.R.12-C40	41	56	40	305	205	235	SONT 124810	410	337,00

Spare parts						80 950 ...				70 950 ...	
DC				EUR				EUR			
12 - 13		T06 - IP	9,63	123		M1,8x3,6 - IP	3,47	862			
14 - 17		T06 - IP	9,63	123		M2x4,3 - IP	3,10	863			
18 - 23		T07 - IP	9,48	124		M2,2x5 - IP	3,01	856			
24 - 27		T08 - IP	9,46	125		M2,5x6 - IP	3,86	857			
28 - 32		T09 - IP	10,42	126		M3x7 - IP	2,97	819			
33 - 41		T15 - IP	11,03	128		M3,5x8,6 - IP	2,97	859			

SONT

Designation	IC mm	D1 mm	L mm	S mm
SONT 0318..	5,4	2,10	3,8	1,80
SONT 0421..	4,6	2,25	4,2	2,10
SONT 0523..	5,3	2,25	4,8	2,30
SONT 0625..	5,9	2,50	5,5	2,50
SONT 0729..	6,5	2,50	6,1	2,90
SONT 0833..	7,7	2,90	7,3	3,30
SONT 0938..	8,9	3,50	8,5	3,80
SONT 1044..	10,1	4,10	9,6	4,40
SONT 1248..	11,6	4,10	11,0	4,80
SONT 1350..	13,0	5,30	12,2	5,00
SONT 1553..	15,2	5,30	14,4	5,30
SONT 1756..	17,5	5,30	16,7	5,60



SONT

KOMET \ Performance

-M30

CTCP420

DRAGONSKIN



-M30

CTPP430

DRAGONSKIN



ISO	RE mm	10 830 ...	EUR	10 830 ...	EUR
031804	0,4	703 ¹⁾	11,45	103 ¹⁾	11,45
P		●		●	
M				●	
K		●		○	
N				○	
S				○	
H					
O					

1) two usable cutting edges

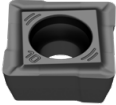
SONT

KOMET \ Performance

-M30

CTCP420

DRAGONSKIN



-M30

CTPP430

DRAGONSKIN



ISO	RE mm	10 830 ...	EUR	10 830 ...	EUR
042105	0,5	704	13,11	104	13,11
052306	0,6	705	13,29	105	13,29
062506	0,6	706	13,52	106	13,52
072907	0,7	707	13,82	107	13,82
083308	0,8	708	14,12	108	14,12
093808	0,8	709	14,46	109	14,46
104408	0,8	710	15,15	110	15,15
124810	1,0	712	16,05	112	16,05
135012	1,2	713	16,99	113	16,99
155312	1,2	715	19,27	115	19,27
175612	1,2	717	20,42	117	20,42
P		●		●	
M				●	
K		●		○	
N				○	
S				○	
H					
O					



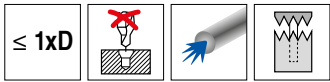
Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



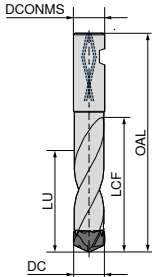
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WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance

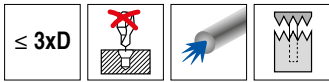


DC mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	81	29	12,5
12,50 - 12,99	14	81	29	13,0
13,00 - 13,49	14	81	31	13,5
13,50 - 13,99	16	86	32	14,0
14,00 - 14,49	16	86	33	14,5
14,50 - 14,99	16	91	34	15,0
15,00 - 15,49	16	91	36	15,5
15,50 - 16,49	20	97	38	16,5
15,50 - 16,49	18	92	38	16,5
16,50 -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

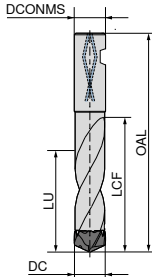
10 911 ...	EUR
120	144,00
125	144,00
130	144,00
135	144,00
140	144,00
145	144,00
150	144,00
161	149,00
160	149,00
166	149,00
165	149,00
176	149,00
175	149,00
185	176,00
195	176,00
205	194,00
215	194,00
225	213,00
235	213,00
245	231,00
255	231,00
265	231,00
275	231,00
285	268,00
295	268,00
305	296,00
315	296,00
325	319,00
335	319,00
345	319,00
355	368,00
375	381,00
395	391,00

WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



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

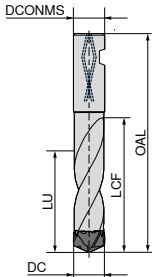
10 913 ...	EUR
120	159,00
125	159,00
130	159,00
135	159,00
140	159,00
145	159,00
150	159,00
161	163,00
160	163,00
166	163,00
165	163,00
176	163,00
175	163,00
185	194,00
195	194,00
205	216,00
215	216,00
225	236,00
235	236,00
245	257,00
255	257,00
265	257,00
275	257,00
285	298,00
295	298,00
305	329,00
315	329,00
325	372,00
335	372,00
345	372,00
355	427,00
375	444,00
395	454,00

WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



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

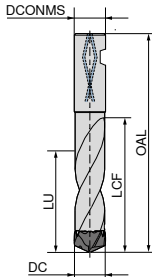
10 915 ...	EUR
120	181,00
125	181,00
130	181,00
135	181,00
140	181,00
145	181,00
150	181,00
161	194,00
160	194,00
166	194,00
165	194,00
176	194,00
175	194,00
185	226,00
195	226,00
205	246,00
215	246,00
225	267,00
235	267,00
245	287,00
255	287,00
265	287,00
275	287,00
285	329,00
295	329,00
305	359,00
315	359,00
325	420,00
335	420,00
345	420,00
355	473,00
375	491,00
395	501,00

WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



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

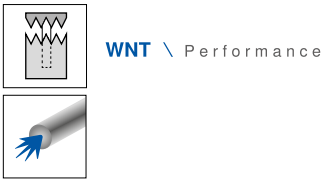
10 918 ...	EUR
120	222,00
125	222,00
130	222,00
135	222,00
140	222,00
145	222,00
150	222,00
161	226,00
160	226,00
166	226,00
165	226,00
176	226,00
175	226,00
185	257,00
195	257,00
205	278,00
215	278,00
225	308,00
235	308,00
245	349,00
255	349,00
265	349,00
275	349,00
285	400,00
295	400,00
305	442,00
315	442,00

Drilling Head for Exchangeable drills can be found on → **Page 23**.



WTX – Drilling Head for Exchangeable drills

▲ extra long head type



Change
UNI

DPX74S


◁ 140°
Solid carbide

Change
VA

Ti700


◁ 138°
Solid carbide

Change
AL

TiB


◁ 140°
Solid carbide

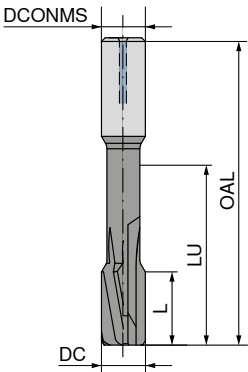
C h7/m7		OAL	10 919 ...		10 921 ...		10 922 ...		10 923 ...		10 924 ...		10 925 ...		10 926 ...		10 927 ...		10 928 ...		10 929 ...		10 930 ...		10 931 ...		10 932 ...		10 933 ...		10 934 ...		10 935 ...		10 936 ...		10 937 ...		10 938 ...		10 939 ...		10 940 ...		10 941 ...		10 942 ...		10 943 ...		10 944 ...		10 945 ...		10 946 ...		10 947 ...		10 948 ...		10 949 ...		10 950 ...		10 951 ...		10 952 ...		10 953 ...		10 954 ...		10 955 ...		10 956 ...		10 957 ...		10 958 ...		10 959 ...		10 960 ...		10 961 ...		10 962 ...		10 963 ...		10 964 ...		10 965 ...		10 966 ...		10 967 ...		10 968 ...		10 969 ...		10 970 ...		10 971 ...		10 972 ...		10 973 ...		10 974 ...		10 975 ...		10 976 ...		10 977 ...		10 978 ...		10 979 ...		10 980 ...		10 981 ...		10 982 ...		10 983 ...		10 984 ...		10 985 ...		10 986 ...		10 987 ...		10 988 ...		10 989 ...		10 990 ...		10 991 ...		10 992 ...		10 993 ...		10 994 ...		10 995 ...		10 996 ...		10 997 ...		10 998 ...		10 999 ...		10 1000 ...		10 1001 ...		10 1002 ...		10 1003 ...		10 1004 ...		10 1005 ...		10 1006 ...		10 1007 ...		10 1008 ...		10 1009 ...		10 1010 ...		10 1011 ...		10 1012 ...		10 1013 ...		10 1014 ...		10 1015 ...		10 1016 ...		10 1017 ...		10 1018 ...		10 1019 ...		10 1020 ...		10 1021 ...		10 1022 ...		10 1023 ...		10 1024 ...		10 1025 ...		10 1026 ...		10 1027 ...		10 1028 ...		10 1029 ...		10 1030 ...		10 1031 ...		10 1032 ...		10 1033 ...		10 1034 ...		10 1035 ...		10 1036 ...		10 1037 ...		10 1038 ...		10 1039 ...		10 1040 ...		10 1041 ...		10 1042 ...		10 1043 ...		10 1044 ...		10 1045 ...		10 1046 ...		10 1047 ...		10 1048 ...		10 1049 ...		10 1050 ...		10 1051 ...		10 1052 ...		10 1053 ...		10 1054 ...		10 1055 ...		10 1056 ...		10 1057 ...		10 1058 ...		10 1059 ...		10 1060 ...		10 1061 ...		10 1062 ...		10 1063 ...		10 1064 ...		10 1065 ...		10 1066 ...		10 1067 ...		10 1068 ...		10 1069 ...		10 1070 ...		10 1071 ...		10 1072 ...		10 1073 ...		10 1074 ...		10 1075 ...		10 1076 ...		10 1077 ...		10 1078 ...		10 1079 ...		10 1080 ...		10 1081 ...		10 1082 ...		10 1083 ...		10 1084 ...		10 1085 ...		10 1086 ...		10 1087 ...		10 1088 ...		10 1089 ...		10 1090 ...		10 1091 ...		10 1092 ...		10 1093 ...		10 1094 ...		10 1095 ...		10 1096 ...		10 1097 ...		10 1098 ...		10 1099 ...		10 1100 ...		10 1101 ...		10 1102 ...		10 1103 ...		10 1104 ...		10 1105 ...		10 1106 ...		10 1107 ...		10 1108 ...		10 1109 ...		10 1110 ...		10 1111 ...		10 1112 ...		10 1113 ...		10 1114 ...		10 1115 ...		10 1116 ...		10 1117 ...		10 1118 ...		10 1119 ...		10 1120 ...		10 1121 ...		10 1122 ...		10 1123 ...		10 1124 ...		10 1125 ...		10 1126 ...		10 1127 ...		10 1128 ...		10 1129 ...		10 1130 ...		10 1131 ...		10 1132 ...		10 1133 ...		10 1134 ...		10 1135 ...		10 1136 ...		10 1137 ...		10 1138 ...		10 1139 ...		10 1140 ...		10 1141 ...		10 1142 ...		10 1143 ...		10 1144 ...		10 1145 ...		10 1146 ...		10 1147 ...		10 1148 ...		10 1149 ...		10 1150 ...		10 1151 ...		10 1152 ...		10 1153 ...		10 1154 ...		10 1155 ...		10 1156 ...		10 1157 ...		10 1158 ...		10 1159 ...		10 1160 ...		10 1161 ...		10 1162 ...		10 1163 ...		10 1164 ...		10 1165 ...		10 1166 ...		10 1167 ...		10 1168 ...		10 1169 ...		10 1170 ...		10 1171 ...		10 1172 ...		10 1173 ...		10 1174 ...		10 1175 ...		10 1176 ...		10 1177 ...		10 1178 ...		10 1179 ...		10 1180 ...		10 1181 ...		10 1182 ...		10 1183 ...		10 1184 ...		10 1185 ...		10 1186 ...		10 1187 ...		10 1188 ...		10 1189 ...		10 1190 ...		10 1191 ...		10 1192 ...		10 1193 ...		10 1194 ...		10 1195 ...		10 1196 ...		10 1197 ...		10 1198 ...		10 1199 ...		10 1200 ...		10 1201 ...		10 1202 ...		10 1203 ...		10 1204 ...		10 1205 ...		10 1206 ...		10 1207 ...		10 1208 ...		10 1209 ...		10 1210 ...		10 1211 ...		10 1212 ...		10 1213 ...		10 1214 ...		10 1215 ...		10 1216 ...		10 1217 ...		10 1218 ...		10 1219 ...		10 1220 ...		10 1221 ...		10 1222 ...		10 1223 ...		10 1224 ...		10 1225 ...		10 1226 ...		10 1227 ...		10 1228 ...		10 1229 ...		10 1230 ...		10 1231 ...		10 1232 ...		10 1233 ...		10 1234 ...		10 1235 ...		10 1236 ...		10 1237 ...		10 1238 ...		10 1239 ...		10 1240 ...		10 1241 ...		10 1242 ...		10 1243 ...		10 1244 ...		10 1245 ...		10 1246 ...		10 1247 ...		10 1248 ...		10 1249 ...		10 1250 ...		10 1251 ...		10 1252 ...		10 1253 ...		10 1254 ...		10 1255 ...		10 1256 ...		10 1257 ...		10 1258 ...		10 1259 ...		10 1260 ...		10 1261 ...		10 1262 ...		10 1263 ...		10 1264 ...		10 1265 ...		10 1266 ...		10 1267 ...		10 1268 ...		10 1269 ...		10 1270 ...		10 1271 ...		10 1272 ...		10 1273 ...		10 1274 ...		10 1275 ...		10 1276 ...		10 1277 ...		10 1278 ...		10 1279 ...		10 1280 ...		10 1281 ...		10 1282 ...		10 1283 ...		10 1284 ...		10 1285 ...		10 1286 ...		10 1287 ...		10 1288 ...		10 1289 ...		10 1290 ...		10 1291 ...		10 1292 ...		10 1293 ...		10 1294 ...		10 1295 ...		10 1296 ...		10 1297 ...		10 1298 ...		10 1299 ...		10 1300 ...		10 1301 ...		10 1302 ...		10 1303 ...		10 1304 ...		10 1305 ...		10 1306 ...		10 1307 ...		10 1308 ...		10 1309 ...		10 1310 ...		10 1311 ...		10 1312 ...		10 1313 ...		10 1314 ...		10 1315 ...		10 1316 ...		10 1317 ...		10 1318 ...		10 1319 ...		10 1320 ...		10 1321 ...		10 1322 ...		10 1323 ...		10 1324 ...		10 1325 ...		10 1326 ...		10 1327 ...		10 1328 ...		10 1329 ...		10 1330 ...		10 1331 ...		10 1332 ...		10 1333 ...		10 1334 ...		10 1335 ...		10 1336 ...		10 1337 ...		10 1338 ...		10 1339 ...		10 1340 ...		10 1341 ...		10 1342 ...		10 1343 ...		10 1344 ...		10 1345 ...		10 1346 ...		10 1347 ...		10 1348 ...		10 1349 ...		10 1350 ...		10 1351 ...		10 1352 ...		10 1353 ...		10 1354 ...		10 1355 ...		10 1356 ...		10 1357 ...		10 1358 ...		10 1359 ...		10 1360 ...		10 1361 ...		10 1362 ...		10 1363 ...		10 1364 ...		10 1365 ...		10 1366 ...		10 1367 ...		10 1368 ...		10 1369 ...		10 1370 ...		10 1371 ...		10 1372 ...		10 1373 ...		10 1374 ...		10 1375 ...		10 1376 ...		10 1377 ...		10 1378 ...		10 1379 ...		10 1380 ...		10 1381 ...		10 1382 ...		10 1383 ...		10 1384 ...		10 1385 ...		10 1386 ...		10 1387 ...		10 1388 ...		10 1389 ...		10 1390 ...		10 1391 ...		10 1392 ...		10 1393 ...		10 1394 ...		10 1395 ...		10 1396 ...		10 1397 ...		10 1398 ...		10 1399 ...		10 1400 ...		10 1401 ...		10 1402 ...		10 1403 ...		10 1404 ...		10 1405 ...		10 1406 ...		10 1407 ...		10 1408 ...		10 1409 ...		10 1410 ...		10 1411 ...		10 1412 ...		10 1413 ...		10 1414 ...		10 1415 ...		10 1416 ...		10 1417 ...		10 1418 ...		10 1419 ...		10 1420 ...		10 1421 ...		10 1422 ...		10 1423 ...		10 1424 ...		10 1425 ...		10 1426 ...		10 1427 ...		10 1428 ...		10 1429 ...		10 1430 ...		10 1431 ...		10 1432 ...		10 1433 ...		10 1434 ...		10 1435 ...		10 1436 ...		10 1437 ...		10 1438 ...		10 1439 ...		10 1440 ...		10 1441 ...		10 1442 ...		10 1443 ...		10 1444 ...		10 1445 ...		10 1446 ...		10 1447 ...		10 1448 ...		10 1449 ...		10 1450 ...		10 1451 ...		10 1452 ...		10 1453 ...		10 1454 ...		10 1455 ...		10 1456 ...		10 1457 ...		10 141	
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Fullmax – High-performance machine reamers, short

- ▲ extremely irregular pitch
- ▲ designed for high-speed machining
- ▲ specialised geometries and coatings
- ▲ tolerance: Ø 2,96 – 5,96 mm = +0,004 mm
- ▲ tolerance: Ø 5,97 – 20,05 mm = +0,005 mm



KOMET \ Performance



DC +0,004/+0,005 mm	OAL mm	L mm	LU mm	DCONMS mm	h6	ZEFP
2,96 - 3,96	50	12	22	4	4	
3,97	50	12	22	4	4	
3,98	50	12	22	4	4	
3,99	50	12	22	4	4	
4,00	50	12	22	4	4	
4,01	50	12	22	4	4	
4,02	50	12	22	4	4	
4,03	50	12	22	4	4	
4,04 - 4,05	50	12	22	4	4	
4,06 - 4,96	64	12	28	6	4	
4,97	64	12	28	6	4	
4,98	64	12	28	6	4	
4,99	64	12	28	6	4	
5,00	64	12	28	6	4	
5,01	64	12	28	6	4	
5,02	64	12	28	6	4	
5,03	64	12	28	6	4	
5,04 - 5,96	64	12	28	6	4	
5,97	64	12	28	6	4	
5,98	64	12	28	6	4	
5,99	64	12	28	6	4	
6,00	64	12	28	6	4	
6,01	64	12	28	6	4	
6,02	64	12	28	6	4	
6,03	64	12	28	6	4	
6,04 - 6,05	64	12	28	6	4	
6,06 - 7,96	70	16	34	8	6	
7,97	70	16	34	8	6	
7,98	70	16	34	8	6	
7,99	70	16	34	8	6	
8,00	70	16	34	8	6	
8,01	70	16	34	8	6	
8,02	70	16	34	8	6	
8,03	70	16	34	8	6	
8,04 - 8,05	70	16	34	8	6	
8,06 - 9,96	80	16	40	10	6	
9,97	80	16	40	10	6	
9,98	80	16	40	10	6	
9,99	80	16	40	10	6	
10,00	80	16	40	10	6	
10,01	80	16	40	10	6	
10,02	80	16	40	10	6	
10,03	80	16	40	10	6	
10,04 - 10,05	80	16	40	10	6	
10,06 - 11,96	90	20	45	12	6	
11,97	90	20	45	12	6	
11,98	90	20	45	12	6	
11,99	90	20	45	12	6	
12,00	90	20	45	12	6	
12,01	90	20	45	12	6	
12,02	90	20	45	12	6	
12,03	90	20	45	12	6	
12,04 - 12,05	90	20	45	12	6	
12,06 - 14,05	90	20	45	14	6	
14,06 - 15,96	93	20	48	16	6	
15,97 - 16,05	93	20	48	16	8	
16,06 - 18,05	100	20	52	18	8	
18,06 - 20,05	102	20	52	20	8	

P	●
M	●
K	●
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S	○
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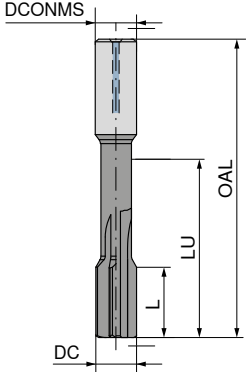
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 25 working days

Fullmax – High-performance machine reamers, short

- ▲ extremely irregular pitch
- ▲ designed for high-speed machining
- ▲ specialised geometries and coatings
- ▲ tolerance: Ø 2,96 – 5,96 mm = +0,004 mm
- ▲ tolerance: Ø 5,97 – 20,05 mm = +0,005 mm



KOMET \ Performance



DC +0,004/+0,005 mm	OAL mm	L mm	LU mm	DCONMS mm	h6	ZEFP
2,96 - 3,96	50	12	22	4	4	
3,97	50	12	22	4	4	
3,98	50	12	22	4	4	
3,99	50	12	22	4	4	
4,00	50	12	22	4	4	
4,01	50	12	22	4	4	
4,02	50	12	22	4	4	
4,03	50	12	22	4	4	
4,04 - 4,05	50	12	22	4	4	
4,06 - 4,96	64	12	28	6	4	
4,97	64	12	28	6	4	
4,98	64	12	28	6	4	
4,99	64	12	28	6	4	
5,00	64	12	28	6	4	
5,01	64	12	28	6	4	
5,02	64	12	28	6	4	
5,03	64	12	28	6	4	
5,04 - 5,96	64	12	28	6	4	
5,97	64	12	28	6	4	
5,98	64	12	28	6	4	
5,99	64	12	28	6	4	
6,00	64	12	28	6	4	
6,01	64	12	28	6	4	
6,02	64	12	28	6	4	
6,03	64	12	28	6	4	
6,04 - 6,05	64	12	28	6	4	
6,06 - 7,96	70	16	34	8	6	
7,97	70	16	34	8	6	
7,98	70	16	34	8	6	
7,99	70	16	34	8	6	
8,00	70	16	34	8	6	
8,01	70	16	34	8	6	
8,02	70	16	34	8	6	
8,03	70	16	34	8	6	
8,04 - 8,05	70	16	34	8	6	
8,06 - 9,96	80	16	40	10	6	
9,97	80	16	40	10	6	
9,98	80	16	40	10	6	
9,99	80	16	40	10	6	
10,00	80	16	40	10	6	
10,01	80	16	40	10	6	
10,02	80	16	40	10	6	
10,03	80	16	40	10	6	
10,04 - 10,05	80	16	40	10	6	
10,06 - 11,96	90	20	45	12	6	
11,97	90	20	45	12	6	
11,98	90	20	45	12	6	
11,99	90	20	45	12	6	
12,00	90	20	45	12	6	
12,01	90	20	45	12	6	
12,02	90	20	45	12	6	
12,03	90	20	45	12	6	
12,04 - 12,05	90	20	45	12	6	
12,06 - 14,05	90	20	45	14	6	
14,06 - 15,96	93	20	48	16	6	
15,97 - 16,05	93	20	48	16	8	
16,06 - 18,05	100	20	52	18	8	
18,06 - 20,05	102	20	52	20	8	

P	●
M	●
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O	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 25 working days



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

▲ extremely irregular pitch

N

DC _{H7} mm	OAL mm	L mm	LU mm	DCONMS _{H7} mm	ZEFP	40 410 ...	EUR	40 400 ...	EUR
2,0	49	11	31	2,0	4	020	21,24	020	21,24
2,1	49	11	31	2,0	4	021	25,40	021	25,40
2,2	53	12	35	2,2	4	022	25,40	022	25,40
2,3	53	12	35	2,2	4	023	25,40	023	25,40
2,4	57	14	34	2,5	4	024	25,40	024	25,40
2,5	57	14	34	2,5	4	025	22,82	025	22,82
2,6	57	14	34	2,5	4	026	27,29	026	27,29
2,7	61	15	36	3,0	4	027	27,29	027	27,29
2,8	61	15	36	3,0	4	028	27,29	028	27,29
2,9	61	15	36	3,0	4	029	27,29	029	27,29
3,0	61	15	36	3,0	4	030	24,58	030	24,58
3,1	61	15	36	3,0	4	031	29,48	031	29,48
3,2	70	18	40	3,5	4	032	29,48	032	29,48
3,3	70	18	40	3,5	4	033	29,48	033	29,48
3,4	70	18	40	3,5	4	034	29,48	034	29,48
3,5	70	18	40	3,5	4	035	28,02	035	28,02
3,6	70	18	40	3,5	4	036	33,64	036	33,64
3,7	70	18	40	3,5	4	037	33,64	037	33,64
3,8	75	19	43	4,0	4	038	33,64	038	33,64
3,9	75	19	43	4,0	4	039	33,64	039	33,64
4,0	75	19	43	4,0	4	040	30,11	040	30,11
4,1	75	19	43	4,0	4	041	36,25	041	36,25
4,2	75	19	43	4,0	4	042	36,25	042	36,25
4,3	75	21	42	4,5	4	043	36,25	043	36,25
4,4	75	21	42	4,5	4	044	36,25	044	36,25
4,5	75	21	42	4,5	4	045	32,81	045	32,81
4,6	75	21	42	4,5	4	046	39,37	046	39,37
4,7	75	21	42	4,5	4	047	39,37	047	39,37
4,8	86	23	52	5,0	4	048	39,37	048	39,37
4,9	86	23	52	5,0	4	049	39,37	049	39,37
5,0	86	23	52	5,0	4	050	36,97	050	36,97
5,1	86	23	52	5,0	4	051	42,60	051	42,60
5,2	86	23	52	5,0	4	052	42,60	052	42,60
5,3	86	23	52	5,0	6	053	42,60	053	42,60
5,4	93	26	57	5,6	6	054	42,60	054	42,60
5,5	93	26	57	5,6	6	055	39,15	055	39,15
5,6	93	26	57	5,6	6	056	45,10	056	45,10
5,7	93	26	57	5,6	6	057	45,10	057	45,10
5,8	93	26	57	5,6	6	058	45,10	058	45,10
5,9	93	26	57	5,6	6	059	45,10	059	45,10
6,0	93	26	57	5,6	6	060	46,87	060	46,87
6,1	93	26	57	5,6	6	061	53,95	061	53,95
6,2	93	26	57	5,6	6	062	53,95	062	53,95
6,3	101	28	63	6,3	6	063	53,95	063	53,95
6,4	101	28	63	6,3	6	064	53,95	064	53,95
6,5	101	28	63	6,3	6	065	52,50	065	52,50
6,6	101	28	63	6,3	6	066	60,51	066	60,51

Left Hand Helix
Solid carbide

straight flute
Solid carbide

DC _{H7} mm	OAL mm	L mm	LU mm	DCONMS _{H7} mm	ZEFP	40 410 ...	EUR	40 400 ...	EUR
6,7	101	28	63	6,3	6	067	60,51	067	60,51
6,8	109	31	69	7,1	6	068	60,51	068	60,51
6,9	109	31	69	7,1	6	069	60,51	069	60,51
7,0	109	31	69	7,1	6	070	58,74	070	58,74
7,1	109	31	69	7,1	6	071	67,49	071	67,49
7,2	109	31	69	7,1	6	072	67,49	072	67,49
7,3	109	31	69	7,1	6	073	67,49	073	67,49
7,4	109	31	69	7,1	6	074	67,49	074	67,49
7,5	109	31	69	7,1	6	075	63,54	075	63,54
7,6	117	33	75	8,0	6	076	73,12	076	73,12
7,7	117	33	75	8,0	6	077	73,12	077	73,12
7,8	117	33	75	8,0	6	078	73,12	078	73,12
7,9	117	33	75	8,0	6	079	73,12	079	73,12
8,0	117	33	75	8,0	6	080	67,49	080	67,49
8,1	117	33	75	8,0	6	081	74,38	081	74,38
8,2	117	33	75	8,0	6	082	74,38	082	74,38
8,3	117	33	75	8,0	6	083	74,38	083	74,38
8,4	117	33	75	8,0	6	084	74,38	084	74,38
8,5	117	33	75	8,0	6	085	73,32	085	73,32
8,6	125	36	81	9,0	6	086	80,51	086	80,51
8,7	125	36	81	9,0	6	087	80,51	087	80,51
8,8	125	36	81	9,0	6	088	80,51	088	80,51
8,9	125	36	81	9,0	6	089	80,51	089	80,51
9,0	125	36	81	9,0	6	090	78,53	090	78,53
9,1	125	36	81	9,0	6	091	86,35	091	86,35
9,2	125	36	81	9,0	6	092	86,35	092	86,35
9,3	125	36	81	9,0	6	093	86,35	093	86,35
9,4	125	36	81	9,0	6	094	86,35	094	86,35
9,5	125	36	81	9,0	6	095	84,16	095	84,16
9,6	133	38	87	10,0	6	096	92,61	096	92,61
9,7	133	38	87	10,0	6	097	92,61	097	92,61
9,8	133	38	87	10,0	6	098	92,61	098	92,61
9,9	133	38	87	10,0	6	099	92,61	099	92,61
10,0	133	38	87	10,0	6	100	90,63	100	90,63
10,1	133	38	87	10,0	6	101	99,81	101	99,81
10,2	133	38	87	10,0	6	102	99,81	102	99,81
10,3	133	38	87	10,0	6	103	99,81	103	99,81
10,4	133	38	87	10,0	6	104	99,81	104	99,81
10,5	133	38	87	10,0	6	105	94,86	105	94,86
10,6	133	38	87	10,0	6	106	104,13	106	104,13
10,7	142	41	96	10,0	6	107	104,13	107	104,13
10,8	142	41	96	10,0	6	108	104,13	108	104,13
10,9	142	41	96	10,0	6	109	104,13	109	104,13
11,0	142	41		10,0	6	110	102,60	110	102,60
11,1	142	41		10,0	6	111	113,49	111	113,49
11,2	142	41		10,0	6	112	113,49	112	113,49
11,3	142	41		10,0	6	113	113,49	113	113,49
11,4	142	41		10,0	6	114	113,49	114	113,49
11,5	142	41		10,0	6	115	109,44	115	109,44
11,6	142	41		10,0	6	116	119,79	116	119,79
11,7	142	41		10,0	6	117	119,79	117	119,79
11,8	142	41		10,0	6	118	119,79	118	119,79
11,9	151	44		10,0	6	119	119,79	119	119,79
12,0	151	44		10,0	6	120	117,72	120	117,72

P

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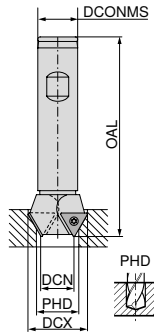


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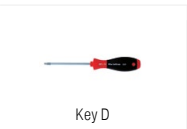
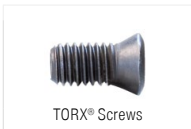
Insert countersink 90°

Supply details:
Indexable insert countersink including clamping screws

KOMET \ Performance



DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 196 ...	
19	7	9,5	2	16	100	TOHX 090204	19000	EUR 60,00
23	11	12,0	2	16	100	TOHX 090204	23000	EUR 60,00
26	11	12,0	1	16	100	TOHX 090204	26000	EUR 60,00
30	12	13,0	2	20	100	TOHX 140305	30000	EUR 60,00
34	16	17,0	2	20	100	TOHX 140305	34000	EUR 60,00
37	19	20,0	2	20	100	TOHX 140305	37000	EUR 60,00

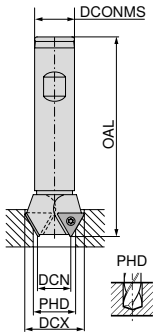


Spare parts		Insert		EUR 62 950 ...		EUR 80 950 ...	
TOHX 090204	M2,6x6,2 - 08IP	2,43	09900	T08 - IP	9,46	125	
TOHX 140305	M3,5x7,3 - 10IP	2,43	12600	T10 - IP	10,72	127	

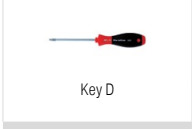
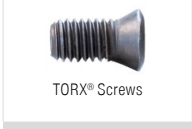
Insert countersink 60°

Supply details:
Indexable insert countersink including clamping screws

KOMET \ Performance



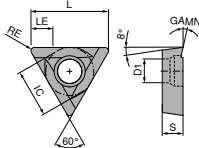
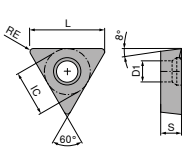
DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 197 ...	
16,5	8,1	8,5	1	16	100	TOHX 090204	16500	EUR 60,00
20,0	11,6	12,0	2	16	100	TOHX 090204	20000	EUR 60,00
22,0	13,6	14,0	2	16	100	TOHX 090204	22000	EUR 60,00
23,5	15,1	15,5	2	16	100	TOHX 090204	23500	EUR 60,00
25,5	17,1	17,5	2	16	100	TOHX 090204	25500	EUR 60,00



Spare parts		Insert		EUR 62 950 ...		EUR 80 950 ...	
TOHX 090204	M2,6x6,2 - 08IP	2,43	09900	T08 - IP	9,46	125	
TOHX 090204	M2,6x5,2 - 08IP	2,43	12000	T08 - IP	9,46	125	

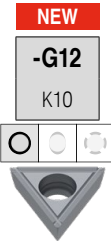
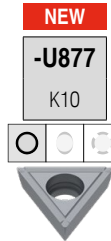
TOHX

Designation	L mm	S mm	D1 mm	IC mm
TOHX 06T1..	6,50	1,80	2,2	4,0
TOHX 0902..	9,12	2,50	2,8	5,6
TOHX 1403..	13,62	3,00	3,8	8,2



TOHX

KOMET \ Performance



ISO	RE mm	62 604 ...		62 603 ...		62 604 ...		62 602 ...		62 603 ...	
06T103EL	0,3	51400		51600		31400		33000		30200	
090204EL	0,4	17,89		17,11		20,24		23,39		17,89	
090204EN	0,4									20,24	
090204FN	0,4									20,84	
140304EL	0,4			52800						32600	
140305EN	0,5			19,95						22,81	
140305FN	0,5										
P											
M											
K											
N											
S											
H											
O											

CERATIZIT Group

With passion and pioneering spirit for carbide

CERATIZIT has been a pioneer in the field of demanding carbide solutions for machining and wear protection for more than 95 years, controlling the entire value chain from powder to the finished end product.

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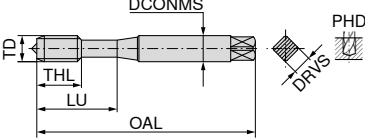
The goal remains the same: CERATIZIT provides competitive advantages – through new technological standards, innovative materials and coatings as well as unique carbide products.



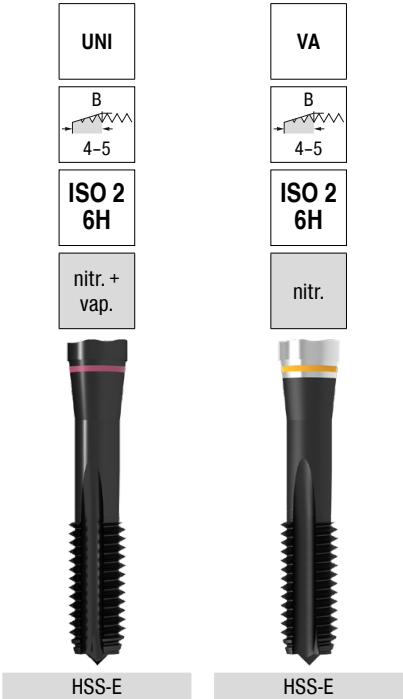
Through hole – Machine taps, right hand



WNT \ Performance

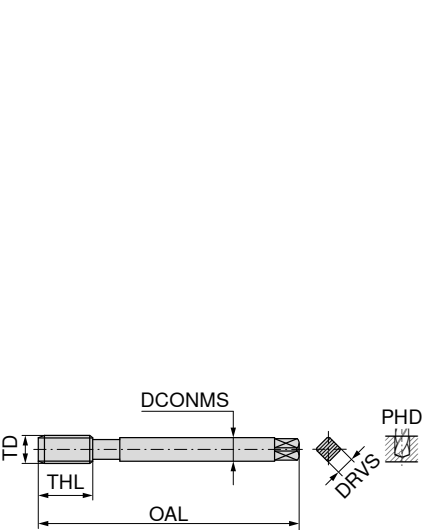


DIN 371 with reinforced shank

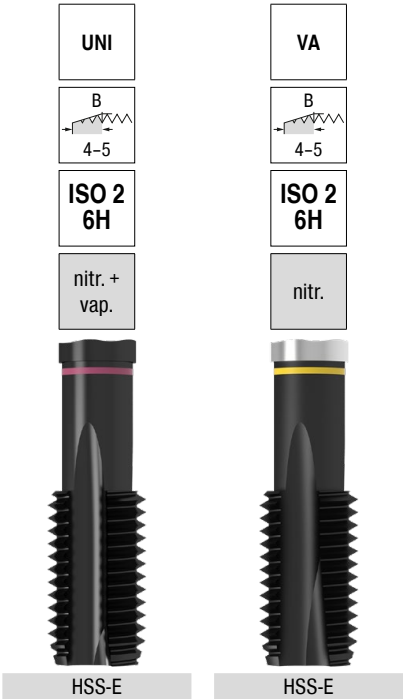


									22 501 ...		22 056 ...	
									EUR		EUR	
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes				
mm	mm	mm	mm	mm	mm	mm	mm					
M1	0,25	40	2,5	2,1	0,75	5	5	2	010	87,38		
M1,2	0,25	40	2,5	2,1	0,95	5	5	2	012	82,94		
M1,4	0,30	40	2,5	2,1	1,10	7	7	3	014	75,06		
M1,6	0,35	40	2,5	2,1	1,25	8	11	3	016	52,71		
M1,7	0,35	40	2,5	2,1	1,35	6	11	2	017	81,09		
M1,8	0,35	40	2,5	2,1	1,45	6	11	2	018	111,35		
M2	0,40	45	2,8	2,1	1,60	7	12	3	020	38,31		
M2	0,40	45	2,8	2,1	1,60	7	12	2			020	28,39
M2,2	0,45	45	2,8	2,1	1,75	7	12	2	022	40,83		
M2,5	0,45	50	2,8	2,1	2,05	9	14	2	025	37,66		
M3	0,50	56	3,5	2,7	2,50	11	18	3	030	28,21		
M3,5	0,60	56	4,0	3,0	2,90	12	20	3	035	30,98		
M4	0,70	63	4,5	3,4	3,30	13	21	3	040	25,60		
M5	0,80	70	6,0	4,9	4,20	15	25	3	050	26,26		
M6	1,00	80	6,0	4,9	5,00	17	30	3	060	26,63		
M7	1,00	80	7,0	5,5	6,00	17	30	3	070	37,20		
M8	1,25	90	8,0	6,2	6,80	20	35	3	080	30,15		
M10	1,50	100	10,0	8,0	8,50	22	39	3	100	36,18		
M12	1,75	110	12,0	9,0	10,20	24	44	3	120	53,25		

1) Tol. ISO 1 4H ≤ M1.4



DIN 376 with reduced shank



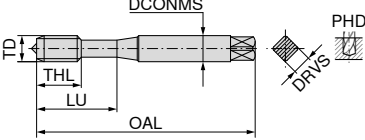
									22 502 ...		22 057 ...	
									EUR		EUR	
TD	TP	OAL	DCONMS	DRVS	PHD	THL	Flutes					
mm	mm	mm	mm	mm	mm	mm						
M3	0,50	56	2,2		2,5	11	3	030	52,23			
M4	0,70	63	2,8	2,1	3,3	13	3	040	34,79			
M5	0,80	70	3,5	2,7	4,2	15	3	050	33,22			
M6	1,00	80	4,5	3,4	5,0	17	3	060	32,57			
M8	1,25	90	6,0	4,9	6,8	20	3	080	35,72			
M10	1,50	100	7,0	5,5	8,5	22	3	100	41,39			
M12	1,75	110	9,0	7,0	10,2	24	3	120	40,46			
M14	2,00	110	11,0	9,0	12,0	26	3	140	58,36			
M16	2,00	110	12,0	9,0	14,0	27	3	160	59,01			
M18	2,50	125	14,0	11,0	15,5	30	3	180	116,03			
M20	2,50	140	16,0	12,0	17,5	32	3	200	90,27			
M22	2,50	140	18,0	14,5	19,5	32	3	220	144,84			
M24	3,00	160	18,0	14,5	21,0	34	3	240	117,81			
M27	3,00	160	20,0	16,0	24,0	36	3	270	164,22			
M30	3,50	180	22,0	18,0	26,5	40	4	300	193,04			
M33	3,50	180	25,0	20,0	29,5	40	4	330	445,40			
M36	4,00	200	28,0	22,0	32,0	50	4	360	530,74			
M42	4,50	200	32,0	24,0	37,5	56	4	420	1.010,65			
M48	5,00	250	36,0	29,0	43,0	65	4	480	1.020,00			

P	12	8
M	7	6
K	12	
N		
S		
H		
O		

Blind hole – Machine taps, right hand



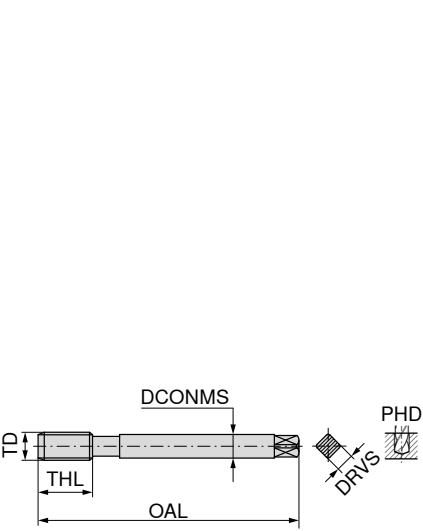
WNT \ Performance



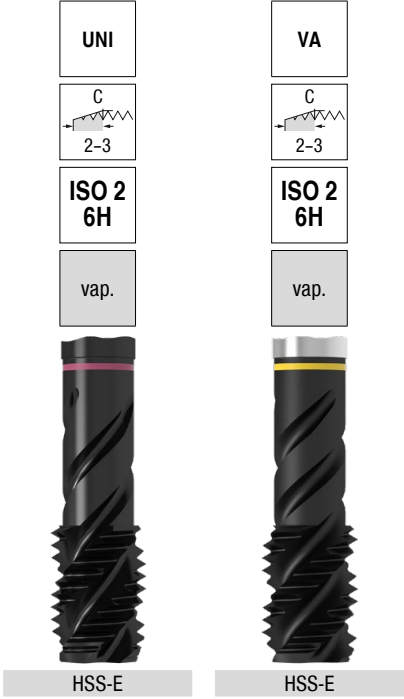
DIN 371 with reinforced shank



									22 518 ...		22 090 ...	
									EUR		EUR	
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes				
mm	mm	mm	mm	mm	mm	mm	mm					
M2	0,40	45	2,8	2,1	1,60	4,0	12	2	020	29,60		
M2,2	0,45	45	2,8	2,1	1,75	4,5	12	2	022	33,50		
M2,3	0,40	45	2,8	2,1	1,90	4,5	12	2	023	35,45		
M2,5	0,45	50	2,8	2,1	2,05	5,0	15	2	025	28,39		
M2,6	0,45	50	2,8	2,1	2,15	5,0	15	2	026	33,77		
M3	0,50	56	3,5	2,7	2,50	6,0	18	3	030	25,24		
M3,5	0,60	56	4,0	3,0	2,90	7,0	20	3	035	27,28		
M4	0,70	63	4,5	3,4	3,30	7,0	21	3	040	26,63		
M5	0,80	70	6,0	4,9	4,20	8,0	25	3	050	26,90		
M6	1,00	80	6,0	4,9	5,00	10,0	30	3	060	27,74		
M7	1,00	80	7,0	5,5	6,00	10,0	30	3	070	40,83		
M8	1,25	90	8,0	6,2	6,80	14,0	35	3	080	32,66		
M10	1,50	100	10,0	8,0	8,50	16,0	39	3	100	39,15		
M12	1,75	110	12,0	9,0	10,20	18,0	44	3	120	43,05		



DIN 376 with reduced shank



									22 519 ...		22 091 ...	
									EUR		EUR	
TD	TP	OAL	DCONMS	DRVS	PHD	THL	Flutes					
mm	mm	mm	mm	mm	mm	mm						
M3	0,50	56	2,2		2,5	6	3	030	44,07			
M4	0,70	63	2,8	2,1	3,3	7	3	040	41,66			
M5	0,80	70	3,5	2,7	4,2	8	3	050	29,60			
M6	1,00	80	4,5	3,4	5,0	10	3	060	31,18			
M8	1,25	90	6,0	4,9	6,8	14	3	080	34,79			
M10	1,50	100	7,0	5,5	8,5	16	3	100	43,79			
M12	1,75	110	9,0	7,0	10,2	18	3	120	45,93			
M14	2,00	110	11,0	9,0	12,0	20	3	140	61,69			
M16	2,00	110	12,0	9,0	14,0	22	3	160	65,70			
M18	2,50	125	14,0	11,0	15,5	25	3	180	100,22			
M20	2,50	140	16,0	12,0	17,5	25	3	200	100,22			
M22	2,50	140	18,0	14,5	19,5	27	4	220	139,23			
M24	3,00	160	18,0	14,5	21,0	30	4	240	125,29			
M27	3,00	160	20,0	16,0	24,0	30	4	270	165,24			
M30	3,50	180	22,0	18,0	26,5	35	4	300	212,50			
M33	3,50	180	25,0	20,0	29,5	35	4	330	407,32			
M36	4,00	200	28,0	22,0	32,0	40	4	360	337,71			

P	12	8
M	7	6
K	12	
N		
S		
H		
O		



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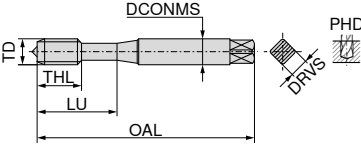


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Through hole / Blind hole – Machine thread formers, right hand



WNT \ Performance

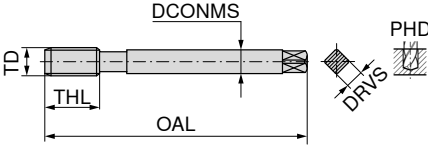


DIN 2174 with reinforced shank

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	Flutes
M1	0,25	40	2,5	2,1	0,90	5	6,5	
M1,2	0,25	40	2,5	2,1	1,10	5	6,5	
M1,4	0,30	40	2,5	2,1	1,28	6	9,0	
M1,6	0,35	40	2,5	2,1	1,47	6	9,0	
M1,7	0,35	40	2,5	2,1	1,57	6	9,0	
M2	0,40	45	2,8	2,1	1,85	7	10,0	
M2	0,40	45	2,8	2,1	1,85	7	10,0	3
M2,5	0,45	50	2,8	2,1	2,33	9	14,0	
M2,5	0,45	50	2,8	2,1	2,33	9	14,0	3
M2,6	0,45	50	2,8	2,1	2,43	9	14,0	
M3	0,50	56	3,5	2,7	2,80	11	18,0	
M3	0,50	56	3,5	2,7	2,80	11	18,0	3
M3,5	0,60	56	4,0	3,0	3,25	12	20,0	
M3,5	0,60	56	4,0	3,0	3,25	12	20,0	3
M4	0,70	63	4,5	3,4	3,70	13	21,0	
M4	0,70	63	4,5	3,4	3,70	13	21,0	4
M5	0,80	70	6,0	4,9	4,65	15	25,0	
M5	0,80	70	6,0	4,9	4,65	15	25,0	5
M6	1,00	80	6,0	4,9	5,60	17	30,0	
M6	1,00	80	6,0	4,9	5,60	17	30,0	4
M8	1,25	90	8,0	6,2	7,40	20	35,0	
M8	1,25	90	8,0	6,2	7,45	20	35,0	5
M10	1,50	100	10,0	8,0	9,35	22	39,0	6
M10	1,50	100	10,0	8,0	9,35	22	39,0	

EC	EC SN
C 2-3	C 2-3
ISO 2X 6HX	ISO 2X 6HX
TiN	TiN
HSS-E ≤ 1100 N/mm² ≤ 1,5xD	HSS-E ≤ 1100 N/mm² ≤ 3xD
22 100 ... EUR	22 105 ... EUR
010 1) 68,29	
012 1) 64,67	
014 1) 57,80	
016 55,76	
017 61,23	
020 39,99	
025 38,78	020 45,93
026 43,15	025 41,94
030 37,11	
035 32,66	030 40,46
040 37,95	035 39,99
050 39,62	040 41,94
060 45,28	050 43,61
080 49,73	060 49,44
	080 54,56
	100 68,29
100 63,09	

1) Tol. ISO 1X 4HX ≤ M1.4



DIN 2174 with reduced shank

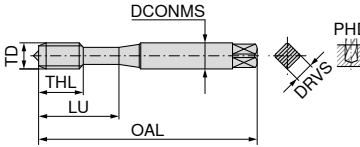
TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	Flutes
M12	1,75	110	9	7	11,25	24	
M12	1,75	110	9	7	11,25	24	6
M14	2,00	110	11	9	13,10	26	5
M16	2,00	110	12	9	15,10	27	7
M16	2,00	110	12	9	15,10	27	
P							18
M							10
K							10
N							22
S							
H							
O							

EC	EC SN
C 2-3	C 2-3
ISO 2X 6HX	ISO 2X 6HX
TiN	TiN
HSS-E ≤ 1100 N/mm² ≤ 1,5xD	HSS-E ≤ 1100 N/mm² ≤ 3xD
22 101 ... EUR	22 106 ... EUR
120 69,30	120 85,17
	140 164,22
	160 131,75
160 116,88	

Through hole – Machine taps, right hand



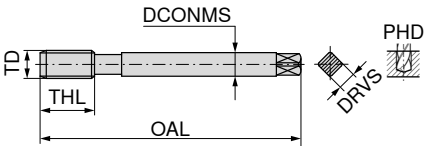
WNT \ Standard



DIN 371 with reinforced shank

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

UNI	VA
B 4-5	B 4-5
ISO 2 6H	ISO 2 6H
TiN	nitr.
POWDERSTEEL HSS-PM ≤ 1000 N/mm² ≤ 3xD	POWDERSTEEL HSS-PM ≤ 1200 N/mm² ≤ 3xD
23 010 ... EUR	23 450 ... EUR
020 9,03	
030 11,26	030 10,51
040 10,33	040 10,61
050 11,55	050 11,45
060 13,78	060 11,64
080 15,35	080 13,03
100 20,29	100 14,80



DIN 376 with reduced shank

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

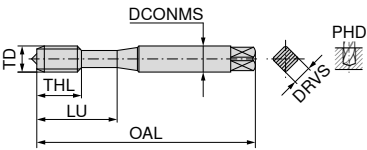
UNI	VA
B 4-5	B 4-5
ISO 2 6H	ISO 2 6H
TiN	nitr.
POWDERSTEEL HSS-PM ≤ 1000 N/mm² ≤ 3xD	POWDERSTEEL HSS-PM ≤ 1200 N/mm² ≤ 3xD
23 021 ... EUR	23 451 ... EUR
120 24,20	120 26,34
	140 34,90
140 36,68	
160 34,07	160 36,95
180 59,67	
200 61,62	200 55,21
P 15	8
M 9	6
K 18	
N 12	22
S	
H	
O	



Blind hole – Machine taps, right hand

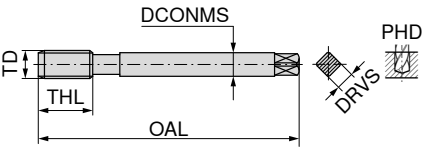


WNT \ Standard



DIN 371 with reinforced shank

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



DIN 376 with reduced shank

TD	TP	OAL	DCONMS	DRVS	PHD	THL	Flutes
mm	mm	mm	mm	mm	mm	mm	
M12	1,75	110	9	7,0	10,2	18	4
M12	1,75	110	9	7,0	10,2	18	3
M14	2,00	110	11	9,0	12,0	20	4
M16	2,00	110	12	9,0	14,0	22	4
M16	2,00	110	12	9,0	14,0	22	3
M20	2,50	140	16	12,0	17,5	25	3
M24	3,00	160	18	14,5	21,0	30	4

P	15	8	10
M	9	6	8
K	18		
N	12	22	24
S			
H			
O			

UNI

C
2-3

ISO 2
6H

TiN



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

VA

C
2-3

ISO 2
6H



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

VA

C
2-3

ISO 2
6H

TiN



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

23 026 ...

EUR

030 12,84

040 12,84

050 13,78

060 16,01

080 18,99

100 23,92

23 426 ...

EUR

030 11,45

040 11,64

050 11,92

060 12,11

080 14,24

100 17,13

23 456 ...

EUR

030 12,84

040 13,97

050 14,24

060 18,33

080 19,64

100 27,08

UNI

C
2-3

ISO 2
6H

TiN



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

VA

C
2-3

ISO 2
6H



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

VA

C
2-3

ISO 2
6H

TiN



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

23 027 ...

EUR

120 28,21

140 40,68

160 40,68

200 46,54

23 427 ...

EUR

120 28,30

140 37,23

160 40,49

200 60,32

240 76,33

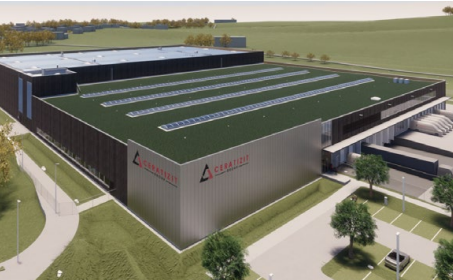
23 457 ...

EUR

120 38,73

160 48,78

200 96,84



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Why own stock? We take care of that for you! With the cutting-edge logistics center of the cutting tools industry, we guarantee that your order will be delivered promptly.



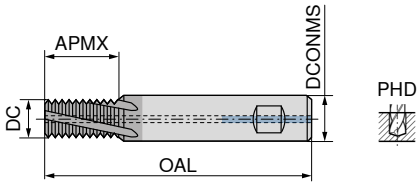
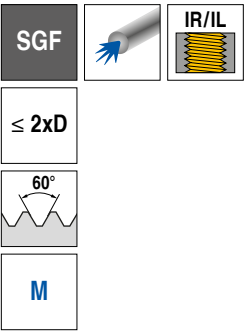
Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



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

Thread milling cutter

- ▲ Profile corrected
- ▲ Hard machining to Ø DC = 4 mm possible



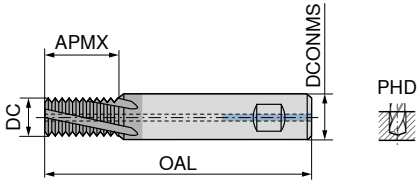
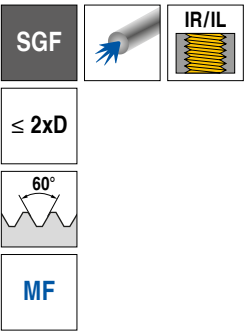
Solid carbide

DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} mm	OAL mm	ZEFP	PHD mm	
2,40	M3	0,50	6,5	4	42	2	2,50	
3,15	M4	0,70	9,0	6	55	3	3,30	
4,00	M5	0,80	11,0	6	55	3	4,20	
4,80	M6	1,00	13,0	6	55	3	5,00	
6,00	M8	1,25	18,0	6	60	3	6,75	
8,00	M10	1,50	21,0	8	70	3	8,50	
9,90	M12	1,75	26,0	10	75	4	10,25	
11,60	M14	2,00	30,0	12	85	4	12,00	
12,00	M16	2,00	34,0	12	85	4	14,00	
14,00	M18	2,50	40,0	14	90	4	15,50	
16,00	M20	2,50	42,0	16	90	4	17,50	
P								●
M								●
K								●
N								●
S								●
H								●
O								●

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

Thread milling cutter

- ▲ Profile corrected
- ▲ Hard machining to Ø DC = 4 mm possible



Solid carbide

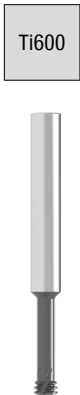
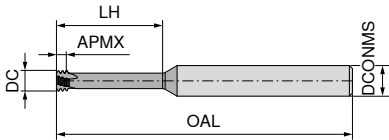
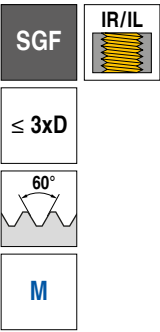
DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} mm	OAL mm	ZEFP	PHD mm	
4,0	M5	0,50	11	6	55	3	4,50	
4,8	M6	0,75	13	6	55	3	5,25	
6,0	M8	1,00	18	6	60	3	7,00	
8,0	M10	1,25	21	8	70	3	8,75	
9,9	M12	1,50	26	10	75	4	10,50	
9,9	M12	1,00	26	10	75	4	11,00	
9,9	M12	1,25	26	10	75	4	10,75	
11,6	M14	1,50	30	12	85	4	12,50	
11,6	M14	1,00	30	12	85	4	13,00	
12,0	M16	1,50	34	12	85	4	14,50	
14,0	M18	1,50	40	14	90	4	16,50	
16,0	M20	1,50	42	16	90	4	18,50	
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.

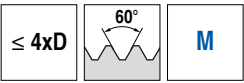
Circular shank thread milling cutter

- ▲ Available on request from M1



Solid carbide

DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEFP	
1,53	M2	0,40	39	0,80	6,0	3	3	
2,37	M3	0,50	58	1,35	9,5	6	3	
3,10	M4	0,70	58	1,95	12,5	6	3	
3,80	M5	0,80	58	2,30	16,0	6	3	
4,65	M6	1,00	58	2,70	20,0	6	3	
6,00	M8	1,25	58	3,20	24,0	6	3	
7,80	M10	1,50	64	3,80	31,5	8	3	
9,00	M12	1,75	73	4,55	37,8	10	3	
50 802 ...								EUR
02000								65,49
03000								65,49
04000								65,49
05000								65,49
06000								65,49
08000								65,49
10000								81,61
12000								91,71



Solid carbide

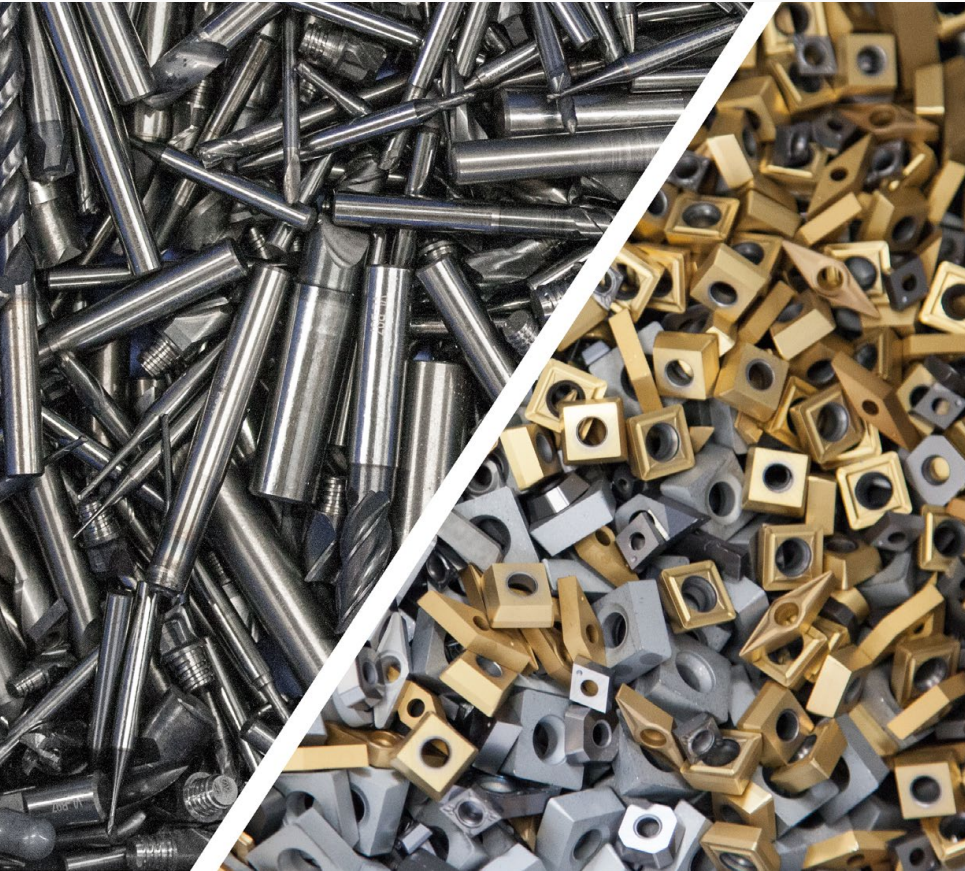
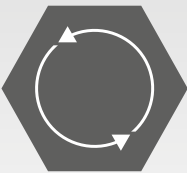
DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEFP	
1,53	M2	0,40	39	1,00	10,4	3	3	
2,40	M3	0,50	39	1,30	12,5	3	3	
3,10	M4	0,70	58	1,80	16,7	6	3	
4,00	M5	0,80	58	2,10	20,8	6	3	
4,80	M6	1,00	58	2,55	25,0	6	3	
6,40	M8	1,25	64	3,15	33,5	8	3	
8,00	M10	1,50	76	3,85	41,5	8	3	
50 803 ...								EUR
02000								73,71
03000								70,43
04000								70,43
05000								70,43
06000								70,43
08000								87,31
10000								87,31

P	●
M	●
K	●
N	●
S	●
H	●
O	●

We come full circle

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.

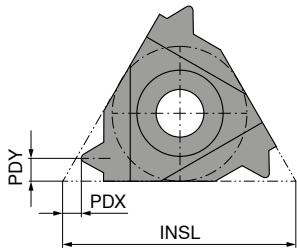


Right hand external thread turning insert

- ▲ Full profile
- ▲ CCN7525 grade with sintered chip breaker for universal application



WNT \ Performance

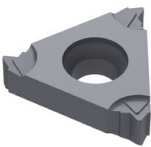
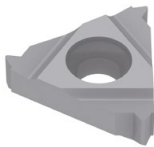
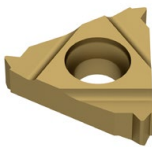


Designation	TP mm	INSL mm	PDX mm	PDY mm
16 ER 0,35	0,35	16	0,8	0,4
16 ER 0,4	0,40	16	0,7	0,4
16 ER 0,5	0,50	16	0,6	0,6
16 ER 0,7	0,70	16	0,6	0,6
16 ER 0,75	0,75	16	0,6	0,6
16 ER 0,8	0,80	16	0,6	0,6
16 ER 1,0	1,00	16	0,7	0,7
16 ER 1,25	1,25	16	0,8	0,9
16 ER 1,5	1,50	16	0,8	1,0
16 ER 1,75	1,75	16	0,9	1,2
16 ER 2,0	2,00	16	1,0	1,3
16 ER 2,5	2,50	16	1,1	1,5
16 ER 3,0	3,00	16	1,2	1,6
22 ER 3,5	3,50	22	1,6	2,3
22 ER 4,0	4,00	22	1,6	2,3
22 ER 4,5	4,50	22	1,7	2,4
22 ER 5,0	5,00	22	1,7	2,5
22 ER 5,5	5,50	22	1,7	2,6
22 ER 6,0	6,00	22	1,9	2,7

CWN1525

HCN2525

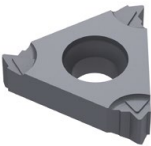
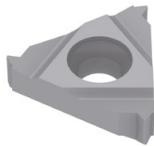
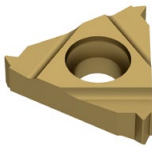
CCN7525



ER	71 220 ...	EUR	ER	71 220 ...	EUR	ER	71 220 ...	EUR
			734	16,13				
			736	16,13				
140	11,13		740	12,23		940	12,23	
141	11,92		741	12,95				
142	11,13		742	12,23		942	12,23	
143	11,13		743	12,23		943	12,23	
144	10,73		744	11,92		944	11,92	
146	10,73		746	11,92		946	11,92	
148	10,73		748	11,92		948	11,92	
150	10,73		750	11,92				
152	10,73		752	11,92		952	11,92	
154	10,73		754	11,92		954	11,92	
156	10,73		756	11,92		956	11,92	
170	16,69		770	18,35				
172	17,56		772	18,98				
174	18,83		774	20,50				
176	18,83		776	20,50				
178	18,83							
180	18,83		780	20,50				



Designation	TPI 1/"	INSL mm	PDX mm	PDY mm
16 ER 8	8	16	1,1	1,5
16 ER 8	8	16	1,1	1,1
16 ER 11	11	16	1,1	1,5
16 ER 12	12	16	1,1	1,4
16 ER 14	14	16	1,0	1,2
16 ER 16	16	16	0,9	1,1
16 ER 18	18	16	0,8	1,0
16 ER 20	20	16	0,8	0,9
16 ER 24	24	16	0,7	0,8
16 ER 28	28	16	0,6	0,7
16 ER 32	32	16	0,6	0,6



ER	71 264 ...	EUR	ER	71 264 ...	EUR	ER	71 264 ...	EUR
174	15,73					974	16,84	
168	15,73							
164	13,82		764	15,10				
160	13,82		760	15,10				
158	13,20		758	14,46		958	14,46	
156	13,82		756	15,10				
154	13,20		754	14,46		954	14,46	
152	13,82		752	15,10				
			748	16,44				
			746	17,72				

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



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X7-Line

Grade description

CTP **X7** 10/15

Degree of hardness
10 ISO 10
15 ISO 15
...

Main application – material

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

X Universal application

Application

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

Universal application range

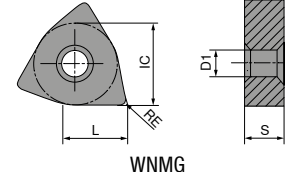
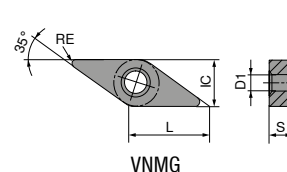
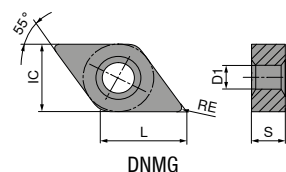
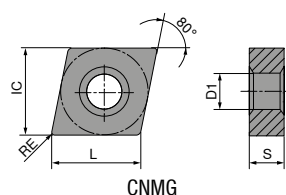
P M K N S

*In future multiple procedures possible
turning | grooving | milling

 Further information on the product can be found in the UP2DATE January 2020 catalogue on page 28-43

CNMG / DNMG / VNMG / WNMG

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



CNMG

-M34
CTPX710

DRAGONSKIN

CERATIZIT \ Performance

M

ISO	RE mm	75 003 ...	EUR
120404EN	0,4	62800	10,16
120408EN	0,8	63000	10,16
120412EN	1,2	63200	10,16
120416EN	1,6	63400	10,16

P ●
M ●
K ●
N ○
S ●
H ●
O ●

VNMG

-M34
CTPX710

DRAGONSKIN

CERATIZIT \ Performance

M

ISO	RE mm	75 009 ...	EUR
160404EN	0,4	61600	18,50
160408EN	0,8	61800	18,50
160412EN	1,2	62000	18,50

P ●
M ●
K ●
N ○
S ●
H ●
O ●

DNMG

-M34
CTPX710

DRAGONSKIN

CERATIZIT \ Performance

M

ISO	RE mm	75 004 ...	EUR
150404EN	0,4	61600	14,58
150408EN	0,8	61800	14,58
150412EN	1,2	62000	14,58
150608EN	0,8	63000	15,98
150612EN	1,2	63200	15,98

P ●
M ●
K ●
N ○
S ●
H ●
O ●

WNMG

-M34
CTPX710

DRAGONSKIN

CERATIZIT \ Performance

M

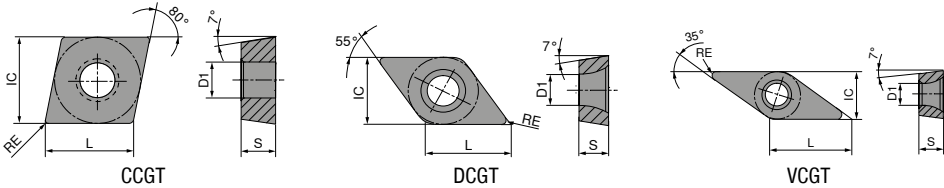
ISO	RE mm	75 008 ...	EUR
080408EN	0,8	61800	12,37
080412EN	1,2	62000	12,37

P ●
M ●
K ●
N ○
S ●
H ●
O ●



CCGT / DCGT / VCGT

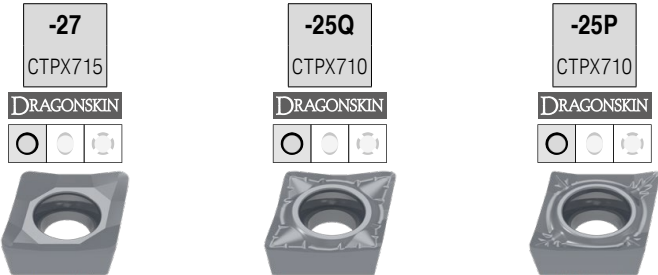
Designation	L	S	D1	IC
	mm	mm	mm	mm
CCGT 0602..	6,40	2,38	2,8	6,35
CCGT 09T3..	9,70	3,97	4,4	9,52
CCGT 1204..	12,90	4,76	5,5	12,70
DCGT 0702..	7,75	2,38	2,8	6,35
DCGT 11T3..	11,60	3,97	4,4	9,52
VCGT 1103..	11,10	3,18	2,9	6,35
VCGT 1604..	16,60	4,76	4,4	9,52
VCGT 2205..	22,10	5,56	5,5	12,70



CCGT

CERATIZIT \ Performance

ISO	RE mm
060202FN	0,2
060204FN	0,4
09T302FN	0,2
09T304FN	0,4
09T308FN	0,8
120402FN	0,2
120404FN	0,4
120408FN	0,8



M	M	M
70 254 ...	70 248 ...	70 248 ...
80200	75400	70200
80400		70400
81400		71400
81600	76600	71600
81800	76800	71800
82600	77800	72800
82800	78000	73000
83000		

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

DCGT

CERATIZIT \ Performance

ISO	RE mm
070202FN	0,2
070204FN	0,4
11T302FN	0,2
11T304FL	0,4
11T304FN	0,4
11T304FR	0,4
11T308FN	0,8



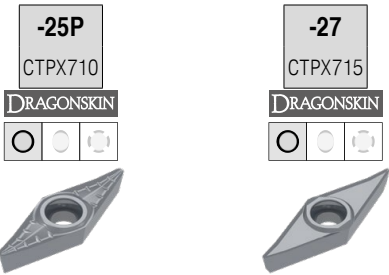
M	M	M
70 260 ...	70 263 ...	70 263 ...
80200		70200
80400		70400
81400		71400
81600	75700	71600
81800	75600	71800
	75800	
	76000	

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

VCGT

CERATIZIT \ Performance

ISO	RE mm
110302FN	0,2
110304FN	0,4
160404FN	0,4
160408FN	0,8
160412FN	1,2
220530FN	3,0



M	M
70 282 ...	70 280 ...
71400	81400
71600	81600
72800	82800
73000	83000
73200	
75000	

P	•	•
M	•	•
K		○
N	•	•
S	•	•
H		
O		○



Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



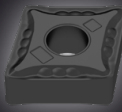
Order by 6:00 pm and get your
guaranteed free express delivery



Machining without compromise

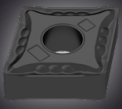
Dragonskin – new grades with the high-performance coating technology from CERATIZIT

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



CTCM120

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



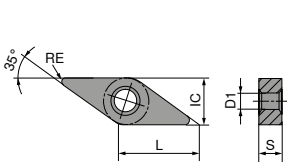
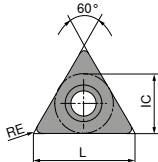
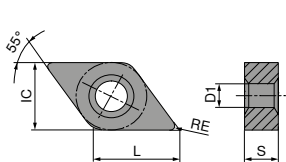
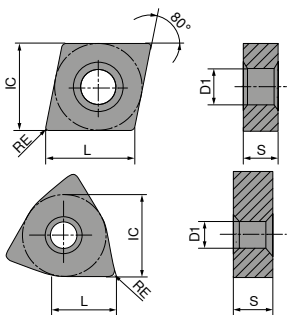
CTCM130

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



CNMG / DNMG / TNMG / VNMG / WNMG

Designation	L mm	S mm	D1 mm	IC mm
CNMG 1204..	12,9	4,76	5,16	12,70
DNMG 1104..	11,6	4,76	3,81	9,52
DNMG 1506..	15,5	6,35	5,16	12,70
TNMG 1604..	16,5	4,76	3,81	9,52
VNMG 1604..	16,6	4,76	3,81	9,52
WNMG 0604..	6,5	4,76	3,81	9,52
WNMG 0804..	8,6	4,76	5,16	12,70



CNMG

		-F30 CTCM120		-F30 CTCM130		-M30 CTCM120		-M30 CTCM130		-M60 CTCM120		-M60 CTCM130	
		F		F		M		M		M		M	
ISO	RE mm	75 010 ...	EUR	75 010 ...	EUR	75 011 ...	EUR	75 011 ...	EUR	75 012 ...	EUR	75 012 ...	EUR
120404EN	0,4	12800	10,79	32800	10,79	13000	10,79	33000	10,79	13000	10,79	33000	10,79
120408EN	0,8	13000	10,79	33000	10,79	13200	10,79	33200	10,79	13200	10,79	33200	10,79
120412EN	1,2					13400	10,79	33400	10,79	13400	10,79	33400	10,79
120416EN	1,6												
P		○		○		○		○		○		○	
M		●		●		●		●		●		●	
K													
N													
S				○				○				○	
H													
O													

DNMG

		-F30 CTCM120		-F30 CTCM130		-M30 CTCM120		-M30 CTCM130		-M60 CTCM120		-M60 CTCM130	
		F		F		M		M		M		M	
ISO	RE mm	75 013 ...	EUR	75 013 ...	EUR	75 014 ...	EUR	75 014 ...	EUR	75 015 ...	EUR	75 015 ...	EUR
110404EN	0,4	10400	11,52	30400	11,52	10600	11,52	30600	11,52				
110408EN	0,8	10600	11,52	30600	11,52	10800	11,52	30800	11,52				
110412EN	1,2												
150604EN	0,4	12800	15,12	32800	15,12	13000	15,12	33000	15,12	13000	15,12	33000	15,12
150608EN	0,8	13000	15,12	33000	15,12	13200	15,12	33200	15,12	13200	15,12	33200	15,12
150612EN	1,2												
P		○		○		○		○		○		○	
M		●		●		●		●		●		●	
K													
N													
S				○				○				○	
H													
O													

WNMG

		-F30 CTCM120		-F30 CTCM130		-M30 CTCM120		-M30 CTCM130		-M60 CTCM120		-M60 CTCM130	
		F		F		M		M		M		M	
ISO	RE mm	75 024 ...	EUR	75 024 ...	EUR	75 025 ...	EUR	75 025 ...	EUR	75 026 ...	EUR	75 026 ...	EUR
060404EN	0,4	10400	9,41	30400	9,41	10600	9,41	30600	9,41	10600	9,41	30600	9,41
060408EN	0,8	10600	9,41	30600	9,41	10800	9,41	30800	9,41	10800	9,41	30800	9,41
060412EN	1,2												
080404EN	0,4	11600	11,84	31600	11,84	11800	11,84	31800	11,84	11800	11,84	31800	11,84
080408EN	0,8	11800	11,84	31800	11,84	12000	11,84	32000	11,84	12000	11,84	32000	11,84
080412EN	1,2												
P		○		○		○		○		○		○	
M		●		●		●		●		●		●	
K													
N													
S				○				○				○	
H													
O													



TNMG

CERATIZIT \ Performance

		-F30			-F30			-M30			-M30			-M60			-M60		
		CTCM120			CTCM130			CTCM120			CTCM130			CTCM120			CTCM130		
		F			F			M			M			M			M		
ISO	RE mm	75 019 ...			75 019 ...			75 020 ...			75 020 ...			75 021 ...			75 021 ...		
160404EN	0,4	11600			31600			11800			31800			11800			31800		
160408EN	0,8	11800			31800			12000			32000			12000			32000		
160412EN	1,2																		
		EUR			EUR			EUR			EUR			EUR			EUR		
		9,64			9,64			9,64			9,64			9,64			9,64		
		9,64			9,64			9,64			9,64			9,64			9,64		
P		○			○			○			○			○			○		
M		●			●			●			●			●			●		
K																			
N																			
S					○						○						○		
H																			
O																			

VNMG

CERATIZIT \ Performance

		-F30			-F30			-M30			-M30		
		CTCM120			CTCM130			CTCM120			CTCM130		
		F			F			M			M		
ISO	RE mm	75 022 ...			75 022 ...			75 023 ...			75 023 ...		
160404EN	0,4	11600			31600			11800			31800		
160408EN	0,8	11800			31800			11800			31800		
		EUR			EUR			EUR			EUR		
		19,45			19,45			19,45			19,45		
		19,45			19,45			19,45			19,45		
P		○			○			○			○		
M		●			●			●			●		
K													
N													
S					○						○		
H													
O													

Cutting data standard values

						DRAGONSKIN	DRAGONSKIN
Material sub-group		Index	Composition / Structure / Heat treatment		Strength N/mm ² / HB / HRC	CTCM120	CTCM130
						v _c m/min	
P	Non alloyed steel	P.1.1	< 0,15 % C	Annealed	420 N/mm ² / 125 HB	229	184
		P.1.2	< 0,45 % C	Annealed	640 N/mm ² / 190 HB	200	152
		P.1.3		tempered	840 N/mm ² / 250 HB	173	123
		P.1.4	< 0,75 % C	Annealed	910 N/mm ² / 270 HB	164	113
		P.1.5		tempered	1010 N/mm ² / 300 HB	150	98
	Low alloyed steel	P.2.1		Annealed	610 N/mm ² / 180 HB	204	157
		P.2.2		tempered	930 N/mm ² / 275 HB	161	110
		P.2.3		tempered	1010 N/mm ² / 300 HB	150	98
		P.2.4		tempered	1200 N/mm ² / 375 HB	116	61
	High-alloy steel and high-alloy tool steel	P.3.1		Annealed	680 N/mm ² / 200 HB	159	124
		P.3.2		Hardened and tempered	1100 N/mm ² / 300 HB	116	81
		P.3.3		Hardened and tempered	1300 N/mm ² / 400 HB	73	38
Stainless steel	P.4.1	Ferritic / martensitic	Annealed	680 N/mm ² / 200 HB	159	124	
	P.4.2	martensitic	tempered	1010 N/mm ² / 300 HB	138	103	
M	Stainless steel	M.1.1	Austenitic / austenitic-ferritic	Quenched	610 N/mm ² / 180 HB	159	124
		M.2.1	austenitic	tempered	300 HB	116	81
		M.3.1	Austenitic / ferritic (Duplex)		780 N/mm ² / 230 HB	146	111



CTCM120

Turning Stainless Steel

Follow our video on youtube.com

The cutting data is strongly influenced by external conditions, such as the stability of the tool and workpiece clamping, material and type of machine. The specified values represent guideline cutting data that can be adjusted by approx. ±20% according to the usage conditions.

Cutting data standard values for negative inserts

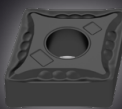
		-F30						-M30						-M60					
	Designation	f			a _p			f			a _p			f			a _p		
		min.	Recom- mended mm/rev.	max.	min.	Recom- mended mm	max.	min.	Recom- mended mm/rev.	max.	min.	Recom- mended mm	max.	min.	Recom- mended mm/rev.	max.	min.	Recom- mended mm	max.
	CN.. 120404	0,05	0,15	0,25	0,4	1,0	2,0												
	CN.. 120408	0,10	0,22	0,35	0,8	1,5	2,5	0,15	0,25	0,40	1,0	2,0	4,5	0,25	0,30	0,50	1,5	2,5	6,0
	CN.. 120412							0,20	0,30	0,50	1,2	2,5	5,0	0,30	0,35	0,55	2,0	3,0	6,0
	CN.. 120416							0,25	0,35	0,55	1,6	2,5	5,0	0,30	0,40	0,60	2,0	3,0	6,0
	CN.. 160612													0,30	0,35	0,55	2,0	3,0	8,0
	DN.. 110404	0,05	0,15	0,25	0,4	1,0	2,0												
	DN.. 110408	0,10	0,20	0,35	0,8	1,5	2,5	0,15	0,25	0,40	1,0	2,0	4,5						
	DN.. 110412							0,20	0,30	0,50	1,2	2,0	4,5						
	DN.. 150604	0,05	0,15	0,25	0,4	1,0	2,0												
	DN.. 150608	0,10	0,20	0,35	0,8	1,5	2,5	0,15	0,25	0,40	1,0	2,0	5,5	0,25	0,30	0,45	1,5	2,5	6,0
	DN.. 150612							0,20	0,30	0,50	1,2	2,0	5,5	0,30	0,40	0,55	1,5	2,5	6,0
	SN.. 120404	0,10	0,15	0,30	0,4	1,0	2,0												
	SN.. 120408	0,15	0,20	0,40	0,8	1,5	2,5	0,20	0,25	0,45	1,0	2,0	4,5	0,30	0,35	0,50	1,5	2,0	6,0
	SN.. 120412	0,15	0,20	0,40	1,2	1,8	2,5	0,25	0,30	0,50	1,2	2,0	5,0	0,30	0,40	0,55	2,0	2,5	6,0
	SN.. 120416													0,30	0,40	0,60	2,0	2,5	6,0
	TN.. 160404	0,05	0,15	0,25	0,4	1,0	2,0												
	TN.. 160408	0,10	0,15	0,35	0,8	1,5	2,5	0,15	0,25	0,40	1,0	2,0	4,5	0,25	0,25	0,45	1,5	2,5	5,0
	TN.. 160412							0,20	0,30	0,50	1,2	2,0	4,5	0,30	0,30	0,55	2,0	2,5	5,5
	VN.. 160404	0,08	0,10	0,20	0,4	1,0	2,0												
	VN.. 160408	0,10	0,15	0,30	0,8	1,5	2,5	0,15	0,25	0,40	1,0	1,5	4,0						
	WN.. 060404	0,05	0,15	0,25	0,4	1,0	2,0												
	WN.. 060408	0,10	0,20	0,30	0,8	1,5	2,5	0,15	0,25	0,40	1,0	1,5	3,5	0,25	0,30	0,45	1,5	2,0	4,0
	WN.. 060412							0,20	0,30	0,45	1,2	1,5	4,0	0,30	0,35	0,50	2,0	2,5	4,5
	WN.. 080404	0,05	0,15	0,25	0,4	1,0	2,0												
	WN.. 080408	0,10	0,20	0,35	0,8	1,5	2,5	0,15	0,25	0,40	1,0	2,0	4,5	0,25	0,30	0,50	1,5	2,0	5,0
	WN.. 080412							0,20	0,30	0,50	1,2	2,0	5,0	0,30	0,35	0,55	2,0	2,5	5,5
Sharp stable																			



Machining without compromise

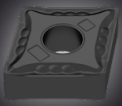
Dragonskin – new grades with the high-performance coating technology from CERATIZIT

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



CTCM120

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



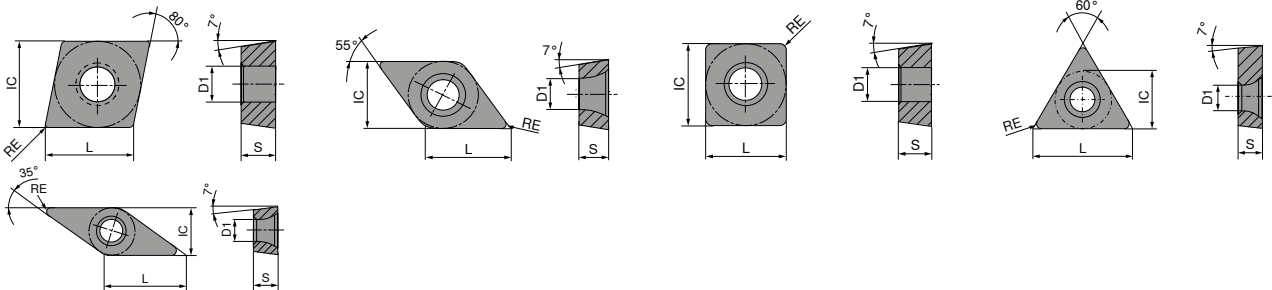
CTCM130

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



CCMT / DCMT / SCMT / TCMT / VCMT

Designation	L	S	D1	IC
	mm	mm	mm	mm
CCMT 0602..	6,40	2,38	2,8	6,35
CCMT 09T3..	9,70	3,97	4,4	9,52
CCMT 1204..	12,90	4,76	5,5	12,70
DCMT 0702..	7,75	2,38	2,8	6,35
DCMT 11T3..	11,60	3,97	4,4	9,52
SCMT 09T3..	9,52	3,97	4,4	9,52
SCMT 1204..	12,70	4,76	5,5	12,70
TCMT 0902..	9,60	2,38	2,5	5,56
TCMT 1102..	11,00	2,38	2,8	6,35
TCMT 16T3..	16,50	3,97	4,4	9,52
VCMT 1604..	16,60	4,76	4,4	9,52



CCMT

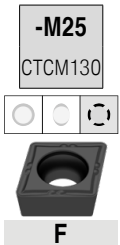
CERATIZIT \ Performance

ISO	RE mm
060204EN	0,4
09T304EN	0,4
09T308EN	0,8
120404EN	0,4
120408EN	0,8

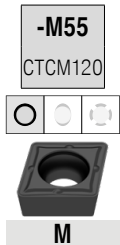
P							
M							
K							
N							
S							
H							
O							



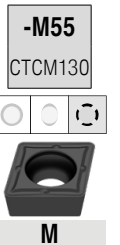
75 210 ...	EUR
10400	7,35
11600	9,17
11800	9,17



75 210 ...	EUR
30400	7,35
31600	9,17
31800	9,17



75 211 ...	EUR
10400	7,35
11600	9,17
11800	9,17
12800	12,91
13000	12,91



75 211 ...	EUR
31600	9,17
31800	9,17
32800	12,91
33000	12,91

DCMT

CERATIZIT \ Performance

ISO	RE mm
070202EN	0,2
070204EN	0,4
070208EN	0,8
11T302EN	0,2
11T304EN	0,4
11T308EN	0,8

P							
M							
K							
N							
S							
H							
O							



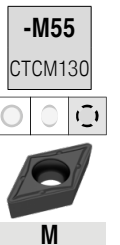
75 213 ...	EUR
10200	7,35
10400	7,35
11400	10,33
11600	10,33
11800	10,33



75 213 ...	EUR
30200	7,35
30400	7,35
31400	10,33
31600	10,33
31800	10,33



75 214 ...	EUR
10400	7,35
10600	7,35
11600	10,33
11800	10,33



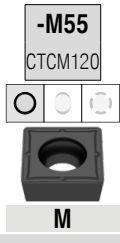
75 214 ...	EUR
30400	7,35
30600	7,35
31600	10,33
31800	10,33

SCMT

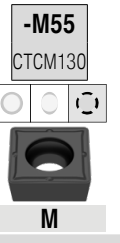
CERATIZIT \ Performance

ISO	RE mm
09T308EN	0,8
120408EN	0,8

P							
M							
K							
N							
S							
H							
O							



75 216 ...	EUR
10600	9,17
11800	12,91



75 216 ...	EUR
30600	9,17
31800	12,91



TCMT

CERATIZIT \ Performance

ISO	RE mm	-M25 CTCM120		-M25 CTCM130		-M55 CTCM120		-M55 CTCM130	
		F	EUR	F	EUR	M	EUR	M	EUR
090204EN	0,4	75 217 ...		75 217 ...		75 218 ...		75 218 ...	
110204EN	0,4	11600	7,22	31600	7,22	10400	7,22	30400	7,22
16T304EN	0,4	12800	9,93	32800	10,43	11600	7,22	31600	7,22
16T308EN	0,8	13000	9,93	33000	10,43	13000	10,43	33000	10,43
P		○		○		○		○	
M		●		●		●		●	
K									
N									
S				○				○	
H									
O									

VCMT

CERATIZIT \ Performance

ISO	RE mm	-M25 CTCM120		-M25 CTCM130		-M55 CTCM120		-M55 CTCM130	
		F	EUR	F	EUR	M	EUR	M	EUR
160404EN	0,4	75 219 ...		75 219 ...		75 220 ...		75 220 ...	
160408EN	0,8	12800	15,12	32800	15,12	12800	15,12	32800	15,12
		13000	15,12	33000	15,12	13000	15,12	33000	15,12
P		○		○		○		○	
M		●		●		●		●	
K									
N									
S				○				○	
H									
O									

Cutting data standard values

Material sub-group		Index	Composition / Structure / Heat treatment		Strength N/mm²* / HB / HRC	CTCM120	CTCM130
						v _c m/min	
P	Non alloyed steel	P.1.1	< 0,15 % C	Annealed	420 N/mm² / 125 HB	229	184
		P.1.2	< 0,45 % C	Annealed	640 N/mm² / 190 HB	200	152
		P.1.3		tempered	840 N/mm² / 250 HB	173	123
		P.1.4	< 0,75 % C	Annealed	910 N/mm² / 270 HB	164	113
		P.1.5		tempered	1010 N/mm² / 300 HB	150	98
	Low alloyed steel	P.2.1		Annealed	610 N/mm² / 180 HB	204	157
		P.2.2		tempered	930 N/mm² / 275 HB	161	110
		P.2.3		tempered	1010 N/mm² / 300 HB	150	98
		P.2.4		tempered	1200 N/mm² / 375 HB	116	61
	High-alloy steel and high-alloy tool steel	P.3.1		Annealed	680 N/mm² / 200 HB	159	124
		P.3.2		Hardened and tempered	1100 N/mm² / 300 HB	116	81
		P.3.3		Hardened and tempered	1300 N/mm² / 400 HB	73	38
	Stainless steel	P.4.1	Ferritic / martensitic	Annealed	680 N/mm² / 200 HB	159	124
		P.4.2	martensitic	tempered	1010 N/mm² / 300 HB	138	103
M	Stainless steel	M.1.1	Austenitic / austenitic-ferritic	Quenched	610 N/mm² / 180 HB	159	124
		M.2.1	austenitic	tempered	300 HB	116	81
		M.3.1	Austenitic / ferritic (Duplex)		780 N/mm² / 230 HB	146	111

The cutting data is strongly influenced by external conditions, such as the stability of the tool and workpiece clamping, material and type of machine. The specified values represent guideline cutting data that can be adjusted by approx. ±20% according to the usage conditions.

Cutting data standard values for negative inserts

Designation	-M25						-M55					
	f			a _p			f			a _p		
	min.	Recom- mended mm/rev.	max.	min.	Recom- mended mm	max.	min.	Recom- mended mm/rev.	max.	min.	Recom- mended mm	max.
	CC.. 060204	0,06	0,13	0,20	0,2	2,0	0,06	0,13	0,20	0,4	1,5	2,6
	CC.. 09T304	0,06	0,14	0,22	0,2	2,2	0,08	0,16	0,24	0,4	1,7	3,0
	CC.. 09T308	0,10	0,20	0,30	0,4	3,2	0,12	0,24	0,35	0,8	2,4	4,0
	CC.. 120404						0,08	0,18	0,28	0,4	2,2	4,0
	CC.. 120408						0,12	0,26	0,40	0,8	2,8	4,8
	DC.. 070202	0,04	0,09	0,13	0,1	1,6						
	DC.. 070204	0,06	0,12	0,18	0,2	2,0	0,06	0,14	0,22	0,4	1,3	2,2
	DC.. 070208						0,08	0,16	0,24	0,8	1,6	2,4
	DC.. 11T302	0,04	0,10	0,16	0,1	2,0						
	DC.. 11T304	0,06	0,14	0,22	0,2	2,2	0,08	0,16	0,24	0,4	1,7	3,0
	DC.. 11T308	0,10	0,20	0,30	0,4	3,2	0,12	0,24	0,35	0,8	2,4	4,0
	SC.. 09T304						0,12	0,24	0,35	0,8	2,4	4,0
	SC.. 09T308						0,12	0,26	0,40	0,8	2,8	4,8
	TC.. 090204						0,06	0,12	0,18	0,4	1,3	2,2
	TC.. 110202											
	TC.. 110204	0,06	0,13	0,20	0,2	2,2	0,06	0,14	0,22	0,4	1,4	2,4
	TC.. 16T304	0,06	0,14	0,22	0,2	3,0						
	TC.. 16T308	0,10	0,20	0,30	0,4	3,4	0,12	0,24	0,35	0,8	2,6	4,4
	VC.. 160404	0,06	0,13	0,20	0,2	2,2	0,08	0,14	0,20	0,4	1,7	3,0
	VC.. 160408	0,10	0,15	0,25	0,4	3,0	0,12	0,21	0,30	0,8	2,1	3,4
Sharp						stable						

The data shows reference values. An adjustment to the actual conditions may be required.



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Turning Inserts – Cermet Grade CTEP110

The more powerful CTEP110 grade replaces the TWC410 and TWC10 grades in our cermet range. The combination of the latest CVD coating technology and proven cermet substrate produces a very high wear resistance with unprecedented toughness. This offers significant advantages in terms of performance and service life of the inserts compared to the TWC410 and TWC10 grades.

Advantages/Benefits

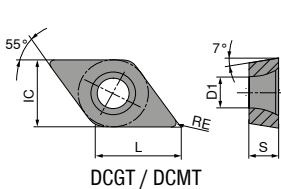
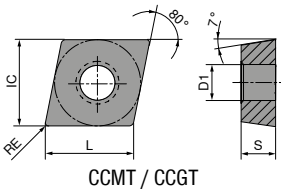
- ▲ Combination of the proven cermet substrate and the latest PVD coating technology
- ▲ Unique multilayer nano coating
- ▲ Combines very high wear resistance and unprecedented toughness
- ▲ Optimized chip breakers

Turning guide (Main catalogue 2021)

Cutting Data	196-215	Chip breakers	220-223
ISO designation system	230+231	Grade overview and description	238+239

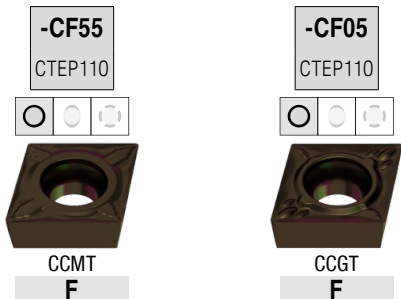
CCMT / CCGT / DCGT / DCMT

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



CCMT / CCGT

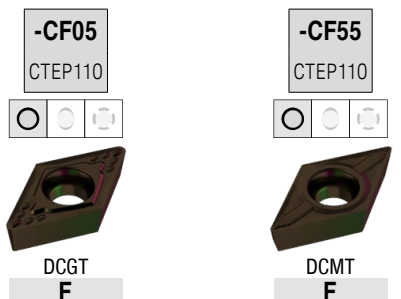
CERATIZIT \ Performance



ISO	RE mm	76 248 ...	EUR	76 247 ...	EUR
060202EN	0,2			002	13,10
060204EN	0,4	004	7,13	004	13,10
09T302EN	0,2			014	13,96
09T304EN	0,4	016	9,14	016	13,96
09T308EN	0,8	018	9,14	018	13,96
120404EN	0,4	028	12,91		
P		●		●	
M		○		○	
K		○		○	
N					
S					
H					
O					

DCGT / DCMT

CERATIZIT \ Performance



ISO	RE mm	76 245 ...	EUR	76 246 ...	EUR
070202EN	0,2	002	13,10	002	7,43
070204EN	0,4	004	13,10	004	7,43
11T302EN	0,2	014	17,34		
11T304EN	0,4	016	17,34	016	10,31
11T308EN	0,8	018	17,34	018	10,31
P		●		●	
M		○		○	
K		○		○	
N					
S					
H					
O					



From single items to large orders!

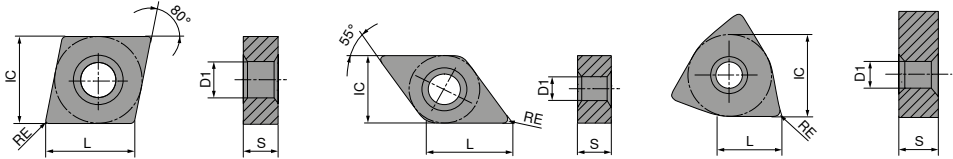
There are no minimum order quantities

No matter which tool you need, we promise you quick and uncomplicated delivery. Even if you only order one item! We do not have minimum order quantities.



CNMG / DNMG / WNMG

Designation	L mm	S mm	D1 mm	IC mm
CNMG 1204..	12,9	4,76	5,16	12,70
CNMG 1606..	16,1	6,35	6,35	15,87
CNMG 1906..	19,3	6,35	7,94	19,05
DNMG 1506..	15,5	6,35	5,16	12,70
WNMG 0804..	8,6	4,76	5,16	12,70



CNMG

CERATIZIT \ Standard

		-FMS CT-P15		-FMS CT-P25		-MRS CT-P15		-MRS CT-P25		-MRS CT-P35	
		F		F		M		M		M	
ISO	RE mm	75 302 ...	EUR	75 302 ...	EUR	75 303 ...	EUR	75 303 ...	EUR	75 303 ...	EUR
120404EN	0,4	02809	3,59	12809	3,59	03009	3,59	13009	3,59	23009	3,59
120408EN	0,8	03009	3,59	13009	3,59	03209	3,59	13209	3,59	23209	3,59
120412EN	1,2	03209	3,59	13209	3,59	03409	3,59	13409	3,59	23409	3,59
120416EN	1,6					04409	5,26	14409	5,26	24409	5,26
160612EN	1,2					04609	5,26	14609	5,26	24609	5,26
160616EN	1,6					05609	7,82	15609	7,82	25609	7,82
190612EN	1,2					05809	7,82	15809	7,82	25809	7,82
190616EN	1,6										
P		●		●		●		●		●	
M		○		○		○		○		○	
K											
N											
S											
H											
O											

DNMG

CERATIZIT \ Standard

		-FMS CT-P15		-FMS CT-P25		-MRS CT-P15		-MRS CT-P25		-MRS CT-P35	
		F		F		M		M		M	
ISO	RE mm	75 306 ...	EUR	75 306 ...	EUR	75 307 ...	EUR	75 307 ...	EUR	75 307 ...	EUR
150604EN	0,4	02809	4,85	12809	4,85	03009	4,85	13009	4,85	23009	4,85
150608EN	0,8	03009	4,85	13009	4,85	03209	4,85	13209	4,85	23209	4,85
150612EN	1,2	03209	4,85	13209	4,85	03409	4,85	13409	4,85	23409	4,85
150616EN	1,6										
P		●		●		●		●		●	
M		○		○		○		○		○	
K											
N											
S											
H											
O											

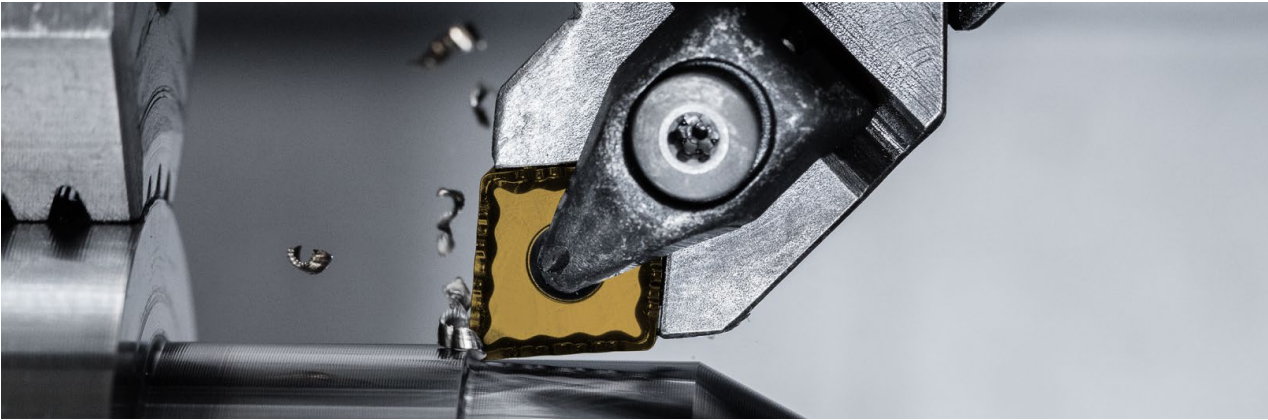
WNMG

CERATIZIT \ Standard

		-FMS CT-P15		-FMS CT-P25		-MRS CT-P15		-MRS CT-P25		-MRS CT-P35	
		F		F		M		M		M	
ISO	RE mm	75 311 ...	EUR	75 311 ...	EUR	75 312 ...	EUR	75 312 ...	EUR	75 312 ...	EUR
080404EN	0,4	01609	4,23	11609	4,23	01809	4,23	11809	4,23	21809	4,23
080408EN	0,8	01809	4,23	11809	4,23	02009	4,23	12009	4,23	22009	4,23
080412EN	1,2	02009	4,23	12009	4,23						
P		●		●		●		●		●	
M		○		○		○		○		○	
K											
N											
S											
H											
O											

Manufactured in high volume for lower cost

Universal application



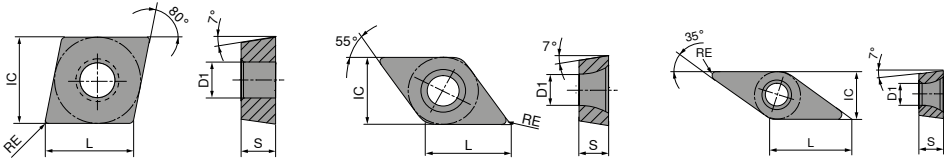
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CCMT / DCMT / VCMT

Designation	L mm	S mm	D1 mm	IC mm
CCMT 09T3..	9,70	3,97	4,4	9,52
CCMT 1204..	12,90	4,76	5,5	12,70
DCMT 0702..	7,75	2,38	2,8	6,35
DCMT 11T3..	11,60	3,97	4,4	9,52
VCMT 1103..	11,10	3,18	2,9	6,35
VCMT 1604..	16,60	4,76	4,4	9,52



CCMT

CERATIZIT \ Standard

ISO	RE mm								
09T304EN	0,4								
09T308EN	0,8								
120404EN	0,4								
120408EN	0,8								
120412EN	1,2								
P									
M									
K									
N									
S									
H									
O									

	-FMS CT-P15	-FMS CT-P25	-MRS CT-P15	-MRS CT-P25
	F	F	M	M
75 300 ...				
01609	EUR 2,61	EUR 2,61	EUR 2,61	EUR 2,61
01809	EUR 2,61	EUR 2,61	EUR 2,61	EUR 2,61
02809	EUR 3,50	EUR 3,50	EUR 3,50	EUR 3,50
03009	EUR 3,50	EUR 3,50	EUR 3,50	EUR 3,50

DCMT

CERATIZIT \ Standard

ISO	RE mm								
070204EN	0,4								
070208EN	0,8								
11T304EN	0,4								
11T308EN	0,8								
P									
M									
K									
N									
S									
H									
O									

	-FMS CT-P15	-FMS CT-P25	-MRS CT-P15	-MRS CT-P25
	F	F	M	M
75 304 ...				
00409	EUR 2,29	EUR 2,29	EUR 2,29	EUR 2,29
00609	EUR 2,29	EUR 2,29	EUR 2,29	EUR 2,29
01609	EUR 2,88	EUR 2,88	EUR 2,88	EUR 2,88
01809	EUR 2,88	EUR 2,88	EUR 2,88	EUR 2,88

VCMT

CERATIZIT \ Standard

ISO	RE mm								
110304EN	0,4								
160404EN	0,4								
160408EN	0,8								
P									
M									
K									
N									
S									
H									
O									

	-FMS CT-P15	-FMS CT-P25	-MRS CT-P15	-MRS CT-P25
	F	F	M	M
75 308 ...				
01609	EUR 4,42	EUR 4,42	EUR 4,42	EUR 4,42
02809	EUR 4,47	EUR 4,47	EUR 4,47	EUR 4,47
03009	EUR 4,47	EUR 4,47	EUR 4,47	EUR 4,47

Manufactured in high volume for lower cost

Universal application



The Original Multi Function Tool

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

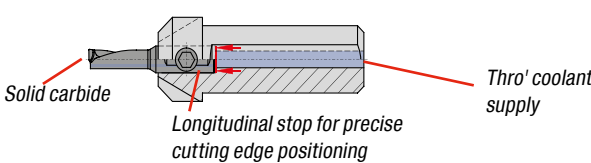
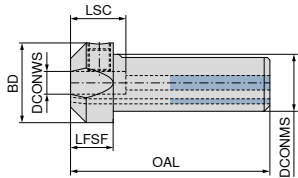
EcoCut guide (Main catalogue 2021)

Cutting Data	25-33	Chip breakers	35+36
Application information	37-41	Application and Grade Comparison	46+47



EcoCut – Adapter Mini

CERATIZIT \ Performance

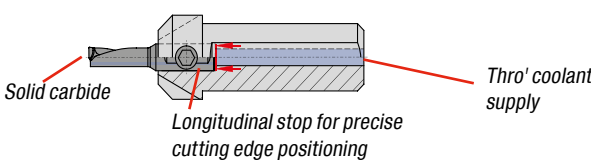
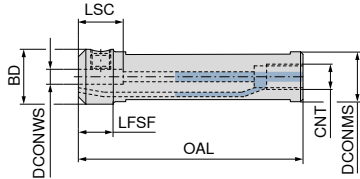


Designation	DCONWS mm	DCONMS mm	BD mm	OAL mm	LFSF mm	LSC mm
EC-ADX16-04	4	16,00	22	59,0	14	18
EC-ADX12-04-E	4	19,05	25	63,5	14	18
EC-ADX20-04	4	20,00	25	64,0	14	18
EC-ADX16-06	6	16,00	22	59,0	14	18
EC-ADX12-06-E	6	19,05	25	63,5	14	18
EC-ADX20-06	6	20,00	25	64,0	14	18
EC-ADX16-08	8	16,00	22	59,0	14	18
EC-ADX12-08-E	8	19,05	25	63,5	14	18
EC-ADX20-08	8	20,00	25	64,0	14	18

70 800 ...	EUR
716	79,00
719	79,00
720	79,00
976	79,00
986	79,00
996	79,00
978	79,00
988	79,00
998	79,00

EcoCut – Mini adapter with coolant connection thread

CERATIZIT \ Performance

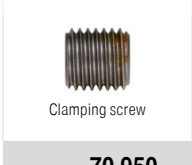


Designation	DCONWS mm	DCONMS mm	BD mm	OAL mm	LFSF mm	LSC mm	Thread
ECA 16-04	4	16,00	20,0	75	14	18	G 1/8
ECA 0750-04	4	19,05	20,0	100	14	18	G 1/8
ECA 20-04	4	20,00	19,6	90	14	18	G 1/8
ECA 22-04	4	22,00	21,6	110	14	18	G 1/8
ECA 25-04	4	25,00	24,6	110	14	18	G 1/8
ECA 1000-04	4	25,40	25,0	110	14	18	G 1/8
ECA 16-06	6	16,00	22,0	75	14	18	G 1/8
ECA 0750-06	6	19,05	22,0	100	14	18	G 1/8
ECA 20-06	6	20,00	22,0	90	14	18	G 1/8
ECA 22-06	6	22,00	21,6	110	14	18	G 1/8
ECA 25-06	6	25,00	24,6	110	14	18	G 1/8
ECA 1000-06	6	25,40	25,0	110	14	18	G 1/8
ECA 16-08	8	16,00	22,0	75	14	18	G 1/8
ECA 0750-08	8	19,05	22,0	100	14	18	G 1/8
ECA 20-08	8	20,00	22,0	90	14	18	G 1/8
ECA 22-08	8	22,00	21,6	110	14	18	G 1/8
ECA 25-08	8	25,00	24,6	110	14	18	G 1/8
ECA 1000-08	8	25,40	25,0	110	14	18	G 1/8

70 801 ...	EUR
716	42,00
719	43,00
720	43,00
722	45,00
725	45,00
726	45,00
816	42,00
819	43,00
820	43,00
822	45,00
825	45,00
826	45,00
916	42,00
919	43,00
920	43,00
922	45,00
925	45,00
926	45,00

Spare parts

DCONWS		EUR	70 950 ...
4	M5x10 ISO 4026	2,82	867
6	M8x1x8 - SW4	2,82	123
8	M8x1x8 - SW4	2,82	123



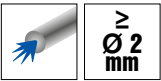
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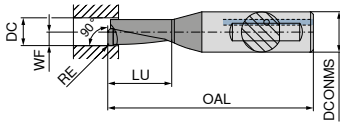
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EcoCut – Mini

▲ Drilling and turning tool for small diameters



CERATIZIT \ Performance



Illustrations show right-hand versions

Designation	DC 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 2,25D AL	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 R/L 4,00D AL	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 2,25D AL	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 02,5 R/L 4,00D AL	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 2,25D AL	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 R/L 4,00D AL	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 2,25D AL	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 03,5 R/L 4,00D AL	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 2,25D AL	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 04 R/L 4,00D AL	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 2,25D AL	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 05 R/L 4,00D AL	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 2,25D AL	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 06 R/L 4,00D AL	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 2,25D AL	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 07 R/L 4,00D AL	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 2,25D AL	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
ECM 08 R/L 4,00D AL	8,0	8	57	32,00	4,00	0,2

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

CTPP435		CTPP435		CTWN425		CTWN425	
DRAGONSKIN		DRAGONSKIN					
							
Solid carbide Left-hand		Solid carbide Right-hand		Solid carbide Left-hand		Solid carbide Right-hand	
70 805 ...		70 804 ...		70 805 ...		70 804 ...	
	EUR		EUR		EUR		EUR
320	50,83	320	50,83			420	44,82
321	53,32	321	53,32	421	47,00	421	47,00
325	52,39	325	52,39	425	46,16	425	46,16
326	54,99	326	54,99	426	48,45	426	48,45
330	54,05	330	54,05	430	47,62	430	47,62
331	56,74	331	56,74	431	50,01	431	50,01
335	56,12	335	56,12	435	49,49	435	49,49
336	58,92	336	58,92	436	51,97	436	51,97
300	59,60	300	59,60	450	52,51	450	52,51
301	62,57	301	62,57	451	55,14	451	55,14
302	61,66	302	61,66	452	53,99	452	53,99
303	64,51	303	64,51	453	56,62	453	56,62
306	63,26	306	63,26	456	55,82	456	55,82
312	66,45	312	66,45	462	58,34	462	58,34
308	65,21	308	65,21	458	57,53	458	57,53
314	68,64	314	68,64	464	60,17	464	60,17
310	67,37	310	67,37	460	59,14	460	59,14
316	70,58	316	70,58	466	62,00	466	62,00



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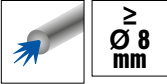


EcoCut – Classic 1.5xD

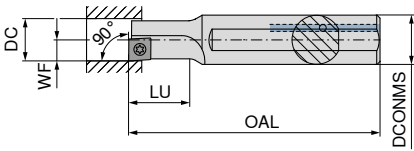
▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



CERATIZIT \ Performance



Illustrations show right-hand versions

Designation	DC mm	DCONMS mm	OAL mm	LU mm	WF mm	torque moment Nm	Insert
ECC 08 L 1,5D 04	8	12	80	12,0	4,0	0,4	XC.T 0401..EL
ECC 08 R 1,5D 04	8	12	80	12,0	4,0	0,4	XC.T 0401..ER
ECC 10 R/L 1,5D 05	10	12	90	15,0	5,0	0,7	XC.T 0502..
ECC 12 R/L 1,5D 06	12	16	100	18,0	6,0	1,0	XC.T 0602..
ECC 14 R/L 1,5D 07	14	16	110	21,0	7,0	1,2	XC.T 0703..
ECC 16 R/L 1,5D 08	16	20	125	24,0	8,0	2,2	XC.T 0803..
ECC 18 R/L 1,5D 09	18	25	135	27,0	9,0	2,2	XC.T 09T3..
ECC 20 R/L 1,5D 10	20	25	150	30,0	10,0	3,2	XC.T 10T3..
ECC 25 R/L 1,5D 13	25	32	180	37,5	12,5	5,0	XC.T 1304..
ECC 32 R/L 1,5D 17	32	40	200	48,0	16,0	5,0	XC.T 1705..



Steel
Left-hand



Steel
Right-hand

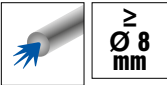
70 805 ...	EUR	70 804 ...	EUR
008	67,00	008	67,00
010	67,00	010	67,00
012	68,00	012	68,00
014	70,00	014	70,00
016	71,00	016	71,00
018	81,00	018	81,00
020	92,00	020	92,00
025	106,00	025	106,00
032	120,00	032	120,00

EcoCut – Classic 2.25xD

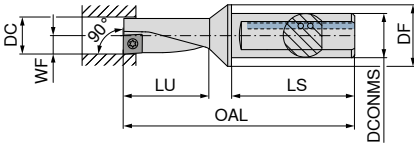
▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



CERATIZIT \ Performance



Illustrations show right-hand versions

Designation	DC mm	DCONMS mm	OAL mm	LU mm	LS mm	WF mm	torque moment Nm	Insert
ECC 08 L 2,25D 04	8	10	60,0	18,0	38	4,0	0,4	XC.T 0401..EL
ECC 08 R 2,25D 04	8	10	60,0	18,0	38	4,0	0,4	XC.T 0401..ER
ECC 10 R/L 2,25D 05	10	12	69,5	22,5	42	5,0	0,7	XC.T 0502..
ECC 12 R/L 2,25D 06	12	16	78,0	27,0	45	6,0	1,0	XC.T 0602..
ECC 14 R/L 2,25D 07	14	16	83,5	31,5	45	7,0	1,2	XC.T 0703..
ECC 16 R/L 2,25D 08	16	20	94,0	36,0	50	8,0	2,2	XC.T 0803..
ECC 18 R/L 2,25D 09	18	25	109,5	40,5	56	9,0	2,2	XC.T 09T3..
ECC 20 R/L 2,25D 10	20	25	111,0	45,0	56	10,0	3,2	XC.T 10T3..
ECC 25 R/L 2,25D 13	25	32	129,0	56,5	60	12,5	5,0	XC.T 1304..
ECC 32 R/L 2,25D 17	32	40	158,0	72,0	70	16,0	5,0	XC.T 1705..



Steel
Left-hand



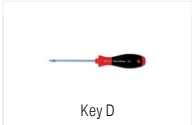
Steel
Right-hand

70 805 ...	EUR	70 804 ...	EUR
108	99,00	108	99,00
110	99,00	110	99,00
112	102,00	112	102,00
114	104,00	114	104,00
116	107,00	116	107,00
118	117,00	118	117,00
120	128,00	120	128,00
125	148,00	125	148,00
132	167,00	132	167,00

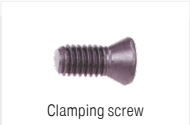
Spare parts

DC

8	T06 - IP	9,63
10	T06 - IP	9,63
12	T07 - IP	9,48
14	T08 - IP	9,46
16 - 18	T09 - IP	10,42
20	T15 - IP	11,03
25 - 32	T20 - IP	11,63



Key D



Clamping screw

80 950 ...	EUR	70 950 ...	EUR
123	M1,8x3,6 - IP	3,47	862
123	M2x4,3 - IP	3,10	863
124	M2,2x5 - IP	3,01	856
125	M2,5x6 - IP	3,86	857
126	M3x7 - IP	2,97	819
128	M3,5x8,6 - IP	2,97	859
129	M4,5x10,5 - IP	2,97	864



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EcoCut – Classic 3xD – Heavy metal

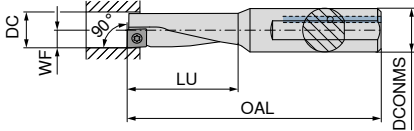
- ▲ Drilling and turning tool
- ▲ vibration-damped

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



CERATIZIT \ Performance



Illustrations show right-hand versions

Designation	DC	DCONMS	OAL	LU	WF	Insert
ECC 08 L 3,00D 04 H	8	12	80	24	4,0	XC.T 0401..EL
ECC 08 R 3,00D 04 H	8	12	80	24	4,0	XC.T 0401..ER
ECC 10 R/L 3,00D 05 H	10	12	85	30	5,0	XC.T 0502..
ECC 12 R/L 3,00D 06 H	12	16	95	36	6,0	XC.T 0602..
ECC 14 R/L 3,00D 07 H	14	16	100	42	7,0	XC.T 0703..
ECC 16 R/L 3,00D 08 H	16	20	110	48	8,0	XC.T 0803..
ECC 18 R/L 3,00D 09 H	18	25	125	54	9,0	XC.T 09T3..
ECC 20 R/L 3,00D 10 H	20	25	130	60	10,0	XC.T 10T3..
ECC 25 R/L 3,00D 13 H	25	32	150	75	12,5	XC.T 1304..
ECC 32 R/L 3,00D 17 H	32	40	185	96	16,0	XC.T 1705..



heavy metal
Left-hand

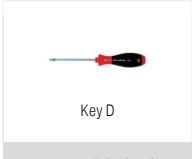


heavy metal
Right-hand

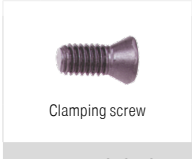
70 805 ...	EUR	70 804 ...	EUR
608	245,00	608	245,00
610	246,00	610	246,00
612	266,00	612	266,00
614	272,00	614	272,00
616	298,00	616	298,00
618	361,00	618	361,00
620	368,00	620	368,00
625	469,00	625	469,00
632	614,00	632	614,00

Spare parts

DC		EUR	80 950 ...	EUR	70 950 ...
8	T06 - IP	9,63	123	M1,8x3,6 - IP	3,47
10	T06 - IP	9,63	123	M2x4,3 - IP	3,10
12	T07 - IP	9,48	124	M2,2x5 - IP	3,01
14	T08 - IP	9,46	125	M2,5x6 - IP	3,86
16 - 18	T09 - IP	10,42	126	M3x7 - IP	2,97
20	T15 - IP	11,03	128	M3,5x8,6 - IP	2,97
25 - 32	T20 - IP	11,63	129	M4,5x10,5 - IP	2,97



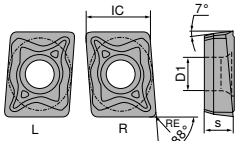
Key D



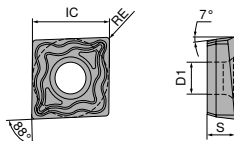
Clamping screw

XCNT

Designation	S	D1	IC
XCNT 0401..	1,80	2,10	4,5
XCNT 0502..	2,10	2,25	5,8
XCNT 0602..	2,38	2,50	6,5
XCNT 0703..	3,18	2,80	7,6
XCNT 0803..	3,18	3,40	8,5
XCNT 09T3..	3,97	3,40	9,6
XCNT 10T3..	3,97	4,40	10,6
XCNT 1304..	4,76	5,30	13,5
XCNT 1705..	5,56	5,30	17,5



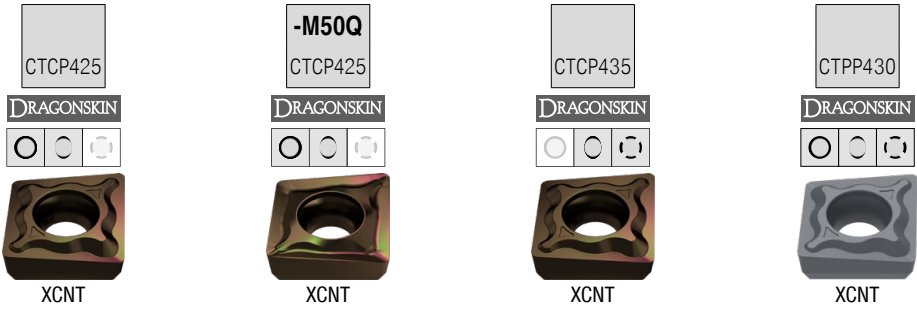
XC. T 04..



XC. T 05../06../07../08../09../
10../13../17..

XCNT

CERATIZIT \ Performance

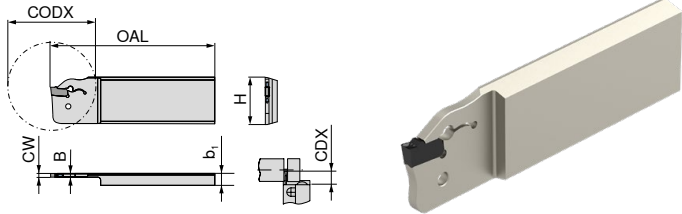


ISO	RE	70 386 ...	EUR	70 386 ...	EUR	70 386 ...	EUR	70 386 ...	EUR
040102EL	0,2	720	14,63	720	14,63	820	14,63	920	14,63
040102ER	0,2	722	14,63	722	14,63	822	14,63	922	14,63
040104EL	0,4	700	14,63	750	15,26	800	14,63	900	14,63
040104ER	0,4	702	14,63	752	15,26	802	14,63	902	14,63
050202EN	0,2	723	14,63	753	15,26	823	14,63	923	14,63
050204EN	0,4	703	14,63	753	15,26	803	14,63	903	14,63
060202EN	0,2	724	14,63	754	15,26	824	14,63	924	14,63
060204EN	0,4	704	14,63	754	15,26	804	14,63	904	14,63
070304EN	0,4	705	14,63	755	15,26	805	14,63	905	14,63
080304EN	0,4	706	14,85	756	15,50	806	14,85	906	14,85
09T304EN	0,4	707	15,07	757	15,82	807	15,07	907	15,07
10T304EN	0,4	708	15,82	758	16,47	808	15,82	908	15,82
10T308EN	0,8	738	15,82	788	16,47	838	15,82	938	15,82
130404EN	0,4	710	18,10	760	18,95	810	18,10	910	18,10
130408EN	0,8	740	18,10	790	18,95	840	18,10	940	18,10
170508EN	0,8	712	19,08	762	20,05	812	19,08	912	19,08
P		●		●		●		●	
M		○		○		○		○	
K		○		○		○		○	
N									
S									
H									
O									



MonoClamp – Radial Blade SX reinforced

CERATIZIT \ Performance



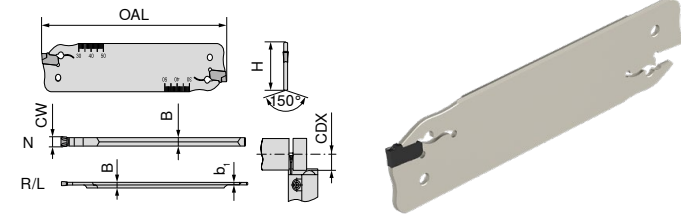
Illustrations show right-hand versions

Designation	CW mm	H mm	B mm	OAL mm	b ₁ mm	CODX mm	CDX mm	for grooving inserts	R/L/N	70 879 ...	
XLCF L 2608-SX2	2	26	1,5	110	8	44	22	SX.2..	L	212	EUR
XLCF L 2608-SX3	3	26	2,5	110	8	44	22	SX.3..	L	213	56,00
XLCF L 3208-SX3	3	32	2,5	110	8	66	33	SX.3..	L	203	52,00
XLCF L 3208-SX4	4	32	3,4	110	8	66	33	SX.4..	L	204	52,00
XLCF R 2608-SX2	2	26	1,5	110	8	44	22	SX.2..	R	012	56,00
XLCF R 2608-SX3	3	26	2,5	110	8	44	22	SX.3..	R	013	56,00
XLCF R 3208-SX3	3	32	2,5	110	8	66	33	SX.3..	R	003	52,00
XLCF R 3208-SX4	4	32	3,4	110	8	66	33	SX.4..	R	004	52,00

1) can be used in both directions

MonoClamp – Radial Blade SX Standard

CERATIZIT \ Performance



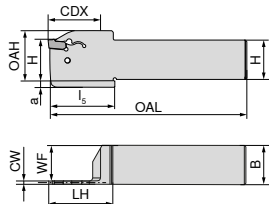
Designation	CW mm	H mm	B mm	b ₁ mm	OAL mm	CDX mm	for grooving inserts	R/L/N	70 884 ...	
XLCF L 2602-SX2	2	26	2,4	1,5	110	25	SX.2..	L	212	EUR
XLCF L 3202-SX2	2	32	2,4	1,5	150	25	SX.2..	L	202	36,00
XLCF R 2602-SX2	2	26	2,4	1,5	110	25	SX.2..	R	012	36,00
XLCF R 3202-SX2	2	32	2,4	1,5	150	25	SX.2..	R	002	38,00
XLCF N 2603-SX3	3	26	2,4		110	35	SX.3..	N	113	36,00
XLCF N 3203-SX3	3	32	2,4		150	50	SX.3..	N	103	38,00
XCLF N 2604-SX4	4	26	3,2		110	40	SX.4..	N	114	36,00
XLCF N 3204-SX4	4	32	3,2		150	50	SX.4..	N	104	38,00
XLCF N 3205-SX5	5	32	4,2		150	55	SX.5..	N	105	38,00
XLCF N 3206-SX6	6	32	5,2		150	60	SX.6..	N	106	38,00

Spare parts
for grooving inserts

SX.2..	SX 2-3	EUR	70 950 ...
SX.3..	SX 2-3	24,65	836
SX.4..	SX 4-6	24,65	836
SX.5..	SX 4-6	25,15	837
SX.6..	SX 4-6	25,15	837

MonoClamp – Radial Monoholder SX

CERATIZIT \ Performance



Illustrations show right-hand versions

Designation	H mm	B mm	CW mm	WF mm	OAL mm	LH mm	l ₅ mm	OAH mm	CDX mm	a mm	for grooving inserts
E16 R/L 0026-1616K-K-SX2	16	16	2	15,2	125	33	33	26	26	4	SX.2..
E20 R/L 0026-2020K-K-SX2	20	20	2	19,2	125	33	33	31	26	5	SX.2..
E16 R/L 0026-1616K-K-SX3	16	16	3	14,8	125	33	33	26	26	4	SX.3..
E20 R/L 0026-2020K-K-SX3	20	20	3	18,8	125	31	33	31	26	5	SX.3..
E25 R/L 0026-2525M-K-SX3	25	25	3	23,8	150	33		31	26		SX.3..
E20 R/L 0033-2020K-K-SX4	20	20	4	18,3	125	40	40	32	33	5	SX.4..
E25 R/L 0033-2525M-K-SX4	25	25	4	23,3	150	42	42	36	33	5	SX.4..
E25 R/L 0040-2525M-K-SX5	25	25	5	22,9	150	49	49	38	40	6	SX.5..
E25 R/L 0040-2525M-K-SX6	25	25	6	22,4	150	49	49	38	40	6	SX.6..

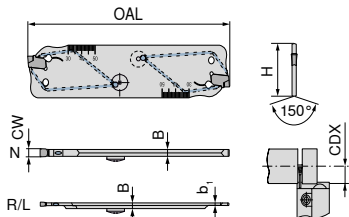
Spare parts
for grooving inserts

SX.2..	SX 2-3	EUR	70 950 ...
SX.3..	SX 2-3	24,65	836
SX.4..	SX 4-6	24,65	836
SX.5..	SX 4-6	25,15	837
SX.6..	SX 4-6	25,15	837

MonoClamp – Radial Blade SX-DC Standard



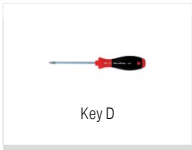
CERATIZIT \ Performance



Designation	CW mm	H mm	B mm	OAL mm	b ₁ mm	CDX mm	for grooving inserts	R/L/N
XLCF R 2602-DC-SX2	2	26	2,4	110	1,6	25	SX.2..	R
XLCF N 2603-DC-SX3	3	26	2,5	110		35	SX.3..	N
XLCF N 3203-DC-SX3	3	32	2,5	150		50	SX.3..	N
XLCF N 3204-DC-SX4	4	32	3,3	150		50	SX.4..	N

Spare parts
for grooving inserts

SX.2..	T15 - IP	EUR	80 950 ...
SX.3..	T15 - IP	11,03	128
SX.4..	T15 - IP	11,03	128



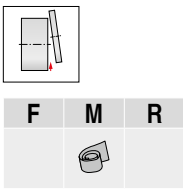
Key D



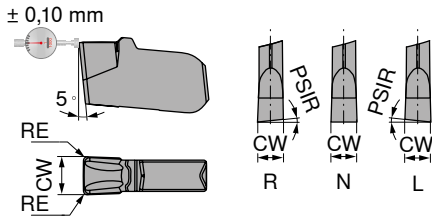
Ejector SX

Insert SX

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



CERATIZIT \ Performance



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

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

	-M1 CTCP325 DRAGONSKIN	-M1 CTCP335 DRAGONSKIN	-M1 CTPP345 DRAGONSKIN	-M1 CTP1340 DRAGONSKIN
70 342 ...	EUR	EUR	EUR	EUR
913	12,15			612 11,41 613 12,15 614 12,80
922	11,41		822 11,41	622 11,41
923	12,15	523 12,15	823 12,15	623 12,15
924	12,80	524 12,80	824 12,80	624 12,80
925	13,63		825 13,63	625 13,63
926	14,70		826 14,70	626 14,70
903	12,15			602 11,41 603 12,15 604 12,80

SX-M1

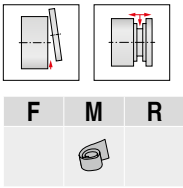
Parting / Grooving



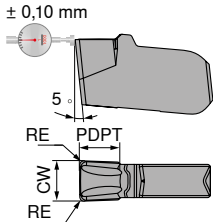
SX-M1	Feed rate f in mm/rev.
Cutting width in mm	
2	0,05–0,15
3	0,10–0,20
4	0,10–0,25
5	0,15–0,30
6	0,15–0,35

Insert SX

▲ All purpose geometry for parting, grooving & turning.



CERATIZIT \ Performance



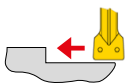
Designation	CW ±0,05 mm	RER ±0,05 mm	PDPT mm	for tool holder
SX E2.00 N 0.20	2	0,2	1,5	-SX2
SX E3.00 N 0.30	3	0,3	2,0	-SX3
SX E4.00 N 0.40	4	0,4	2,5	-SX4
SX E5.00 N 0.40	5	0,4	2,7	-SX5
SX E6.00 N 0.50	6	0,5	3,0	-SX6

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

	-M2 CTCP325 DRAGONSKIN	-M2 CTCP335 DRAGONSKIN	-M2 CTPP345 DRAGONSKIN	-M2 CTP1340 DRAGONSKIN
70 343 ...	EUR	EUR	EUR	EUR
922	11,41	522 11,41	822 11,41	622 11,41
923	12,15	523 12,15	823 12,15	623 12,15
924	12,80	524 12,80	824 12,80	624 12,80
925	13,63	525 13,63	825 13,63	625 13,63
926	14,70	526 14,70	826 14,70	626 14,70

SX-M2

Turning



Parting / Grooving



SX-M2	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0
Cutting width in mm								
2	0,05–0,17	0,05–0,13	0,05–0,10	0,07–0,15				
3	0,07–0,20	0,07–0,20	0,07–0,18	0,10–0,22	0,10–0,18			
4	0,10–0,25	0,10–0,25	0,10–0,25	0,12–0,25	0,12–0,22			
5	0,12–0,27	0,12–0,27	0,12–0,27	0,15–0,30	0,15–0,25	0,15–0,20		
6	0,15–0,30	0,15–0,30	0,15–0,30	0,17–0,45	0,17–0,40	0,17–0,37	0,17–0,35	
8	0,17–0,45	0,17–0,45	0,17–0,45	0,20–0,50	0,20–0,46	0,20–0,42	0,20–0,38	0,20–0,35
10	0,20–0,50	0,20–0,50	0,20–0,50					

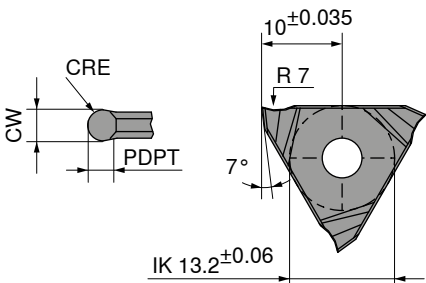
SX-M2	Feed rate f in mm/rev.
Cutting width in mm	
2	0,05–0,15
3	0,075–0,20
4	0,10–0,25
5	0,10–0,30
6	0,15–0,35
8	0,20–0,50
10	0,20–0,50



Radial TX insert for corner recessing

▲ Full radius for cutting width 0.5–5.0 mm

CERATIZIT \ Performance



CWX500



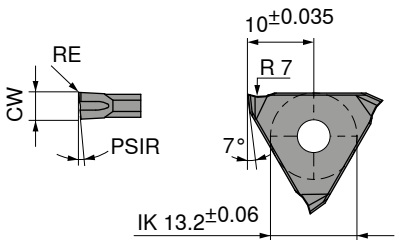
Neutral

Designation	CRE mm	CW +/-0,05 mm	PDPT mm	for tool holder	73 304 ...	
TX N 0010.20.2	1,0	2	0,7	R/L ... 2	204	EUR 26,90
TX N 0015.30.3	1,5	3	1,0	R/L ... 3	206	28,72
TX N 0020.40.4	2,0	4	1,2	R/L ... 4	208	28,49
TX N 0025.50.4	2,5	5	1,5	R/L ... 4	210	28,94

TX grooving insert for grooving and parting off

▲ Cutting depth 5.0 mm
▲ Cutting width 1.99–2.79 mm

CERATIZIT \ Performance



CWX500

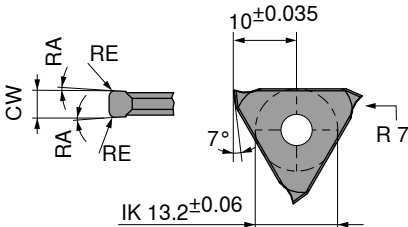


Right-hand

Designation	CW -0,05 mm	for tool holder	73 301 ...	
TX R 0518.00.1	1,99	R/L 207 ... / 780 ... 1	204	EUR 25,76
TX R 0521.00.2	2,29	R/L 207 ... / 780 ... 2	206	25,76
TX R 0526.00.2	2,79	R/L 207 ... / 780 ... 2	208	26,22

TX insert for fine and copy turning

CERATIZIT \ Performance



CWX500



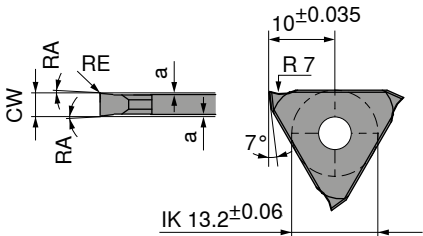
Neutral

Designation	CW +0,03 mm	for tool holder	73 303 ...	
TX N 0150.02.1	1,5	R/L 207 ... / 738 ... / 660 ... 1	204	EUR 21,79
TX N 0200.02.1	2,0	R/L 207 ... / 738 ... / 660 ... 1	206	21,79
TX N 0200.04.1	2,0	R/L 207 ... / 738 ... / 660 ... 1	208	21,79
TX N 0300.06.2	3,0	R/L 207 ... / 738 ... / 660 ... 2	212	22,92
TX N 0300.02.2	3,0	R/L 207 ... / 738 ... / 660 ... 2	210	22,92
TX N 0300.08.2	3,0	R/L 207 ... / 738 ... / 660 ... 2	214	22,92
TX N 0400.08.3	4,0	R/L 207 ... / 738 ... / 660 ... 3	218	23,16
TX N 0400.02.3	4,0	R/L 207 ... / 738 ... / 660 ... 3	216	23,16
TX N 0400.12.3	4,0	R/L 207 ... / 738 ... / 660 ... 3	220	23,16

TX insert for circlip grooves

▲ For circlip grooves according to DIN 471 / 472

CERATIZIT \ Performance



CWX500



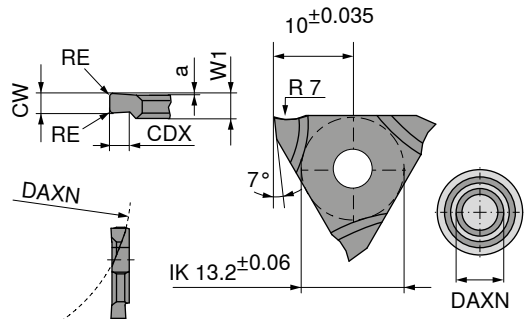
Neutral

Designation	CW -0,05 mm	a +/-0,02 mm	for tool holder	73 300 ...	
TX N 0050.00.1	0,57	0,07	R/L ... 1	204	EUR 17,59
TX N 0060.00.1	0,67	0,07	R/L ... 1	206	17,59
TX N 0070.00.1	0,77	0,08	R/L ... 1	208	17,59
TX N 0080.00.1	0,87	0,08	R/L ... 1	210	17,59
TX N 0090.00.1	0,97	0,08	R/L ... 1	212	17,59
TX N 0100.00.1	1,07	0,09	R/L ... 1	214	17,59
TX N 0110.00.1	1,24	0,15	R/L ... 1	216	17,59
TX N 0130.00.1	1,44	0,15	R/L ... 1	218	17,59
TX N 0160.00.1	1,74	0,20	R/L ... 1	220	17,59
TX N 0185.00.1	1,99	0,20	R/L ... 1	222	17,59
TX N 0215.00.2	2,29	0,20	R/L ... 2	224	17,59
TX N 0265.00.2	2,79	0,20	R/L ... 2	226	17,59
TX N 0315.00.3	3,29	0,20	R/L ... 3	228	18,50
TX N 0415.00.4	4,29	0,20	R/L ... 4	230	18,61
TX N 0515.00.4	5,29	0,20	R/L ... 4	232	19,17

TX insert for axial grooving

▲ Up to cutting depth 3.5 mm
▲ Cutting width 1.5–5.0 mm
▲ Groove-Ø external D_a ≥ 20 mm

CERATIZIT \ Performance



Illustrations show right-hand versions

Designation	CW mm	W1 mm	CDX mm	a mm	DAXN mm	for tool holder
TX R/L 2015.2.2	1,5	2,7	2,0	0,2	20	R/L 207 ... 2
TX R/L 3020.2.2	2,0	2,7	3,0	0,2	30	R/L 207 ... 2
TX R/L 3030.2.3	3,0	3,7	3,0	0,2	30	R/L 207 ... 3
TX R/L 3040.2.4	4,0	4,3	3,5	0,2	30	R/L 207 ... 4
TX R/L 3050.2.4	5,0	5,3	3,5	0,2	30	R/L 207 ... 4

CWX500



CWX500



Left-hand

Right-hand

73 306 ...		73 305 ...	
204	EUR 25,65	204	25,65
206	25,65	206	25,65
208	25,87	208	25,87
210	26,22	210	26,22
212	26,32	212	26,32



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3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



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

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

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

CERATIZIT \ Performance



Illustrations show right-hand versions

Designation	H mm	B mm	OAL mm	l ₂ mm	CDX mm	for grooving inserts	Right-hand	
							73 500 ...	EUR
R 207.1212.1	12	12	100	24	4	TX R/N/L ...1	112	43,00
R 207.1616.1	16	16	125	22	4	TX R/N/L ...1	116	38,00
R 207.2020.1	20	20	125	21	4	TX R/N/L ...1	120	30,00
R 207.2525.1	25	25	150		4	TX R/N/L ...1	125	31,00
R 207.3232.1	32	32	170		4	TX R/N/L ...1	132	37,00
R 207.1212.2	12	12	100	24	6	TX R/N/L ...2	212	43,00
R 207.1616.2	16	16	125	22	6	TX R/N/L ...2	216	38,00
R 207.2020.2	20	20	125	21	6	TX R/N/L ...2	220	30,00
R 207.2525.2	25	25	150		6	TX R/N/L ...2	225	31,00
R 207.3232.2	32	32	170		6	TX R/N/L ...2	232	37,00
R 207.1212.3	12	12	100	24	6	TX R/N/L ...3	312	43,00
R 207.1616.3	16	16	125	22	6	TX R/N/L ...3	316	38,00
R 207.2020.3	20	20	125	21	6	TX R/N/L ...3	320	30,00
R 207.2525.3	25	25	150		6	TX R/N/L ...3	325	31,00
R 207.3232.3	32	32	170		6	TX R/N/L ...3	332	37,00
R 207.1616.4	16	16	125	22	6	TX R/N/L ...4	416	38,00
R 207.2020.4	20	20	125	21	6	TX R/N/L ...4	420	30,00
R 207.2525.4	25	25	150		6	TX R/N/L ...4	425	31,00
R 207.3232.4	32	32	170		6	TX R/N/L ...4	432	37,00

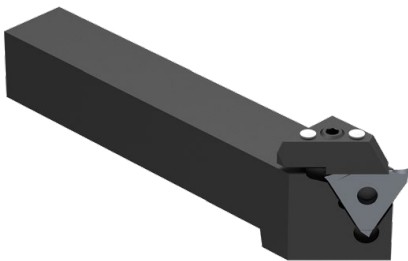
Spare parts
for grooving inserts

	EUR	73 950 ...		EUR	70 950 ...		EUR	73 950 ...		EUR	73 950 ...
TX R/N/L ...1	21,60	020	SW3	2,31	176	M6x20	4,43	028	Ø 4x18	0,40	030
TX R/N/L ...2	21,60	020	SW3	2,31	176	M6x20	4,43	028	Ø 4x18	0,40	030
TX R/N/L ...3	21,60	020	SW3	2,31	176	M6x20	4,43	028	Ø 4x18	0,40	030
TX R/N/L ...4	23,98	022	SW3	2,31	176	M6x20	4,43	028	Ø 4x18	0,40	030

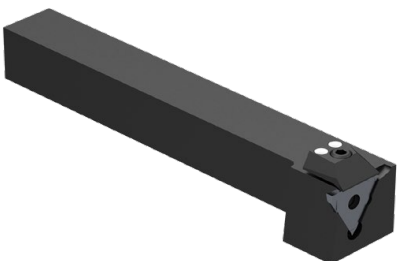
Left hand tooling and the rest of the comprehensive TX range are available in the main catalogue.



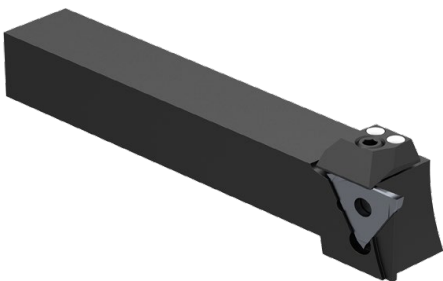
TX – Boring bar



TX – Tool holder 45°



TX – Tool holder 90°
6 mm cutting depth



TX – Tool holder 0°
8 mm cutting depth

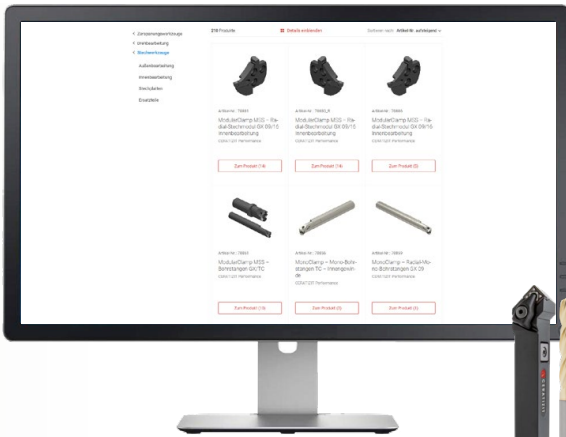
Grooving Tools guide (Main catalogue 2021)

Cutting Data 101–110 Chip Breakers Overview 123–126

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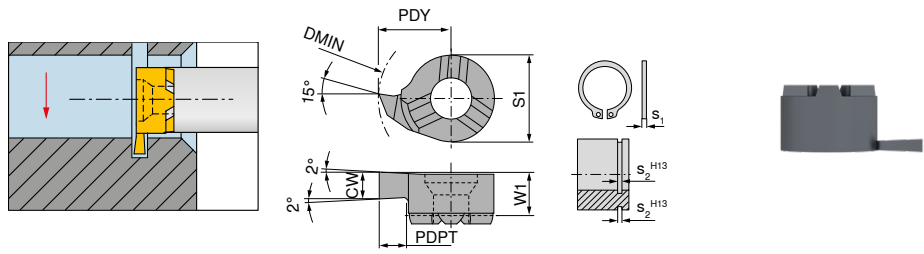
In the Online Shop you can select and order your tool with a mouse click, 24 hours a day, 7 days a week. All your transactions including those in the past can be viewed clearly and easily in the online shop. Register and use our Service: cuttingtools.ceratizit.com



MiniCut – Grooving insert

WNT \ Performance

CWX500

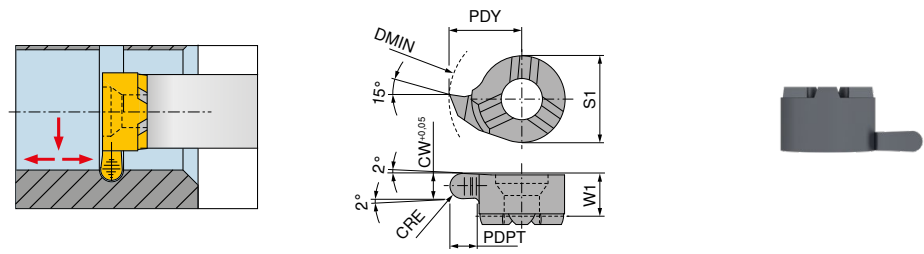


Right-hand									
Size	Designation	DMIN mm	CW mm	PDPT mm	W1 mm	PDY mm	S1 mm		
08	8,00. R.0.73.1,0	8	0,73	1,0	3,3	4,8	6	73 310 ...	EUR
	8,00. R.0.83.1,0	8	0,83	1,0	3,3	4,8	6		
	8,00. R.0.93.1,0	8	0,93	1,0	3,3	4,8	6		
	8,00. R.1.00.1,0	8	1,00	1,0	3,3	4,8	6		
	8,00. R.1.20.1,0	8	1,20	1,0	3,3	4,8	6		
	8,00. R.1.40.1,0	8	1,40	1,0	3,3	4,8	6		
	8,00. R.1.50.1,0	8	1,50	1,0	3,3	4,8	6		
	8,00. R.1.70.1,0	8	1,70	1,0	3,3	4,8	6		
11	11,00. R.0.73.1,2	11	0,73	1,2	4,2	6,7	8	73 310 ...	EUR
	11,00. R.0.83.1,3	11	0,83	1,3	4,2	6,7	8		
	11,00. R.0.93.1,5	11	0,93	1,5	4,2	6,7	8		
	11,00. R.1.00.2,3	11	1,00	2,3	4,2	6,7	8		
	11,00. R.1.20.2,3	11	1,20	2,3	4,2	6,7	8		
	11,00. R.1.40.2,3	11	1,40	2,3	4,2	6,7	8		
	11,00. R.1.50.2,3	11	1,50	2,3	4,2	6,7	8		
	11,00. R.1.70.2,3	11	1,70	2,3	4,2	6,7	8		
14	14,00. R.0.73.1,2	14	0,73	1,2	5,3	9,0	9	73 310 ...	EUR
	14,00. R.0.83.1,3	14	0,83	1,3	5,3	9,0	9		
	14,00. R.0.93.1,5	14	0,93	1,5	5,3	9,0	9		
	14,00. R.1.20.4,0	14	1,20	4,0	5,3	9,0	9		
	14,00. R.1.40.4,0	14	1,40	4,0	5,3	9,0	9		
	14,00. R.1.50.4,0	14	1,50	4,0	5,3	9,0	9		
	14,00. R.1.70.4,0	14	1,70	4,0	5,3	9,0	9		
	14,00. R.2.00.4,0	14	2,00	4,0	5,3	9,0	9		
16	16,00. R.0.73.1,2	16	0,73	1,2	5,4	10,2	11	73 310 ...	EUR
	16,00. R.0.83.1,3	16	0,83	1,3	5,4	10,2	11		
	16,00. R.0.93.1,5	16	0,93	1,5	5,4	10,2	11		
	16,00. R.1.20.4,3	16	1,20	4,3	5,4	10,2	11		
	16,00. R.1.40.4,3	16	1,40	4,3	5,4	10,2	11		
	16,00. R.1.50.4,3	16	1,50	4,3	5,4	10,2	11		
	16,00. R.1.70.4,3	16	1,70	4,3	5,4	10,2	11		
	16,00. R.2.00.4,3	16	2,00	4,3	5,4	10,2	11		
P									
M									
K									
N									
S									
H									
O									

MiniCut – Full radius grooving and turning insert

WNT \ Performance

CWX500



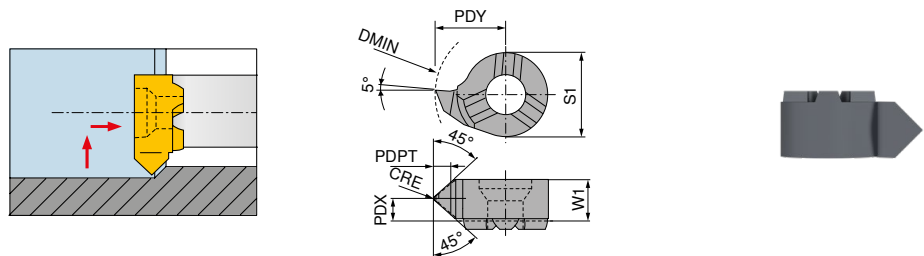
Right-hand									
Size	Designation	DMIN mm	CW mm	PDPT mm	W1 mm	PDY mm	S1 mm	CRE mm	
08	8,00. R.0.80.1,0	8	0,8	1,0	3,3	4,8	6	0,4	73 318 ...
	8,00. R.1.20.1,0	8	1,2	1,0	3,3	4,8	6	0,6	
	8,00. R.1.80.1,0	8	1,8	1,0	3,3	4,8	6	0,9	
11	11,00. R.0.80.2,3	11	0,8	2,3	4,2	6,7	8	0,4	73 318 ...
	11,00. R.1.20.2,3	11	1,2	2,3	4,2	6,7	8	0,6	
	11,00. R.1.80.2,3	11	1,8	2,3	4,2	6,7	8	0,9	
	11,00. R.2.00.2,3	11	2,0	2,3	4,2	6,7	8	1,0	
	11,00. R.3.00.2,3	11	3,0	2,3	4,2	6,7	8	1,5	
14	14,00. R.1.20.4,0	14	1,2	4,0	5,3	9,0	9	0,6	73 318 ...
	14,00. R.1.80.4,0	14	1,8	4,0	5,3	9,0	9	0,9	
	14,00. R.2.00.4,0	14	2,0	4,0	5,3	9,0	9	1,0	
	14,00. R.2.20.4,0	14	2,2	4,0	5,3	9,0	9	1,1	
	14,00. R.3.00.4,0	14	3,0	4,0	5,3	9,0	9	1,5	
16	16,00. R.1.80.4,3	16	1,8	4,3	5,4	10,2	11	0,9	73 318 ...
	16,00. R.2.20.4,3	16	2,2	4,3	5,4	10,2	11	1,1	
	16,00. R.3.00.4,3	16	3,0	4,3	5,4	10,2	11	1,5	
	16,00. R.4.00.4,3	16	4,0	4,3	5,4	10,2	11	2,0	
P									
M									
K									
N									
S									
H									
O									

MiniCut – Internal turning and chamfering insert

▲ CDX = ap_{max} (material dependant)

WNT \ Performance

CWX500

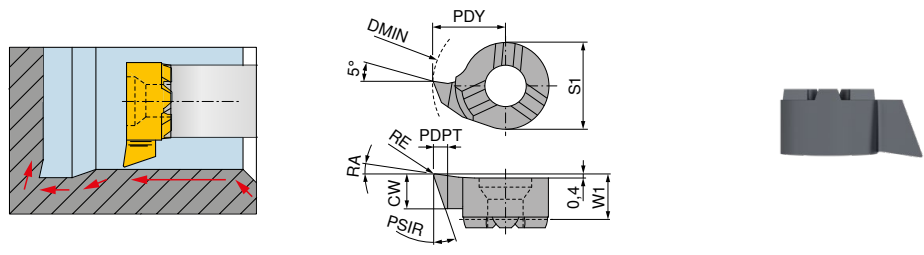


Right-hand									
Size	Designation	DMIN mm	PDPT mm	W1 mm	PDX mm	PDY mm	S1 mm	CRE mm	CDX mm
08	8,00. R.45°1,4	8	1,4	3,5	1,8	4,8	6	0,2	0,6
11	11,00. R.45°1,5	11	1,5	4,3	2,2	6,7	8	0,2	1,0
14	14,00. R.45°1,5	14	1,5	5,4	2,8	9,0	9	0,2	1,2
P									
M									
K									
N									
S									
H									
O									

MiniCut – Insert for turning and profiling

WNT \ Performance

CWX500



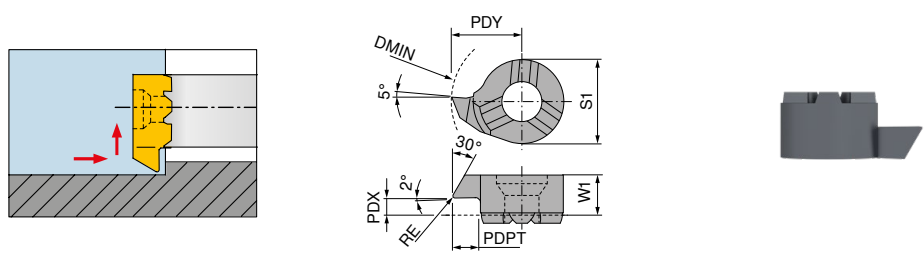
Right-hand									
Size	Designation	DMIN mm	CW mm	W1 mm	PDY mm	S1 mm	RE mm	PDPT mm	PSIR °
08	8,00. R.3.30.18°	7,8	3,3	3,5	4,65	6	0,2	0,6	18
11	9,80. R.3.90.18°	9,8	3,9	4,2	5,50	8	0,2	1,0	18
	11,00. R.3.90.18°	11,0	3,9	4,2	6,70	8	0,2	1,0	18
14	14,00. R.5.00.18°	13,8	5,0	5,1	8,70	9	0,2	1,5	18
16	15,50. R.5.00.18°	15,5	5,0	5,4	9,70	11	0,2	1,5	18
P									
M									
K									
N									
S									
H									
O									

MiniCut – Back boring insert

▲ CDX = ap_{max} (material dependant)

WNT \ Performance

CWX500



Right-hand									
Size	Designation	DMIN mm	PDPT mm	W1 mm	PDX mm	PDY mm	S1 mm	RE mm	CDX mm
08	8,00. R.30°1,3	7,8	1,3	3,5	1,0	4,65	6	0,2	0,6
11	11,00. R.30°2,3	11,0	2,3	4,3	1,6	6,70	8	0,2	1,0
14	14,00. R.30°3,5	13,8	3,5	5,4	2,4	8,70	9	0,2	1,5
P									
M									
K									
N									
S									
H									
O									



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available from 8:00 am to 6:00 pm, Monday to Friday

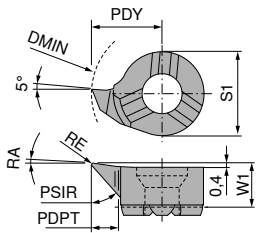
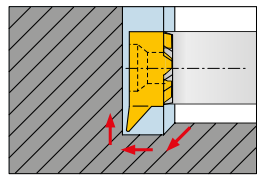


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MiniCut – Internal undercut insert

▲ CDX = ap_{max} (material dependant)

WNT \ Performance



CWX500

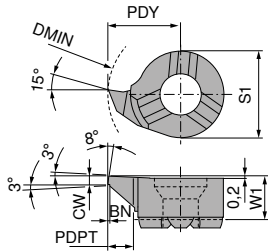
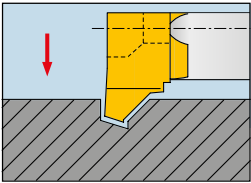


Size	Designation	DMIN mm	PDPT mm	W1 mm	PDY mm	S1 mm	RE mm	CDX mm	PSIR °	RA °	Right-hand	
											73 326 ...	EUR
08	8,00. R.30°1,0	7,8	1,0	3,5	4,65	6	0,2	0,4	30	3	010	21,40
	8,00. R.47°1,2	7,8	1,2	3,5	4,65	6	0,2	0,4	47	3	012	18,51
11	11,00. R.30°2,3	11,0	2,3	4,2	6,70	8	0,2	0,6	30	3	423	20,82
	11,00. R.47°2,3	11,0	2,3	4,2	6,70	8	0,2	0,6	47	3	323	18,06
14	13,70. R.47°3,0	13,7	3,0	5,3	8,70	9	0,2	0,8	47	3	530	18,51
	13,70. R.30°4,0	13,7	4,0	5,3	8,70	9	0,2	0,8	30	3	540	21,40
P											•	
M											•	
K											•	
N											•	
S											•	
H											•	
O											•	

MiniCut – Insert for pregrooving and chamfering

WNT \ Performance

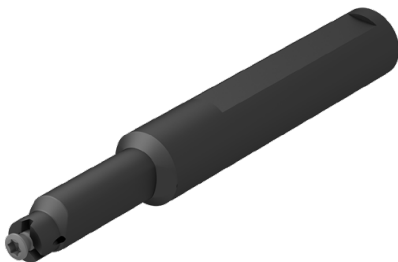
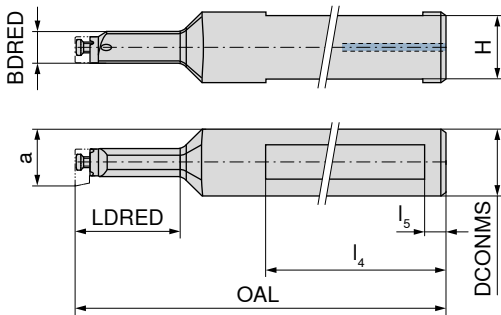
CWX500



Size	Designation	DMIN mm	CW mm	PDPT mm	W1 mm	PDY mm	S1 mm	BN mm	Right-hand	
									73 338 ...	EUR
08	8,00. R.1,00.45°	8	1	1,0	3,3	4,8	6	0,2	100	18,06
11	11,00. R.1,00.45°	11	1	1,5	4,2	6,7	8	0,2	315	18,06
14	14,00. R.1,00.45°	14	1	1,5	5,3	9,0	9	0,2	515	18,06
16	16,00. R.1,00.45°	16	1	1,5	5,4	10,2	11	0,2	715	18,06
P									•	
M									•	
K									•	
N									•	
S									•	
H									•	
O									•	

MiniCut – Steel Tool holder

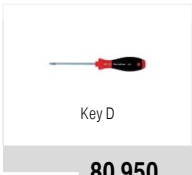
WNT \ Performance



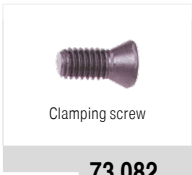
Designation	a mm	DCONMS ₁₇ mm	OAL mm	I ₄ mm	LDRED mm	BDRED mm	H mm	I ₅ mm	73 522 ...	
8,00/16.N.12.1,0	7,8	16	80	60	12	6	15,0	5	012	85,64
8,00/16.N.22.1,0	7,8	16	90	60	22	6	15,0	5	122	98,18
11,00/16.N.16.2,3	10,7	16	97	60	16	8	14,5	5	016	85,64
11,00/16.N.29.2,3	10,7	16	110	60	29	8	14,5	5	129	98,18
14,00/16.N.18.4,0	13,8	16	100	60	18	11	14,5	5	018	98,18
14,00/16.N.38.4,0	13,8	16	120	60	38	11	14,5	5	138	98,18
16,00/16.N.22.4,3	15,7	16	100	60	22	11	14,5	5	022	85,64
16,00/16.N.42.4,3	15,7	16	120	60	42	11	14,5	5	142	98,18

Spare parts

08	T08	7,23	110	M2,6	3,24	002
11	T10	8,47	112	M3,5	3,24	003
14	T15	8,60	113	M4	3,24	004
16	T20	9,23	114	M5	3,24	005

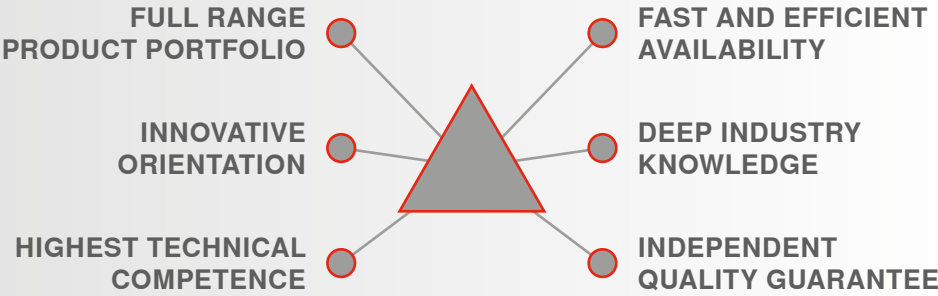


Key D



Clamping screw

The Cutting Tool Solution is

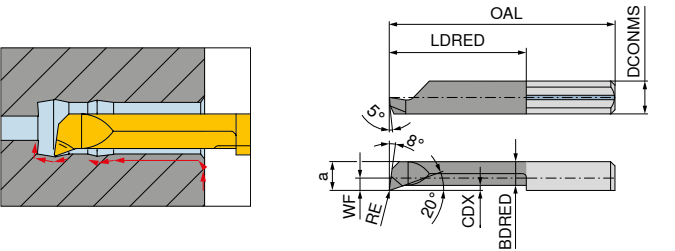


UltraMini – Inserts for internal turning and profiling

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance



Designation	DCONMS _{h6} mm	WF mm	DMIN mm	a mm	OAL mm	LDRED mm	CDX mm	BDRED mm	RE mm	Standard tool holder
R 050.2-5	4		2,0	1,7	19	5	0,1	1,5	0,05	645.00..-D
R 050.2-10	4		2,0	1,7	24	10	0,1	1,5	0,05	645.00..-D
R 050.2-15	4		2,0	1,7	29	15	0,1	1,5	0,05	645.00..-D
R 050.3-10	4	0,6	2,8	2,6	24	10	0,2	2,3	0,10	645.00..-D
R 050.3-16	4	0,6	2,8	2,6	30	16	0,2	2,3	0,10	645.00..-D
R 050.3-20	4	0,6	2,8	2,6	34	20	0,2	2,3	0,10	645.00..-D
R 050.4-10	4	1,5	4,0	3,5	24	10	0,3	3,0	0,10	645.00..-D
R 050.4-16	4	1,5	4,0	3,5	30	16	0,3	3,0	0,10	645.00..-D
R 050.4-20	4	1,5	4,0	3,5	34	20	0,3	3,0	0,10	645.00..-D
R 050.4-24	4	1,5	4,0	3,5	38	24	0,3	3,0	0,10	645.00..-D
R 050.4-28	4	1,5	4,0	3,5	42	28	0,3	3,0	0,10	645.00..-D
R 050.5-10	5	1,9	5,0	4,4	25	10	0,5	3,8	0,15	645.00..-D
R 050.5-15	5	1,9	5,0	4,4	30	15	0,5	3,8	0,15	645.00..-D
R 050.5-20	5	1,9	5,0	4,4	35	20	0,5	3,8	0,15	645.00..-D
R 050.5-25	5	1,9	5,0	4,4	40	25	0,5	3,8	0,15	645.00..-D
R 050.5-30	5	1,9	5,0	4,4	45	30	0,5	3,8	0,15	645.00..-D
R 050.5-35	5	1,9	5,0	4,4	50	35	0,5	3,8	0,15	645.00..-D
R/L 050.5-40	5	1,9	5,0	4,4	55	40	0,5	3,8	0,15	645.00..-D
R 050.6-15	6	2,3	6,0	5,3	30	15	0,5	4,5	0,15	676.00..-D
R 050.6-22	6	2,3	6,0	5,3	37	22	0,5	4,5	0,15	676.00..-D
R 050.6-25	6	2,3	6,0	5,3	40	25	0,5	4,5	0,15	676.00..-D
R 050.6-30	6	2,3	6,0	5,3	45	30	0,5	4,5	0,15	676.00..-D
R 050.6-35	6	2,3	6,0	5,3	50	35	0,5	4,5	0,15	676.00..-D
R 050.6-42	6	2,3	6,0	5,3	57	42	0,5	4,5	0,15	676.00..-D
R 050.7-20	7	2,8	6,8	6,3	35	20	0,6	5,5	0,15	676.00..-D
R 050.7-25	7	2,8	6,8	6,3	40	25	0,6	5,5	0,15	676.00..-D
R 050.7-30	7	2,8	6,8	6,3	45	30	0,6	5,5	0,15	676.00..-D
R 050.7-35	7	2,8	7,0	6,3	50	35	0,6	5,5	0,15	676.00..-D
R 050.7-40	7	2,8	7,0	6,3	55	40	0,6	5,5	0,15	676.00..-D
R 050.7-45	7	2,8	7,0	6,3	60	45	0,6	5,5	0,15	676.00..-D
R 050.7-50	7	2,8	7,0	6,3	65	50	0,6	5,5	0,15	676.00..-D

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

TiN



TiAlN



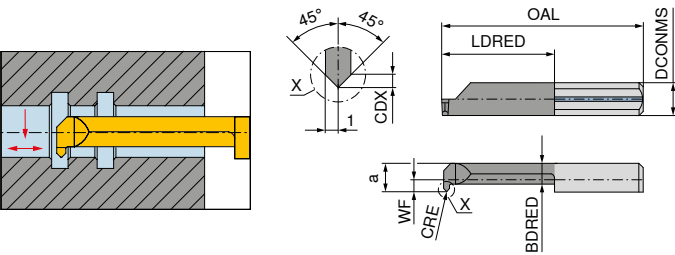
Right-hand		Right-hand	
73 004 ...	EUR	73 004 ...	EUR
520	27,65		
521	28,22		
522	29,85		
531	29,75		
530	30,21		
532	31,83		
541	29,98	841	29,98
540	30,43	840	30,43
542	31,93	842	31,93
545	34,61	845	34,61
546	38,54	846	38,54
551	28,12	851	28,12
552	30,56	852	30,56
550	31,35	850	31,35
553	35,52	853	35,52
554	38,54	854	38,54
556	42,01	856	42,01
		857	47,22
561	30,90	861	30,90
560	32,17	860	32,17
562	35,66	862	35,66
563	39,11	863	39,11
564	42,01	864	42,01
565	46,87	865	46,87
572	32,29	872	32,29
573	40,51	873	40,51
574	41,20	874	41,20
575	42,69	875	42,69
576	47,45	876	47,45
577	50,34	877	50,34
578	54,27	878	54,27

UltraMini – Inserts for internal turning and chamfering

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance



Designation	DCONMS _{h6} mm	WF mm	DMIN mm	a mm	OAL mm	LDRED mm	CDX mm	BDRED mm	CRE mm	Standard tool holder
R 060.5-15	5	1,9	5,0	4,4	30	15	0,7	3,3	0,2	645.00..-D
R 060.5-20	5	1,9	5,0	4,4	35	20	0,7	3,3	0,2	645.00..-D
R 060.7-20	7	2,7	6,8	6,3	35	20	0,7	3,8	0,2	676.00..-D

P	●
M	●
K	●
N	●
S	○
H	○
O	●

TiN



Right-hand	
73 006 ...	EUR
551	28,22
550	29,85
570	33,10



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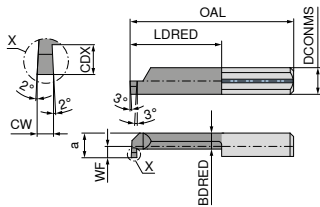
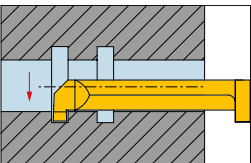
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UltraMini – Inserts for Internal Grooving

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance



Designation	DCONMS _{HS} mm	WF mm	DMIN mm	a mm	OAL mm	LDRED mm	CDX mm	BDRED mm	CW mm	Standard tool holder
R 004.0100-10	4	1,5	4,0	3,5	24	10	0,8	2,4	1,0	645.00..-D
R 004.0100-16	4	1,5	4,0	3,5	30	16	0,8	2,4	1,0	645.00..-D
R 004.0100-20	4	1,5	4,0	3,5	34	20	0,8	2,4	1,0	645.00..-D
R 005.0100-10	5	1,9	5,0	4,4	25	10	1,0	3,3	1,0	645.00..-D
R 005.0150-10	5	1,9	5,0	4,4	25	10	1,0	3,3	1,5	645.00..-D
R 005.0200-10	5	1,9	5,0	4,4	25	10	1,0	3,3	2,0	645.00..-D
R 005.0100-15	5	1,9	5,0	4,4	30	15	1,0	3,3	1,0	645.00..-D
R 005.0150-15	5	1,9	5,0	4,4	30	15	1,0	3,3	1,5	645.00..-D
R 005.0200-15	5	1,9	5,0	4,4	30	15	1,0	3,3	2,0	645.00..-D
R 005.0150-20	5	1,9	5,0	4,4	35	20	1,0	3,3	1,5	645.00..-D
R 005.0100-20	5	1,9	5,0	4,4	35	20	1,0	3,3	1,0	645.00..-D
R 005.0200-20	5	1,9	5,0	4,4	35	20	1,0	3,3	2,0	645.00..-D
R 005.0100-25	5	1,9	5,0	4,4	40	25	1,0	3,3	1,0	645.00..-D
R 005.0150-25	5	1,9	5,0	4,4	40	25	1,0	3,3	1,5	645.00..-D
R 005.0200-25	5	1,9	5,0	4,4	40	25	1,0	3,3	2,0	645.00..-D
R 005.0100-30	5	1,9	5,0	4,4	45	30	1,0	3,3	1,0	645.00..-D
R 005.0150-30	5	1,9	5,0	4,4	45	30	1,0	3,3	1,5	645.00..-D
R 005.0200-30	5	1,9	5,0	4,4	45	30	1,0	3,3	2,0	645.00..-D
R 005.0100-35	5	1,9	5,0	4,4	50	35	1,0	3,3	1,0	645.00..-D
R 006.0100-10	6	2,3	6,0	5,3	25	10	1,8	3,4	1,0	676.00..-D
R 006.0150-10	6	2,3	6,0	5,3	25	10	1,8	3,4	1,5	676.00..-D
R 006.0200-10	6	2,3	6,0	5,3	25	10	1,8	3,4	2,0	676.00..-D
R 006.0100-15	6	2,3	6,0	5,3	30	15	1,8	3,4	1,0	676.00..-D
R 006.0150-15	6	2,3	6,0	5,3	30	15	1,8	3,4	1,5	676.00..-D
R 006.0200-15	6	2,3	6,0	5,3	30	15	1,8	3,4	2,0	676.00..-D
R 006.0150-22	6	2,3	6,0	5,3	37	22	1,8	3,4	1,5	676.00..-D
R 006.0100-22	6	2,3	6,0	5,3	37	22	1,8	3,4	1,0	676.00..-D
R 006.0200-22	6	2,3	6,0	5,3	37	22	1,8	3,4	2,0	676.00..-D
R 006.0100-25	6	2,3	6,0	5,3	40	25	1,8	3,4	1,0	676.00..-D
R 006.0150-25	6	2,3	6,0	5,3	40	25	1,8	3,4	1,5	676.00..-D
R 006.0200-25	6	2,3	6,0	5,3	40	25	1,8	3,4	2,0	676.00..-D
R 006.0150-30	6	2,3	6,0	5,3	45	30	1,8	3,4	1,5	676.00..-D
R 006.0100-30	6	2,3	6,0	5,3	45	30	1,8	3,4	1,0	676.00..-D
R 006.0200-30	6	2,3	6,0	5,3	45	30	1,8	3,4	2,0	676.00..-D
R 006.0150-35	6	2,3	6,0	5,3	50	35	1,8	3,4	1,5	676.00..-D
R 006.0100-35	6	2,3	6,0	5,3	50	35	1,8	3,4	1,0	676.00..-D
R 006.0100-42	6	2,3	6,0	5,3	57	42	1,8	3,4	1,0	676.00..-D
R 007.0200-10	7	2,7	6,8	6,3	25	10	2,5	3,8	2,0	676.00..-D
R 007.0100-10	7	2,7	6,8	6,3	25	10	2,5	3,8	1,0	676.00..-D
R 007.0150-10	7	2,7	6,8	6,3	25	10	2,5	3,8	1,5	676.00..-D
R 007.0150-15	7	2,7	6,8	6,3	30	15	2,5	3,8	1,5	676.00..-D
R 007.0100-15	7	2,7	6,8	6,3	30	15	2,5	3,8	1,0	676.00..-D
R 007.0200-15	7	2,7	6,8	6,3	30	15	2,5	3,8	2,0	676.00..-D
R 007.0200-22	7	2,7	6,8	6,3	37	22	2,5	3,8	2,0	676.00..-D
R 007.0100-22	7	2,7	6,8	6,3	37	22	2,5	3,8	1,0	676.00..-D
R 007.0150-22	7	2,7	6,8	6,3	37	22	2,5	3,8	1,5	676.00..-D
R 007.0150-25	7	2,7	6,8	6,3	40	25	2,5	3,8	1,5	676.00..-D
R 007.0100-25	7	2,7	6,8	6,3	40	25	2,5	3,8	1,0	676.00..-D
R 007.0200-25	7	2,7	6,8	6,3	40	25	2,5	3,8	2,0	676.00..-D
R 007.0150-30	7	2,7	6,8	6,3	45	30	2,5	3,8	1,5	676.00..-D
R 007.0100-30	7	2,7	6,8	6,3	45	30	2,5	3,8	1,0	676.00..-D
R 007.0200-30	7	2,7	6,8	6,3	45	30	2,5	3,8	2,0	676.00..-D
R 007.0100-35	7	2,7	7,0	6,3	50	35	2,5	3,8	1,0	676.00..-D
R 007.0150-35	7	2,7	7,0	6,3	50	35	2,5	3,8	1,5	676.00..-D
R 007.0200-35	7	2,7	7,0	6,3	50	35	2,5	3,8	2,0	676.00..-D
R 007.0150-40	7	2,7	7,0	6,3	55	40	2,5	3,8	1,5	676.00..-D
R 007.0100-40	7	2,7	7,0	6,3	55	40	2,5	3,8	1,0	676.00..-D
R 007.0100-45	7	2,7	7,0	6,3	60	45	2,5	3,8	1,0	676.00..-D
R 007.0100-50	7	2,7	7,0	6,3	65	50	2,5	3,8	1,0	676.00..-D

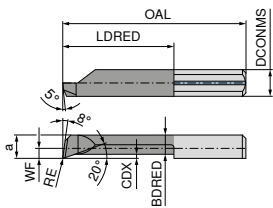
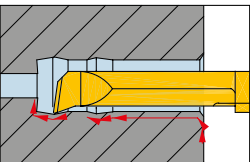
P	●
M	●
K	●
N	●
S	○
H	○
O	●

UltraMini – Inserts for internal turning and profiling

▲ with chip former



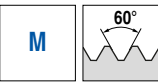
WNT \ Performance



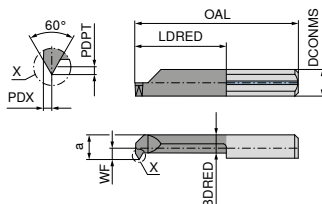
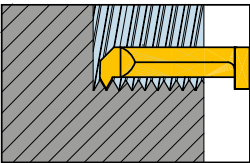
Designation	DCONMS _{HS} mm	WF mm	DMIN mm	a mm	OAL mm	LDRED mm	CDX mm	BDRED mm	RE mm	Standard tool holder
R 050.4-10C	4	1,5	4	3,5	24	10	0,3	3,0	0,2	645.00..-D
R 050.4-16C	4	1,5	4	3,5	30	16	0,3	3,0	0,2	645.00..-D
R 050.4-20C	4	1,5	4	3,5	34	20	0,3	3,0	0,2	645.00..-D
R 050.4-24C	4	1,5	4	3,5	38	24	0,3	3,0	0,2	645.00..-D
R 050.4-28C	4	1,5	4	3,5	42	28	0,3	3,0	0,2	645.00..-D
R 050.5-10C	5	1,9	5	4,4	25	10	0,5	3,8	0,2	645.00..-D
R 050.5-15C	5	1,9	5	4,4	30	15	0,5	3,8	0,2	645.00..-D
R 050.5-20C	5	1,9	5	4,4	35	20	0,5	3,8	0,2	645.00..-D
R 050.5-25C	5	1,9	5	4,4	40	25	0,5	3,8	0,2	645.00..-D
R 050.5-30C	5	1,9	5	4,4	45	30	0,5	3,8	0,2	645.00..-D
R 050.5-35C	5	1,9	5	4,4	50	35	0,5	3,8	0,2	645.00..-D
R 050.6-15C	6	2,3	6	5,3	30	15	0,5	4,5	0,2	676.00..-D
R 050.6-22C	6	2,3	6	5,3	37	22	0,5	4,5	0,2	676.00..-D
R 050.6-25C	6	2,3	6	5,3	40	25	0,5	4,5	0,2	676.00..-D
R 050.6-30C	6	2,3	6	5,3	45	30	0,5	4,5	0,2	676.00..-D
R 050.6-35C	6	2,3	6	5,3	50	35	0,5	4,5	0,2	676.00..-D
R 050.6-42C	6	2,3	6	5,3	57	42	0,5	4,5	0,2	676.00..-D
R 050.7-20C	7	2,8	7	6,3	35	20	0,6	5,5	0,2	676.00..-D
R 050.7-25C	7	2,8	7	6,3	40	25	0,6	5,5	0,2	676.00..-D
R 050.7-30C	7	2,8	7	6,3	45	30	0,6	5,5	0,2	676.00..-D
R 050.7-35C	7	2,8	7	6,3	50	35	0,6	5,5	0,2	676.00..-D
R 050.7-40C	7	2,8	7	6,3	55	40	0,6	5,5	0,2	676.00..-D
R 050.7-45C	7	2,8	7	6,3	60	45	0,6	5,5	0,2	676.00..-D
R 050.7-50C	7	2,8	7	6,3	65	50	0,6	5,5	0,2	676.00..-D

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UltraMini – Inserts for internal threading (Partial profile)



WNT \ Performance



Designation	DCONMS _{HS} mm	WF mm	DMIN mm	a mm	OAL mm	LDRED mm	BDRED mm	PDPT mm	PDX mm	Standard tool holder
R 005.0510-15	5	1,9	4,8	4,4	30	15	3,3	0,55	0,55	645.00..-D
R 005.0510-20	5	1,9	4,8	4,4	35	20	3,3	0,55	0,55	645.00..-D
R 006.0612-15	6	2,3	6,0	5,3	30	15	3,4	0,68	0,65	676.00..-D
R 006.0815-15	6	2,3	6,0	5,3	30	15	3,4	0,81	0,75	676.00..-D
R 006.0815-22	6	2,3	6,0	5,3	37	22	3,4	0,81	0,75	676.00..-D
R 006.0612-22	6	2,3	6,0	5,3	37	22	3,4	0,68	0,65	676.00..-D
R 007.0815-15	7	2,7	7,0	6,3	30	15	3,8	0,81	0,75	676.00..-D

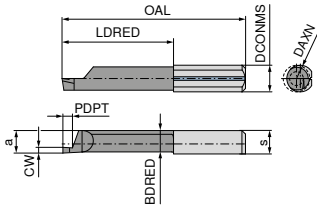
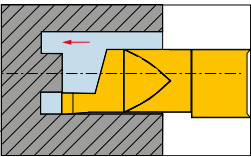
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UltraMini – Inserts for axial grooving



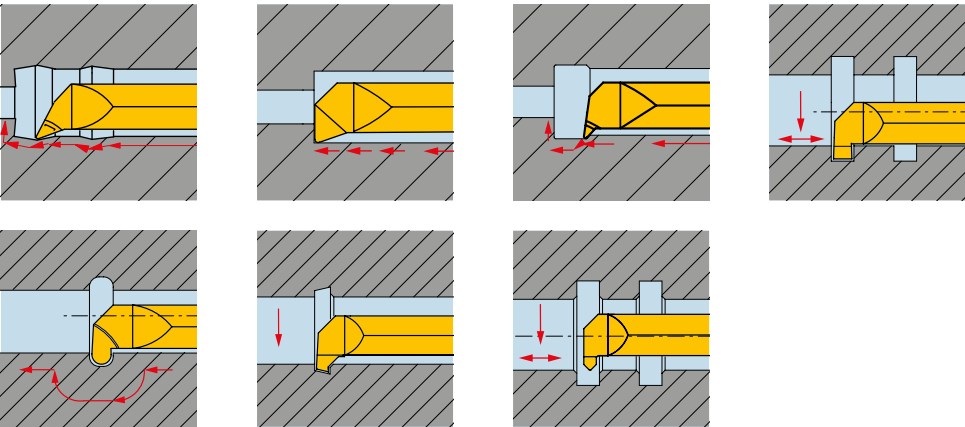
WNT \ Performance



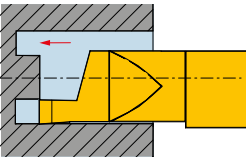
Designation	DCONMS _{g6}	a	DAXN	s	OAL	LDRED	BDRED	PDPT	CW	Standard tool holder	Right-hand
	mm	mm	mm	mm	mm	mm	mm	mm	mm		
R 010.1006-10	6	5,2	6	5,3	26	11	4,9	1,5	1,0	676.00.-D	561
R 010.1506-10	6	5,2	6	5,3	26	11	4,9	2,0	1,5	676.00.-D	563
R 010.1008-10	7	5,9	8	6,3	26	11	5,6	1,5	1,0	676.00.-D	571
R 010.1008-20	7	5,9	8	6,3	35	20	5,6	1,5	1,0	676.00.-D	671
R 010.1008-30	7	5,9	8	6,3	45	30	5,6	1,5	1,0	676.00.-D	771
R 010.1508-20	7	5,9	8	6,3	35	20	5,6	2,5	1,5	676.00.-D	673
R 010.1508-10	7	5,9	8	6,3	26	11	5,6	2,5	1,5	676.00.-D	573
R 010.1508-30	7	5,9	8	6,3	45	30	5,6	2,5	1,5	676.00.-D	773
R 010.2008-20	7	5,9	8	6,3	35	20	5,6	3,0	2,0	676.00.-D	675
R 010.2008-10	7	5,9	8	6,3	26	11	5,6	3,0	2,0	676.00.-D	575
R 010.2008-30	7	5,9	8	6,3	45	30	5,6	3,0	2,0	676.00.-D	775
R 010.2508-20	7	5,9	8	6,3	35	20	5,6	3,5	2,5	676.00.-D	677
R 010.2508-10	7	5,9	8	6,3	26	11	5,6	3,5	2,5	676.00.-D	577
R 010.3008-10	7	5,9	8	6,3	26	11	5,6	3,5	3,0	676.00.-D	579
R 010.3008-20	7	5,9	8	6,3	35	20	5,6	3,5	3,0	676.00.-D	679
R 010.2508-30	7	5,9	8	6,3	45	30	5,6	3,5	2,5	676.00.-D	777
R 010.3008-30	7	5,9	8	6,3	45	30	5,6	3,5	3,0	676.00.-D	779
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Internal turning and profiling, grooving and chamfering

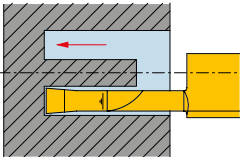
From Diameter 2.0 mm onwards up to a turning depth of 15.0 mm



Axial grooving

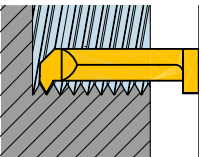


Minimum external diameter of groove 6.0 mm
At 1.5 mm grooving width
Up to 2.0 mm grooving depth



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

Thread turning



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

Miniature turning tools guide (Main catalogue 2021)			
Cutting Data	58-61	Broaching – Recommendations for Correct Use	62
Symbol explanation, coatings and thread types	63		

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

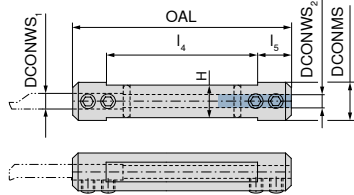
UltraMini – Standard tool holder for cutting inserts

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

Scope of supply:

Tool holder with allen key

WNT \ Performance



Designation	DCONWS ₁	DCONWS ₂	DCONMS	OAL	I ₄	I ₅	H	73 080 ...	EUR
	mm	mm	mm	mm	mm	mm	mm		
645.0012-D	4	5	12	75	55	10	10,3	163	37,00
645.0016-D	4	5	16	75	55	10	14,0	164	38,00
645.0020-D	4	5	20	90	70	10	18,0	165	41,00
676.0016-D	6	7	16	75	55	10	14,0	166	38,00
676.0020-D	6	7	20	90	70	10	18,0	167	41,00



Clamping screw

Spare parts

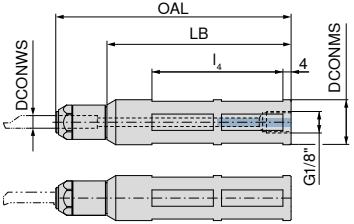
DCONWS ₁		EUR	73 082 ...
4	M5x6	2,99	001
6	M5x6	2,99	001

UltraMini – Quick change tool holder for cutting inserts

Scope of supply:

Tool holder, lock nut and clamping wedge

WNT \ Performance



Designation	DCONWS	DCONMS _{g6}	OAL	LB	I ₄	73 089 ...	EUR
	mm	mm	mm	mm	mm		
UM600H.0012.4	4	12,00	115	90	64	124	93,00
UM600H.0016.4	4	16,00	115	90	64	164	85,00
UM600H.001905.4	4	19,05	115	90	64	194	91,00
UM600H.0020.4	4	20,00	115	90	64	204	89,00
UM600H.0022.4	4	22,00	115	90	64	224	91,00
UM600H.0025.4	4	25,00	115	90	64	254	93,00
UM600H.00254.4	4	25,40	115	90	64	264	95,00
UM600H.0028.4	4	28,00	115	90	64	284	95,00
UM600H.0012.5	5	12,00	115	90	64	125	93,00
UM600H.0016.5	5	16,00	115	90	64	165	85,00
UM600H.001905.5	5	19,05	115	90	64	195	91,00
UM600H.0020.5	5	20,00	115	90	64	205	89,00
UM600H.0022.5	5	22,00	115	90	64	225	91,00
UM600H.0025.5	5	25,00	115	90	64	255	93,00
UM600H.00254.5	5	25,40	115	90	64	265	95,00
UM600H.0028.5	5	28,00	115	90	64	285	95,00
UM600H.0012.6	6	12,00	115	90	64	126	93,00
UM600H.0016.6	6	16,00	115	90	64	166	85,00
UM600H.001905.6	6	19,05	115	90	64	196	91,00
UM600H.0020.6	6	20,00	115	90	64	206	89,00
UM600H.0022.6	6	22,00	115	90	64	226	91,00
UM600H.0025.6	6	25,00	115	90	64	256	93,00
UM600H.00254.6	6	25,40	115	90	64	266	95,00
UM600H.0028.6	6	28,00	115	90	64	286	95,00
UM600H.0012.7	7	12,00	115	90	64	127	93,00
UM600H.0016.7	7	16,00	115	90	64	167	85,00
UM600H.001905.7	7	19,05	115	90	64	197	91,00
UM600H.0020.7	7	20,00	115	90	64	207	89,00
UM600H.0022.7	7	22,00	115	90	64	227	91,00
UM600H.0025.7	7	25,00	115	90	64	257	93,00
UM600H.00254.7	7	25,40	115	90	64	267	95,00
UM600H.0028.7	7	28,00	115	90	64	287	95,00

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



Lock nut UM600H



Clamping wedge UM600H

Spare parts		EUR	73 950 ...	EUR	73 950 ...
DCONWS					
4	M4	52,17	104	33,59	111
5	M5	52,17	105	33,59	111
6	M6	52,17	106	33,59	111
7	M7	52,17	107	33,59	111

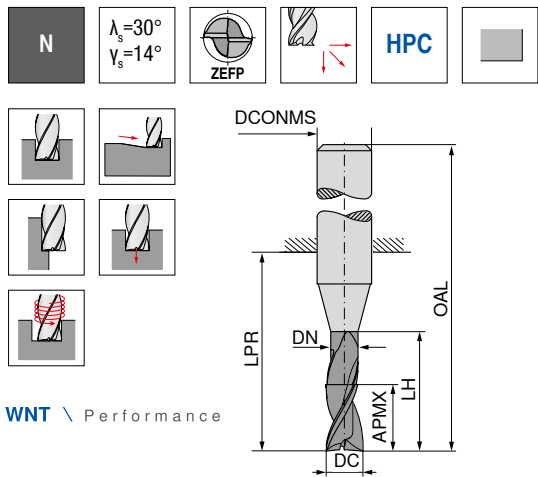


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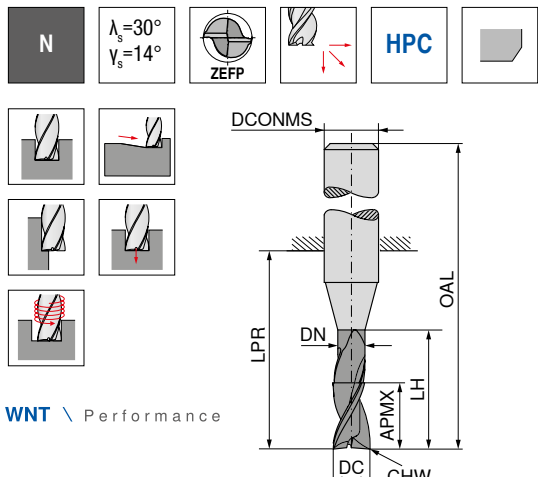
SilverLine – End milling cutter



DC _{es} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{n6} mm	ZEFP
3,0	8	2,8	15	21	57	6	2
3,5	11	3,3	15	21	57	6	2
4,0	11	3,8	15	21	57	6	2
4,5	13	4,3	21	21	57	6	2
5,0	13	4,8	21	21	57	6	2
5,5	13	5,3	21	21	57	6	2
6,0	13	5,8	21	21	57	6	2
7,0	16	6,8	27	27	63	8	2
8,0	19	7,8	27	27	63	8	2
9,0	19	8,8	32	32	72	10	2
10,0	22	9,8	32	32	72	10	2
11,0	26	10,8	38	38	83	12	2
12,0	26	11,8	38	38	83	12	2
14,0	26	13,8	38	38	83	14	2
15,0	32	14,7	44	44	92	16	2
16,0	32	15,7	44	44	92	16	2
17,0	32	16,7	44	44	92	18	2
18,0	32	17,7	44	44	92	18	2
19,0	38	18,7	54	54	104	20	2
20,0	38	19,7	54	54	104	20	2

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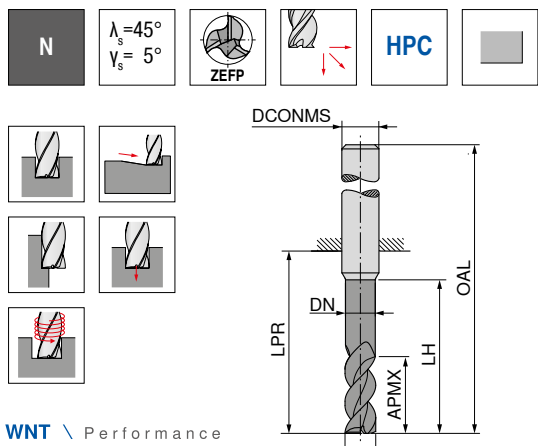
SilverLine – End milling cutter



DC _{es} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{n6} mm	CHW mm	ZEFP
3,0	8	2,8	15	21	57	6	0,1	2
3,5	11	3,3	15	21	57	6	0,1	2
4,0	11	3,8	15	21	57	6	0,1	2
4,5	13	4,3	21	21	57	6	0,1	2
5,0	13	4,8	21	21	57	6	0,1	2
5,5	13	5,3	21	21	57	6	0,1	2
6,0	13	5,8	21	21	57	6	0,1	2
7,0	16	6,8	27	27	63	8	0,1	2
8,0	19	7,8	27	27	63	8	0,1	2
9,0	19	8,8	32	32	72	10	0,1	2
10,0	22	9,8	32	32	72	10	0,1	2
11,0	26	10,8	38	38	83	12	0,1	2
12,0	26	11,8	38	38	83	12	0,1	2
14,0	26	13,8	38	38	83	14	0,1	2
15,0	32	14,7	44	44	92	16	0,1	2
16,0	32	15,7	44	44	92	16	0,1	2
17,0	32	16,7	44	44	92	18	0,1	2
18,0	32	17,7	44	44	92	18	0,1	2
19,0	38	18,7	54	54	104	20	0,1	2
20,0	38	19,7	54	54	104	20	0,1	2

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SilverLine – End milling cutter



WNT \ Performance

DC _{es} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{n6} mm	ZEFP
3,0	8	2,9	15	21	57	6	3
3,5	11	3,4	16	21	57	6	3
4,0	8	3,9	15	18	54	6	3
4,0	11	3,9	16	21	57	6	3
4,0	16			26	62	6	3
4,5	13	4,4	19	21	57	6	3
5,0	9	4,9	16	18	54	6	3
5,0	13	4,9	19	21	57	6	3
5,0	17			26	62	6	3
5,5	13	5,4	19	21	57	6	3
6,0	10	5,9	17	18	54	6	3
6,0	13	5,9	19	21	57	6	3
6,0	18			26	62	6	3
6,5	19	6,3	25	27	63	8	3
7,0	19	6,8	25	27	63	8	3
7,5	19	7,3	25	27	63	8	3
8,0	12		20	22	58	8	3
8,0	19	7,8	25	27	63	8	3
8,0	24			32	68	8	3
8,5	22	8,2	30	32	72	10	3
9,0	22	8,7	30	32	72	10	3
9,5	22	9,2	30	32	72	10	3
10,0	14	9,7	24	26	66	10	3
10,0	22	9,7	30	32	72	10	3
10,0	30			40	80	10	3
12,0	16	11,7	26	28	73	12	3
12,0	26	11,7	36	38	83	12	3
12,0	36			48	93	12	3
14,0	18	13,7	28	30	75	14	3
14,0	26	13,7	36	38	83	14	3
14,0	42			54	99	14	3
16,0	22	15,5	32	34	82	16	3
16,0	32	15,5	42	44	92	16	3
16,0	48			60	108	16	3
18,0	24	17,5	34	36	84	18	3
18,0	32	17,5	42	44	92	18	3
18,0	54			66	114	18	3
20,0	26	19,5	40	42	92	20	3
20,0	38	19,5	52	54	104	20	3
20,0	60			76	126	20	3

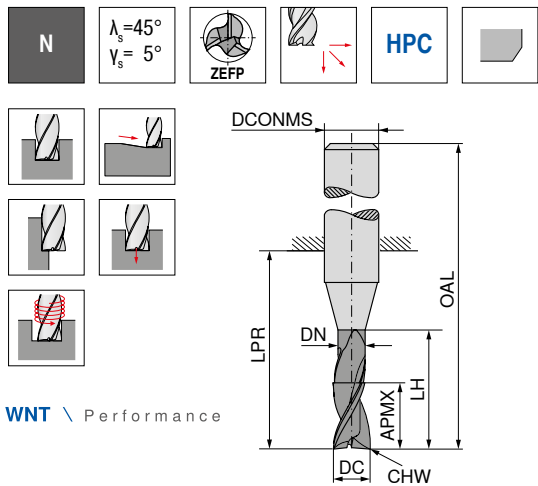
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DC _{es} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{n6} mm	CHW mm	ZEFP
3,0	8	2,8	15	21	57	6	0,1	2
3,5	11	3,3	15	21	57	6	0,1	2
4,0	11	3,8	15	21	57	6	0,1	2
4,5	13	4,3	21	21	57	6	0,1	2
5,0	13	4,8	21	21	57	6	0,1	2
5,5	13	5,3	21	21	57	6	0,1	2
6,0	13	5,8	21	21	57	6	0,1	2
7,0	16	6,8	27	27	63	8	0,1	2
8,0	19	7,8	27	27	63	8	0,1	2
9,0	19	8,8	32	32	72	10	0,1	2
10,0	22	9,8	32	32	72	10	0,1	2
11,0	26	10,8	38	38	83	12	0,1	2
12,0	26	11,8	38	38	83	12	0,1	2
14,0	26	13,8	38	38	83	14	0,1	2
15,0	32	14,7	44	44	92	16	0,1	2
16,0	32	15,7	44	44	92	16	0,1	2
17,0	32	16,7	44	44	92	18	0,1	2
18,0	32	17,7	44	44	92	18	0,1	2
19,0	38	18,7	54	54	104	20	0,1	2
20,0	38	19,7	54	54	104	20	0,1	2

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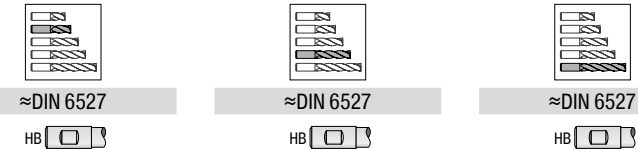
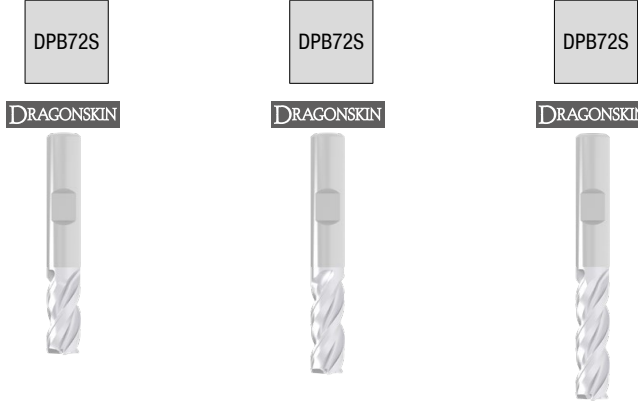


SilverLine – End milling cutter

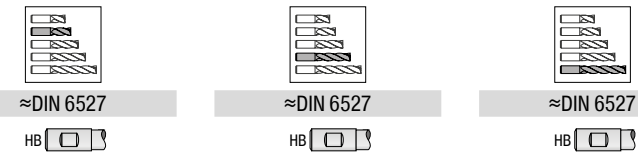


DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS ₁₈ mm	CHW mm	ZEFP
3,0	8	2,9	15	21	57	6	0,1	3
3,5	11	3,4	16	21	57	6	0,1	3
4,0	8	3,9	15	18	54	6	0,1	3
4,0	11	3,9	16	21	57	6	0,1	3
4,0	16			26	62	6	0,1	3
4,5	13	4,4	19	21	57	6	0,1	3
5,0	9	4,9	16	18	54	6	0,1	3
5,0	13	4,9	19	21	57	6	0,1	3
5,0	17			26	62	6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

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



50 966 ...	EUR	50 966 ...	EUR	50 966 ...	EUR
		03200	48,49		
		03700	48,49		
04100	46,75	04200	46,75	04400	49,29
		04700	48,49		
05100	46,75	05200	46,75	05400	49,29
		05700	50,87		
06100	48,62	06200	49,19	06400	54,66
		06700	59,15		
		07200	59,15		
		07700	59,15		
08100	55,24	08200	57,44	08400	61,40
		08700	98,57		
		09200	98,57		
		09700	98,57		
10100	87,31	10200	96,76	10400	109,30
		12200	131,00	12400	148,40
12100	122,40				
14100	151,20	14200	172,80	14400	192,20
16100	183,00	16200	293,30	16400	296,50
18100	252,50	18200	302,30	18400	382,30
20100	309,40	20200	352,70	20400	441,40



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

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

50 967 ...	EUR	50 967 ...	EUR	50 967 ...	EUR
04105	57,02	04205	58,74	04405	62,36
05105	57,02	05205	58,74	05405	62,36
06105	58,55	06205	68,38	06405	69,17
08110	68,86	08210	78,56	08410	77,73
10110	124,10	10210	134,50	10410	138,30
12115	171,50	12215	182,80	12415	187,70
16120	347,60	16220	353,30	16420	375,20
20120	503,00	20220	515,00	20420	558,50

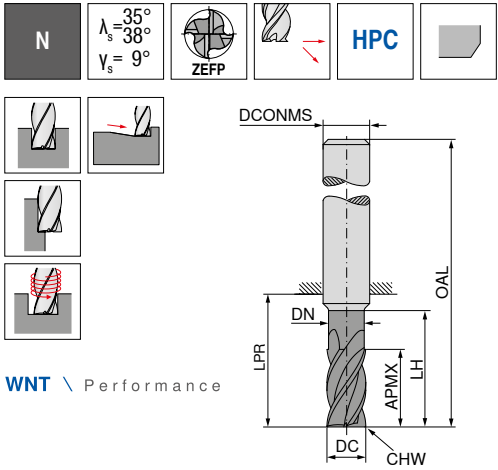


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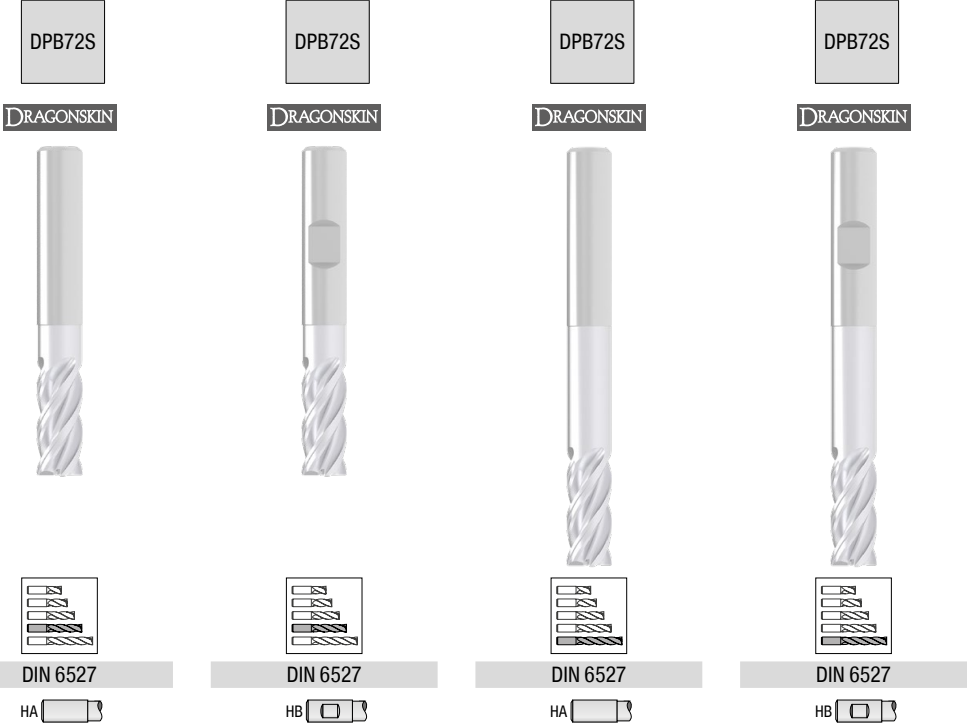
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guaranteed free express delivery

SilverLine – End milling cutter



DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	α°	ZEFP
3	6,5	2,8	9	19	55	6	15	4
3	6,5	2,8	15	22	58	6	15	4
4	8,5	3,8	12	19	55	6	15	4
4	8,5	3,8	20	26	62	6	15	4
5	10,5	4,8	15	22	58	6	15	4
5	10,5	4,8	25	34	70	6	15	4
6	13,0	5,8	18	22	58	6	15	4
6	13,0	5,8	30	34	70	6	15	4
8	17,0	7,7	24	28	64	8	45	4
8	17,0	7,7	40	44	80	8	45	4
10	21,0	9,7	30	34	74	10	45	4
10	21,0	9,7	50	54	94	10	45	4
12	25,0	11,6	36	40	85	12	45	4
12	25,0	11,6	60	64	109	12	45	4
14	29,0	13,6	42	46	91	14	45	4
14	29,0	13,6	70	74	119	14	45	4
16	33,0	15,5	48	52	100	16	45	4
16	33,0	15,5	80	84	132	16	45	4
18	38,0	17,5	54	58	106	18	45	4
18	38,0	17,5	90	94	142	18	45	4
20	42,0	19,5	60	64	114	20	45	4
20	42,0	19,5	100	104	154	20	45	4

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



50 974 ...	EUR	50 975 ...	EUR	50 974 ...	EUR	50 975 ...	EUR
03200	37,26	03200	37,26	03400	39,07	03400	39,07
04200	37,26	04200	37,26	04400	39,07	04400	39,07
05200	37,26	05200	37,26	05400	39,07	05400	39,07
06200	37,26	06200	37,26	06400	39,07	06400	39,07
08200	50,81	08200	50,81	08400	55,91	08400	55,91
10200	74,37	10200	74,37	10400	82,22	10400	82,22
12200	93,71	12200	93,71	12400	102,80	12400	102,80
14200	131,40	14200	131,40	14400	144,50	14400	144,50
16200	210,30	16200	210,30	16400	231,40	16400	231,40
18200	266,00	18200	266,00	18400	292,60	18400	292,60
20200	287,70	20200	287,70	20400	318,60	20400	318,60

DC ₁₈ mm	APMX mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP
3,0	5	14	50	6	0,1	4
3,0	8	21	57	6	0,1	4
3,5	8	18	54	6	0,1	4
3,5	11	21	57	6	0,1	4
4,0	8	18	54	6	0,1	4
4,0	11	21	57	6	0,1	4
4,5	9	18	54	6	0,1	4
4,5	13	21	57	6	0,1	4
5,0	9	18	54	6	0,1	4
5,0	13	21	57	6	0,1	4
5,5	10	18	54	6	0,1	4
5,5	13	21	57	6	0,1	4
6,0	10	18	54	6	0,1	4
6,0	13	21	57	6	0,1	4
7,0	12	22	58	8	0,2	4
7,0	21	27	63	8	0,2	4
8,0	12	22	58	8	0,2	4
8,0	21	27	63	8	0,2	4
9,0	14	26	66	10	0,2	4
9,0	22	32	72	10	0,2	4
10,0	14	26	66	10	0,2	4
10,0	22	32	72	10	0,2	4
11,0	16	28	73	12	0,3	4
11,0	26	38	83	12	0,3	4
12,0	16	28	73	12	0,3	4
12,0	26	38	83	12	0,3	4
14,0	16	28	73	14	0,3	4
14,0	26	38	83	14	0,3	4
15,0	22	34	82	16	0,3	4
15,0	36	44	92	16	0,3	4
16,0	22	34	82	16	0,3	4
16,0	36	44	92	16	0,3	4
17,0	22	34	82	18	0,3	4
17,0	36	44	92	18	0,3	4
18,0	22	34	82	18	0,3	4
18,0	36	44	92	18	0,3	4
19,0	26	42	92	20	0,3	4
19,0	41	54	104	20	0,3	4
20,0	26	42	92	20	0,3	4
20,0	41	54	104	20	0,3	4

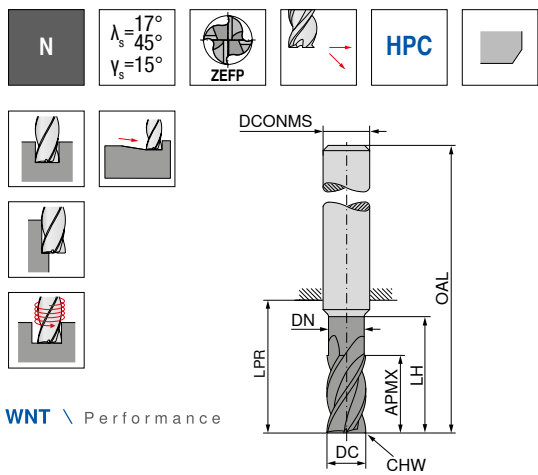
P	•	•	•	•
M	•	•	•	•
K	•	•	•	•
N	○	○	○	○
S	•	•	•	•
H				
O				

50 972 ...	EUR	50 973 ...	EUR	50 972 ...	EUR	50 973 ...	EUR
03100	40,12	03100	40,12	03200	40,12	03200	40,12
03600	40,12	03600	40,12	03700	40,12	03700	40,12
04100	40,12	04100	40,12	04200	40,12	04200	40,12
04600	40,95	04600	40,95	04700	40,95	04700	40,95
05100	40,95	05100	40,95	05200	40,95	05200	40,95
05600	39,62	05600	39,62	05700	39,62	05700	39,62
06100	39,62	06100	39,62	06200	39,62	06200	39,62
07100	52,69	07100	52,69	07200	52,69	07200	52,69
08100	52,69	08100	52,69	08200	52,69	08200	52,69
09100	68,75	09100	68,75	09200	68,75	09200	68,75
10100	68,75	10100	68,75	10200	68,75	10200	68,75
11100	108,70	11100	108,70	11200	108,70	11200	108,70
12100	108,70	12100	108,70	12200	108,70	12200	108,70
14100	139,70	14100	139,70	14200	139,70	14200	139,70
15100	172,50	15100	172,50	15200	172,50	15200	172,50
16100	172,50	16100	172,50	16200	172,50	16200	172,50
17100	234,60	17100	234,60	17200	234,60	17200	234,60
18100	234,60	18100	234,60	18200	234,60	18200	234,60
19100	266,20	19100	266,20	19200	266,20	19200	266,20
20100	266,20	20100	266,20	20200	266,20	20200	266,20

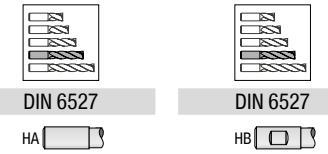


SilverLine – End milling cutter

▲ Especially for high-volume milling

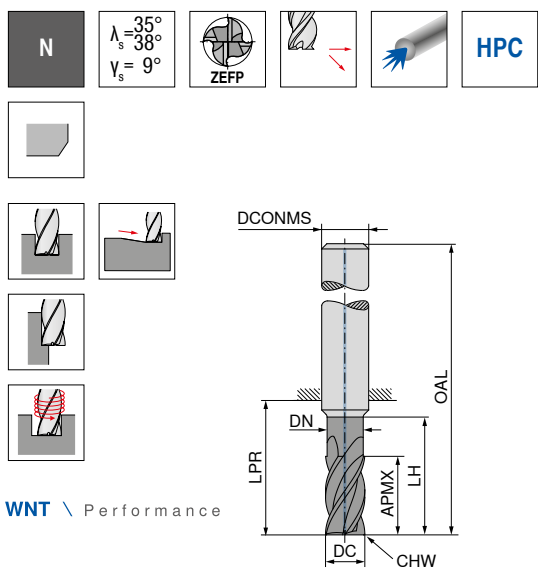


WNT \ Performance

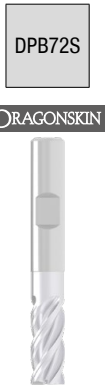


DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 976 ...	EUR	50 977 ...	EUR
3	8	2,8	13	21	57	6	0,1	4	03200	43,08	03200	43,08
4	11	3,8	17	21	57	6	0,1	4	04200	43,08	04200	43,08
5	13	4,8	19	21	57	6	0,1	4	05200	43,08	05200	43,08
6	13	5,8	19	21	57	6	0,1	4	06200	43,08	06200	43,08
8	21	7,7	25	27	63	8	0,2	4	08200	58,07	08200	58,07
10	22	9,7	30	32	72	10	0,2	4	10200	84,99	10200	84,99
12	26	11,6	36	38	83	12	0,3	4	12200	108,60	12200	108,60
14	26	13,6	36	38	83	14	0,3	4	14200	150,10	14200	150,10
16	36	15,5	42	44	92	16	0,3	4	16200	245,00	16200	245,00
18	36	17,5	42	44	92	18	0,3	4	18200	321,40	18200	321,40
20	41	19,5	52	54	104	20	0,3	4	20200	334,10	20200	334,10
P									•		•	
M									•		•	
K									•		•	
N									○		○	
S												
H												
O												

SilverLine – End milling cutter



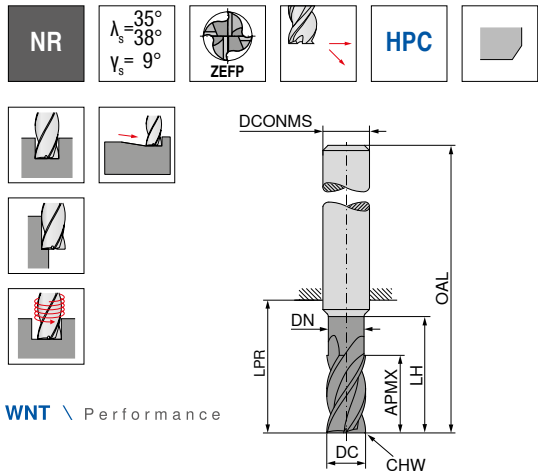
WNT \ Performance



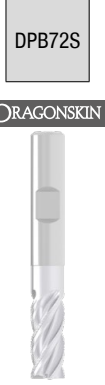
DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 978 ...	EUR
6	13	5,8	19	21	57	6	0,1	4	06200	111,40
8	21	7,7	25	27	63	8	0,2	4	08200	129,90
10	22	9,7	30	32	72	10	0,2	4	10200	146,80
12	26	11,6	36	38	83	12	0,3	4	12200	205,30
14	26	13,6	36	38	83	14	0,3	4	14200	314,90
16	36	15,5	42	44	92	16	0,3	4	16200	314,90
18	36	17,5	42	44	92	18	0,3	4	18200	419,20
20	41	19,5	52	54	104	20	0,3	4	20200	419,20
P									•	
M									•	
K									•	
N									○	
S									•	
H										
O										

SilverLine – Rough milling cutter

▲ With roughing profile



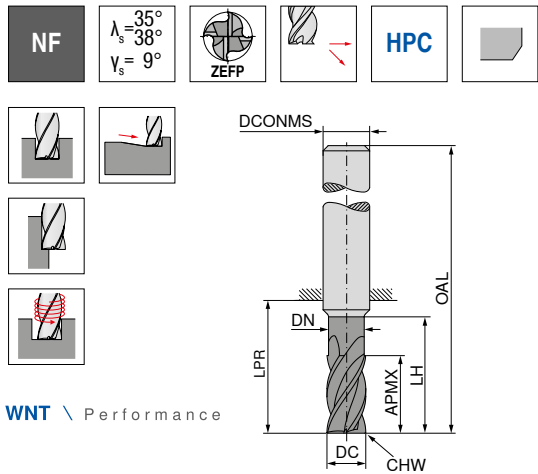
WNT \ Performance



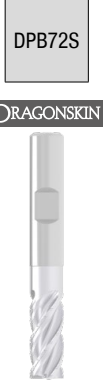
DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 979 ...	EUR
3,0	8	2,8	13	21	57	6	0,1	4	03200	67,99
3,5	11	3,3	17	21	57	6	0,1	4	03700	67,99
4,0	11	3,8	17	21	57	6	0,1	4	04200	67,99
4,5	13	4,3	19	21	57	6	0,1	4	04700	67,99
5,0	13	4,8	19	21	57	6	0,1	4	05200	67,99
5,5	13	5,3	19	21	57	6	0,1	4	05700	67,99
6,0	13	5,8	19	21	57	6	0,1	4	06200	67,99
7,0	21	6,7	25	27	63	8	0,2	4	07200	72,45
8,0	21	7,7	25	27	63	8	0,2	4	08200	72,45
9,0	22	8,7	30	32	72	10	0,2	4	09200	90,04
10,0	22	9,7	30	32	72	10	0,2	4	10200	90,04
11,0	26	10,6	36	38	83	12	0,3	4	11200	142,30
12,0	26	11,6	36	38	83	12	0,3	4	12200	142,30
14,0	26	13,6	36	38	83	14	0,3	4	14200	182,90
15,0	36	14,5	42	44	92	16	0,3	4	15200	225,90
16,0	36	15,5	42	44	92	16	0,3	4	16200	225,90
17,0	36	16,5	42	44	92	18	0,3	4	17200	266,90
18,0	36	17,5	42	44	92	18	0,3	4	18200	266,90
19,0	41	18,5	52	54	104	20	0,3	4	19200	348,50
20,0	41	19,5	52	54	104	20	0,3	4	20200	348,30
P									•	
M									•	
K									•	
N									○	
S									•	
H										
O										

SilverLine – Roughing-Finishing Cutter

▲ With rough-finishing profile



WNT \ Performance



DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 969 ...	EUR
3,0	8	2,8	13	21	57	6	0,1	4	03200	67,99
3,5	11	3,3	17	21	57	6	0,1	4	03700	67,99
4,0	11	3,8	17	21	57	6	0,1	4	04200	67,99
4,5	13	4,3	19	21	57	6	0,1	4	04700	67,99
5,0	13	4,8	19	21	57	6	0,1	4	05200	67,99
5,5	13	5,3	19	21	57	6	0,1	4	05700	67,99
6,0	13	5,8	19	21	57	6	0,1	4	06200	67,99
7,0	21	6,7	25	27	63	8	0,2	4	07200	72,45
8,0	21	7,7	25	27	63	8	0,2	4	08200	72,45
9,0	22	8,7	30	32	72	10	0,2	4	09200	90,04
10,0	22	9,7	30	32	72	10	0,2	4	10200	90,04
11,0	26	10,6	36	38	83	12	0,3	4	11200	142,30
12,0	26	11,6	36	38	83	12	0,3	4	12200	142,30
14,0	26	13,6	36	38	83	14	0,3	4	14200	182,90
15,0	36	14,5	42	44	92	16	0,3	4	15200	225,90
16,0	36	15,5	42	44	92	16	0,3	4	16200	225,90
17,0	36	16,5	42	44	92	18	0,3	4	17200	266,90
18,0	36	17,5	42	44	92	18	0,3	4	18200	266,90
19,0	41	18,5	52	54	104	20	0,3	4	19200	348,50
20,0	41	19,5	52	54	104	20	0,3	4	20200	348,30
P									•	
M									•	
K									•	
N									○	
S									•	
H										
O										



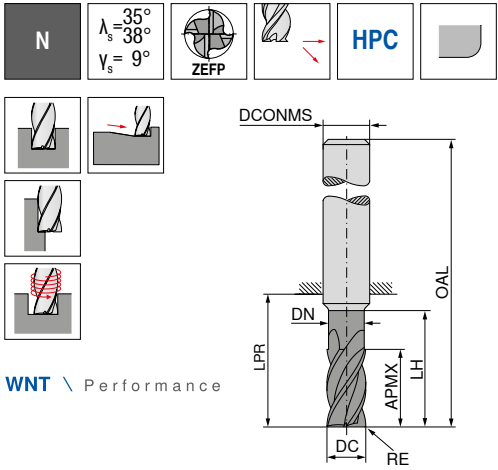
Technical support: 1800 93 22 55

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Order by 6:00 pm and get your
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SilverLine – End milling cutter with corner radius



DC ₁₈ mm	RE _{±0,01} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
3	0,10	8,0	2,8	13	21	57	6	4
3	0,40	8,0	2,8	13	21	57	6	4
3	0,50	8,0	2,8	13	21	57	6	4
3	1,00	8,0	2,8	13	21	57	6	4
3	0,50	6,5	2,8	15	22	58	6	4
3	0,30	6,5	2,8	15	22	58	6	4
3	0,80	6,5	2,8	15	22	58	6	4
4	0,40	11,0	3,8	17	21	57	6	4
4	0,10	11,0	3,8	17	21	57	6	4
4	0,50	11,0	3,8	17	21	57	6	4
4	1,00	11,0	3,8	17	21	57	6	4
4	0,50	8,5	3,8	20	26	62	6	4
4	0,40	8,5	3,8	20	26	62	6	4
4	0,80	8,5	3,8	20	26	62	6	4
5	1,00	13,0	4,8	19	21	57	6	4
5	0,10	13,0	4,8	19	21	57	6	4
5	0,50	13,0	4,8	19	21	57	6	4
5	0,80	10,5	4,8	25	34	70	6	4
5	0,50	10,5	4,8	25	34	70	6	4
6	1,00	13,0	5,8	19	21	57	6	4
6	0,10	13,0	5,8	19	21	57	6	4
6	0,50	13,0	5,8	19	21	57	6	4
6	1,50	13,0	5,8	19	21	57	6	4
6	0,80	13,0	5,8	30	34	70	6	4
6	0,60	13,0	5,8	30	34	70	6	4
6	1,00	13,0	5,8	30	34	70	6	4
8	0,50	21,0	7,7	25	27	63	8	4
8	0,15	21,0	7,7	25	27	63	8	4
8	1,00	21,0	7,7	25	27	63	8	4
8	1,50	21,0	7,7	25	27	63	8	4
8	2,00	21,0	7,7	25	27	63	8	4
8	1,50	17,0	7,7	40	44	80	8	4
8	0,80	17,0	7,7	40	44	80	8	4
8	1,00	17,0	7,7	40	44	80	8	4
8	2,00	17,0	7,7	40	44	80	8	4
10	0,15	22,0	9,7	30	32	72	10	4
10	0,50	22,0	9,7	30	32	72	10	4
10	1,00	22,0	9,7	30	32	72	10	4
10	1,50	22,0	9,7	30	32	72	10	4
10	2,00	22,0	9,7	30	32	72	10	4
10	1,50	21,0	9,7	50	54	94	10	4
10	0,50	21,0	9,7	50	54	94	10	4
10	1,00	21,0	9,7	50	54	94	10	4
10	2,00	21,0	9,7	50	54	94	10	4
12	0,20	26,0	11,6	36	38	83	12	4
12	0,50	26,0	11,6	36	38	83	12	4
12	1,00	26,0	11,6	36	38	83	12	4
12	1,50	26,0	11,6	36	38	83	12	4
12	2,00	26,0	11,6	36	38	83	12	4
12	3,00	26,0	11,6	36	38	83	12	4
12	4,00	26,0	11,6	36	38	83	12	4
12	2,00	25,0	11,6	60	64	109	12	4
12	0,50	25,0	11,6	60	64	109	12	4
12	1,00	25,0	11,6	60	64	109	12	4
12	1,50	25,0	11,6	60	64	109	12	4
12	3,00	25,0	11,6	60	64	109	12	4
12	4,00	25,0	11,6	60	64	109	12	4
14	0,30	26,0	13,6	36	38	83	14	4
14	1,00	26,0	13,6	36	38	83	14	4
14	2,00	26,0	13,6	36	38	83	14	4
14	3,00	26,0	13,6	36	38	83	14	4
14	4,00	26,0	13,6	36	38	83	14	4
14	3,00	29,0	13,6	70	74	119	14	4
14	1,00	29,0	13,6	70	74	119	14	4
14	2,00	29,0	13,6	70	74	119	14	4
14	4,00	29,0	13,6	70	74	119	14	4
16	1,00	36,0	15,5	42	44	92	16	4
16	0,30	36,0	15,5	42	44	92	16	4
16	2,00	36,0	15,5	42	44	92	16	4
16	3,00	36,0	15,5	42	44	92	16	4
16	4,00	36,0	15,5	42	44	92	16	4
16	3,00	33,0	15,5	80	84	132	16	4
16	1,00	33,0	15,5	80	84	132	16	4
16	2,00	33,0	15,5	80	84	132	16	4
16	4,00	33,0	15,5	80	84	132	16	4
18	1,00	36,0	17,5	42	44	92	18	4
18	2,00	36,0	17,5	42	44	92	18	4
18	3,00	36,0	17,5	42	44	92	18	4
18	4,00	36,0	17,5	42	44	92	18	4
18	3,00	38,0	17,5	90	94	142	18	4
18	1,00	38,0	17,5	90	94	142	18	4
18	2,00	38,0	17,5	90	94	142	18	4
18	4,00	38,0	17,5	90	94	142	18	4
20	0,30	41,0	19,5	52	54	104	20	4
20	1,00	41,0	19,5	52	54	104	20	4
20	2,00	41,0	19,5	52	54	104	20	4
20	3,00	41,0	19,5	52	54	104	20	4
20	4,00	41,0	19,5	52	54	104	20	4
20	3,00	42,0	19,5	100	104	154	20	4
20	1,00	42,0	19,5	100	104	154	20	4
20	2,00	42,0	19,5	100	104	154	20	4
20	4,00	42,0	19,5	100	104	154	20	4

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DPB72S	DPB72S	DPB72S	DPB72S
DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
			
			
Factory standard	Factory standard	Factory standard	Factory standard
HA 	HB 	HA 	HB 
50 970 ...	50 971 ...	50 970 ...	50 971 ...
03201	03201		
03204	03204		
03205	03205		
03210	03210		
		03405	03405
		03403	03403
		03408	03408
04204	04204		
04201	04201		
04205	04205		
04210	04210		
		04405	04405
		04404	04404
		04408	04408
05210	05210		
05201	05201		
05205	05205		
		05408	05408
		05405	05405
06210	06210		
06201	06201		
06205	06205		
06215	06215		
		06408	06408
		06406	06406
		06410	06410
08205	08205		
08202	08202		
08210	08210		
08215	08215		
08220	08220		
		08415	08415
		08408	08408
		08410	08410
		08420	08420
10202	10202		
10205	10205		
10210	10210		
10215	10215		
10220	10220		
		10415	10415
		10405	10405
		10410	10410
		10420	10420
12202	12202		
12205	12205		
12210	12210		
12215	12215		
12220	12220		
12230	12230		
12240	12240		
		12420	12420
		12405	12405
		12410	12410
		12415	12415
		12430	12430
		12440	12440
14203	14203		
14210	14210		
14220	14220		
14230	14230		
14240	14240		
		14430	14430
		14410	14410
		14420	14420
		14440	14440
16210	16210		
16203	16203		
16220	16220		
16230	16230		
16240	16240		
		16430	16430
		16410	16410
		16420	16420
		16440	16440
18210	18210		
18220	18220		
18230	18230		
18240	18240		
		18430	18430
		18410	18410
		18420	18420
		18440	18440
20203	20203		
20210	20210		
20220	20220		
20230	20230		
20240	20240		
		20430	20430
		20410	20410
		20420	20420
		20440	20440



SilverLine – End milling cutter

N

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

DPB72S

DRAGONSKIN

≈DIN 6527

DPB72S

DRAGONSKIN

≈DIN 6527

DC _{es} mm	APMX mm	LPR mm	OAL mm	DCONMS _{h6} mm	α°	ZEFP
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 ...

EUR

06100 43,59

08100 57,96

10100 75,63

12100 119,60

16100 189,80

20100 292,80

50 995 ...

EUR

06100 43,59

08100 57,96

10100 75,63

12100 119,60

16100 189,80

20100 292,80

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SilverLine – End milling cutter

N

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

DPB72S

DRAGONSKIN

≈DIN 6527

DPB72S

DRAGONSKIN

≈DIN 6527

DC _{es} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	α°	ZEFP
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 ...

EUR

06200 43,22

08200 58,95

10200 86,29

12200 105,00

16200 243,90

20200 333,80

50 996 ...

EUR

06200 43,22

08200 58,95

10200 86,29

12200 105,00

16200 243,90

20200 333,80

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SilverLine – End milling cutter with corner radius

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

DPB72S

DRAGONSKIN

Factory standard

DPB72S

DRAGONSKIN

Factory standard

DC _{es} mm	RE _{±0,01} mm	APMX mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
6	0,2	13	21	57	6	5
6	0,5	13	21	57	6	5
6	1,0	13	21	57	6	5
8	0,2	21	27	63	8	5
8	0,5	21	27	63	8	5
8	1,0	21	27	63	8	5
8	1,5	21	27	63	8	5
10	0,2	22	32	72	10	5
10	0,5	22	32	72	10	5
10	1,0	22	32	72	10	5
10	1,5	22	32	72	10	5
10	1,6	22	32	72	10	5
10	2,0	22	32	72	10	5
12	0,3	26	38	83	12	5
12	0,5	26	38	83	12	5
12	1,0	26	38	83	12	5
12	1,5	26	38	83	12	5
12	1,6	26	38	83	12	5
12	2,0	26	38	83	12	5
12	2,5	26	38	83	12	5
16	0,3	36	44	92	16	5
16	0,5	36	44	92	16	5
16	1,0	36	44	92	16	5
16	1,5	36	44	92	16	5
16	1,6	36	44	92	16	5
16	2,0	36	44	92	16	5
16	2,5	36	44	92	16	5
16	3,0	36	44	92	16	5
20	0,3	41	54	104	20	5
20	0,5	41	54	104	20	5
20	1,0	41	54	104	20	5
20	1,5	41	54	104	20	5
20	1,6	41	54	104	20	5
20	2,0	41	54	104	20	5
20	2,5	41	54	104	20	5
20	3,0	41	54	104	20	5
20	4,0	41	54	104	20	5

50 997 ...

EUR

06202 62,18

06205 62,18

06210 62,18

08202 77,98

08205 77,98

08210 77,98

08215 77,98

10202 97,43

10205 97,43

10210 97,43

10215 97,43

10216 97,43

10220 97,43

12203 150,50

12205 150,50

12210 150,50

12215 150,50

12216 150,50

12220 150,50

12225 150,50

16203 227,50

16205 227,50

16210 227,50

16215 227,50

16216 227,50

16220 227,50

16225 227,50

16230 227,50

20203 340,80

20205 340,80

20210 340,80

20215 340,80

20216 340,80

20220 340,80

20225 340,80

20230 340,80

20240 340,80

50 998 ...

EUR

06202 62,18

06205 62,18

06210 62,18

08202 77,98

08205 77,98

08210 77,98

08215 77,98

10202 97,43

10205 97,43

10210 97,43

10215 97,43

10216 97,43

10220 97,43

12203 150,50

12205 150,50

12210 150,50

12215 150,50

12216 150,50

12220 150,50

12225 150,50

16203 227,50

16205 227,50

16210 227,50

16215 227,50

16216 227,50

16220 227,50

16225 227,50

16230 227,50

20203 340,80

20205 340,80

20210 340,80

20215 340,80

20216 340,80

20220 340,80

20225 340,80

20230 340,80

20240 340,80

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SilverLine – End milling cutter

▲ Cutting depth: 3 x DC

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

DPB72S

DRAGONSKIN

≈DIN 6527

DPB72S

DRAGONSKIN

≈DIN 6527

DC _{es} mm	APMX mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP
6	19	26	62	6	0,1	5
8	25	32	68	8	0,2	5
10	31	40	80	10	0,2	5
12	37	48	93	12	0,3	5
16	49	60	108	16	0,3	5
20	61	76	126	20	0,3	5

50 999 ...

EUR

06200 51,86

08200 70,74

10200 103,60

12200 126,00

16200 292,70

20200 400,50

50 949 ...

EUR

06200 51,86

08200 70,74

10200 103,60

12200 126,00

16200 292,70

20200 400,50

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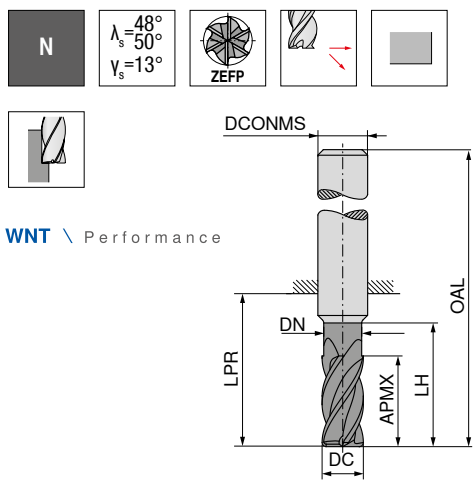
Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



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

SilverLine – High Accuracy Finish Milling Cutter

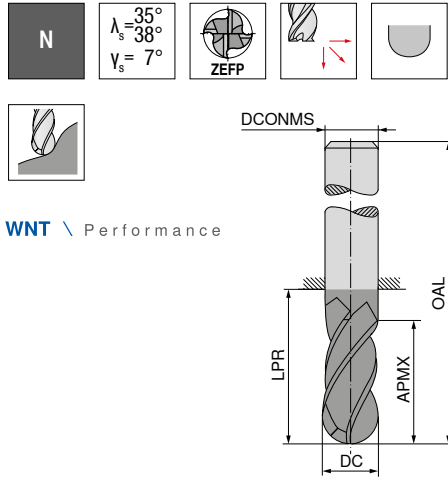
- ▲ max. taper of 0.005 mm for high precision and parallelism of vertical walls
- ▲ Tool with cutting edge correction



DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
6	13	5.6	19	21	57	6	6
6	10	5.8	18	22	58	6	6
6	13	5.8	27	31	67	6	6
6	13	5.8	36	40	76	6	6
6	15	5.6	42	44	80	6	6
8	19	7.6	25	27	63	8	6
8	13	7.7	24	28	64	8	6
8	17	7.7	36	40	76	8	6
8	17	7.7	48	53	89	8	6
8	20	7.6	62	64	100	8	6
10	22	9.6	30	32	72	10	6
10	16	9.7	30	34	74	10	6
10	21	9.7	45	49	89	10	6
10	25	9.6	58	60	100	10	6
10	21	9.7	60	64	104	10	6
12	26	11.5	36	38	83	12	6
12	19	11.6	36	40	85	12	6
12	25	11.6	54	58	103	12	6
12	30	11.5	73	75	120	12	6
12	25	11.6	72	76	121	12	6
16	32	15.0	42	44	92	16	6
16	25	15.5	48	52	100	16	6
16	33	15.5	72	76	124	16	6
16	33	15.5	96	100	148	16	6
16	40	15.0	100	102	150	16	6
20	38	19.0	52	54	104	20	6
20	32	19.5	60	64	114	20	6
20	42	19.5	90	94	144	20	6
20	50	19.0	98	100	150	20	6
20	42	19.5	120	124	174	20	6
25	40	24.5	75	80	136	25	6
25	52	24.5	113	118	174	25	6
25	52	24.5	150	154	210	25	6

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SilverLine – Ball Nosed Cutter

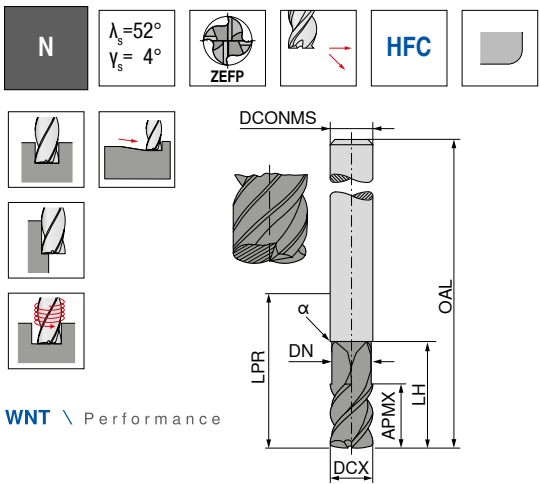


DC ₁₈ mm	APMX mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
4	11	21	57	6	4
5	13	21	57	6	4
6	13	21	57	6	4
8	19	36	72	8	4
10	22	32	72	10	4
12	26	38	83	12	4
16	32	44	92	16	4
20	38	54	104	20	4

P	●	●
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SilverLine – Torus Face Milling Cutter

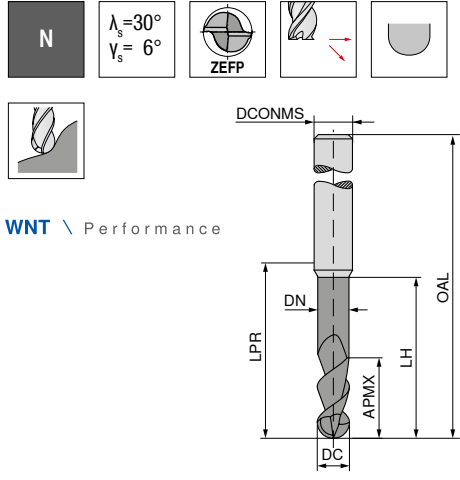
- ▲ APMX does not correspond to the maximum cutting depth
- ▲ r_{3D} = corner radius to be programmed



DCX ₁₈ mm	r _{3D} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	α°	DCONMS _{h6} mm	ZEFP
6	1.12	6	5.5	21	21	57	45	6	4
8	1.23	8	7.4	27	27	63	45	8	4
10	1.17	10	9.2	32	32	72	45	10	4
12	1.86	12	11.0	32	38	83	45	12	4
16	2.47	16	15.0	38	44	92	45	16	4
20	2.61	20	18.5	40	42	92	45	20	4
6	1.12	6	5.5	64	64	100	45	6	4
8	1.23	8	7.4	64	64	100	45	8	4
10	1.17	10	9.2	60	60	100	45	10	4
12	1.86	12	11.0	65	65	110	45	12	4
16	2.47	16	15.0	65	102	150	45	16	4
20	2.61	20	18.5	65	100	150	45	20	4

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M	○	○
K	●	●
N	○	○
S		
H	○	○
O		

SilverLine – Ball Nosed Cutter

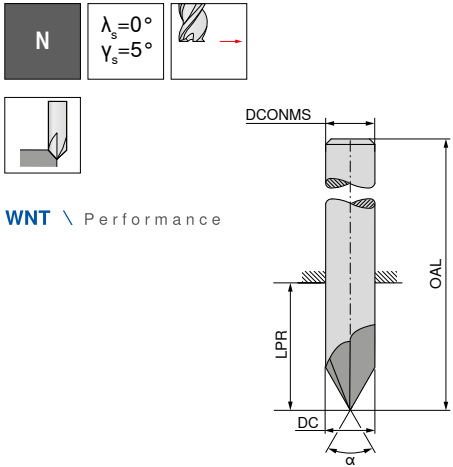


DC ₁₈ mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
3	4	2.8	10.0	14	50	6	2
3	7	3.0	8.8	24	60	6	2
4	8	3.8	12.0	18	54	6	2
4	10	4.0	12.5	39	75	6	2
5	9	4.8	16.0	18	54	6	2
5	12	5.0	15.0	39	75	6	2
6	10	5.7	16.0	18	54	6	2
6	12	6.0	15.0	64	100	6	2
7	11	6.6	20.0	22	58	8	2
8	12	7.6	20.0	22	58	8	2
8	14	8.0	17.5	64	100	8	2
10	14	9.6	24.0	26	66	10	2
10	18	10.0	22.5	60	100	10	2
12	16	11.5	26.0	28	73	12	2
12	22	12.0	27.5	55	100	12	2
14	18	13.3	28.0	30	75	14	2
14	26	14.0	32.5	75	120	14	2
16	22	15.2	32.0	34	82	16	2
16	30	16.0	37.5	102	150	16	2
18	24	17.1	34.0	36	84	18	2
20	26	19.0	40.0	42	92	20	2
20	38	20.0	47.5	100	150	20	2

P	●	●
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SilverLine – NC deburring cutter



WNT \ Performance

DC _{h6} mm	OAL mm	LPR mm	DCONMS _{h6} mm	ZEFP
4	50	22	4	5
6	55	19	6	5
8	58	22	8	5
10	60	20	10	5
12	70	25	12	5
16	80	32	16	5

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

DPB72S	DPB72S	DPB72S	DPB72S
DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
$\alpha = 60^\circ$ Factory standard HA	$\alpha = 60^\circ$ Factory standard HB	$\alpha = 90^\circ$ Factory standard HA	$\alpha = 90^\circ$ Factory standard HB
50 562 ... 04000 39,42 06000 43,31 08000 56,44 10000 67,08 12000 85,72 16000 133,50	50 563 ... 06000 43,31 08000 56,44 10000 67,08 12000 85,72 16000 133,50	50 560 ... 04000 39,42 06000 43,31 08000 56,44 10000 67,08 12000 85,72 16000 133,50	50 561 ... 06000 43,31 08000 56,44 10000 67,08 12000 85,72 16000 133,50

THE UPGRADE – FEEL THE DIFFERENCE!



- 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



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AluLine

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

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

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

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.

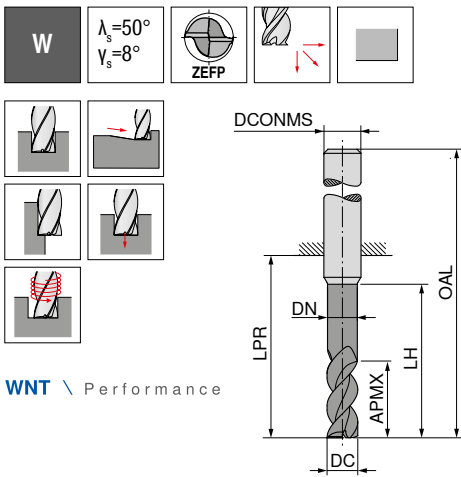
Product Manager CERATIZIT, Michael Wucher



Cutting datas can be found in our UP2DATE September 2019 catalogue on page 62+63

AluLine – End milling cutter

▲ With polished chip flutes



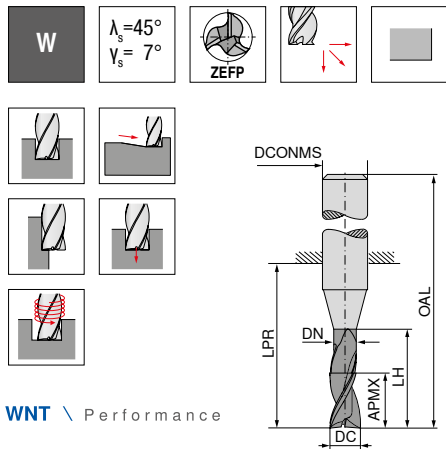
DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP
5,0	10,5	4,8	15	22	58	6	2
5,5	13,0	5,3	18	22	58	6	2
6,0	13,0	5,8	18	22	58	6	2
6,5	17,0	6,2	24	28	64	8	2
7,0	17,0	6,7	24	28	64	8	2
7,5	17,0	7,2	24	28	64	8	2
8,0	17,0	7,7	24	28	64	8	2
8,5	21,0	8,2	30	34	74	10	2
9,0	21,0	8,7	30	34	74	10	2
9,5	21,0	9,2	30	34	74	10	2
10,0	21,0	9,7	30	34	74	10	2
10,5	25,0	10,1	36	40	85	12	2
11,0	25,0	10,6	36	40	85	12	2
11,5	25,0	11,1	36	40	85	12	2
12,0	25,0	11,6	36	40	85	12	2
12,5	29,0	12,1	42	46	91	14	2
13,0	29,0	12,6	42	46	91	14	2
13,5	29,0	13,1	42	46	91	14	2
14,0	29,0	13,6	42	46	91	14	2
14,5	33,0	14,0	48	52	100	16	2
15,0	33,0	14,5	48	52	100	16	2
15,5	33,0	15,0	48	52	100	16	2
16,0	33,0	15,5	48	52	100	16	2
16,5	38,0	16,0	54	58	106	18	2
17,0	38,0	16,5	54	58	106	18	2
17,5	38,0	17,0	54	58	106	18	2
18,0	38,0	17,5	54	58	106	18	2
18,5	42,0	18,0	60	64	114	20	2
19,0	42,0	18,5	60	64	114	20	2
19,5	42,0	19,0	60	64	114	20	2
20,0	42,0	19,5	60	64	114	20	2

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AluLine – End milling cutter

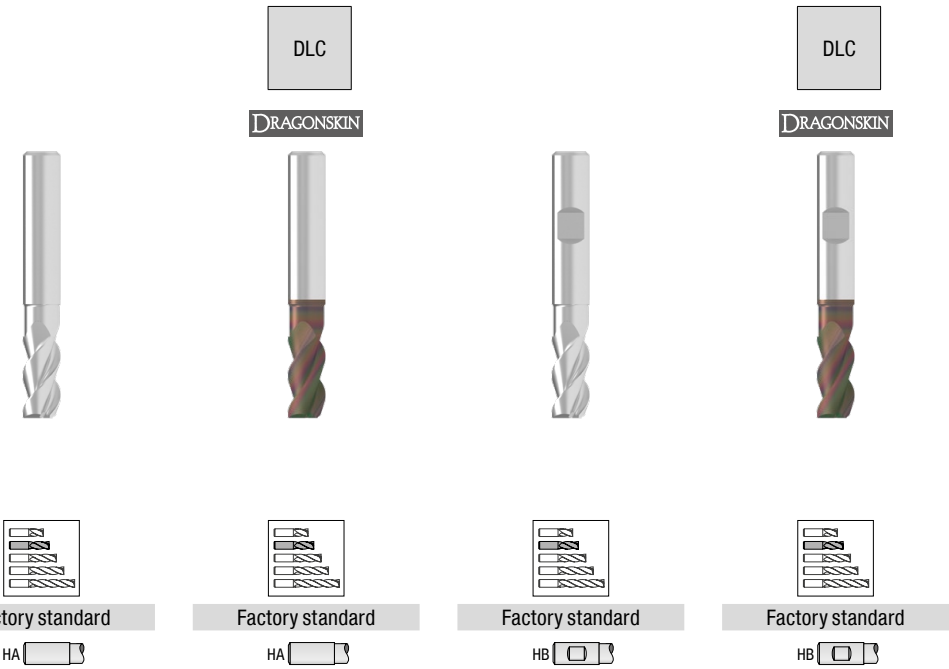
▲ With polished chip flutes



DC _{h6} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	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
6,5	17,0	6,2	24,0	28	64	8	3
7,0	17,0	6,7	24,0	28	64	8	3
7,5	17,0	7,2	24,0	28	64	8	3
8,0	17,0	7,7	24,0	28	64	8	3
8,5	21,0	8,2	30,0	34	74	10	3
9,0	21,0	8,7	30,0	34	74	10	3
9,5	21,0	9,2	30,0	34	74	10	3
10,0	21,0	9,7	30,0	34	74	10	3
10,5	25,0	10,1	36,0	40	85	12	3
11,0	25,0	10,6	36,0	40	85	12	3
11,5	25,0	11,1	36,0	40	85	12	3
12,0	25,0	11,6	36,0	40	85	12	3
12,5	29,0	12,1	42,0	46	91	14	3
13,0	29,0	12,6	42,0	46	91	14	3
13,5	29,0	13,1	42,0	46	91	14	3
14,0	29,0	13,6	42,0	46	91	14	3
14,5	33,0	14,0	48,0	52	100	16	3
15,0	33,0	14,5	48,0	52	100	16	3
15,5	33,0	15,0	48,0	52	100	16	3
16,0	33,0	15,5	48,0	52	100	16	3
16,5	38,0	16,0	54,0	58	106	18	3
17,0	38,0	16,5	54,0	58	106	18	3
17,5	38,0	17,0	54,0	58	106	18	3
18,0	38,0	17,5	54,0	58	106	18	3
18,5	42,0	18,0	60,0	64	114	20	3
19,0	42,0	18,5	60,0	64	114	20	3
19,5	42,0	19,0	60,0	64	114	20	3
20,0	42,0	19,5	60,0	64	114	20	3

DC _{h6} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
2,0	5,5	1,8	10,0	19	55	6	3
2,5	6,5	2,3	12,5	22	58	6	3
3,0	8,0	2,8	15,0	22	58	6	3
3,5	10,5	3,3	20,0	26	62	6	3
4,0	10,5	3,8	20,0	26	62	6	3
4,5	13,0	4,3	25,0	34	70	6	3
5,0	13,0	4,8	25,0	34	70	6	3
5,5	16,0	5,3	30,0	34	70	6	3
6,0	16,0	5,8	30,0	34	70	6	3
6,5	21,0	6,2	40,0	44	80	8	3
7,0	21,0	6,7	40,0	44	80	8	3
7,5	21,0	7,2	40,0	44	80	8	3
8,0	21,0	7,7	40,0	44	80	8	3
8,5	26,0	8,2	50,0	54	94	10	3
9,0	26,0	8,7	50,0	54	94	10	3
9,5	26,0	9,2	50,0	54	94	10	3
10,0	26,0	9,7	50,0	54	94	10	3
10,5	31,0	10,1	60,0	64	109	12	3
11,0	31,0	10,6	60,0	64	109	12	3
11,5	31,0	11,1	60,0	64	109	12	3
12,0	31,0	11,6	60,0	64	109	12	3
12,5	36,0	12,1	70,0	74	119	14	3
13,0	36,0	12,6	70,0	74	119	14	3
13,5	36,0	13,1	70,0	74	119	14	3
14,0	36,0	13,6	70,0	74	119	14	3
14,5	41,0	14,0	80,0	84	132	16	3
15,0	41,0	14,5	80,0	84	132	16	3
15,5	41,0	15,0	80,0	84	132	16	3
16,0	41,0	15,5	80,0	84	132	16	3
16,5	47,0	16,0	90,0	94	142	18	3
17,0	47,0	16,5	90,0	94	142	18	3
17,5	47,0	17,0	90,0	94	142	18	3
18,0	47,0	17,5	90,0	94	142	18	3
18,5	52,0	18,0	100,0	104	154	20	3
19,0	52,0	18,5	100,0	104	154	20	3
19,5	52,0	19,0	100,0	104	154	20	3
20,0	52,0	19,5	100,0	104	154	20	3

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53 615 ...	EUR	53 617 ...	EUR	53 616 ...	EUR	53 618 ...	EUR
02100	24,78	02100	31,71	02100	24,78	02100	31,71
02600	24,47	02600	31,42	02600	24,47	02600	31,42
03100	25,10	03100	32,03	03100	25,10	03100	32,03
03600	26,38	03600	33,33	03600	26,38	03600	33,33
04100	26,67	04100	33,60	04100	26,67	04100	33,60
04600	33,87	04600	40,82	04600	33,87	04600	40,82
05100	29,76	05100	36,73	05100	29,76	05100	36,73
05600	34,71	05600	41,66	05600	34,71	05600	41,66
06100	30,41	06100	38,49	06100	30,41	06100	38,49
06600	36,73	06600	44,79	06600	36,73	06600	44,79
07100	35,83	07100	43,91	07100	35,83	07100	43,91
07600	34,86	07600	42,92	07600	34,86	07600	42,92
08100	33,26	08100	42,34	08100	33,26	08100	42,34
08600	56,62	08600	65,71	08600	56,62	08600	65,71
09100	55,13	09100	64,20	09100	55,13	09100	64,20
09600	53,59	09600	62,69	09600	53,59	09600	62,69
10100	51,11	10100	61,22	10100	51,11	10100	61,22
10600	78,31	10600	88,41	10600	78,31	10600	88,41
11100	76,15	11100	86,27	11100	76,15	11100	86,27
11600	73,90	11600	84,00	11600	73,90	11600	84,00
12100	72,53	12100	86,63	12100	72,53	12100	86,63
				12600	99,48	12600	113,60
				13100	98,62	13100	112,80
				13600	97,82	13600	111,90
				14100	98,76	14100	117,70
				14600	135,00	14600	154,00
				15100	132,00	15100	151,00
				15600	128,80	15600	147,80
				16100	135,70	16100	157,80
				16600	175,40	16600	197,60
				17100	170,70	17100	192,90
				17600	165,70	17600	187,90
				18100	163,60	18100	187,90
				18600	216,90	18600	241,20
				19100	211,00	19100	235,20
				19600	204,90	19600	229,10
				20100	201,30	20100	231,60

53 615 ...	EUR	53 617 ...	EUR	53 616 ...	EUR	53 618 ...	EUR
02200	29,72	02200	36,67	02200	29,72	02200	36,67
02700	29,32	02700	36,29	02700	29,32	02700	36,29
03200	30,09	03200	37,07	03200	30,09	03200	37,07
03700	31,65	03700	38,60	03700	31,65	03700	38,60
04200	32,00	04200	38,98	04200	32,00	04200	38,98
04700	40,66	04700	47,61	04700	40,66	04700	47,61
05200	35,72	05200	42,65	05200	35,72	05200	42,65
05700	41,66	05700	48,62	05700	41,66	05700	48,62
06200	36,50	06200	44,56	06200	36,50	06200	44,56
06700	44,06	06700	52,14	06700	44,06	06700	52,14
07200	42,97	07200	51,05	07200	42,97	07200	51,05
07700	41,83	07700	49,90	07700	41,83	07700	49,90
08200	39,92	08200	49,01	08200	39,92	08200	49,01
08700	67,91	08700	76,99	08700	67,91	08700	76,99
09200	66,17	09200	75,26	09200	66,17	09200	75,26
09700	64,32	09700	73,40	09700	64,32	09700	73,40
10200	61,34	10200	71,46	10200	61,34	10200	71,46
10700	93,98	10700	104,10	10700	93,98	10700	104,10
11200	91,37	11200	101,50	11200	91,37	11200	101,50
11700	88,68	11700	98,78	11700	88,68	11700	98,78
12200	87,02	12200	101,20	12200	87,02	12200	101,20
				12700	119,40	12700	133,60
				13200	118,30	13200	132,50
				13700	117,40	13700	131,50
				14200	118,40	14200	137,50
				14700	162,00	14700	181,00
				15200	158,50	15200	177,50
				15700	154,70	15700	173,70
				16200	162,90	16200	185,00
				16700	210,50	16700	232,70
				17200	204,80	17200	226,90
				17700	198,90	17700	221,00
				18200	196,40	18200	220,60
				18700	282,00	18700	306,30
				19200	274,30	19200	298,50
				19700	266,40	19700	290,40
				20200	261,60	20200	291,90

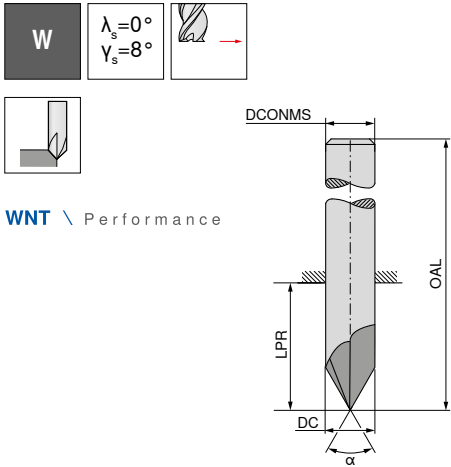


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AluLine – NC deburring cutter



WNT \ Performance

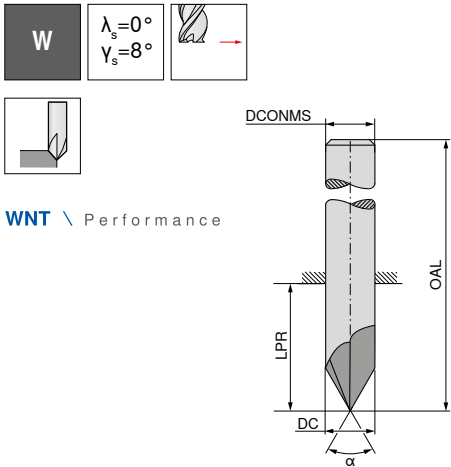
DC _{h6} mm	OAL mm	LPR mm	DCONMS _{h6} mm	ZEFP
4	50	22	4	4
6	55	19	6	4
8	58	22	8	4
10	60	20	10	4
12	70	25	12	4
16	80	32	16	4

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$\alpha = 60^\circ$ Factory standard		$\alpha = 60^\circ$ Factory standard		$\alpha = 60^\circ$ Factory standard		$\alpha = 60^\circ$ Factory standard	
HA		HB		HA		HB	
53 666 ...	EUR	53 667 ...	EUR	53 662 ...	EUR	53 663 ...	EUR
04000	31,95	06000	35,66	04000	37,42	06000	41,14
06000	35,66	08000	41,66	06000	41,14	08000	47,85
08000	41,66	10000	58,84	08000	47,85	10000	66,27
10000	58,84	12000	66,27	10000	66,27	12000	74,74
12000	66,27	16000	110,40	12000	74,74	16000	121,80
16000	110,40			16000	121,80		

AluLine – NC deburring cutter



WNT \ Performance

DC _{h6} mm	OAL mm	LPR mm	DCONMS _{h6} mm	ZEFP
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

P				
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H				
O				



$\alpha = 60^\circ$ Factory standard		$\alpha = 90^\circ$ Factory standard		$\alpha = 90^\circ$ Factory standard		$\alpha = 90^\circ$ Factory standard	
HA		HB		HA		HB	
53 664 ...	EUR	53 665 ...	EUR	53 660 ...	EUR	53 661 ...	EUR
04000	31,95	06000	35,66	04000	37,42	06000	41,14
06000	35,66	08000	41,66	06000	41,14	08000	47,85
08000	41,66	10000	58,84	08000	47,85	10000	66,27
10000	58,84	12000	66,27	10000	66,27	12000	74,74
12000	66,27	16000	110,40	12000	74,74	16000	121,80
16000	110,40			16000	121,80		



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the CERATIZIT Group.



TEAM CUTTING TOOLS



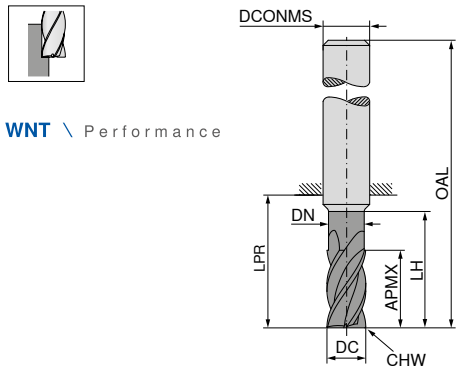
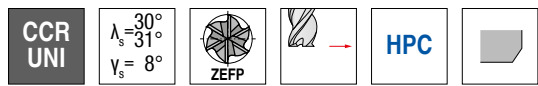
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CircularLine – End milling cutter

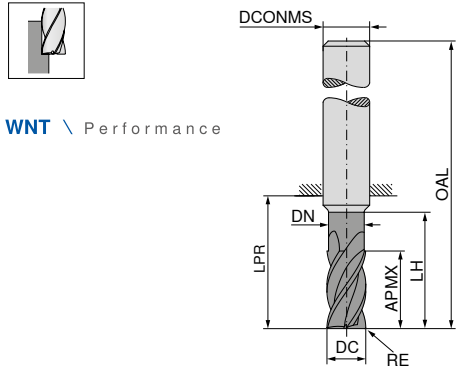
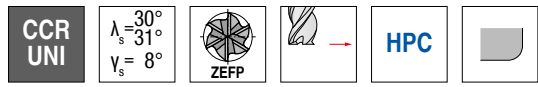
- ▲ Chip breaker 0.9 x DC
- ▲ 53 585 ... Cutting depth: 2 x DC
- ▲ 53 587 ... Cutting depth: 3 x DC



DC ø8 mm	OAL mm	APMX mm	DN mm	LH mm	LPR mm	DCONMS h6 mm	CHW mm	ZEFP	53 585 ... EUR	53 587 ... EUR
6	57	13	5.8	19	21	6	0.2	6	060 49,02	060 49,41
6	63	19	5.8	25	27	6	0.2	6	080 63,92	080 64,35
8	63	21	7.7	25	27	8	0.2	6	100 82,12	100 90,15
8	71	25	7.7	33	35	8	0.2	6	120 105,60	120 106,40
10	72	22	9.7	30	32	10	0.2	6	160 210,60	160 219,90
10	83	31	9.7	41	43	10	0.2	6	200 302,90	200 307,90
12	83	26	11.6	36	38	12	0.2	6		
12	94	37	11.6	47	49	12	0.2	6		
16	92	36	15.5	42	44	16	0.2	6		
16	111	49	15.5	61	63	16	0.2	6		
20	104	41	19.5	52	54	20	0.2	6		
20	127	61	19.5	75	77	20	0.2	6		
P										
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O										

CircularLine – End milling cutter

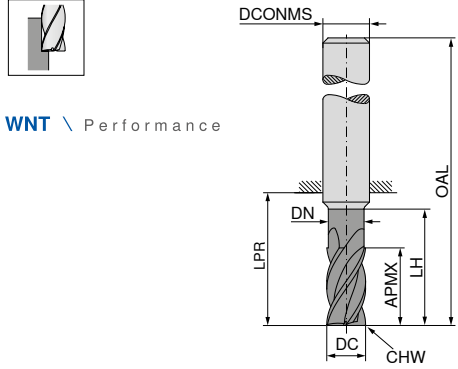
- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 2 x DC



DC ø8 mm	OAL mm	RE ±0.05 mm	APMX mm	DN mm	LH mm	LPR mm	DCONMS h6 mm	ZEFP	53 586 ... EUR
6	57	1.0	13	5.8	19	21	6	6	06010 49,29
6	57	0.2	13	5.8	19	21	6	6	06002 49,02
6	57	1.5	13	5.8	19	21	6	6	06015 49,29
8	63	1.5	21	7.7	25	27	8	6	08015 65,46
8	63	0.2	21	7.7	25	27	8	6	08002 63,92
8	63	1.0	21	7.7	25	27	8	6	08010 65,46
8	63	2.0	21	7.7	25	27	8	6	08020 65,46
10	72	1.5	22	9.7	30	32	10	6	10015 84,38
10	72	0.2	22	9.7	30	32	10	6	10002 82,12
10	72	1.0	22	9.7	30	32	10	6	10010 84,38
10	72	1.6	22	9.7	30	32	10	6	10016 84,38
10	72	2.0	22	9.7	30	32	10	6	10020 84,38
12	83	1.5	26	11.6	36	38	12	6	12015 106,20
12	83	0.2	26	11.6	36	38	12	6	12002 105,60
12	83	1.0	26	11.6	36	38	12	6	12010 106,20
12	83	1.6	26	11.6	36	38	12	6	12016 106,20
12	83	2.0	26	11.6	36	38	12	6	12020 106,20
12	83	3.0	26	11.6	36	38	12	6	12030 106,20
16	92	4.0	36	15.5	42	44	16	6	16040 219,50
16	92	0.2	36	15.5	42	44	16	6	16002 210,60
16	92	1.0	36	15.5	42	44	16	6	16010 227,10
16	92	1.5	36	15.5	42	44	16	6	16015 219,50
16	92	1.6	36	15.5	42	44	16	6	16016 219,50
16	92	2.0	36	15.5	42	44	16	6	16020 219,50
16	92	3.0	36	15.5	42	44	16	6	16030 219,50
20	104	1.6	41	19.5	52	54	20	6	20016 306,00
20	104	0.2	41	19.5	52	54	20	6	20002 302,90
20	104	1.0	41	19.5	52	54	20	6	20010 306,00
20	104	1.5	41	19.5	52	54	20	6	20015 306,00
20	104	2.0	41	19.5	52	54	20	6	20020 306,00
20	104	3.0	41	19.5	52	54	20	6	20030 306,00
20	104	4.0	41	19.5	52	54	20	6	20040 306,00
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CircularLine – End milling cutter

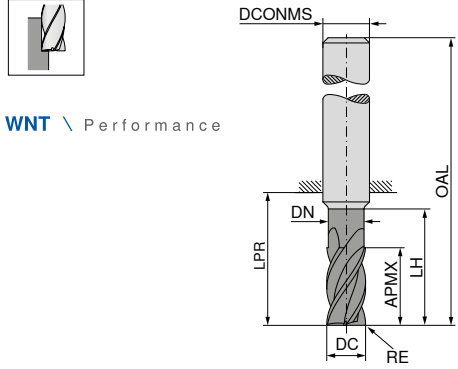
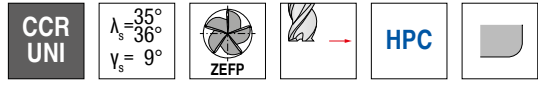
- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 4 x DC



DC ø8 mm	OAL mm	APMX mm	DN mm	LH mm	LPR mm	DCONMS h6 mm	CHW mm	ZEFP	53 589 ... EUR
6	67	25	5.8	29	31	6	0.2	5	060 51,15
8	76	33	7.7	38	40	8	0.2	5	080 66,08
10	89	41	9.7	47	49	10	0.2	5	100 91,90
12	102	49	11.6	55	57	12	0.2	5	120 111,90
16	123	65	15.5	73	75	16	0.2	5	160 224,50
20	143	82	19.5	91	93	20	0.2	5	200 316,00
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CircularLine – End milling cutter

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



DC ø8 mm	OAL mm	RE ±0.05 mm	APMX mm	DN mm	LH mm	LPR mm	DCONMS h6 mm	ZEFP	53 593 ... EUR
6	67	1.5	25	5.8	29	31	6	5	06015 52,65
6	67	1.0	25	5.8	29	31	6	5	06010 52,65
6	67	0.2	25	5.8	29	31	6	5	06002 51,15
8	76	1.5	33	7.7	38	40	8	5	08015 67,81
8	76	1.0	33	7.7	38	40	8	5	08010 67,81
8	76	2.0	33	7.7	38	40	8	5	08020 67,81
8	76	0.2	33	7.7	38	40	8	5	08002 66,08
10	89	1.5	41	9.7	47	49	10	5	10015 93,96
10	89	1.0	41	9.7	47	49	10	5	10010 93,96
10	89	1.6	41	9.7	47	49	10	5	10016 93,96
10	89	2.0	41	9.7	47	49	10	5	10020 93,96
10	89	0.2	41	9.7	47	49	10	5	10002 91,90
12	102	1.0	49	11.6	55	57	12	5	12010 114,70
12	102	1.5	49	11.6	55	57	12	5	12015 114,70
12	102	1.6	49	11.6	55	57	12	5	12016 114,70
12	102	2.0	49	11.6	55	57	12	5	12020 114,70
12	102	3.0	49	11.6	55	57	12	5	12030 114,70
12	102	0.2	49	11.6	55	57	12	5	12002 111,90
16	123	1.6	65	15.5	73	75	16	5	16016 228,00
16	123	1.0	65	15.5	73	75	16	5	16010 228,00
16	123	1.5	65	15.5	73	75	16	5	16015 228,00
16	123	2.0	65	15.5	73	75	16	5	16020 228,00
16	123	3.0	65	15.5	73	75	16	5	16030 228,00
16	123	4.0	65	15.5	73	75	16	5	16040 228,00
16	123	0.2	65	15.5	73	75	16	5	16002 224,50
20	143	2.0	82	19.5	91	93	20	5	20020 320,60
20	143	1.0	82	19.5	91	93	20	5	20010 320,60
20	143	1.5	82	19.5	91	93	20	5	20015 320,60
20	143	1.6	82	19.5	91	93	20	5	20016 320,60
20	143	3.0	82	19.5	91	93	20	5	20030 320,60
20	143	4.0	82	19.5	91	93	20	5	20040 320,60
20	143	0.2	82	19.5	91	93	20	5	20002 316,00
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CircularLine – End milling cutter

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

CCR
UNI

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

ZEFP

HPC

DC ø8 mm	RE mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS h6 mm	ZEFP	53 642 ...	EUR
6	0,2	19	5,8	25	27	63	6	6	06202	49,41
6	1,0	19	5,8	25	27	63	6	6	06210	50,93
6	1,5	19	5,8	25	27	63	6	6	06215	50,93
8	0,2	25	7,7	33	35	71	8	6	08202	64,35
8	1,0	25	7,7	33	35	71	8	6	08210	66,08
8	1,5	25	7,7	33	35	71	8	6	08215	66,08
8	2,0	25	7,7	33	35	71	8	6	08220	66,08
10	0,2	31	9,7	41	43	83	10	6	10202	90,15
10	1,0	31	9,7	41	43	83	10	6	10210	92,11
10	1,5	31	9,7	41	43	83	10	6	10215	92,11
10	1,6	31	9,7	41	43	83	10	6	10216	92,11
10	2,0	31	9,7	41	43	83	10	6	10220	92,11
12	0,2	37	11,6	47	49	94	12	6	12202	106,40
12	1,0	37	11,6	47	49	94	12	6	12210	109,10
12	1,5	37	11,6	47	49	94	12	6	12215	109,10
12	1,6	37	11,6	47	49	94	12	6	12216	109,10
12	2,0	37	11,6	47	49	94	12	6	12220	109,10
12	3,0	37	11,6	47	49	94	12	6	12230	109,10
16	0,2	49	15,5	61	63	111	16	6	16202	219,90
16	1,0	49	15,5	61	63	111	16	6	16210	222,20
16	1,5	49	15,5	61	63	111	16	6	16215	222,20
16	1,6	49	15,5	61	63	111	16	6	16216	222,20
16	2,0	49	15,5	61	63	111	16	6	16220	222,20
16	3,0	49	15,5	61	63	111	16	6	16230	222,20
16	4,0	49	15,5	61	63	111	16	6	16240	222,20
20	0,2	61	19,5	75	77	127	20	6	20202	307,90
20	1,0	61	19,5	75	77	127	20	6	20210	311,30
20	1,5	61	19,5	75	77	127	20	6	20215	311,30
20	1,6	61	19,5	75	77	127	20	6	20216	311,30
20	2,0	61	19,5	75	77	127	20	6	20220	311,30
20	3,0	61	19,5	75	77	127	20	6	20230	311,30
20	4,0	61	19,5	75	77	127	20	6	20240	311,30
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CircularLine – End milling cutter

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

CCR
UNI

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

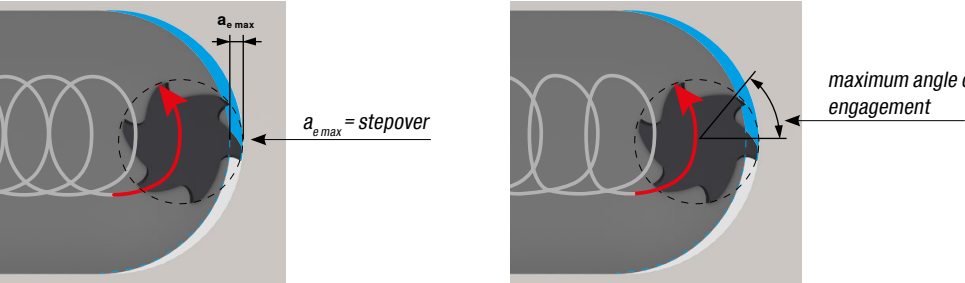
ZEFP

HPC

DC ø8 mm	RE mm	APMX mm	LPR mm	OAL mm	DCONMS h6 mm	ZEFP	53 593 ...	EUR
6	0,2	31	39	75	6	5	06402	62,92
6	1,0	31	39	75	6	5	06410	62,92
6	1,5	31	39	75	6	5	06415	62,92
8	0,2	41	49	85	8	5	08402	72,52
8	1,0	41	49	85	8	5	08410	72,52
8	1,5	41	49	85	8	5	08415	72,52
8	2,0	41	49	85	8	5	08420	72,52
10	0,2	51	60	100	10	5	10402	100,10
10	1,0	51	60	100	10	5	10410	100,10
10	1,5	51	60	100	10	5	10415	100,10
10	1,6	51	60	100	10	5	10416	100,10
10	2,0	51	60	100	10	5	10420	100,10
12	0,2	61	70	115	12	5	12402	124,10
12	1,0	61	70	115	12	5	12410	124,10
12	1,5	61	70	115	12	5	12415	124,10
12	1,6	61	70	115	12	5	12416	124,10
12	2,0	61	70	115	12	5	12420	124,10
12	3,0	61	70	115	12	5	12430	124,10
14	0,2	71	81	126	14	5	14402	254,90
14	1,0	71	81	126	14	5	14410	254,90
14	1,5	71	81	126	14	5	14415	254,90
14	1,6	71	81	126	14	5	14416	254,90
14	2,0	71	81	126	14	5	14420	254,90
14	3,0	71	81	126	14	5	14430	254,90
16	0,2	81	92	140	16	5	16402	252,20
16	1,0	81	92	140	16	5	16410	252,20
16	1,5	81	92	140	16	5	16415	252,20
16	1,6	81	92	140	16	5	16416	252,20
16	2,0	81	92	140	16	5	16420	252,20
16	3,0	81	92	140	16	5	16430	252,20
16	4,0	81	92	140	16	5	16440	252,20
18	0,2	91	102	150	18	5	18402	288,40
18	1,0	91	102	150	18	5	18410	288,40
18	1,5	91	102	150	18	5	18415	288,40
18	1,6	91	102	150	18	5	18416	288,40
18	2,0	91	102	150	18	5	18420	288,40
18	3,0	91	102	150	18	5	18430	288,40
18	4,0	91	102	150	18	5	18440	288,40
20	0,2	102	113	163	20	5	20402	348,30
20	1,0	102	113	163	20	5	20410	348,30
20	1,5	102	113	163	20	5	20415	348,30
20	1,6	102	113	163	20	5	20416	348,30
20	2,0	102	113	163	20	5	20420	348,30
20	3,0	102	113	163	20	5	20430	348,30
20	4,0	102	113	163	20	5	20440	348,30
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Trochoidal milling

When programming the various CAM systems different information is required.



Features & benefits of trochoidal milling

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

Calculation of the average chip thickness

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

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

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

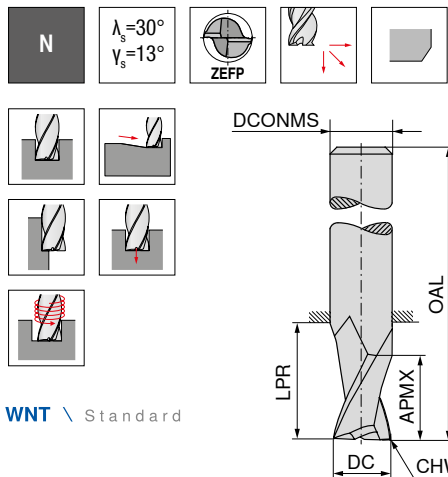


Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



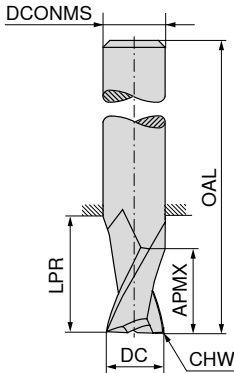
Order by 6:00 pm and get your
guaranteed free express delivery

End milling cutter



WNT \ Standard

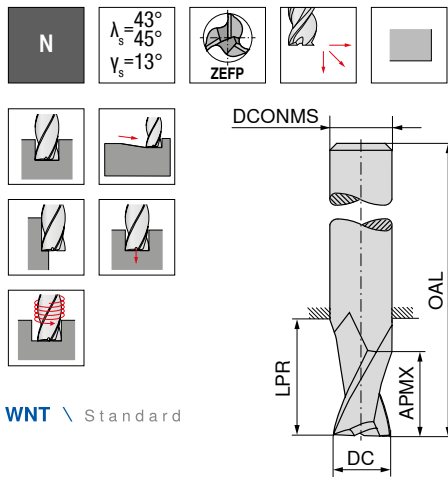
DC _{es} mm	APMX mm	OAL mm	DCONMS _{ns} mm	CHW mm	ZEFP	50 594 ...	EUR
0,25	0,5	38	3		2	925	30,56
0,30	1,0	38	3		2	930	30,56
0,35	1,0	38	3		2	935	30,56
0,40	1,0	38	3		2	940	30,56
0,50	1,5	38	3		2	950	30,56
0,60	1,5	38	3		2	960	30,56
0,70	2,0	38	3		2	970	30,56
0,80	2,0	38	3		2	980	30,56
0,90	2,5	38	3		2	990	30,56
1,00	3,0	50	3		2	010	31,48
1,10	3,0	50	3		2	011	31,48
1,20	4,0	50	3		2	012	31,48
1,40	4,0	50	3		2	014	31,48
1,50	4,0	50	3		2	015	31,48
1,60	4,0	50	3		2	016	31,48
1,80	5,0	50	3		2	018	31,48
2,00	5,0	50	3	0,07	2	020	31,48
2,50	6,0	50	3	0,07	2	025	31,48



DC _{es} mm	APMX mm	LPR mm	OAL mm	DCONMS _{ns} mm	CHW mm	ZEFP	50 594 ...	EUR
2,8	8	21	57	6	0,07	2	028	25,81
3,0	8	21	57	6	0,15	2	030	25,81
3,8	11	21	57	6	0,15	2	038	25,81
4,0	11	21	57	6	0,15	2	040	25,81
4,8	13	21	57	6	0,15	2	048	25,81
5,0	13	21	57	6	0,15	2	050	25,81
5,8	13	21	57	6	0,15	2	058	25,81
6,0	13	21	57	6	0,15	2	060	25,81
6,8	16	27	63	8	0,15	2	068	30,21
7,0	16	27	63	8	0,15	2	070	30,21
7,8	19	27	63	8	0,15	2	078	30,21
8,0	19	27	63	8	0,15	2	080	30,21
8,7	19	32	72	10	0,15	2	087	46,87
9,0	19	32	72	10	0,15	2	090	46,87
9,7	22	32	72	10	0,15	2	097	46,87
10,0	22	32	72	10	0,15	2	100	46,87
10,7	26	38	83	12	0,15	2	107	72,57
11,0	26	38	83	12	0,15	2	110	72,57
11,7	26	38	83	12	0,15	2	117	72,57
12,0	26	38	83	12	0,15	2	120	69,22
13,7	26	38	83	14	0,15	2	137	88,65
14,0	26	38	83	14	0,15	2	140	88,65
15,7	32	44	92	16	0,15	2	157	118,00
16,0	32	44	92	16	0,15	2	160	105,70
17,7	32	44	92	18	0,15	2	177	193,30
18,0	32	44	92	18	0,15	2	180	137,90
19,7	38	54	104	20	0,15	2	197	258,10
20,0	38	54	104	20	0,15	2	200	174,80

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End milling cutter



WNT \ Standard

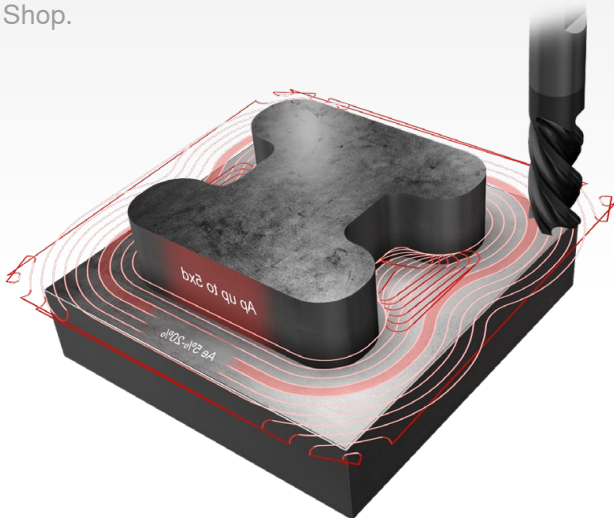
DC _{es} mm	APMX mm	LPR mm	OAL mm	DCONMS _{ns} mm	ZEFP	50 614 ...	EUR	50 614 ...	EUR
3,0	8	21	57	6	3	030	28,22		
3,5	11	21	57	6	3	035	30,56		
3,5	15	23	59	6	3	040	28,22	036	47,10
4,0	11	21	57	6	3	045	30,56	041	47,22
4,0	19	27	63	6	3	050	27,89	046	47,10
4,5	13	21	57	6	3	055	30,56	051	51,38
4,5	19	27	63	6	3	060	28,22	056	51,38
5,0	13	21	57	6	3	065	36,80	061	49,76
5,0	24	32	68	6	3	070	35,42	066	70,81
5,5	13	21	57	6	3	075	33,67	071	70,81
5,5	24	32	68	6	3	080	32,52	076	70,81
6,0	13	21	57	6	3	085	50,80	081	64,93
6,0	24	32	68	6	3	090	50,80	086	111,80
6,5	16	27	63	8	3	095	58,21	091	111,80
6,5	30	44	80	8	3	100	51,95	096	111,80
7,0	16	27	63	8	3	110	82,39	101	108,80
7,0	30	44	80	8	3	120	74,88	111	157,40
7,5	19	27	63	8	3	140	96,29	121	157,40
7,5	30	44	80	8	3	160	132,00	141	201,40
8,0	19	27	63	8	3	180	159,70	161	273,10
8,0	38	52	88	8	3	200	207,20	181	331,00
8,5	19	32	72	10	3			201	440,90
8,5	38	48	88	10	3				
9,0	19	32	72	10	3				
9,0	38	48	88	10	3				
9,5	22	32	72	10	3				
9,5	38	48	88	10	3				
10,0	22	32	72	10	3				
10,0	45	55	95	10	3				
11,0	26	38	83	12	3				
11,0	45	57	102	12	3				
12,0	26	38	83	12	3				
12,0	53	65	110	12	3				
14,0	26	38	83	14	3				
14,0	53	65	110	14	3				
16,0	32	44	92	16	3				
16,0	63	75	123	16	3				
18,0	32	44	92	18	3				
18,0	63	75	123	18	3				
20,0	38	54	104	20	3				
20,0	75	91	141	20	3				

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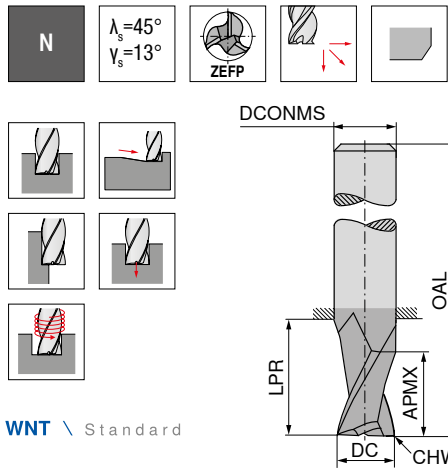
Tool data always at your fingertips

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.



Mini milling cutter



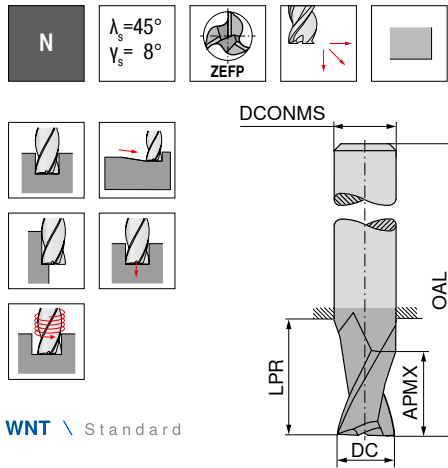
WNT \ Standard

DC _{e8} mm	APMX mm	LPR mm	OAL mm	DCONMS _{h5} mm	CHW mm	ZEFP
0,50	1,5	17	45	3	0,05	3
1,00	2,0	12	45	6	0,05	3
1,00	2,0	17	45	3	0,05	3
1,20	2,0	12	45	6	0,05	3
1,20	3,0	17	45	3	0,05	3
1,50	3,0	12	45	6	0,05	3
1,50	3,0	17	45	3	0,05	3
1,80	3,0	12	45	6	0,05	3
1,80	3,0	17	45	3	0,05	3
2,00	4,0	13	45	6	0,05	3
2,50	6,0	13	45	6	0,05	3
2,80	6,0	13	45	6	0,05	3
3,00	6,0	13	45	6	0,10	3
3,50	7,0	13	45	6	0,10	3
3,80	7,0	13	45	6	0,10	3
4,00	7,0	12	45	6	0,10	3
4,50	8,0	11	45	6	0,10	3
4,80	8,0	11	45	6	0,10	3
5,00	8,0	11	45	6	0,10	3
5,50	8,0	9	45	6	0,10	3
5,75	8,0	9	45	6	0,10	3
6,00	8,0	9	45	6	0,10	3
6,70	10,0	19	55	8	0,10	3
7,00	12,0	19	55	8	0,10	3
7,70	12,0	19	55	8	0,10	3
8,00	13,0	19	55	8	0,10	3
8,70	14,0	17	55	10	0,10	3
9,00	16,0	17	55	10	0,10	3
9,70	16,0	17	55	10	0,10	3
10,00	16,0	17	55	10	0,10	3

Factory standard		Factory standard		Factory standard		Factory standard	
~HA		~HA		HB		HB	
50 608 ...	EUR	50 609 ...	EUR	50 608 ...	EUR	50 609 ...	EUR
30500	19,33	30500	23,79	01000	19,49	01000	25,06
31000	19,33	31000	23,79	01200	19,49	01200	25,06
31200	19,33	31200	23,79	01500	19,49	01500	25,06
31500	19,33	31500	23,79	01800	19,49	01800	25,06
31800	19,33	31800	23,79				
				020	22,68	02000	25,06
				025	20,37	02500	25,06
				02800	20,31	02800	25,06
				030	20,37	03000	25,06
				03500	21,23	03500	25,06
				03800	21,23	03800	25,06
				040	21,19	04000	25,06
				04500	21,74	04500	25,06
				04800	21,74	04800	25,06
				050	21,53	05000	25,06
				05500	21,74	05500	25,06
				05700	21,74	05700	25,06
				060	21,53	06000	25,06
				06700	31,52	06700	25,06
				070	31,71	07000	25,06
				07700	31,52	07700	35,61
				080	31,71	08000	35,61
				08700	41,63	08700	43,28
				09000	41,63	09000	43,28
				09700	44,54	09700	43,28
				100	44,90	10000	43,28

P	•	•
M	•	•
K	•	•
N	•	•
S	•	•
H		
O		

Mini milling cutter



WNT \ Standard

DC _{e8} mm	APMX mm	LPR mm	OAL mm	DCONMS _{h5} mm	ZEFP
0,50	1,5	17	45	3	3
1,00	2,0	12	45	6	3
1,00	2,0	17	45	3	3
1,20	2,0	12	45	6	3
1,20	3,0	17	45	3	3
1,50	3,0	12	45	6	3
1,50	3,0	17	45	3	3
1,80	3,0	12	45	6	3
1,80	3,0	17	45	3	3
2,00	4,0	13	45	6	3
2,50	6,0	13	45	6	3
2,80	6,0	13	45	6	3
3,00	6,0	13	45	6	3
3,50	7,0	13	45	6	3
3,80	7,0	13	45	6	3
4,00	7,0	12	45	6	3
4,50	8,0	11	45	6	3
4,80	8,0	11	45	6	3
5,00	8,0	11	45	6	3
5,50	8,0	9	45	6	3
5,75	8,0	9	45	6	3
6,00	8,0	9	45	6	3
6,70	10,0	19	55	8	3
7,00	12,0	19	55	8	3
7,70	12,0	19	55	8	3
8,00	13,0	19	55	8	3
8,70	14,0	17	55	10	3
9,00	16,0	17	55	10	3
9,70	16,0	17	55	10	3
10,00	16,0	17	55	10	3

Factory standard		Factory standard		Factory standard		Factory standard	
~HA		~HA		HB		HB	
50 664 ...	EUR	50 691 ...	EUR	50 664 ...	EUR	50 691 ...	EUR
30500	19,22	30500	23,79	01000	19,19	01000	20,59
31000	19,22	31000	23,79	01200	19,19	01200	20,59
31200	19,19	31200	23,79	01500	19,19	01500	20,59
31500	19,22	31500	23,79	01800	19,19	01800	20,59
31800	19,19	31800	23,79				
				02000	19,71	02000	24,30
				02500	19,71	02500	24,30
				02800	19,71	02800	24,30
				03000	19,71	03000	24,30
				03500	20,59	03500	24,30
				03800	20,59	03800	24,30
				04000	20,59	04000	24,30
				04500	21,06	04500	24,30
				04800	21,06	04800	24,30
				05000	21,06	05000	24,30
				05500	21,06	05500	24,30
				05700	21,06	05700	24,30
				06000	21,06	06000	24,30
				06700	30,58	06700	24,30
				07000	30,58	07000	24,30
				07700	30,58	07700	34,53
				08000	30,58	08000	34,53
				08700	43,22	08700	41,98
				09000	43,22	09000	41,98
				09700	43,22	09700	41,98
				10000	43,22	10000	41,98

P	•	•
M	•	•
K	•	•
N	•	•
S	•	•
H		
O		



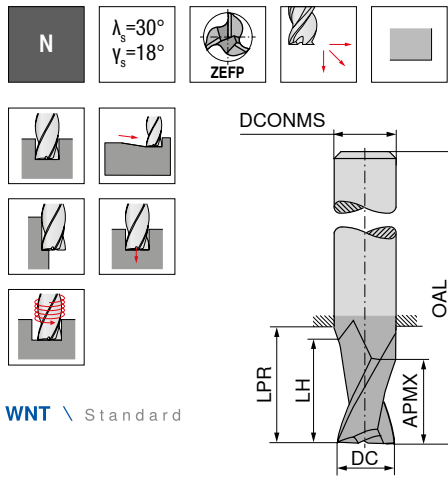
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Mini milling cutter

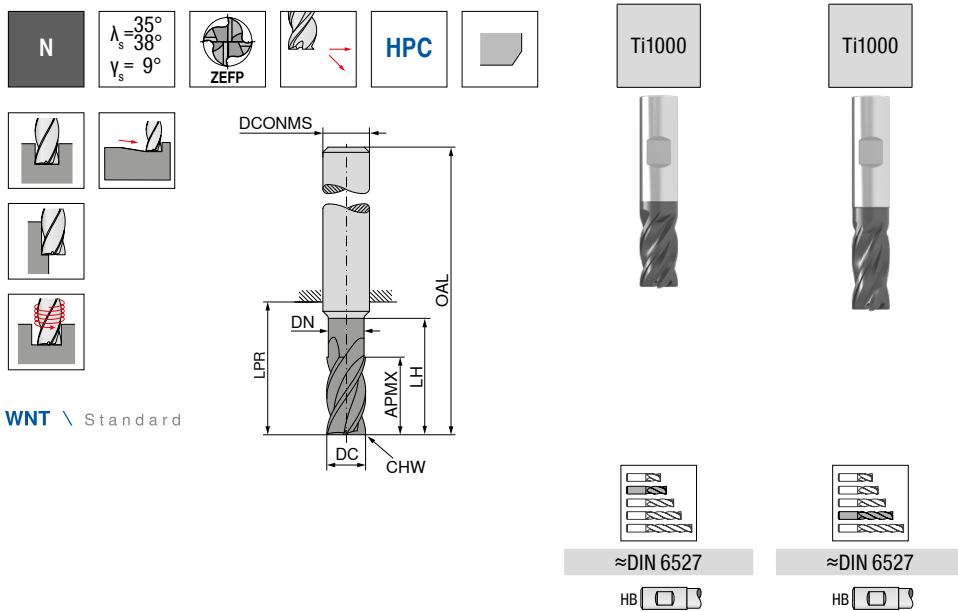
▲ Shank similar to DIN 6535



DC _{es} mm	APMX mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
2,00	4	4,0	10	35	6	3
2,50	4	4,0	10	35	6	3
3,00	5	5,0	10	36	6	3
3,50	5	5,0	10	36	6	3
4,00	7	7,0	12	38	6	3
4,50	7	7,0	12	38	6	3
5,00	8	8,0	13	39	6	3
5,50	8	8,0	13	39	6	3
5,75	8	8,0	13	39	6	3
6,00	8	8,5	13	39	6	3
6,75	11	11,5	16	43	8	3
7,00	11	11,5	16	43	8	3
7,75	11	11,5	16	43	8	3
8,00	11	11,5	16	43	8	3
8,70	13	13,5	18	50	10	3
9,00	13	13,5	18	50	10	3
9,70	13	13,5	18	50	10	3
10,00	13	13,5	18	50	10	3
12,00	15	15,5	24	55	12	3
14,00	15	15,5	26	58	14	3
16,00	18	18,5	28	62	16	3
18,00	20	20,5	35	70	18	3
20,00	22	22,5	40	75	20	3

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

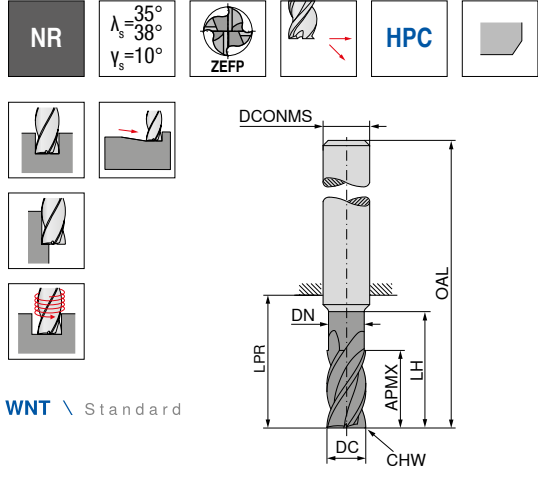
End milling cutter



DC _{es} mm	OAL mm	APMX mm	DN mm	LH mm	LPR mm	DCONMS _{h6} mm	CHW mm	ZEFP
3,0	50	5			14	6	0,1	4
3,0	57	8	2,8	13,0	21	6	0,1	4
4,0	54				18	6	0,1	4
4,0	57	11	3,8	17,0	21	6	0,1	4
5,0	54	9			18	6	0,1	4
5,0	57	13	4,8	19,0	21	6	0,1	4
6,0	54	10			18	6	0,1	4
6,0	57	13	5,8	19,0	21	6	0,1	4
8,0	58	12			22	8	0,2	4
8,0	63	21	7,7	25,0	27	8	0,2	4
10,0	66	14			26	10	0,2	4
10,0	72	22	9,7	30,0	32	10	0,2	4
12,0	73	16			28	12	0,3	4
12,0	83	26	11,6	36,0	38	12	0,3	4
16,0	82	22			34	16	0,3	4
16,0	92	36	15,5	42,0	44	16	0,3	4
20,0	92	26			42	20	0,3	4
20,0	104	41	19,5	52,0	54	20	0,3	4

P	●	●
M	●	●
K	○	○
N	○	○
S	●	●
H		
O		

Rough milling cutter

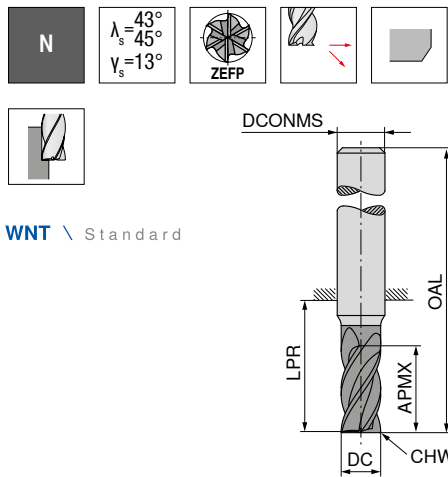


DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP
3	5			14	50	6	0,15	4
3	8	2,8	12	21	57	6	0,15	4
3	8	2,8	15	34	70	6	0,15	4
4	8			18	54	6	0,15	4
4	11	3,8	15	21	57	6	0,15	4
4	11	3,8	20	34	70	6	0,15	4
5	9			18	54	6	0,15	4
5	13	4,8	17	21	57	6	0,15	4
5	13	4,8	25	34	70	6	0,15	4
6	10			18	54	6	0,15	4
6	13	5,8	21	21	57	6	0,15	4
6	13	5,8	30	34	70	6	0,15	4
8	12			22	58	8	0,25	4
8	19	7,7	27	27	63	8	0,25	4
8	19	7,7	40	44	80	8	0,25	4
10	14			26	66	10	0,25	4
10	22	9,7	32	32	72	10	0,25	4
10	22	9,7	50	54	94	10	0,25	4
12	16			28	73	12	0,35	4
12	26	11,6	38	38	83	12	0,35	4
12	26	11,6	64	65	109	12	0,35	4
16	22			34	82	16	0,35	4
16	32	15,5	44	44	92	16	0,35	4
16	32	15,5	80	84	132	16	0,35	4
20	26			42	92	20	0,35	4
20	38	19,5	54	54	104	20	0,35	4
20	38	19,5	100	104	154	20	0,35	4

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



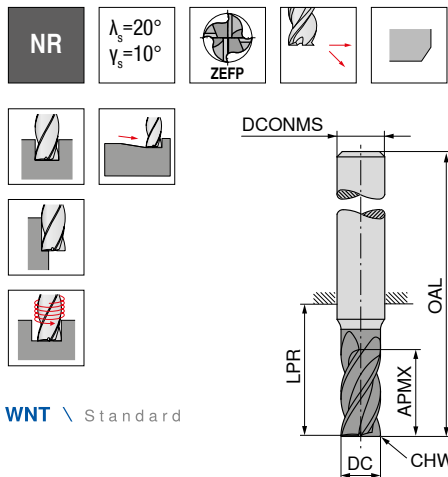
Finish milling cutter



DC ₁₈ mm	APMX mm	LPR mm	OAL mm	DCONMS ₁₅ mm	CHW mm	ZEFP
4	11	21	57	6	0,15	6
4	16	26	62	6	0,15	6
5	13	21	57	6	0,15	6
5	18	26	62	6	0,15	6
6	13	21	57	6	0,15	6
6	18	26	62	6	0,15	6
7	16	27	63	8	0,15	6
7	21	32	68	8	0,15	6
8	19	27	63	8	0,15	6
8	24	32	68	8	0,15	6
9	19	32	72	10	0,15	6
9	27	40	80	10	0,15	6
10	22	32	72	10	0,15	6
10	30	40	80	10	0,15	6
12	26	38	83	12	0,15	6
12	36	48	93	12	0,15	6
14	26	38	83	14	0,15	6
14	42	54	99	14	0,15	6
16	32	44	92	16	0,15	6
16	48	60	108	16	0,15	6
16	65	77	125	16	0,15	6
16	75	102	150	16	0,15	6
18	32	44	92	18	0,15	6
18	54	66	114	18	0,15	6
20	38	54	104	20	0,15	6
20	60	76	126	20	0,15	6
20	75	85	135	20	0,15	6
20	95	100	150	20	0,15	6
25	75	94	150	25	0,15	6
25	95	104	160	25	0,15	6
32	75	90	150	32	0,15	6
32	95	100	160	32	0,15	6

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

Rough milling cutter

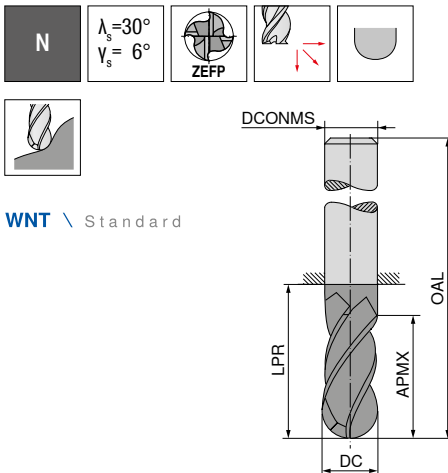


DC _{d11} mm	APMX mm	LPR mm	OAL mm	DCONMS ₁₅ mm	CHW mm	ZEFP
4	8	21	57	6	0,6	4
5	13	21	57	6	0,6	4
6	13	21	57	6	0,6	4
7	19	27	63	8	0,6	4
8	19	27	63	8	0,6	4
9	22	32	72	10	0,6	4
10	22	32	72	10	0,6	4
11	26	38	83	12	0,6	4
12	26	38	83	12	0,6	4
13	26	38	83	14	0,6	4
14	26	38	83	14	0,6	4
16	32	44	92	16	0,6	4
18	32	44	92	18	0,6	4
20	38	54	104	20	0,6	4
25	45	65	121	25	0,6	5

P	●
M	○
K	●
N	○
S	○
H	○
O	○

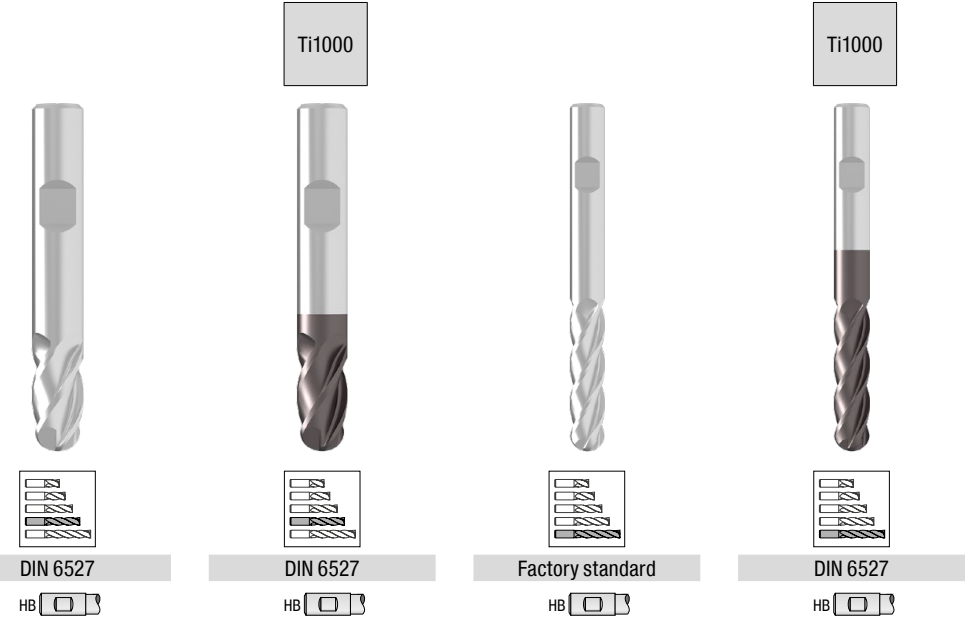
Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm



DC ₁₈ mm	APMX mm	LPR mm	OAL mm	DCONMS ₁₅ mm	ZEFP
3	8	21	57	6	4
4	11	21	57	6	4
6	13	21	57	6	4
6	40	64	100	6	4
8	19	27	63	8	4
8	40	64	100	8	4
10	22	32	72	10	4
10	40	60	100	10	4
12	26	38	83	12	4
12	45	55	100	12	4
12	75	105	150	12	4
14	26	38	83	14	4
14	45	55	100	14	4
16	32	44	92	16	4
16	75	102	150	16	4
20	38	54	104	20	4
20	75	100	150	20	4

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



50 642 ...	EUR	50 643 ...	EUR	50 642 ...	EUR	50 643 ...	EUR
030	44,32	030	54,16				
040	44,32	040	54,16				
060	44,32	060	54,16				
080	51,04	080	60,41	061	55,78	061	65,74
100	86,91	100	96,40	081	62,73	081	72,80
120	116,90	120	126,10	101	112,00	101	121,60
140	148,10	140	157,40	121	151,60	121	160,90
160	208,20	160	214,00	122	236,20	122	244,10
200	289,40	200	297,50	141	209,50	141	215,30
				161	289,40	161	297,50
				201	457,10	201	467,60

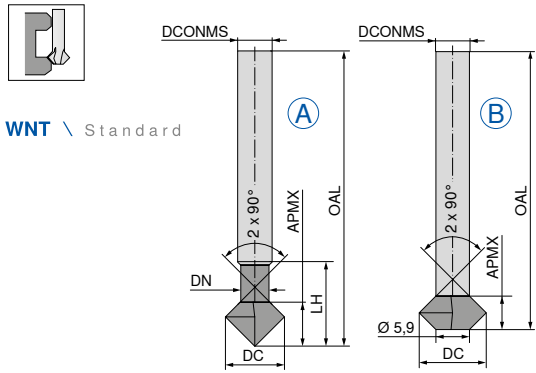
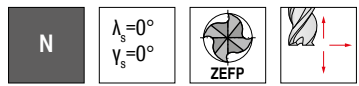


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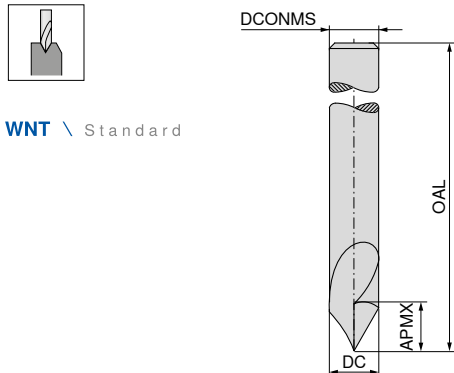
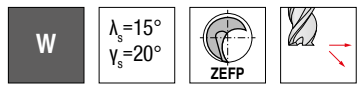
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NC front and rear chamfer milling cutter



DC	APMX	DN	LH	OAL	DCONMS	h ₅	ZEFP	Fig.	52 158 ...	EUR	52 159 ...	EUR
3	2.0	2.2	12.0	75	4	4	A	A	030	56.58	030	63.99
4	2.7	2.9	17.7	75	4	4	A	A	040	56.58	040	65.15
5	3.0	3.9	18.0	75	5	4	A	A	050	57.97	050	66.42
6	4.0	3.9	19.0	100	6	4	A	A	060	70.71	060	79.39
8	2.0			100	6	4	B	B	080	92.11	080	103.00
10	4.0			100	6	4	B	B	100	114.80	100	128.40
12	6.0			100	6	4	B	B	120	137.90	120	152.80
P												
M												
K												
N												
S												
H												
O												

Engraving cutter 60°



DC	h ₅	APMX	OAL	DCONMS	h ₅	ZEFP	52 195 ...	EUR
3	15	50	3	1			030	40.86
4	18	50	4	1			040	43.50
6	20	54	6	1			060	46.76
P								
M								
K								
N								
S								
H								
O								

ToolScope

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Keep a close eye on
your processes...

Process control

- ▲ Process data is captured, visualised and evaluated by ToolScope
- ▲ Deviations are identified in real time
- ▲ ToolScope optimizes your manufacturing processes automatically

Machine protection

- ▲ The machine status is monitored for maintenance purposes
- ▲ If impact collisions occur, an emergency stop is triggered (airbag for the machine)
- ▲ Overloading of the tool and the machine tool can be prevented

Documentation & digitalisation

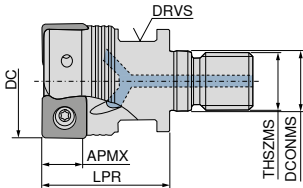
- ▲ Tool life analysis (data about the use of the tool is captured)
- ▲ Machining time analysis (analysis of machine downtimes and the reasons for them)
- ▲ 100% control of the workpiece: critical process parameters are documented (ensures the quality level)



MaxiMill – Screw in cutter G 491



CERATIZIT \ Performance



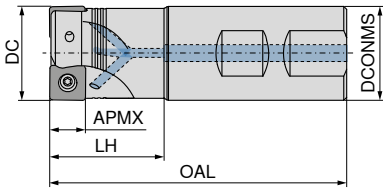
ISO designation	DC mm	LPR mm	THSZMS	DCONMS mm	APMX mm	DRVS mm	Insert	ZNF
G491.25.R.03-09	25	35	M12	12,5	6	17	SNHU 09T3	3
G491.32.R.03-09	32	35	M16	17,0	6	24	SNHU 09T3	3
G491.32.R.04-09	32	35	M16	17,0	6	24	SNHU 09T3	4
G491.32.R.02-12	32	35	M16	17,0	8	24	SNHU 1204	2

50 773 ...	EUR
125	54,00
132	55,00
232	62,00
032	52,00

MaxiMill – End milling cutter C 491



CERATIZIT \ Performance



ISO designation	DC mm	OAL mm	LH mm	DCONMS _{H6} mm	APMX mm	Insert	ZNF
C491.25.R.03-09-A-50-225	25	225	50	25	6	SNHU 09T3	3
C491.25.R.03-09-B-32	25	89	32	25	6	SNHU 09T3	3
C491.32.R.03-09-A-63-250	32	250	63	32	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.04-09-A-63-250	32	250	63	32	6	SNHU 09T3	4
C491.32.R.02-12-A-63-250	32	250	63	32	8	SNHU 1204	2
C491.32.R.02-12-B-40	32	102	40	32	8	SNHU 1204	2

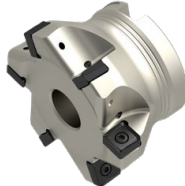
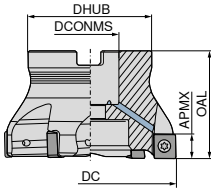
50 774 ...	EUR
325	55,00
532	57,00
332	62,00
232	52,00

50 774 ...	EUR
425	55,00
632	57,00
432	62,00
032	52,00

MaxiMill – Shell mill A 491



CERATIZIT \ Performance



ISO designation	DC mm	OAL mm	DHUB mm	DCONMS _{H6} mm	APMX mm	Insert	ZNF
A491.40.R.03-09	40	40	38	16	6	SNHU 09T3	3
A491.40.R.05-09	40	40	38	16	6	SNHU 09T3	5
A491.50.R.04-09	50	40	43	22	6	SNHU 09T3	4
A491.50.R.06-09	50	40	43	22	6	SNHU 09T3	6
A491.63.R.05-09	63	40	48	22	6	SNHU 09T3	5
A491.63.R.08-09	63	40	48	22	6	SNHU 09T3	8
A491.80.R.06-09	80	50	58	27	6	SNHU 09T3	6
A491.80.R.10-09	80	50	58	27	6	SNHU 09T3	10
A491.100.R.07-09	100	50	78	32	6	SNHU 09T3	7
A491.100.R.12-09	100	50	78	32	6	SNHU 09T3	12
A491.125.R.08-09	125	63	88	40	6	SNHU 09T3	8
A491.125.R.15-09	125	63	88	40	6	SNHU 09T3	15
A491.40.R.03-12	40	40	38	16	8	SNHU 1204	3
A491.40.R.04-12	40	40	38	16	8	SNHU 1204	4
A491.50.R.04-12	50	40	43	22	8	SNHU 1204	4
A491.50.R.05-12	50	40	43	22	8	SNHU 1204	5
A491.63.R.05-12	63	40	48	22	8	SNHU 1204	5
A491.63.R.06-12	63	40	48	22	8	SNHU 1204	6
A491.80.R.06-12	80	50	58	27	8	SNHU 1204	6
A491.80.R.08-12	80	50	58	27	8	SNHU 1204	8
A491.100.R.07-12	100	50	78	32	8	SNHU 1204	7
A491.100.R.10-12	100	50	78	32	8	SNHU 1204	10
A491.125.R.08-12	125	63	88	40	8	SNHU 1204	8
A491.125.R.12-12	125	63	88	40	8	SNHU 1204	12
A491.160.R.09-12	160	63	98	40	8	SNHU 1204	9
A491.160.R.14-12	160	63	98	40	8	SNHU 1204	14

50 775 ...	EUR
240	60,00
250	66,00
263	79,00
280	84,00
300	107,00
325	130,00
040	60,00
050	66,00
063	79,00
080	84,00
100	107,00
125	130,00
160 ¹⁾	151,00

50 776 ...	EUR
240	70,00
250	76,00
263	94,00
280	104,00
300	131,00
325	159,00
040	65,00
050	71,00
063	84,00
080	97,00
100	122,00
125	149,00
160 ¹⁾	175,00

1) With threaded holes M12 on the front face, pitch circle diameter = 66.7 mm / Without Through Coolant

Spare parts

	EUR	80 950 ...	EUR	80 397 ...	EUR	80 950 ...	EUR	70 950 ...	EUR	70 950 ...
SNHU 09T3..	4,88	053		040	8,26	119		151	2,92	710
SNHU 09T3.. (Ø40)	4,88	053	3,63	040	8,26	119	11,79	151	2,92	710
SNHU 1204..					11,03	128			2,97	859
SNHU 1204.. (Ø40)			3,63	040	11,03	128	11,79	151	2,97	859



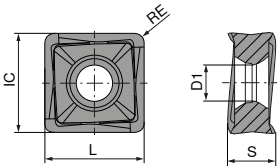
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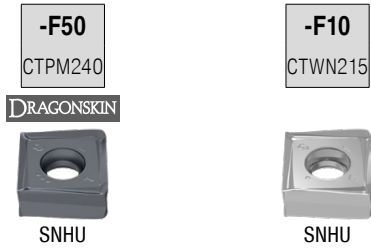
SNHU

Designation	IC mm	D1 mm	L mm	S mm
SNHU 09T3..	9,15	3,85	9,15	3,70
SNHU 1204..	12,20	4,40	12,20	5,00



SNHU

CERATIZIT \ Performance



ISO	RE mm	51 102 ...	EUR	51 101 ...	EUR
120408FR	0,8			358	25,34
120408SR	0,8	408	25,34		
120412FR	1,2			362	25,34
120412SR	1,2	412	25,34		
120416FR	1,6			366	25,34
120416SR	1,6	416	25,34		
120420FR	2,0			370	25,34
120420SR	2,0	420	25,34		
P		○			
M		●			
K				○	
N				●	
S					
H					
O				○	

SNHU

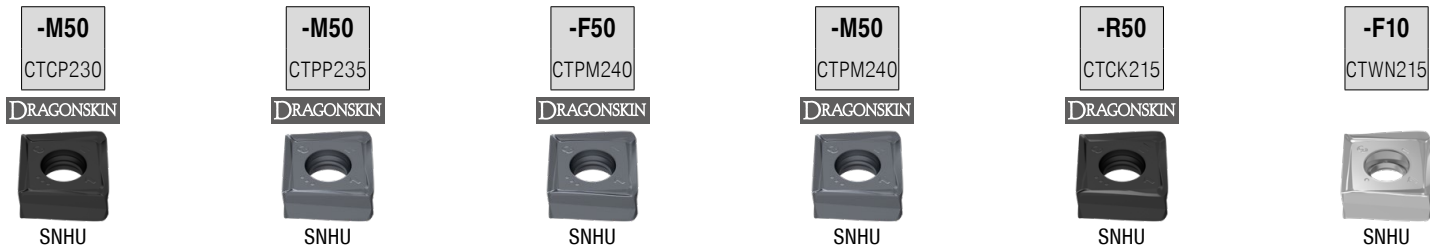
CERATIZIT \ Performance



ISO	RE mm	51 100 ...	EUR	51 100 ...	EUR	51 100 ...	EUR	51 103 ...	EUR	51 103 ...	EUR
120408SR	0,8	008	25,34	108	25,34	408	25,34	508	25,34	608	25,34
120412SR	1,2			112	25,34			512	25,34		
120416SR	1,6			116	25,34			516	25,34		
120420SR	2,0			120	25,34			520	25,34		
P		●		●		○					
M				○		●					
K		○		○				●		●	
N											
S											
H											
O											

SNHU

CERATIZIT \ Performance



ISO	RE mm	51 120 ...	EUR	51 120 ...	EUR	51 119 ...	EUR	51 120 ...	EUR	51 121 ...	EUR	51 118 ...	EUR
09T308FR	0,8					408	20,75	408	20,75	508	20,75	358	20,75
09T308SR	0,8	008	20,75	108	20,75								
P		●		●		○		○					
M				○		●		●					
K		○		○						●		○	
N												●	
S													
H													
O												○	

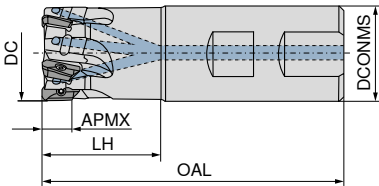


MaxiMill – End milling cutter C 211-11

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



CERATIZIT \ Performance



ISO designation	DC mm	OAL mm	LH mm	DCONMS _{H6} mm	APMX mm	RPMX 1/min.	Insert	ZNF
C211.12.R.01-11-B-20	12	75	20	16	10	55000	XD.T 11T3	1
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.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.04-11-A-32	25	90	32	25	10	33200	XD.T 11T3	4
C211.25.R.04-11-B-32	25	90	32	25	10	33200	XD.T 11T3	4
C211.25.R.03-11-B-32	25	90	32	25	10	33200	XD.T 11T3	3
C211.25.R.03-11-A-32	25	90	32	25	10	33200	XD.T 11T3	3
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
C211.32.R.05-11-A-40	32	102	40	32	10	30200	XD.T 11T3	5
C211.32.R.05-11-B-40	32	102	40	32	10	30200	XD.T 11T3	5
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



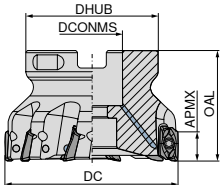
50 737 ...	EUR	50 737 ...	EUR
116	36,00	012	32,00
316	36,00	016	36,00
216	36,00		
120	40,00	020	40,00
320	40,00		
620	38,00		
420	38,00		
125	45,00	025	45,00
		725	42,00
625	42,00		
325	45,00		
425	42,00		
825	42,00		
132	50,00	032	50,00
332	50,00		
432	47,00		

MaxiMill – Shell mill A 211-11

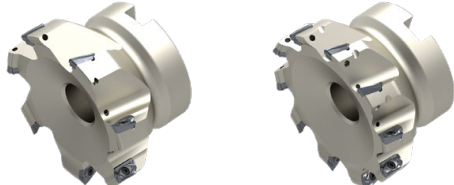
▲ Insert radius >1,6 mm: Modify cutter body



CERATIZIT \ Performance



ISO designation	DC mm	OAL mm	DCONMS _{H6} mm	DHUB mm	APMX mm	RPMX 1/min.	Insert	ZNF
A211.40.R.04-11	40	40	16	38	10	27700	XD.T 11T3	4
A211.40.R.06-11	40	40	16	38	10	27700	XD.T 11T3	6
A211.50.R.05-11	50	40	22	43	10	25400	XD.T 11T3	5
A211.50.R.08-11	50	40	22	43	10	25400	XD.T 11T3	8
A211.63.R.06-11	63	40	22	48	10	23300	XD.T 11T3	6
A211.63.R.10-11	63	40	22	48	10	23300	XD.T 11T3	10
A211.80.R.07-11	80	50	27	58	10	21300	XD.T 11T3	7
A211.80.R.10-11	80	50	27	58	10	21300	XD.T 11T3	10



50 738 ...	EUR	50 739 ...	EUR
040	49,00	040	55,00
050	58,00	050	66,00
063	66,00	063	78,00
080	75,00	180	84,00

Spare parts	TORX® blade	Clamping key – T	Key D	Power Screw	Clamping screw	Torque screwdriver
DC	EUR	EUR	EUR	EUR	EUR	EUR
12	80 950 ...	80 397 ...	80 950 ...	70 950 ...	70 950 ...	80 950 ...
16 - 32	4,41 043		9,46 125		2,43 116	110,25 191
40	4,41 043	3,63 040	9,46 125	11,79 151	3,86 128	110,25 191
40	4,41 043		9,46 125	11,79 151	3,86 131	110,25 191
50	4,41 043	3,93 050	9,46 125	16,20 154	3,86 131	110,25 191
63 - 80	4,41 043		9,46 125		3,86 131	110,25 191

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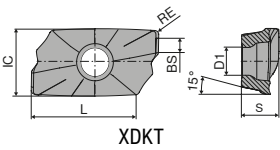
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XDKT / XDHT

Designation	IC mm	D1 mm	L mm	BS mm	S mm
XD.T 11T302..	6,8	2,8	10,6	2	3,80
XD.T 11T304..	6,8	2,8	10,6	1,8	3,80
XD.T 11T308..	6,8	2,8	10,6	1,4	3,80
XD.T 11T312..	6,8	2,8	10,6	1,4	3,80
XD.T 11T316..	6,8	2,8	10,6	1,4	3,80
XD.T 11T320..	6,8	2,8	10,6	1,4	3,80
XD.T 11T325..	6,8	2,8	10,6	1,4	3,80
XD.T 11T332..	6,8	2,8	10,6	0,8	3,80
XD.T 11T340..	6,8	2,8	10,6	-	3,80
XDHT 11T350..	6,8	2,8	10,6	-	3,80
XDKT 11T332..	6,8	2,8	10,6	1,4	3,80



XDKT / XDHT

CERATIZIT \ Performance

		-F40 CTPM245 DRAGONSKIN		-F50 CTPM245 DRAGONSKIN		-F40 CTC5240 DRAGONSKIN		-F20 CTWN215		-27P H216T	
		XDKT		XDKT		XDKT		XDKT		XDHT	
ISO	RE mm	51 113 ...	EUR	51 034 ...	EUR	50 463 ...	EUR	50 478 ...	EUR	50 477 ...	EUR
11T302FR	0,2										
11T304ER	0,4	454	17,09			504	17,09	502	13,28	502	17,51
11T304FR	0,4							504	13,28	504	17,51
11T308ER	0,8	458	17,09			500	17,09	508	13,28	508	17,51
11T308FR	0,8										
11T308SR	0,8										
11T312ER	1,2	462	17,09			512	17,09			512	17,51
11T312FR	1,2										
11T316ER	1,6	466	17,09			516	17,09			516	17,51
11T316FR	1,6										
11T320ER	2,0	470	17,09					520	13,28	520	17,51
11T320FR	2,0										
11T325ER	2,5	475	17,09			525	17,09	525	13,28	525	17,51
11T325FR	2,5										
11T332ER	3,2	482	17,09			532	17,09			532	17,51
11T332FR	3,2										
11T340ER	4,0	490	17,09			540	17,09			540	17,51
11T340FR	4,0									550	17,51
11T350FR	5,0										
P		•		•							
M		•		•							
K								○		○	
N								•		•	
S						•					
H											
O								○		○	

1) Insert radius >1.6 mm: Modify cutter body

XDKT

CERATIZIT \ Performance

		-M50 CTCP220 DRAGONSKIN		-M50 CTPP225 DRAGONSKIN		-M50 CTCP230 DRAGONSKIN		-M50 CTPP235 DRAGONSKIN		-M50 CTPM225 DRAGONSKIN		-M50 CTCM235 DRAGONSKIN		-M50 CTPM240 DRAGONSKIN		-M50 CTCK215 DRAGONSKIN		-M50 CTPK220 DRAGONSKIN	
		XDKT		XDKT		XDKT		XDKT		XDKT		XDKT		XDKT		XDKT		XDKT	
ISO	RE mm	51 037 ...	EUR	51 037 ...	EUR	51 037 ...	EUR	51 037 ...	EUR	51 037 ...	EUR	51 037 ...	EUR	51 037 ...	EUR	51 037 ...	EUR	51 037 ...	EUR
11T304SR	0,4					004	13,28	104	13,28			404	13,28	504	13,28			608	13,28
11T308SR	0,8	258	13,28	058	13,28	008	13,28	108	13,28	208	13,28	408	13,28	508	13,28				
11T312SR	1,2					012	13,28					412	13,28						
11T320SR	2,0					020	13,28	120	13,28			420	13,28						
11T325SR	2,5					025	13,28	125	13,28										
11T332SR	3,2											432	13,28						
P		•		•		•		•		•		•		○				•	
M								○		•		•		•					
K						○		○								•		•	
N																			
S																			
H																			
O																			

1) Insert radius >1.6 mm: Modify cutter body

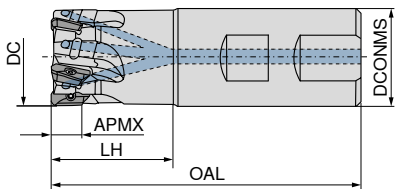


MaxiMill – End milling cutter C 211-15

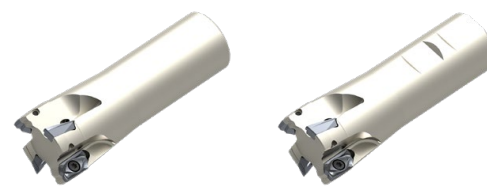
▲ Insert radius >2,5 mm: Modify cutter body



CERATIZIT \ Performance



ISO designation	DC mm	OAL mm	LH mm	DCONMS mm	APMX mm	RPMX 1/min.	Insert	ZNF
C211.25.R.02-15-B20-32	25	83	32	20	14	26560	XD.T 1505	2
C211.25.R.02-15-A-32	25	90	32	25	14	26560	XD.T 1505	2
C211.25.R.02-15-B-32	25	90	32	25	14	26560	XD.T 1505	2
C211.25.R.02-15-A-50-225	25	225	50	25	14	7520	XD.T 1505	2
C211.32.R.03-15-B25-40	32	96	40	25	14	22160	XD.T 1505	3
C211.32.R.03-15-A-40	32	103	40	32	14	24160	XD.T 1505	3
C211.32.R.03-15-B-40	32	103	40	32	14	24160	XD.T 1505	3
C211.32.R.03-15-A-63-250	32	250	63	32	14	6800	XD.T 1505	3
C211.40.R.04-15-A-50	40	110	50	32	14	22160	XD.T 1505	4
C211.40.R.04-15-B32-50	40	110	50	32	14	22160	XD.T 1505	4
C211.40.R.03-15-A-50-275	40	275	50	32	14	6120	XD.T 1505	3



The figure displays two screenshots of a mobile application interface, likely for a shopping or inventory management system. Both screenshots show a list of items with their respective prices in EUR.

Left Screenshot:

- Item 225: 41,00 EUR
- Item 325: 38,00 EUR
- Item 232: 46,00 EUR
- Item 332: 43,00 EUR
- Item 240: 50,00 EUR
- Item 340: 47,00 EUR

Right Screenshot:

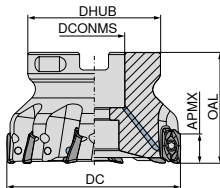
- Item 125: 41,00 EUR
- Item 025: 41,00 EUR
- Item 132: 46,00 EUR
- Item 032: 46,00 EUR
- Item 040: 50,00 EUR

MaxiMill – Shell mill A 211-15

▲ Insert radius >2,5 mm: Modify cutter body

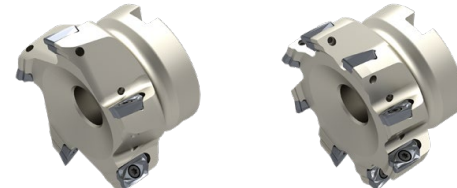


CERATIZIT \ Performance



ISO designation	DC mm	OAL mm	DCONMS _{HB} mm	DHUB mm	APMX mm	RPMX 1/min.	Insert	ZNF
A211.40.R.03-15	40	40	16	38	14	22160	XD.T 1505	3
A211.40.R.04-15	40	40	16	38	14	22160	XD.T 1505	4
A211.50.R.03-15	50	40	22	43	14	20320	XD.T 1505	3
A211.50.R.05-15	50	40	22	43	14	20320	XD.T 1505	5
A211.63.R.04-15	63	45	22	48	14	18640	XD.T 1505	4
A211.63.R.06-15	63	45	22	48	14	18640	XD.T 1505	6
A211.80.R.05-15	80	50	27	58	14	17040	XD.T 1505	5
A211.80.R.08-15	80	50	27	58	14	17040	XD.T 1505	8
A211.100.R.06-15	100	50	32	78	14	15680	XD.T 1505	6
A211.100.R.10-15	100	50	32	78	14	15680	XD.T 1505	10
A211.125.R.07-15	125	63	40	88	14	14320	XD.T 1505	7
A211.125.R.11-15	125	63	40	88	14	14320	XD.T 1505	11
A211.160.R.08-15	160	63	40	93	14	13200	XD.T 1505	8
A211.160.R.12-15	160	63	40	93	14	13200	XD.T 1505	12

1) Without Through Coolant



50 748 ...	EUR	50 749 ...	EUR
040	45,00	040	50,00
050	53,00	050	59,00
063	64,00	063	70,00
080	72,00	080	78,00
100	81,00	100	86,00
125	86,00	125	91,00
160 ¹⁾	120,00	160 ¹⁾	125,00

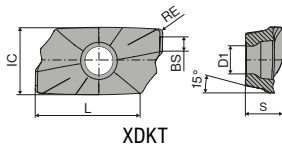
Spare parts

DC
40
50
63 - 160

Clamping key - T		Key D		Power Screw		Clamping screw	
							
Clamping key - T		Key D		Power Screw		Clamping screw	
80 397 ...		80 950 ...		70 950 ...		70 950 ...	
EUR		EUR		EUR		EUR	
3,63	040	11,03	128	11,79	151	3,01	839
3,93	050	11,03	128	16,20	154	3,01	839
		11,03	128			3,01	839

XDKT

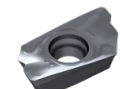
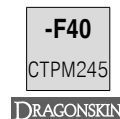
Designation	IC mm	D1 mm	L mm	BS mm	S mm
XDKT 150508..	9,3	4,4	14,8	1,6	5,56
XDKT 150532..	9,3	4,4	14,8	1,9	5,56
XDKT 150540..	9,3	4,4	14,8	1,2	5,56



XDKT

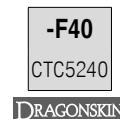
CERATIZIT \ Performance

ISO	RE mm
150508ER	0,8
150508FR	0,8
150532ER	3,2
150540ER	4,0



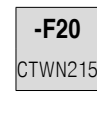
XDKT

		EUR
51 114 ...		
458		21,33
482	2)	21,33
490	2)	21,33



XDKT

50 473 ...		EUR
508		21,33
532	1)	21,33
540	1)	21,33



XDKT

50 479 ...	EUR
508	17,72

Country	Mean (approx.)
P	2.5
M	2.5
K	2.5
N	2.5
S	2.5
H	2.5
O	2.5

1) Insert radius >2.5 mm: Modify cutter body

2) Insert radius >1.6 mm: Modify cutter body



Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



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XDKT

CERATIZIT \ Performance

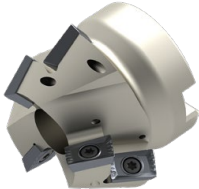
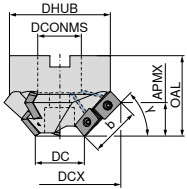
		-M50		-M50		-M50		-M50		-M50		-M50		-M50		-M50		-M50	
		CTCP220		CTPP225		CTCP230		CTPP235		CTPM225		CTCM235		CTPM240		CTCK215		CTPK220	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		XDKT		XDKT		XDKT		XDKT		XDKT		XDKT		XDKT		XDKT		XDKT	
ISO	RE mm	51 038 ...		51 038 ...		51 038 ...		51 038 ...		51 038 ...		51 038 ...		51 038 ...		51 038 ...		51 038 ...	
150508SR	0,8	258	EUR 17,72	058	EUR 17,72	008	EUR 17,72	108	EUR 17,72	208	EUR 17,72	308	EUR 17,72	408	EUR 17,72	508	EUR 17,72	608	EUR 17,72
150512SR	1,2					012	EUR 17,72	112	EUR 17,72				EUR 17,72	412	EUR 17,72				
150516SR	1,6					016	EUR 17,72	116	EUR 17,72				EUR 17,72	416	EUR 17,72				
150520SR	2,0							120	EUR 17,72										
150530SR	3,0					030	EUR 17,72	130	EUR 17,72				EUR 17,72	430	EUR 17,72				
150540SR	4,0					040	EUR 17,72	140	EUR 17,72				EUR 17,72	440	EUR 17,72				
P																			
M																			
K																			
N																			
S																			
H																			
O																			

MaxiMill – Chamfer Cutter A 242

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



CERATIZIT \ Performance



KAPR °	ZEFP	DCX ±0,3 mm	DC mm	b ±0,3 mm	OAL mm	APMX ±0,3 mm	DCONMS mm	DHUB mm	ZNP	Insert	ZNF	50 768 ...	
15	6	92,2	35	29,6	50	7,6	27	62,5	2	LD.. 1504..	3	015	EUR 58,00
30	6	86,3	35	29,6	50	14,8	27	62,5	2	LD.. 1504..	3	030	EUR 58,00
45	6	76,9	35	29,6	50	20,9	27	62,5	2	LD.. 1504..	3	045	EUR 58,00
60	6	64,6	35	29,6	50	25,6	22	62,5	2	LD.. 1504..	3	060	EUR 58,00
75	6	50,3	35	29,6	60	28,5	22	49,0	2	LD.. 1504..	3	075	EUR 58,00

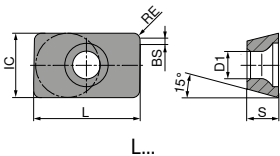
1) Version with Powerscrew

Spare parts

KAPR	EUR	80 397 ...	EUR	80 950 ...	EUR	70 950 ...	EUR	70 950 ...	EUR	83 950 ...
15 - 45			8,60	113			2,97	304	3,00	125
60 - 75	3,93	050	8,60	113	16,20	154	2,97	304		

LDFT / LDFW

Designation	IC mm	D1 mm	L mm	BS mm	S mm
LDF. 1504PD..	9,52	4,4	15	1,2	4,76
LDFT 1504PD..	9,52	4,4	15	0,8	4,76



LDFT / LDFW

CERATIZIT \ Performance

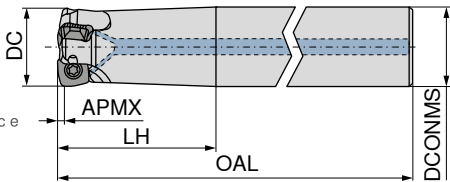
		-29		-29		-33			
		CTCP230		CTPP235		CTPM240		CTCK215	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		LDFT		LDFT		LDFT		LDFW	
ISO		51 079 ...		51 079 ...		51 042 ...		51 043 ...	
1504PDSR		020	EUR 18,08	120	EUR 18,08	420	EUR 17,26	520	EUR 15,09
P									
M									
K									
N									
S									
H									
O									



MaxiMill – End milling cutter C HFC



CERATIZIT \ Performance



A

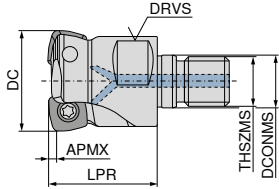
ISO designation	DC mm	OAL mm	LH mm	DCONMS _{H6} mm	APMX mm	RPMX 1/min.	Insert	ZNF
CHFC.25.R.02-09-A-50-225	25	225	50	25	1	9000	XDLX 09T3..	2
CHFC.25.R.03-09-A-50-225	25	225	50	25	1	9000	XDLX 09T3..	3
CHFC.32.R.03-09-A-63-250	32	250	63	32	1	8100	XDLX 09T3..	3
CHFC.32.R.02-12-A-63-250	32	250	63	32	2	6480	XOLX 1204..	2
CHFC.35.R.03-12-A-63-250	35	250	63	32	2	6480	XOLX 1204..	3

50 681 ...	EUR
025	43,00
125	46,00
032	48,00
132	45,00
035	48,00

MaxiMill – Screw in cutter G HFC



CERATIZIT \ Performance



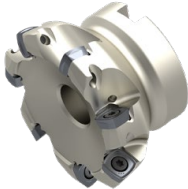
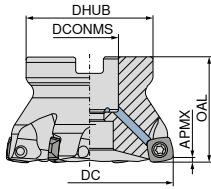
ISO designation	DC mm	LPR mm	DCONMS mm	THSZMS mm	DRVS mm	APMX mm	RPMX 1/min.	Insert	ZNF
GHFC.25.R.02-09	25	35	12,5	M12	17	1	30000	XDLX 09T3..	2
GHFC.25.R.03-09	25	35	12,5	M12	17	1	30000	XDLX 09T3..	3
GHFC.32.R.03-09	32	35	17,0	M16	24	1	27000	XDLX 09T3..	3
GHFC.32.R.02-12	32	35	17,0	M16	24	2	21600	XOLX 1204..	2
GHFC.35.R.03-12	35	35	17,0	M16	24	2	21360	XOLX 1204..	3

50 682 ...	EUR
025	43,00
125	46,00
032	48,00
132	45,00
035	48,00

MaxiMill – Shell mill A HFC



CERATIZIT \ Performance



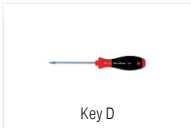
ISO designation	DC mm	OAL mm	DCONMS _{H6} mm	DHUB mm	APMX mm	RPMX 1/min.	Insert	ZNF
AHFC.32.R.03-09	32	40	16	38	1,0	27700	XDLX 09T3..	3
AHFC.35.R.04-09	35	40	16	38	1,0	26700	XDLX 09T3..	4
AHFC.40.R.04-09	40	40	16	38	1,0	26400	XDLX 09T3..	4
AHFC.42.R.05-09	42	40	16	38	1,0	26100	XDLX 09T3..	5
AHFC.50.R.05-09	50	40	22	43	1,0	23500	XDLX 09T3..	5
AHFC.52.R.06-09	52	40	22	43	1,0	23000	XDLX 09T3..	6
AHFC.63.R.06-09	63	40	22	48	1,0	20500	XDLX 09T3..	6
AHFC.40.R.03-12	40	40	16	38	2,0	21120	XOLX 1204..	3
AHFC.42.R.04-12	42	40	16	38	2,0	20880	XOLX 1204..	4
AHFC.50.R.04-12	50	40	22	43	2,0	18800	XOLX 1204..	4
AHFC.52.R.05-12	52	40	22	43	2,0	18400	XOLX 1204..	5
AHFC.63.R.05-12	63	40	22	48	2,0	16400	XOLX 1204..	5
AHFC.66.R.06-12	66	40	22	48	2,0	16000	XOLX 1204..	6
AHFC.80.R.07-12	80	50	27	58	2,0	14000	XOLX 1204..	7
AHFC.100.R.08-12	100	50	32	78	2,0	12000	XOLX 1204..	8
AHFC.63.R.05-19	63	40	22	48	3,3	5500	XOLX 1906..	5
AHFC.80.R.06-19	80	50	27	58	3,3	4700	XOLX 1906..	6
AHFC.100.R.08-19	100	52	32	78	3,3	4100	XOLX 1906..	8
AHFC.125.R.10-19	125	63	40	88	3,3	3600	XOLX 1906..	10
AHFC.160.R.11-19	160	63	40	98	3,3	3100	XOLX 1906..	11

50 683 ...	EUR
032	48,00
035	51,00
140	53,00
142	56,00
150	62,00
152	66,00
163	72,00
040	50,00
042	53,00
050	59,00
052	62,00
063	69,00
066	72,00
080	81,00
100	90,00
263	72,00
280	87,00
300	104,00
325	130,00
360	158,00

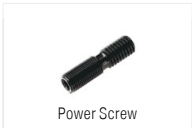
1) With threaded holes M12 on the front face, pitch circle diameter = 66.7 mm / Without Through Coolant

Spare parts

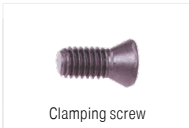
			EUR	80 950 ...		EUR	70 950 ...		EUR	70 950 ...
XDLX 09T3..	T15		8,60	113				M3,5x7,2	2,97	110
XDLX 09T3.. (Ø32 – Ø42)	T15		8,60	113	M8x30	11,79	151	M3,5x7,2	2,97	110
XOLX 1204..	T20		9,23	114				M4,5x10,5	2,34	280
XOLX 1204.. (Ø40 – Ø42)	T20		9,23	114	M8x30	11,79	151	M4,5x10,5	2,34	280
XOLX 1906..	T20		9,23	114				M5x14	3,86	302



Key D



Power Screw



Clamping screw



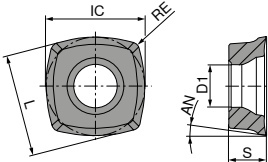
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XDLX / XOLX

Designation	IC mm	D1 mm	L mm	AN °	S mm
XDLX 09T308..	9,52	4,4	9	15	3,97
XOLX 120410..	12,70	5,5	12	10	4,76



XDLX

CERATIZIT \ Performance

-M50

CTCP220

DRAGONSKIN

XDLX

-M50

CTPP225

DRAGONSKIN

XDLX

-M50

CTCP230

DRAGONSKIN

XDLX

-M50

CTPP235

DRAGONSKIN

XDLX

ISO	RE mm	51 016 ...	EUR
09T308SR	0,8	258	12,02
P		•	
M		•	
K			○
N			○
S			
H			
O			

XDLX

CERATIZIT \ Performance

-F40

CTPM245

DRAGONSKIN

XDLX

-M50

CTPM225

DRAGONSKIN

XDLX

-M50

CTCM235

DRAGONSKIN

XDLX

-M50

CTPM240

DRAGONSKIN

XDLX

-M50

CTPM245

DRAGONSKIN

XDLX

-M50

CTCK215

DRAGONSKIN

XDLX

-F40

CTC5240

DRAGONSKIN

XDLX

ISO	RE mm	51 115 ...	EUR	51 016 ...	EUR	51 016 ...	EUR	51 016 ...	EUR	51 016 ...	EUR	50 503 ...	EUR
09T308ER	0,8	458	14,52	208	12,02	308	12,02	408	12,02	458	14,52	508	12,02
09T308SR	0,8											558	14,52
P		•		•		•		•		•		•	
M		•		•		•		•		•		•	
K		•		•		•		•		•		•	
N		•		•		•		•		•		•	
S		•		•		•		•		•		•	
H		•		•		•		•		•		•	
O		•		•		•		•		•		•	

XOLX

CERATIZIT \ Performance

-M50

CTCP220

DRAGONSKIN

XOLX

-M50

CTPP225

DRAGONSKIN

XOLX

-M50

CTCP230

DRAGONSKIN

XOLX

-M50

CTPP235

DRAGONSKIN

XOLX

-R50

CTPP235

DRAGONSKIN

XOLX

ISO	RE mm	51 017 ...	EUR	51 017 ...	EUR	51 017 ...	EUR	51 017 ...	EUR	51 018 ...	EUR
120410SR	1,0	260	14,42	060	14,42	010	14,42	110	14,42	110	14,42
P		•		•		•		•		•	
M		•		•		•		•		•	
K		•		•		•		•		•	
N		•		•		•		•		•	
S		•		•		•		•		•	
H		•		•		•		•		•	
O		•		•		•		•		•	

XOLX

CERATIZIT \ Performance

-F40

CTPM245

DRAGONSKIN

XOLX

-M50

CTPM225

DRAGONSKIN

XOLX

-M50

CTCM235

DRAGONSKIN

XOLX

-M50

CTPM240

DRAGONSKIN

XOLX

-M50

CTPM245

DRAGONSKIN

XOLX

-M50

CTCK215

DRAGONSKIN

XOLX

-F40

CTC5240

DRAGONSKIN

XOLX

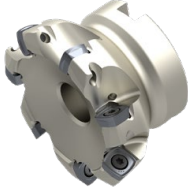
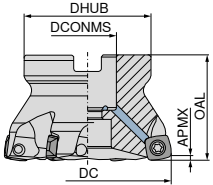
ISO	RE mm	51 022 ...	EUR	51 017 ...	EUR	51 017 ...	EUR	51 017 ...	EUR	51 017 ...	EUR	51 017 ...	EUR	50 504 ...	EUR
120410ER	1,0	460	16,97	210	14,42	310	14,42	410	14,42	460	16,97	510	14,42	558	16,97
120410SR	1,0														
P		•		•		•		•		•		•		•	
M		•		•		•		•		•		•		•	
K		•		•		•		•		•		•		•	
N		•		•		•		•		•		•		•	
S		•		•		•		•		•		•		•	
H		•		•		•		•		•		•		•	
O		•		•		•		•		•		•		•	



MaxiMill – Shell mill A HFC



CERATIZIT \ Performance



ISO designation	DC mm	OAL mm	DCONMS _{H6} mm	DHUB mm	APMX mm	RPMX 1/min.	Insert	ZNF
AHFC.32.R.03-09	32	40	16	38	1,0	27700	XDLX 09T3..	3
AHFC.35.R.04-09	35	40	16	38	1,0	26700	XDLX 09T3..	4
AHFC.40.R.04-09	40	40	16	38	1,0	26400	XDLX 09T3..	4
AHFC.42.R.05-09	42	40	16	38	1,0	26100	XDLX 09T3..	5
AHFC.50.R.05-09	50	40	22	43	1,0	23500	XDLX 09T3..	5
AHFC.52.R.06-09	52	40	22	43	1,0	23000	XDLX 09T3..	6
AHFC.63.R.06-09	63	40	22	48	1,0	20500	XDLX 09T3..	6
AHFC.40.R.03-12	40	40	16	38	2,0	21120	XOLX 1204..	3
AHFC.42.R.04-12	42	40	16	38	2,0	20880	XOLX 1204..	4
AHFC.50.R.04-12	50	40	22	43	2,0	18800	XOLX 1204..	4
AHFC.52.R.05-12	52	40	22	43	2,0	18400	XOLX 1204..	5
AHFC.63.R.05-12	63	40	22	48	2,0	16400	XOLX 1204..	5
AHFC.66.R.06-12	66	40	22	48	2,0	16000	XOLX 1204..	6
AHFC.80.R.07-12	80	50	27	58	2,0	14000	XOLX 1204..	7
AHFC.100.R.08-12	100	50	32	78	2,0	12000	XOLX 1204..	8
AHFC.63.R.05-19	63	40	22	48	3,3	5500	XOLX 1906..	5
AHFC.80.R.06-19	80	50	27	58	3,3	4700	XOLX 1906..	6
AHFC.100.R.08-19	100	52	32	78	3,3	4100	XOLX 1906..	8
AHFC.125.R.10-19	125	63	40	88	3,3	3600	XOLX 1906..	10
AHFC.160.R.11-19	160	63	40	98	3,3	3100	XOLX 1906..	11

50 683 ...	EUR
032	48,00
035	51,00
140	53,00
142	56,00
150	62,00
152	66,00
163	72,00
040	50,00
042	53,00
050	59,00
052	62,00
063	69,00
066	72,00
080	81,00
100	90,00
263	72,00
280	87,00
300	104,00
325	130,00
360	158,00

1) With threaded holes M12 on the front face, pitch circle diameter = 66.7 mm / Without Through Coolant

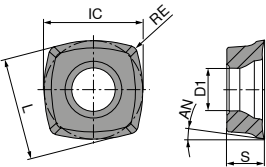
Spare parts
Insert

XOLX 1906..

TORX® blade	Key D	Clamping screw
EUR 80 950 ...	EUR 80 950 ...	EUR 70 950 ...
4,41 037	9,23 114	3,86 302

XOLX

Designation	IC mm	D1 mm	L mm	S mm	AN °
XOLX 1906..	19,14	6	19	6,35	10



XOLX

CERATIZIT \ Performance

ISO	RE mm	-F40 CTPM245 DRAGONSKIN XOLX	-F40 CTC5240 DRAGONSKIN XOLX
190615ER	1,5	51 022 ... 465	50 504 ... 515
		EUR 25,76	EUR 25,76
P		•	
M		•	
K			
N			
S			•
H			
O			

XOLX

CERATIZIT \ Performance

ISO	RE mm	-M50 CTCP230 DRAGONSKIN XOLX	-M50 CTPP235 DRAGONSKIN XOLX	-M50 CTPM240 DRAGONSKIN XOLX	-M50 CTCK215 DRAGONSKIN XOLX
190615SR	1,5	51 017 ... 015	51 017 ... 115	51 017 ... 415	51 017 ... 515
		EUR 20,95	EUR 20,95	EUR 20,95	EUR 20,95
P		•	•	○	
M			○	•	
K		○	○		•
N					
S					
H					
O					



Technical support: 1800 93 22 55
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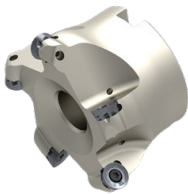
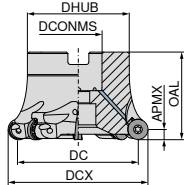


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MaxiMill – Shell mill A 251 RS



CERATIZIT \ Performance



ISO designation	DCX mm	DC mm	OAL mm	APMX mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	Insert	ZNF
A251.40.R.03-10-RS	40	30	40	5	38	16	15900	RP.X 10T3..	3
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.04-10-RS	50	40	40	5	43	22	12700	RP.X 10T3..	4
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.04-12-RS	50	38	40	6	43	22	12700	RP.X 1204..	4
A251.50.R.05-12-RS	50	38	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
A251.80.R.05-12-RS	80	68	50	6	58	27	7950	RP.X 1204..	5
A251.80.R.07-12-RS	80	68	50	6	58	27	8000	RP.X 1204..	7
A251.100.R.06-12-RS	100	88	50	6	78	32	6350	RP.X 1204..	6
A251.100.R.10-12-RS	100	88	50	6	78	32	6350	RP.X 1204..	10

50 686 ...	EUR
240	49,00
140	55,00
142	63,00
350	54,00
150	65,00
152	65,00
340	51,00
250	52,00
050	61,00
063	76,00
180	69,00
080	85,00
100	77,00
200	113,00

Spare parts

Insert		EUR	80 397 ...		EUR	80 950 ...		EUR	70 950 ...		EUR	70 950 ...
RP.X 10T3..	SW4	3,63	040	T10	8,47	112	M8x30	11,79	151	M3x7,3	2,43	840
RP.X 1204..	SW4	3,63	040	T15	8,60	113	M8x30	11,79	151	M3,5x8,6	2,97	304

Clamping key – T

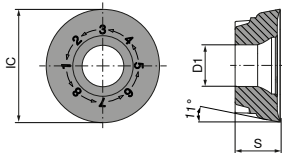
Key D

Power Screw

Clamping screw

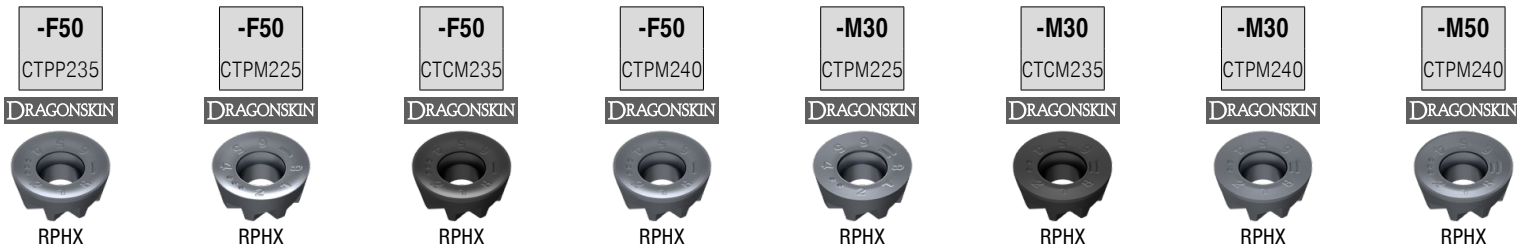
RPHX

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



RPHX

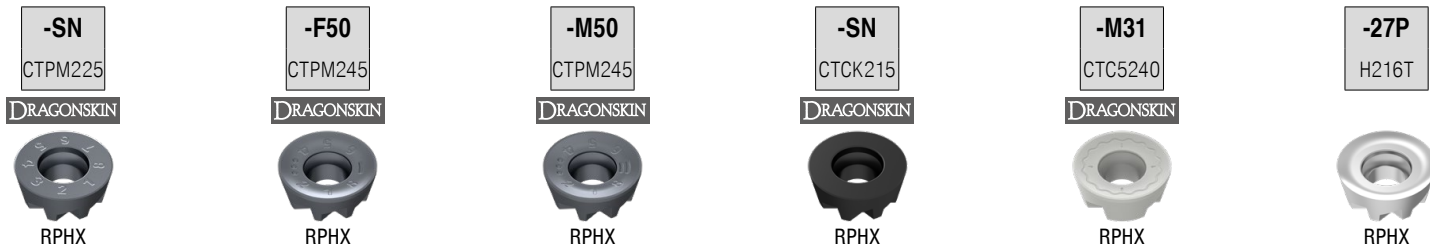
CERATIZIT \ Performance



ISO	51 051 ...	EUR	51 051 ...	EUR	51 051 ...	EUR	51 051 ...	EUR	51 049 ...	EUR	51 049 ...	EUR	51 049 ...	EUR	51 050 ...	EUR
1204M8EN	125	13,28	225	13,28	325	13,28	425	13,28	225	13,28	325	13,28	425	13,28	425	13,28
1204M8SN																
P	•		•		•		•		•		•		•		•	
M	○		•		•		•		•		•		•		•	
K	○		•		•		•		•		•		•		•	
N																
S																
H																
O																

RPHX

CERATIZIT \ Performance



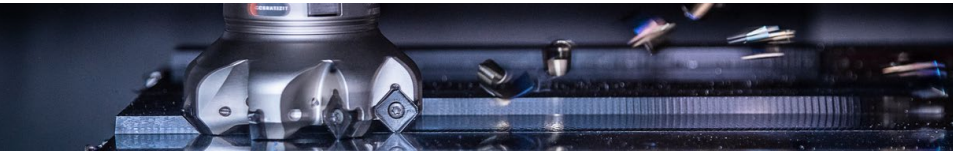
ISO	51 052 ...	EUR	51 051 ...	EUR	51 050 ...	EUR	51 052 ...	EUR	50 493 ...	EUR	50 483 ...	EUR
10T3M4SN			470 ¹⁾	15,30	470 ¹⁾	15,30			551	15,30		
10T3M8EN					471	15,30						
10T3M8SN					475 ¹⁾	16,86						
1204M4SN					476	16,86			582	16,86	602	15,35
1204M6SN												
1204M8EN												
1204M8FN												
1204M8SN	225	13,28	477	16,86	477	16,86	525	13,28				
P	•		•		•		•				○	
M	•		•		•		•					
K							•					
N											•	
S									•			
H												
O											○	

1) Insert with 4 indexes



New system size for more economy

Efficiency, process security and flexibility. That's what MaxiMill 271 stands for. The extremely soft-cutting tool system can be used in a wide range of applications thanks to the fine and standard pitch holders, while the wiper insert also helps achieve first-class finishes. Furthermore, the system stands out thanks to the cutter's excellent wear behaviour and also impresses with optimal chip formation and removal.



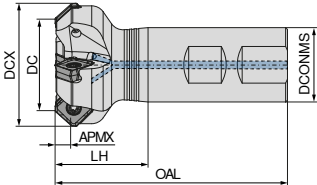
Find more Information in the UP2DATE catalogue (September 2019)

Cutting Data	98+99	Chip Breakers Overview	99
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MaxiMill – End milling cutter C 271-12



CERATIZIT \ Performance



ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	LH mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
C271.32.R.03-12-B-40	32	45	3	6,8	100	40	32	18400	3,2	SOHU 1204.. / XOHU 1204..
C271.40.R.04-12-B32-40	40	53	4	6,8	100	40	32	16800	3,2	SOHU 1204.. / XOHU 1204..

50 786 ...	EUR
03203	50,00
04004	63,00

Spare parts

DC

32 - 40

Clamping screw

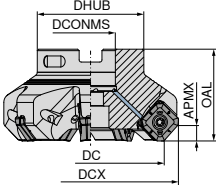
EUR	70 950 ...
2,97	859

MaxiMill – A 271-12 Face mill

▲ 8 cutting edges per insert



CERATIZIT \ 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..
A271.160.R.09-12	160	173	9	6,8	63	98	40	7600	3,2	SOHU 1204.. / XOHU 1204..
A271.160.R.14-12	160	173	14	6,8	63	98	40	7600	3,2	SOHU 1204.. / XOHU 1204..
A271.200.R.11-12	200	213	11	6,8	63	132	60	6700	3,2	SOHU 1204.. / XOHU 1204..
A271.200.R.17-12	200	213	17	6,8	63	132	60	6700	3,2	SOHU 1204.. / XOHU 1204..
A271.250.R.13-12	250	263	13	6,8	63	132	60	6000	3,2	SOHU 1204.. / XOHU 1204..
A271.250.R.21-12	250	263	21	6,8	63	132	60	6000	3,2	SOHU 1204.. / XOHU 1204..

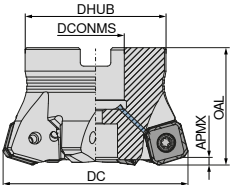
50 787 ...	EUR	50 787 ...	EUR
04004	63,00		
05005	65,00		
06307	82,00		
		08006	82,00
08008	94,00		
		10007	104,00
10010	118,00		
		12508	126,00
12512	145,00		
		16009 ¹⁾	146,00
16014 ¹⁾	170,00		
		20011 ¹⁾	184,00
20017 ¹⁾	207,00		
		25013 ¹⁾	221,00
25021 ¹⁾	260,00		

1) Without Through Coolant

MaxiMill – A 271-12 HFC Face mill



CERATIZIT \ Performance



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

50 788 ...	EUR
05004	65,00
06306	82,00
08007	94,00

Spare parts

40 (5078704004)
50 - 250
50 (5078805004)

Clamping key – T

Power Screw

Clamping screw

EUR	80 397 ...	EUR	70 950 ...	EUR	70 950 ...
3,63	040	11,79	151	2,97	859
				2,97	859
3,93	050	16,20	154	2,97	859



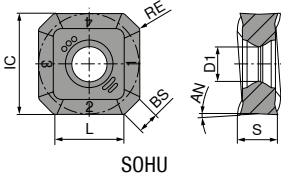
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SOHU

Designation	IC mm	D1 mm	L mm	BS mm	S mm	AN °
SOHU 1204..	13,36	4,4	8,8	1,7	5,00	7,4



SOHU

CERATIZIT \ Performance

ISO		RE mm	-M50 CTPM240 DRAGONSKIN SOHU		-M50 CTPP235 DRAGONSKIN SOHU		-M50 CTCM235 DRAGONSKIN SOHU		-M50 CTCP230 DRAGONSKIN SOHU	
1204ABSR		0,8	51 138 ... 42000	EUR 24,36	51 138 ... 12000	EUR 24,36	51 138 ... 32000	EUR 24,36	51 138 ... 02000	EUR 24,36
P			○	●	●	●	●	●	●	●
M			●	○	○	○	○	○	○	○
K				○						
N										
S										
H										
O										

SOHU

CERATIZIT \ Performance

ISO		RE mm	-F50 CTC5240 DRAGONSKIN SOHU		-R50 CTPK220 DRAGONSKIN SOHU		-R50 CTCK215 DRAGONSKIN SOHU		-F50 CTPM245 DRAGONSKIN SOHU	
1204ABSR		0,8	51 140 ... 17000	EUR 29,96	51 139 ... 62000	EUR 24,36	51 139 ... 52000	EUR 24,36	51 140 ... 47000	EUR 29,96
P									●	●
M									●	●
K					●	●	●	●		
N										
S			●							
H										
O										

CERATIZIT Group

With passion and pioneering spirit for carbide

CERATIZIT has been a pioneer in the field of demanding carbide solutions for machining and wear protection for more than 95 years, controlling the entire value chain from powder to the finished end product.

With exclusive access to the highest quality carbide raw materials, CERATIZIT offers more than 130 carbide grades and as a full-range supplier manufactures highly specialized cutting tools, indexable inserts, rods made of hard materials and wear parts.

The goal remains the same: CERATIZIT provides competitive advantages – through new technological standards, innovative materials and coatings as well as unique carbide products.

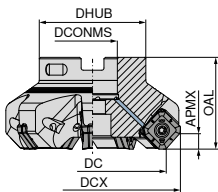


MaxiMill – A 271 Face mill

▲ 8 cutting edges per insert



CERATIZIT \ Performance



ISO designation	DC mm	OAL mm	APMX mm	DCX mm	DCONMS mm	DHUB mm	Insert	ZNF
A271.50.R.04-17	50	40	8,4	66,1	22	43	SAKU 1706	4
A271.63.R.06-17	63	40	8,4	79,1	22	48	SAKU 1706	6
A271.80.R.07-17	80	50	8,4	96,1	27	58	SAKU 1706	7
A271.100.R.08-17	100	50	6,8	116,1	32	78	SAKU 1706	8
A271.125.R.10-17	125	63	8,4	141,1	40	88	SAKU 1706	10

50 767 ...	EUR
050	61,00
063	86,00
080	99,00
100	114,00
125	131,00

Spare parts

DC

50 - 125

TORX® blade

EUR4,41

80 950 ...

037

Key D

EUR9,23

80 950 ...

114

Clamping screw

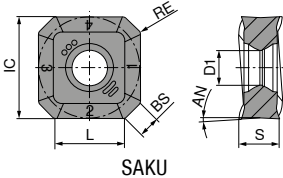
EUR3,86

70 950 ...

302

SAKU

Designation	IC mm	D1 mm	L mm	BS mm	S mm	AN °
SAKU 1706..	17	5,8	11,85	3,7	6,35	3



SAKU

CERATIZIT \ Performance

-F50

CTCP220

DRAGONSKIN

SAKU

51 004 ...	EUR
270	27,53

-F50

CTPP225

DRAGONSKIN

SAKU

51 004 ...	EUR
070	27,53

-F50

CTCP230

DRAGONSKIN

SAKU

51 004 ...	EUR
020	27,53

-F50

CTPP235

DRAGONSKIN

SAKU

51 004 ...	EUR
120	27,53

ISO	RE mm
1706ABSR	0,8
P	●
M	○
K	○
N	○
S	
H	
O	

More inserts can be found on → **Page 86.**



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SAKU

CERATIZIT \ Performance

		-F50		-F50		-F50		-F50		-F50	
		CTPM225		CTCM235		CTPM240		CTPM245		CTC5240	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		SAKU		SAKU		SAKU		SAKU		SAKU	
ISO	RE mm	51 004 ...		51 004 ...		51 004 ...		51 004 ...		50 306 ...	
1706ABSR	0,8	220		320		420		470		520	
		EUR		EUR		EUR		EUR		EUR	
		27,53		27,53		27,53		33,87		33,87	
P		•		•		○		•			
M		•		•		•		•			
K											
N											
S										•	
H											
O											

SAKU

CERATIZIT \ Performance

		-M50		-M50		-M50		-M50	
		CTCP220		CTPP225		CTCP230		CTPP235	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		SAKU		SAKU		SAKU		SAKU	
ISO	RE mm	51 005 ...		51 005 ...		51 005 ...		51 005 ...	
1706ABSR	0,8	270		070		020		120	
		EUR		EUR		EUR		EUR	
		27,53		27,53		27,53		27,53	
P		•		•		•		•	
M								○	
K						○		○	
N									
S									
H									
O									

SAKU

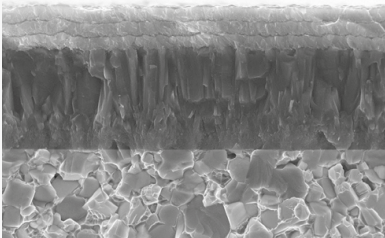
CERATIZIT \ Performance

		-M50		-M50		-M50		-M50		-R50		-R50	
		CTPM225		CTCM235		CTPM240		CTCK215		CTPK220		CTCK215	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		SAKU		SAKU		SAKU		SAKU		SAKU		SAKU	
ISO	RE mm	51 005 ...		51 005 ...		51 005 ...		51 005 ...		51 058 ...		51 058 ...	
1706ABSR	0,8	220		320		420		520		620		520	
		EUR		EUR		EUR		EUR		EUR		EUR	
		27,53		27,53		27,53		27,53		27,53		27,53	
P		•		•		○							
M		•		•		•							
K		•		•		•		•		•		•	
N													
S													
H													
O													



The coatings for the highest performance

The product category Dragonskin is intended to help make tools easily recognizable and quick to find using CERATIZIT's high-performance coating technology. All products that are marked with the Dragonskin icon represent unmatched performance, maximum tool life and maximum process reliability.



Dragonskin Coating



ER Precision Collet chuck – PCC

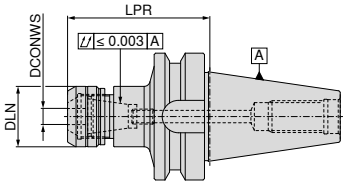
- ▲ For standard or sealing disc lock nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ p_{max} = 100 bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with lock nut and backstop screw

PCC

WNT \ Standard





NEW



AD/B

G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	82 700 ...	EUR
BT 40	1 - 10	70	30	426E (ER16)	40 / 2-70	11069	83,00
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	21069	118,00
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	11669	83,00
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	21669	118,00
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	12069	83,00
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	22069	118,00
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	11668	155,00
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	21668	193,00
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	12068	155,00
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	22068	193,00

 Dimension LPR is 4.5 mm longer for ER16 and ER32 and 5.0 mm longer for ER25 when using thro' coolant lock nut

ER Precision Collet chuck – PCC

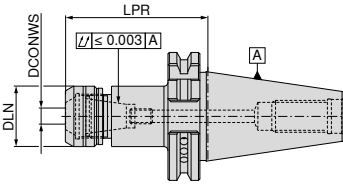
- ▲ For standard or sealing disc lock nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ p_{max} = 100 bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with lock nut and backstop screw

PCC

WNT \ Standard





NEW



AD/B

G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	82 700 ...	EUR
SK 40	1 - 10	70	30	426E (ER16)	40 / 2-70	11079	83,00
SK 40	1 - 10	100	30	426E (ER16)	40 / 2-70	21079	118,00
SK 40	2 - 16	70	40	430E (ER25)	80 / 10-160	11679	83,00
SK 40	2 - 16	100	40	430E (ER25)	80 / 10-160	21679	118,00
SK 40	2 - 20	70	50	470E (ER32)	125 / 15-250	12079	83,00
SK 40	2 - 20	100	50	470E (ER32)	125 / 15-250	22079	118,00
SK 50	2 - 16	70	40	430E (ER25)	80 / 10-160	11678	155,00
SK 50	2 - 16	100	40	430E (ER25)	80 / 10-160	21678	193,00
SK 50	2 - 20	70	50	470E (ER32)	125 / 15-250	12078	155,00
SK 50	2 - 20	100	50	470E (ER32)	125 / 15-250	22078	193,00

 Dimension LPR is 4.5 mm longer for ER16 and ER32 and 5.0 mm longer for ER25 when using thro' coolant lock nut

ER Precision Collet chuck – PCC

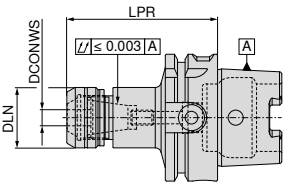
- ▲ For standard or sealing disc lock nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ p_{max} = 100 bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with lock nut and backstop screw

PCC

WNT \ Standard





NEW



AD

G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	82 700 ...	EUR
HSK-A 63	1 - 10	75	30	426E (ER16)	40 / 2-70	11057	108,00
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70	21057	113,00
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160	11657	108,00
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160	21657	113,00
HSK-A 63	2 - 20	75	50	470E (ER32)	125 / 15-250	12057	108,00
HSK-A 63	2 - 20	100	50	470E (ER32)	125 / 15-250	22057	113,00
HSK-A 100	2 - 16	100	40	430E (ER25)	80 / 10-160	21655	187,00
HSK-A 100	2 - 16	160	40	430E (ER25)	80 / 10-160	41655	251,00
HSK-A 100	2 - 20	100	50	470E (ER32)	125 / 15-250	22055	187,00
HSK-A 100	2 - 20	160	50	470E (ER32)	125 / 15-250	42055	251,00

 Dimension LPR is 4.5 mm longer for ER16 and ER32 and 5.0 mm longer for ER25 when using thro' coolant lock nut

Collet Set

Scope of supply

84 581 030 DCONWS 3,0	84 581 120 DCONWS 12,0
84 581 040 DCONWS 4,	84 581 130 DCONWS 13,0
84 581 050 DCONWS 5,0	84 581 140 DCONWS 14,0
84 581 060 DCONWS 6,0	84 581 150 DCONWS 15,0
84 581 070 DCONWS 7,0	84 581 160 DCONWS 16,0
84 581 080 DCONWS 8,0	84 581 170 DCONWS 17,0
84 581 090 DCONWS 9,0	84 581 180 DCONWS 18,0
84 581 100 DCONWS 10,0	84 581 190 DCONWS 19,0
84 581 110 DCONWS 11,0	84 581 200 DCONWS 20,0

Set	BD mm	OAL mm	84 581 ...	EUR
470 E / ER32	33	40	999	380,00



Collet Set

Scope of supply

84 578 010 DCONWS 1,0	
84 578 020 DCONWS 2,0	
84 578 030 DCONWS 3,0	
84 578 040 DCONWS 4,0	
84 578 050 DCONWS 5,0	
84 578 060 DCONWS 6,0	
84 578 070 DCONWS 7,0	
84 578 080 DCONWS 8,0	
84 578 090 DCONWS 9,0	
84 578 100 DCONWS 10,0	

Set	BD mm	OAL mm	84 578 ...	EUR
426 E / ER16	17	27,5	999	185,00



Collet Set

Scope of supply

84 580 020 DCONWS 2,0	84 580 090 DCONWS 9,0
84 580 025 DCONWS 2,5	84 580 100 DCONWS 10,0
84 580 030 DCONWS 3,0	84 580 110 DCONWS 11,0
84 580 040 DCONWS 4,0	84 580 120 DCONWS 12,0
84 580 050 DCONWS 5,0	84 580 130 DCONWS 13,0
84 580 060 DCONWS 6,0	84 580 140 DCONWS 14,0
84 580 070 DCONWS 7,0	84 580 150 DCONWS 15,0
84 580 080 DCONWS 8,0	84 580 160 DCONWS 16,0

Set	BD mm	OAL mm	84 580 ...	EUR
430 E / ER25	26	34	999	295,00



Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday



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

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



WNT \ 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 ...	EUR
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	210	68,00
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	310	79,00
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	410	109,00
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	510	117,00
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	116	77,00
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	216	68,00
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	316	79,00
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	416	117,00
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	516	125,00
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	616	145,00
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	120	77,00
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	220	68,00
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	320	79,00
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	420	117,00
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	520	125,00

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

ER Precision Collet chuck – Centro-P

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

Scope of supply:

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



WNT \ 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 ...	EUR
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)	510	110,00
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)	910	122,00
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)	816	100,00
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)	516	120,00
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)	916	127,00
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)	620	120,00
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)	920	127,00
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)	520	206,00
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)	720	295,20

Your local Technical Sales Engineer carries a Demo Kit in his car - ASK FOR A DEMO

Roll key

- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts

WNT \ Performance

for lock nut

DLN mm	84 950 ...	EUR
30	027	53,00
40	054	62,00
50	056	59,00

for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...	EUR
426E (ER16)	1 - 10	30	80	001	26,00
430E (ER25)	2 - 16	40	90	003	29,00
470E (ER32)	2 - 20	50	180	005	32,00

ER precision collet for precision collet chucks – Centro-P

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

ER-B 2 µm WNT \ Performance

BD
DCONWS
OAL

DCONWS mm	BD = 17 OAL = 27,5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32
1,0	010 44,00		
1,1	011 77,00		
1,2	012 77,00		
1,4	014 77,00		
1,5	015 44,00		
1,6	016 77,00		
1,8	018 77,00		
2,0	020 37,00	020 38,00	020 39,00
2,2	022 69,00		
2,4	024 69,00		
2,5	025 37,00	025 38,00	
2,6	026 69,00		
2,8	028 69,00		
3,0	030 31,00	030 32,00	030 32,00
3,2	032 61,00		
3,4	034 54,00		
3,5	035 40,00	035 41,00	
3,6	036 61,00		
3,8	038 61,00		
4,0	040 31,00	040 32,00	040 32,00
4,5	045 40,00	045 41,00	
5,0	050 31,00	050 32,00	050 32,00
5,5	055 40,00	055 41,00	
5,6	056 61,00		
6,0	060 31,00	060 32,00	060 32,00
6,3	063 61,00		
6,5	065 40,00	065 41,00	

DCONWS mm	BD = 17 OAL = 27,5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32
7,0	070 31,00	070 32,00	070 32,00
7,1	071 61,00		
7,5	075 40,00	075 41,00	
8,0	080 31,00	080 32,00	080 32,00
8,5	085 40,00	085 41,00	
9,0	090 31,00	090 32,00	090 32,00
9,5	095 40,00	095 41,00	
10,0	100 31,00	100 32,00	100 32,00
10,5		105 41,00	
11,0		110 32,00	110 32,00
11,5		115 41,00	
12,0		120 32,00	120 32,00
12,5		125 41,00	
13,0		130 32,00	130 32,00
13,5		135 41,00	
14,0		140 32,00	140 32,00
14,5		145 41,00	
15,0		150 32,00	150 32,00
15,5		155 41,00	
16,0		160 32,00	160 32,00
17,0			170 32,00
18,0			180 32,00
19,0			190 32,00
20,0			200 32,00

Clamping range covered: H10 corresponding to shank Ø DCONWS



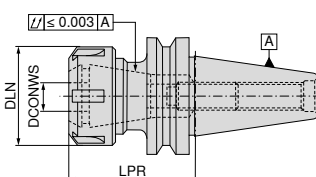
ER-Collet chuck

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

Scope of supply:

Holder with lock nut and adjustable back stop

WNT \ Standard



AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	BT 40	1 - 10	60	32	56	426E (ER16)	82 509 ...	EUR
	BT 40	1 - 16	70	42	104	430E (ER25)	110	40,00
	BT 40	2 - 20	70	50	136	470E (ER32)	116	43,00
	BT 40	3 - 26	70	63	176	472E (ER40)	120	43,00
long	BT 40	1 - 10	120	32	56	426E (ER16)	126	45,00
	BT 40	1 - 16	120	42	104	430E (ER25)	410	46,00
	BT 40	2 - 20	120	50	136	470E (ER32)	416	46,00
							420	46,00

Shell mill adapter

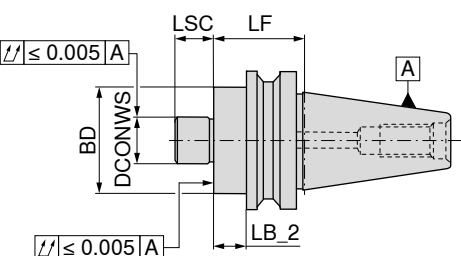
▲ With fixed drive dogs and enlarged contact face for milling cutters with transverse groove

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

Scope of supply:

Toolholder with retaining screw

WNT \ Standard



AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
short	BT 40	16	25	52	38	17	82 514 ...	EUR
	BT 40	22	25	52	48	19	116	53,00
	BT 40	27	25	52	58	21	122	58,00
	BT 40	32	23	50	78	24	127	58,00
	BT 40	40	23	50	88	27	132	61,00
							140	67,00

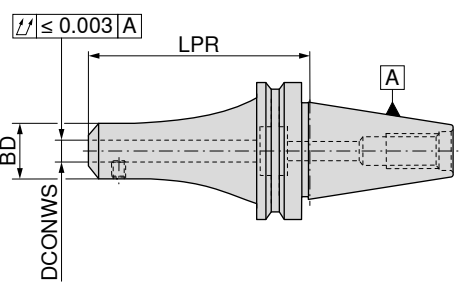
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Cylindrical shank adapter (Weldon)

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

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

WNT \ Standard



AD/B
G 2,5 n_{max} 18000



AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
short	BT 40	6	50	25	82 501 ...	EUR
	BT 40	8	50	28	106	40,00
	BT 40	10	63	35	108	40,00
	BT 40	12	63	42	110	39,77
	BT 40	14	63	44	112	39,77
	BT 40	16	63	48	114	39,77
	BT 40	18	63	50	116	40,00
	BT 40	20	63	52	118	40,00
	BT 40	25	100	65	120	40,00
	BT 40	32	100	72	125	40,00
long	BT 40	6	100	25	132	46,00
	BT 40	8	100	28	506	43,92
	BT 40	10	100	35	508	43,92
	BT 40	12	100	42	510	41,47
	BT 40	14	100	44	512	41,47
	BT 40	16	100	48	514	41,19
	BT 40	18	100	50	516	45,54
	BT 40	20	100	52	518	44,00
extra-long	BT 40	6	160	25	520	45,54
	BT 40	8	160	28	606	46,00
	BT 40	10	160	35	608	46,00
	BT 40	12	160	42	610	46,00
	BT 40	14	160	44	612	46,00
	BT 40	16	160	48	614	46,00
	BT 40	18	160	50	616	46,00
	BT 40	20	160	52	618	46,00
	BT 40	25	160	65	620	46,00
					625	46,00

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



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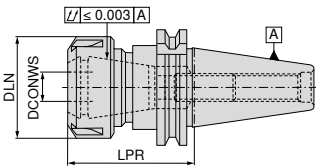
ER Collet chuck

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

Scope of supply:

Holder with lock nut and adjustable back stop

WNT \ Standard



AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	SK 40	1 - 10	60	32	56	426E (ER16)	82 415 ...	EUR
	SK 40	1 - 16	70	42	104	430E (ER25)	110	40,00
	SK 40	2 - 20	70	50	136	470E (ER32)	116	43,00
	SK 40	3 - 26	70	63	176	472E (ER40)	120	43,00
long	SK 40	1 - 10	120	32	56	426E (ER16)	126	45,00
	SK 40	1 - 16	120	42	104	430E (ER25)	410	46,00
	SK 40	2 - 20	120	50	136	470E (ER32)	416	46,00
							420	46,00

Shell mill adapter

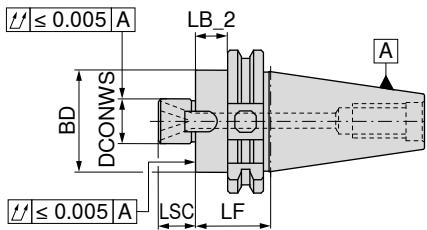
▲ Screwed drive dogs

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

Scope of supply:

Toolholder with retaining screw

WNT \ Standard



AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
short	SK 40	16	25	44	38	17	82 428 ...	EUR
	SK 40	22	25	44	48	19	116	53,00
	SK 40	27	36	55	58	21	122	58,00
	SK 40	32	31	50	78	24	127	58,00
	SK 40	40	31	50	88	27	132	61,00
							140	67,00

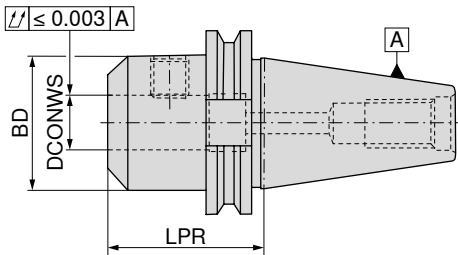
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Cylindrical shank adapter (Weldon)

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

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

WNT \ Standard



AD/B
G 2,5 n_{max} 18000



AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
short	SK 40	6	50	25	82 401 ...	EUR
	SK 40	8	50	28	106	40,00
	SK 40	10	50	35	108	40,00
	SK 40	12	50	42	110	39,77
	SK 40	14	50	44	112	39,77
	SK 40	16	63	48	114	39,77
	SK 40	18	63	50	116	40,00
	SK 40	20	63	52	118	40,00
	SK 40	25	100	65	120	40,00
	SK 40	32	100	72	125	40,00
long	SK 40	6	100	25	132	46,00
	SK 40	8	100	28	506	43,92
	SK 40	10	100	35	508	43,92
	SK 40	12	100	42	510	41,47
	SK 40	14	100	44	512	41,47
	SK 40	16	100	48	514	41,19
	SK 40	18	100	50	516	45,54
	SK 40	20	100	52	518	44,00
extra-long	SK 40	6	160	25	520	45,54
	SK 40	8	160	28	606	46,00
	SK 40	10	160	35	608	46,00
	SK 40	12	160	42	610	46,00
	SK 40	14	160	44	612	46,00
	SK 40	16	160	48	614	46,00
	SK 40	18	160	50	616	46,00
	SK 40	20	160	52	618	46,00
	SK 40	25	160	65	620	46,00
					625	46,00

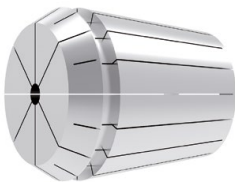
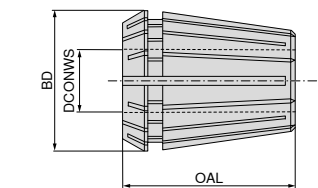
Spare parts can be found in → **Chapter 16 Adapters and accessoires in the clamping technology catalogue.**



ER precision collet

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

ER-B
20 µm WNT \ Standard



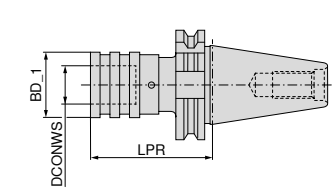
DCONWS mm	BD = 17 OAL = 27,5 426 E / ER16		BD = 21 OAL = 31,5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	82 673 ...	EUR	82 674 ...	EUR	82 675 ...	EUR	82 676 ...	EUR	82 677 ...	EUR
1	01000	13,00	01000 ¹⁾	12,00						
2	02000	13,00	02000	12,00	02000	13,00			03000	12,00
3	03000	10,00	03000	8,00	03000	8,00	03000	9,00	04000	12,00
4	04000	10,00	04000	8,00	04000	8,00	04000	9,00	05000	12,00
5	05000	10,00	05000	8,00	05000	8,00	05000	9,00	06000	12,00
6	06000	10,00	06000	8,00	06000	8,00	06000	9,00	07000	12,00
7	07000	10,00	07000	8,00	07000	8,00	07000	9,00	08000	12,00
8	08000	10,00	08000	8,00	08000	8,00	08000	9,00	09000	12,00
9	09000	10,00	09000	8,00	09000	8,00	09000	9,00	10000	12,00
10	10000	10,00	10000	8,00	10000	8,00	10000	9,00	11000	12,00
11			11000	8,00	11000	8,00	11000	9,00	12000	12,00
12			12000	8,00	12000	8,00	12000	9,00	13000	12,00
13			13000	8,00	13000	8,00	13000	9,00	14000	12,00
14					14000	8,00	14000	9,00	15000	12,00
15					15000	8,00	15000	9,00	16000	12,00
16					16000	8,00	16000	9,00	17000	12,00
17							17000	9,00	18000	12,00
18							18000	9,00	19000	12,00
19							19000	9,00	20000	12,00
20							20000	9,00	21000	12,00
21									22000	12,00
22									23000	12,00
23									24000	12,00
24									25000	12,00
25									26000	12,00
26									99900	270,00
Set in a wooden box		99900	144,80	99900	140,00	99900	160,00	99900	170,00	

1) not included in the set

Quick change tap chuck with length compensation

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

WNT \ Standard

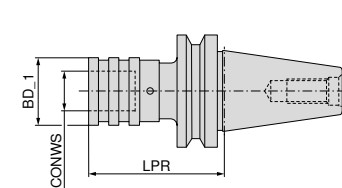


Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 428 ...	EUR
SK 30	M6 - M20	02	101	55	31	15	320	253,00
SK 30	M3 - M12	01	60	38	19	9	312	223,00
SK 40	M6 - M20	02	100	55	31	15	420	186,00
SK 40	M3 - M12	01	60	38	19	9	412	173,00
SK 50	M6 - M20	02	83	55	31	15	520	278,00
SK 50	M3 - M12	01	62	38	19	9	512	256,00

Quick change tap chuck with length compensation

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

WNT \ Standard



Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 528 ...	EUR
BT 30	M3 - M12	01	63	38	19	9	312	224,00
BT 30	M6 - M20	02	96	55	31	15	320	281,00
BT 40	M3 - M12	01	68	38	19	9	412	179,00
BT 40	M6 - M20	02	93	55	31	15	420	186,00
BT 50	M3 - M12	01	80	38	19	9	512	301,00
BT 50	M6 - M20	02	102	55	31	15	520	346,00



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TEAM CUTTING TOOLS

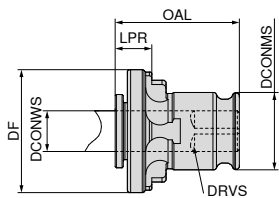
CUTTING TOOLS BY CERATIZIT KOMET WNT KLENK



Quick change tap adapter

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

WNT \ Standard



A

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR
	mm	mm			mm	mm	mm	mm
01	3,5	2,7	M3		30	19	28,5	7
01	4,5	3,4	M4		30	19	28,5	7
01	4,0	3,0	M3,5		30	19	28,5	7
01	2,8	2,1	M2 - M2,6		30	19	28,5	7
01	5,5	4,3		M7	30	19	28,5	7
01	6,0	4,9	M4,5 - M6	M8	30	19	28,5	7
01	7,0	5,5	M7	M10	30	19	28,5	7
01	8,0	6,2	M8	M11	30	19	28,5	7
01	9,0	7,0	M9	M12	30	19	28,5	7
01	10,0	8,0	M10		30	19	28,5	7
01	11,0	9,0		M14	30	19	28,5	7
02	6,0	4,9	M4,5 - M6		46	31	46,0	11
02	7,0	5,5	M7		46	31	46,0	11
02	8,0	6,2	M8		46	31	46,0	11
02	9,0	7,0	M9		46	31	46,0	11
02	10,0	8,0	M10		46	31	46,0	11
02	11,0	9,0		M14	46	31	46,0	11
02	12,0	9,0		M16	46	31	46,0	11
02	14,0	11,0		M18	46	31	46,0	11
02	16,0	12,0		M20	46	31	46,0	11
02	18,0	14,5		M22 - M24	46	31	46,0	11

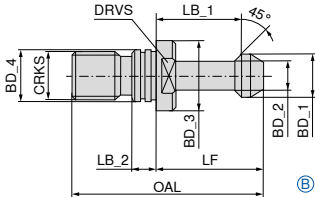
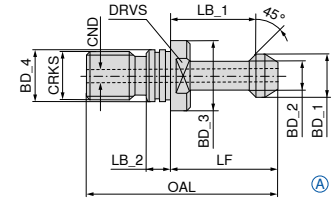
83 610 ...	EUR
100	18,00
101	18,00
102	18,00
103	18,00
104	18,00
105	18,00
106	18,00
107	18,00
108	18,00
109	18,00
110	18,00
200	25,00
201	25,00
202	25,00
203	25,00
204	25,00
205	25,00
206	25,00
207	25,00
208	25,00
209	25,00

Pull stud for tool holders according to ISO 7388-2

- ▲ MAS-BT 45° Form A and B

Scope of supply:
including O-Ring

WNT \ Standard



Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	form
	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	2,2	13	60	A
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	60	B
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	90	A
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	90	B
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	145	A
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	145	B

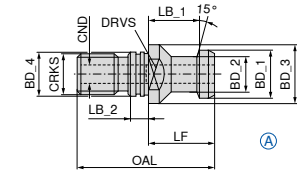
82 530 ...	EUR	82 534 ...	EUR
030	8,00	030	8,00
040	6,09	040	7,84
050	9,81	050	10,00

Pull studs for tool holders according to ISO 7388-1

- ▲ DIN 69872 form A and B
- ▲ For tools with or without axial coolant supply

Scope of supply:
including O-Ring

WNT \ Standard



Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	form
	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	60	A
SK 40	19	14	23	17	M16	54	26	20	7	7,0	19	90	A
SK 50	28	21	36	25	M24	74	34	25	10	11,5	30	145	A

82 468 ...	EUR
030	7,00
040	5,31
050	8,00



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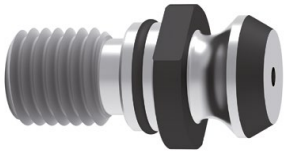
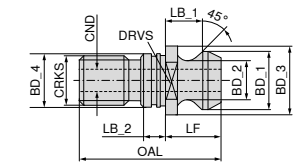
Pull studs for tool holders according to ISO 7388-1

▲ Similar to ISO / DIS 7388 (ANSI-CAT only for SK 40) Form A

Scope of supply:

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

WNT \ Standard



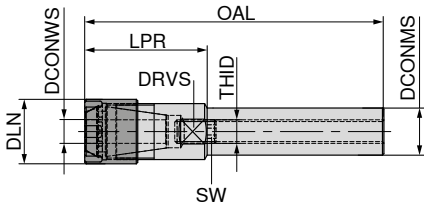
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
SK 40	18,79	12,44	22,5	17	M16	41,26	16,25	11,17	4,0	6,0	19	90
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	145

82 487 ...	EUR
040	5,62
050	8,08

ER collet chuck with mini clamping nut

▲ with cylindrical shank

WNT \ 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)

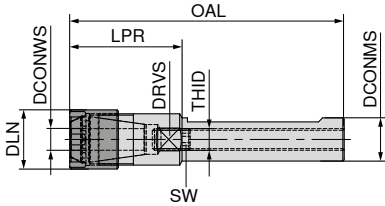
83 453 ...	EUR
081	60,00
122	110,40
163	118,40
164	83,51
165	118,40
204	89,00
254	102,00
256	130,00

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat

WNT \ Standard



AD

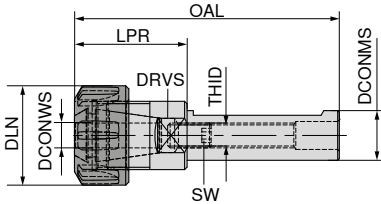
DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
20	1 - 10	168	28	22	M11x1	17	426E (ER16)
20	1 - 13	138	38	28	M11x1	22	428E (ER20)
20	1 - 16	146	46	35	M14x1	27	430E (ER25)
25	1 - 13	168	28	28	M14x1	22	428E (ER20)
25	1 - 16	189	39	35	M18x1	27	430E (ER25)

83 454 ...	EUR
204	89,00
206	64,00
208	75,00
254	102,00
256	130,00

ER Collet Chuck

▲ with cylindrical shank and clamping flat

WNT \ 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)

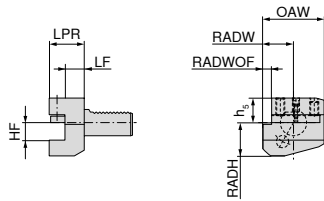
83 455 ...	EUR
401	76,00
402	93,00
405	87,00

Note: Spanner to be ordered separately.



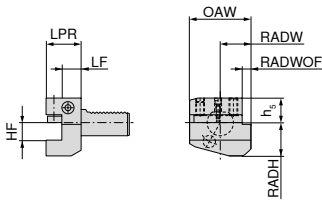
Radial tool holders, short

WNT \ Performance



B2

DCONMS	h ₆	HF	OAW	RADW	RADWOF	h ₅	RADH	LF	LPR
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
16	12	42	23,0	5,0	20,0	22	13,0	24	
20	16	55	30,0	7,0	25,0	30	16,0	30	
20	16	55	30,0	7,0	25,0	30	26,0	40	
30	20	70	35,0	10,0	28,0	38	18,5	40	
30	20	70	35,0	10,0	28,0	38	42,0	60	
40	25	85	42,5	12,5	32,5	48	18,5	44	
50	32	100	50,0	16,0	35,0	60	30,0	55	



B1



B2

Left-hand

82 189 ...	EUR
200	72,00
201	95,00
300	79,00
301	124,00
400	79,00
500	124,00



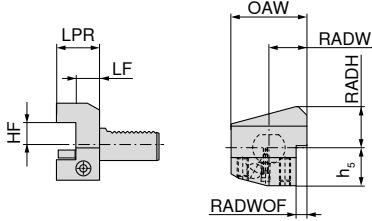
B1

Right-hand

82 185 ...	EUR
160	85,00
200	78,00
201	90,00
300	71,00
301	118,00
400	72,00
500	122,00

Radial tool holders, overhead, short

WNT \ Performance



B3



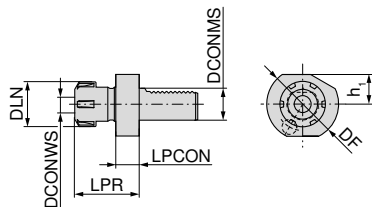
Right-hand

DCONMS	h ₆	HF	OAW	RADW	RADWOF	h ₅	RADH	LF	LPR
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
16	12	42	23,0	5,0	20,0	22	13,0	24	
20	16	55	30,0	7,0	25,0	30	16,0	30	
20	16	55	30,0	7,0	25,0	30	26,0	40	
25	16	55	30,0	7,0	25,0	30	16,0	30	
30	20	70	35,0	10,0	35,0	38	18,5	40	
30	20	70	35,0	10,0	35,0	38	42,0	60	
40	25	85	42,5	12,5	42,5	48	18,5	44	
50	32	100	50,0	16,0	50,0	60	30,0	55	

82 193 ...	EUR
160	90,00
200	78,00
201	113,00
250	125,00
300	74,00
301	124,00
400	78,00
500	124,00

ER Collet chucks

WNT \ Performance



E4

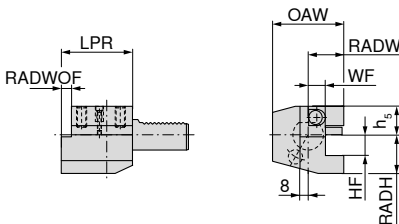


DCONMS	h ₆	DCONWS	DF	DLN	h ₁	LPR	LPCON	for collet
mm	mm	mm	mm	mm	mm	mm	mm	
16	1 - 10	40	28	18,0	45,5	14	426E (ER16)	
16	1 - 13	40	34	18,0	44,0	14	428E (ER20)	
20	1 - 16	50	42	23,0	57,0	18	430E (ER25)	
20	2 - 20	50	50	23,0	62,0	18	470E (ER32)	
30	1 - 16	68	42	28,0	57,0	22	430E (ER25)	
30	2 - 20	68	50	28,0	75,0	22	470E (ER32)	
40	1 - 16	83	42	32,5	63,0	22	430E (ER25)	
40	2 - 20	83	50	32,5	75,0	22	470E (ER32)	
40	3 - 26	83	63	32,5	75,0	22	472E (ER40)	
50	2 - 20	94	50	35,0	75,0	30	470E (ER32)	
50	3 - 26	94	63	35,0	63,0	30	472E (ER40)	

82 286 ...	EUR
160	123,00
161	122,00
202	100,00
203	105,00
300	99,00
301	99,00
400	107,00
401	107,00
402	106,00
500	156,00
501	156,00

Axial tool holders

WNT \ Performance



C1



Right-hand

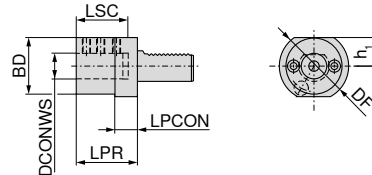
DCONMS	h ₆	HF	OAW	RADW	WF	h ₅	RADH	LPR	RADWOF
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
20	16	52	27,0	13,0	25,0	30	55	7,0	
30	20	70	35,0	17,0	28,0	38	70	10,0	
40	25	85	42,5	20,5	32,5	48	85	12,5	
50	32	100	50,0	25,5	35,0	60	100	16,0	

82 211 ...	EUR
200	107,00
300	83,00
400	97,00
500	140,00

Boring bar holder

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

WNT \ Performance



E2



DCONMS	h ₆	DCONWS	H ₇	DF	BD	h ₁	LPR	LPCON	LSC
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
16	6	40	32	18,0	44	13	34		
16	8	40	32	18,0	44	13	34		
16	10	40	32	18,0	44	13	34		
16	12	40	40	18,0	44	13	34		
16	16	40	40	18,0	44	13	34		
20	8	50	40	23,0	50	18	41		
20	10	50	40	23,0	50	18	41		
20	12	50	40	23,0	50	18	41		
20	16	50	40	23,0	50	18	41		
20	20	50	50	23,0	50	18	41		
20	25	50	50	23,0	60	18	51		
25	8	58	40	25,0	50	18	41		
25	10	58	40	25,0	50	18	41		
25	12	58	40	25,0	50	18	41		
25	16	58	40	25,0	50	18	41		
25	20	58	58	25,0	50	18	41		
25	25	58	58	25,0	60	18	51		
30	8	68	55	28,0	60	22	51		
30	10	68	55	28,0	60	22	51		
30	12	68	55	28,0	60	22	51		
30	16	68	55	28,0	60	22	51		
30	20	68	55	28,0	60	22	51		
30	25	68	55	28,0	60	22	51		
30	32	68	68	28,0	75	22	61		
40	8	83	55	32,5	75	22	61		
40	10	83	55	32,5	75	22	61		
40	12	83	55	32,5	75	22	61		
40	16	83	55	32,5	75	22	61		
40	20	83	55	32,5	75	22	61		
40	25	83	55	32,5	75	22	61		
40	32	83	83	32,5	75	22	61		
40	40	83	83	32,5	90	22	76		
50	12	98	68	35,0	90	30	76		
50	16	98	68	35,0	90	30	76		
50	20	98	68	35,0	90	30	76		
50	25	98	68	35,0	90	30	76		
50	32	98	68	35,0	90	30	76		
50	40	98	98	35,0	90	30	76		
50	50	98	98	35,0	100	30	86		

82 268 ...	EUR
160	106,00
161	81,00
162	81,00
163	81,00
164	81,00
200	75,00
201	75,00
202	75,00
203	75,00
204	75,00
205	75,00
250	122,00
251	122,00
252	122,00
253	122,00
254	122,00
255	122,00
300	72,00
301	72,00
302	72,00
303	72,00
304	72,00
305	72,00
306	72,00
400	75,00
401	75,00
402	75,00
403	75,00
404	75,00
405	75,00
406	75,00
407	75,00
500	107,00
501	107,00
502	107,00
503	102,00
504	102,00
505	102,00
506	102,00

1) Coolant supply through pipe joint



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