



It couldn't be easier

**Ordering via the
Online Shop**

<http://cuttingtools.ceratizit.com>



Competent advice also available on call

**Application engineers
with know-how**

Monday to Friday from 8:00 am – 6:00 pm



Placing your order is quick and easy

Customer Service Centre

Freephone Number: 1800 073 2073

Freefax Number: 1800 073 2074

VALID: 01.06.2022 – 31.08.2022



The winner of the Hope HB130 mountain bike was drawn by Ceratizit-WNT Pro Cycling's World and Olympic champion Katie Archibald MBE along with Tony Pennington MD Ceratizit UK & Ireland Ltd

Thank you for visiting us at
MACH 2022
1,500+ registered
visitors to our stand

£55,540 raised for our
chosen charities to date
from our MACH Hope
HB130 prize draw and
other customer events



CERATIZIT Technical Sales Engineer Lee Pinhorn congratulates the HB130 winner Dave Buchan from Havant based Monolution Ltd

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

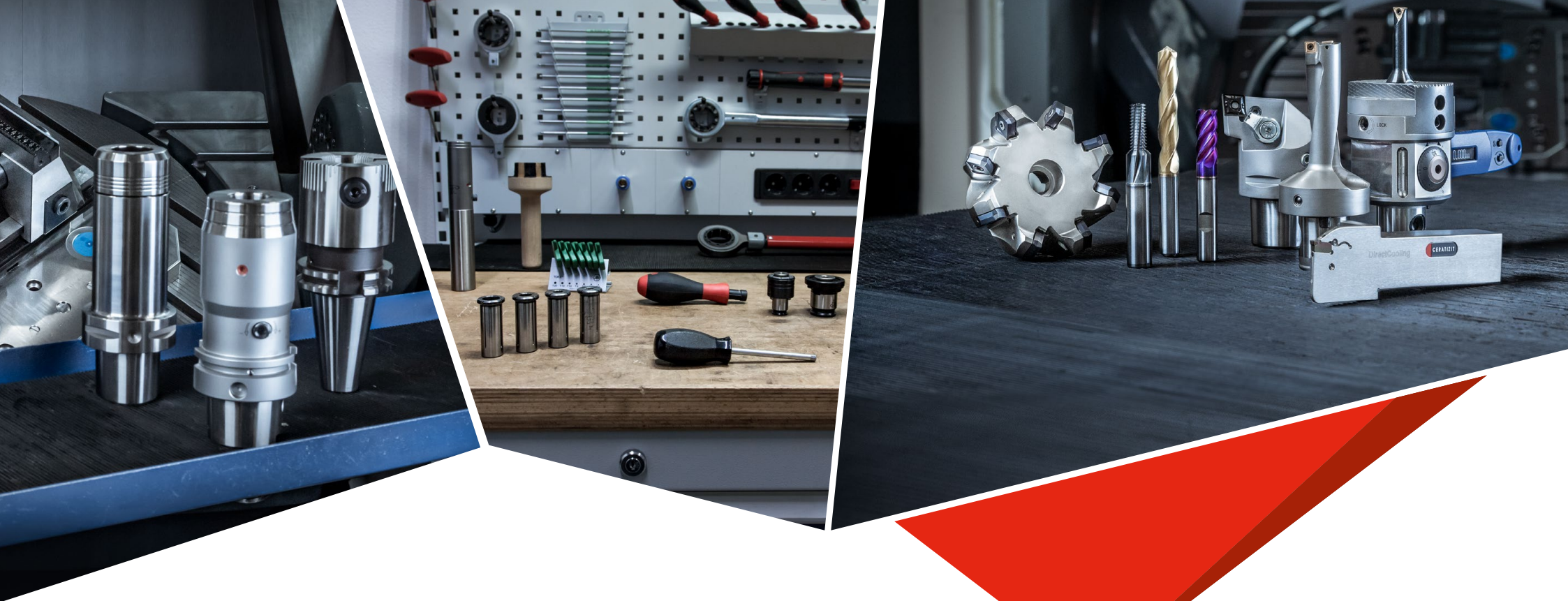
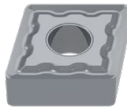
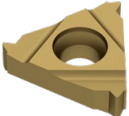


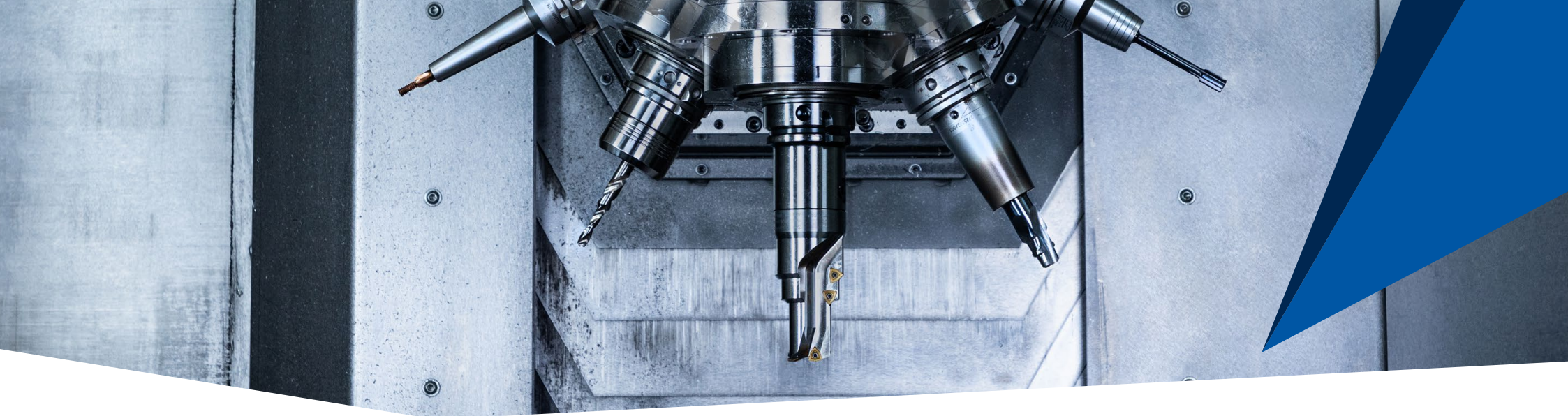
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Colour code information

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





SEMI-STANDARD SOLID DRILLING AND BORING

Total savings	3 min / Part
Total savings	317 Euro / Tool

Conventional machining

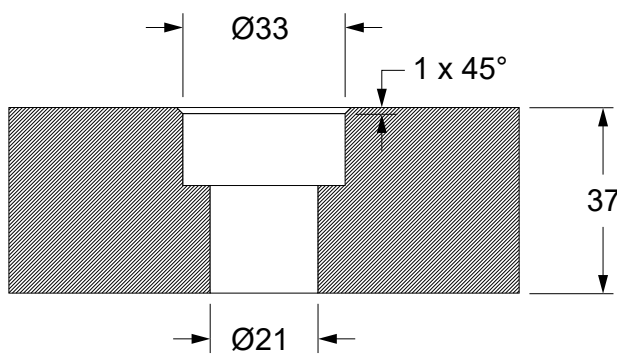


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Combined machining

- ▲ Shorter process times
due to high-performance parameters
- ▲ Ideal positioning accuracy
increases the quality of the hole produced
across all steps
- ▲ Reduces the need for tool changes
due to combined machining

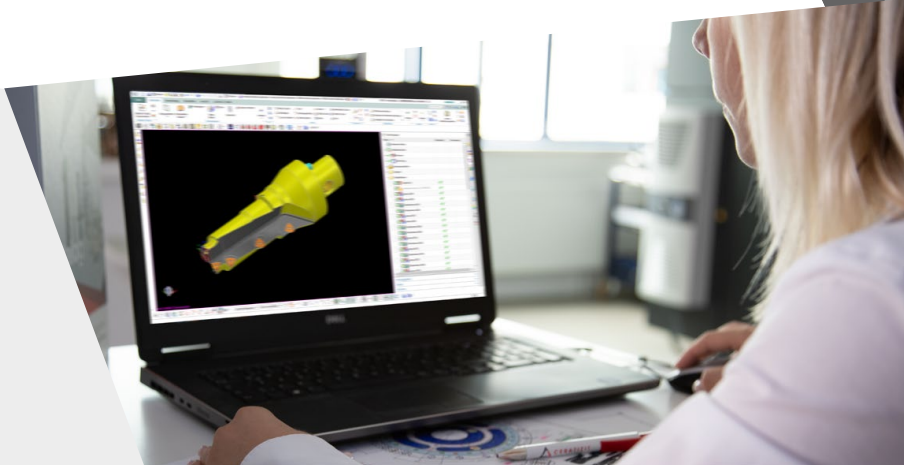


Current solution: Drilling,
Milling, Chamfering
Total tool price

4 min
792 Euro

With CERATIZIT Semi-Standard 1 min
Total tool price 475 Euro

Contact our technical team on
1800 0732075 for quotation.



BILLET MACHINING CUTS TIME TO MARKET FOR TECHNI

With the support of CERATIZIT UK & Ireland Techni has dramatically cut time to market for its compressor mount kits used for van-based refrigeration and compressed air units.

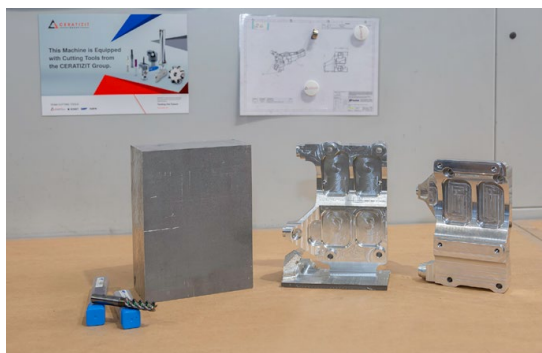
Techni Ltd is a global-leader in the design and manufacture of cast mount and drive solutions, with its products used across many industry sectors. If you have had a supermarket home delivery, the chilled or frozen products in the van were most likely kept cool by a fridge system that used a Techni compressor mount kit. Or, if you have had need for a mobile tyre fitter or utility vehicle, their compressors would probably have made use of a Techni systems mount kit.

Typically, the compressor brackets are machined from SG iron castings as normal batch sizes make this the most cost-effective method. However, driven by the significant increase in home deliveries due to the Covid pandemic customers have demanded faster turnaround, and volumes in much lower numbers, but more diverse configurations. This has been particularly the case for the American market, which traditionally hasn't had a strong home delivery culture. This increase in demand for lower volume and fast turnaround posed issues for the casting method of production, which for a new product could take as long as six months to get to market.

"In order to compete we needed to review our methods to reduce these lead times by as much as possible and billet machining was the logical step," says Ali Kerr Techni's Manufacturing Engineer who worked on the project. "This is a new road for us to go down and it is one that makes shorter runs, even one-offs, viable to

produce as we are eliminating lots of cost, such as fixture design and manufacture, all we need now is a vice and good tooling." To help with the workholding, tooling and methodology Techni turned to preferred tooling supplier CERATIZIT UK & Ireland and Technical Sales Engineer Derrick Jones.

The first stage in the process is to take a 3D scan of the engine bay of the van to be fitted with the system, OE CAD is then required to allow the design Engineers to meticulously design the mount brackets. A big advantage with billet machining is there is no longer any need for the draft angles or runners required for castings, which make the parts much simpler to design. Typically, the brackets can then be produced from an aluminium billet measuring 270 mm by 90 mm by 180 mm. To grip these a WNT ZSG 4 Centric vice, mounted on a WNT Zero Point MNG Riser Console. With its maximum gripping force of 35 Nm, unlike some other systems the WNT ZSG 4 vice is able to grip on as little as 3 mm of material without any pre-preparation of the billet. By mounting the vice on the MNG Riser Console access to five-sides of the billet is straightforward and helps to reduce tool overhangs, allowing increased cutting data to be applied.



The billet machined brackets produced using WNT ZSG 4 Centric Vice, MNG Zero Point column and the CircularLine DLC coated milling cutters.

In the case of Techni that 3 mm of material is left in situ after machining rather than removing it with a second operation, saving further time.

With the billet gripped up to 90 per cent of the machining, both roughing and finishing, is carried out using a WNT CircularLine end milling cutter, with CERATIZIT's extremely wear resistant Dragonskin DLC (Diamond Like Carbon) coating, which provides up to 80 percent of the hardness of natural diamond to protect from damage caused by built-up edges or abrasive alloy accretions to deliver extended tool life and elevated cutting data. In the case of Techni these cutters are being run at a conservative 450 m/min surface speed, 0.2 mm/tooth feed on this 14 mm diameter five flute cutter, with a 10-20 per cent step over. Out of the total 1 hour 45 minute machining cycle the Circularline cutter is engaged for about 95 minutes and after an initial batch of 50 brackets it was still delivering the surface finish results required, helped by the innovative cutter geometry, which is advantageous where the wall thickness is minimal, and where the requirement for a 2 mm corner radius is required.

"The help we have received from CERATIZIT on this project has been invaluable, and while some elements of billet machining are greater than casting, for example a casting may cost as little as £20, compared to £80 for a billet of aluminium, machining time for a casting is around 20 minutes, not 105 minutes," says Ali Kerr. "Even with these increased numbers the argument for billet machining is easily won, simply with the reduced time to market, initial cost to create a casting and typically around £2,000 - £10,000 for fixturing. We can now deliver finished machined parts to customers within a week if required, this would compare to four months for a new cast product. This gives us a valuable competitive edge with new customers or projects. In future, with batch quantities up to 300 billet machining will offer a significant advantage and we already have more parts lined up for billet machining."

In working closely with CERATIZIT UK & Ireland, Techni has developed a process by which it can respond to new customer demand anywhere in the world in a timely and cost-effective way. "The ZSG 4 vice and MNG zero point system along with the Circularline DLC cutter are popular standard elements of our product portfolio and provide an excellent example of how a highly effective solution to a machining problem can be created with minimum investment or disruption that can take months off a product lead time," says Derrick Jones, Technical Sales Engineer, CERATIZIT UK & Ireland.

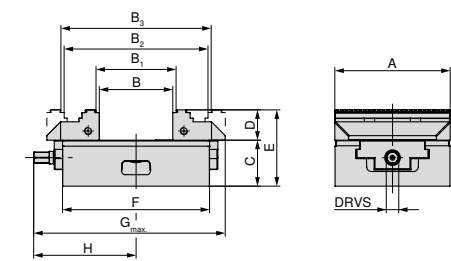
Customer case study featured products

Sealed Centric vice

- ▲ with 2 reversible grip jaws
- ▲ ball bearing mounted spindle
- ▲ ±0.01 mm repeatability



WNT \ Standard



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

A	B	B ₁	B ₂	B ₃	C	D	E	F	G _{max}	H	Clamping force			
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg		
80	0 - 59	4 - 63	59 - 117	63 - 121	50	28	78	130	157	81.0	25	4.0	080	EUR 719,33
80	0 - 123	4 - 127	59 - 181	63 - 185	50	28	78	190	206	104.0	25	5.5	08300	EUR 622,83
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111.5	35	8.7	025	EUR 906,66

Base plate, round



80 899 ...
125
EUR 527,85
EUR 422,00

MNG indexing bolt



80 899 ...
51500
EUR 45,42
EUR 12,00

MNG pull studs



80 899 ...
025
EUR 44,54
EUR 36,00

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

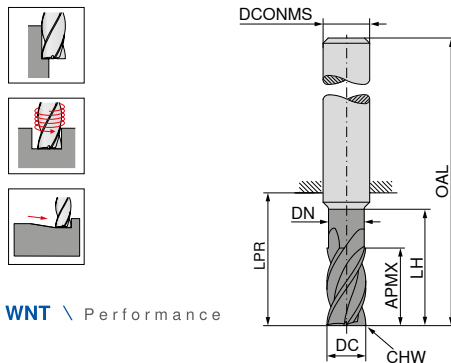
Special Offer

Any of the ZSG4 vices +
base plate + pull stud + dowel

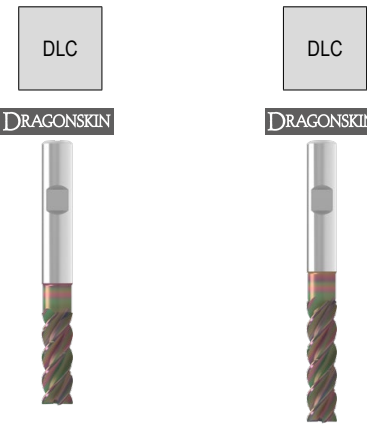
= 1000 EUR

CircularLine – End milling cutter

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



WNT \ Performance



Factory standard
HB

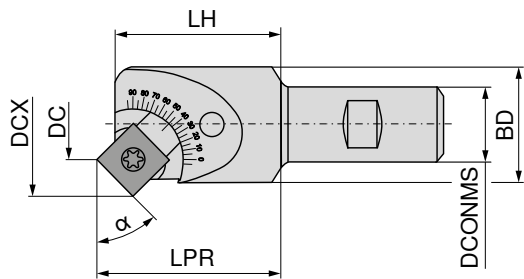
53 590 ...	EUR	EUR	53 591 ...	EUR	EUR
060	53,77	53,77	060	55,58	55,58
080	69,96	69,96	080	71,75	71,75
100	97,51	97,51	100	99,30	99,30
120	117,27	117,27	120	123,48	123,48
14000	179,57	179,57	14000	183,92	183,92
160	240,74	240,74	160	245,61	245,61
18000	275,93	275,93	18000	297,67	297,67
200	337,93	337,93	200	346,21	346,21

Nett Prices

DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
6	19	5,8	24	30	66	6	0,2	4
6	25	5,8	30	35	71	6	0,2	4
8	25	7,7	32	37	73	8	0,2	4
8	33	7,7	40	44	80	8	0,2	4
10	31	9,7	40	49	89	10	0,2	4
10	41	9,7	50	55	95	10	0,2	4
12	37	11,6	48	56	101	12	0,2	4
12	49	11,6	60	64	109	12	0,2	4
14	43	13,0	56	60	105	14	0,2	4
14	57	13,0	70	74	119	14	0,2	4
16	49	15,5	64	72	120	16	0,2	4
16	65	15,5	80	84	132	16	0,2	4
18	56	17,0	72	76	124	18	0,2	4
18	74	17,0	90	94	142	18	0,2	4
20	62	19,5	80	84	134	20	0,2	4
20	82	19,5	100	104	154	20	0,2	4

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	EUR
01600	456,20	110,00
02000	483,40	135,00

UltraMini – Set

▲ internal turning, grooving and chamfering



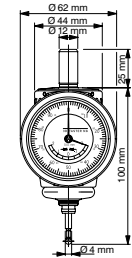
Set	73 085 ...	EUR	EUR
	999	540,15	260,00

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	EUR
	100	274,57	250,00

Zero height setting gauge



Designation	Height mm	85 900 ...	EUR	EUR
Zero height setting gauge	100	018	430,73	90,00

Assembly device for ISO adapters

▲ Aluminium



Collet chuck	80 720 ...	EUR	EUR
SK 30	030	407,42	63,00
SK 40	040	407,42	69,00
SK 50	050	470,74	75,00

Twist drill sets DIN 338 – Type N short



	Ø mm	10 158 ...	EUR	EUR
0.1 mm steps	1.0–5.9	050	95,60	40,00
0.1 mm steps	6.0–10	100	240,11	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

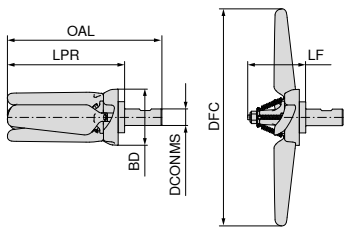


Set	30 100 ...	EUR	EUR
	999	76,37	35,00

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	EUR
20	186.3	141.3	69.75	254	67.68	5000 - 8000	02000	182,80	155,00

Spare parts
for Article no.
80 399 02000

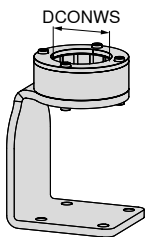
Rotor blade	80 399 ...	EUR	EUR
	30100	22,43	21,67

Rotor blade kit	80 399 ...	EUR	EUR
	30200	86,60	78,01

Assembly fixture for tool holders

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

WNT \ Standard



Adapter	DCONWS mm	80 722 ...	EUR	EUR
HSK 32, PSC 32	32.0	032	166,22	138,00
HSK 40, PSC 40	40.0	040	166,22	138,00
MAS-BT 30	46.0	046	137,34	115,00
DIN 69871 / DIN 2080 - SK 30, HSK 50, PSC 50	50.0	050	137,34	115,00
DIN 69871 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63.0	063	142,62	115,00
DIN 69871 - SK 50	97.5	097	265,70	230,00
HSK 100, MAS-BT 50, ANSI-CAT 50	100.0	100	265,70	230,00





HSS DRILLING



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



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



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

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

TCS		UNI		WT		VX		TCS		UNI		VX		UNI	
NC-A		TiN		TiN		TiN		TiN		TiN		TiN		TiN	
≤ 3xD		≤ 3xD		≤ 3xD		≤ 3xD		≤ 5xD		≤ 5xD		≤ 5xD		≤ 10xD	
DIN 1897		DIN 1897		DIN 1897		≈DIN 1897		DIN 338		≈DIN 338		≈DIN 338		DIN 340	
A		A		A		A		A		A		A		A	
WNT \ Performance		WNT \ Performance		WNT \ Performance		WNT \ Performance		WNT \ Performance		WNT \ Performance		WNT \ Performance		WNT \ Performance	
DC	h8/h6	10 520 ...		10 107 ...		10 110 ...		10 122 ...		10 171 ...		10 124 ...		10 270 ...	
mm		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
0,90				010 1) 5,06 5,06	5,06	010 4,97 4,97	4,97			009 1) 3,18 3,18	3,18			010 5,70 5,70	5,70
1,00				011 1) 5,06 5,06	5,06	011 5,19 5,19	5,19			010 1) 3,18 3,18	3,18			011 6,43 6,43	6,43
1,10				012 1) 5,20 5,20	5,20	012 4,84 4,84	4,84			011 1) 3,41 3,41	3,41			012 7,14 7,14	7,14
1,20										012 1) 3,41 3,41	3,41				
1,25										125 1) 3,49 3,49	3,49				
1,30				013 1) 5,45 5,45	5,45	013 5,19 5,19	5,19			013 1) 3,49 3,49	3,49			013 7,03 7,03	7,03
1,40				014 1) 4,99 4,99	4,99	014 5,19 5,19	5,19			014 1) 3,51 3,51	3,51			014 6,94 6,94	6,94
1,45										145 1) 3,30 3,30	3,30				
1,50				015 1) 4,71 4,71	4,71	015 4,84 4,84	4,84			015 1) 3,30 3,30	3,30			015 6,00 6,00	6,00
1,55										155 1) 3,30 3,30	3,30				
1,60				016 1) 4,93 4,93	4,93	016 4,69 4,69	4,69			016 1) 3,30 3,30	3,30			016 7,14 7,14	7,14
1,65										165 1) 3,55 3,55	3,55				
1,70				017 1) 4,99 4,99	4,99	017 4,62 4,62	4,62			017 1) 3,55 3,55	3,55			017 7,76 7,76	7,76
1,80				018 1) 4,93 4,93	4,93	018 4,75 4,75	4,75			018 1) 3,51 3,51	3,51			018 7,45 7,45	7,45
1,90				019 1) 4,93 4,93	4,93	019 4,75 4,75	4,75			019 1) 3,51 3,51	3,51			019 7,97 7,97	7,97
2,00				020 1) 4,13 4,13	4,13	020 4,03 4,03	4,03	020 9,60 9,60	9,60	020 1) 3,41 3,41	3,41	020 11,75 11,75	11,75	020 5,92 5,92	5,92
2,10				021 1) 5,06 5,06	5,06	021 4,54 4,54	4,54	021 10,57 10,57	10,57	021 1) 3,55 3,55	3,55	021 13,79 13,79	13,79	021 6,83 6,83	6,83
2,20				022 1) 5,06 5,06	5,06	022 4,97 4,97	4,97	022 11,52 11,52	11,52	022 1) 3,71 3,71	3,71	022 13,79 13,79	13,79	022 6,94 6,94	6,94
2,30				023 1) 4,28 4,28	4,28	023 4,97 4,97	4,97	023 11,52 11,52	11,52	023 1) 3,62 3,62	3,62	023 13,79 13,79	13,79	023 6,83 6,83	6,83
2,38				238 1) 4,66 4,66	4,66					238 1) 3,62 3,62	3,62				
2,40				024 1) 5,11 5,11	5,11	024 5,13 5,13	5,13	024 12,09 12,09	12,09	024 1) 3,41 3,41	3,41	024 13,79 13,79	13,79	024 6,33 6,33	6,33
2,50				025 1) 4,49 4,49	4,49	025 4,40 4,40	4,40	025 10,40 10,40	10,40	025 1) 3,49 3,49	3,49	025 13,79 13,79	13,79	025 6,00 6,00	6,00
2,55										255 1) 3,62 3,62	3,62				
2,60				026 1) 5,28 5,28	5,28	026 5,13 5,13	5,13	026 12,09 12,09	12,09	026 1) 3,62 3,62	3,62	026 13,79 13,79	13,79	026 6,94 6,94	6,94
2,70				027 1) 5,61 5,61	5,61	027 5,44 5,44	5,44	027 12,66 12,66	12,66	027 1) 3,83 3,83	3,83	027 13,79 13,79	13,79	027 7,36 7,36	7,36
2,78				278 1) 5,42 5,42	5,42					278 1) 4,66 4,66	4,66				
2,80				028 1) 5,20 5,20	5,20	028 5,44 5,44	5,44	028 12,66 12,66	12,66	028 1) 3,74 3,74	3,74	028 13,79 13,79	13,79	028 7,03 7,03	7,03
2,90				029 1) 5,54 5,54	5,54	029 5,44 5,44	5,44	029 12,66 12,66	12,66	029 1) 3,83 3,83	3,83	029 13,79 13,79	13,79	029 7,36 7,36	7,36
3,00	030 7,30 7,30			030 1) 4,66 4,66	4,66	030 4,64 4,64	4,64	030 11,52 11,52	11,52	030 1) 3,66 3,66	3,66	030 13,10 13,10	13,10	030 6,52 6,52	6,52
3,10				031 1) 4,99 4,99	4,99	031 5,34 5,34	5,34	031 11,52 11,52	11,52	031 1) 4,06 4,06	4,06	031 14,91 14,91	14,91	031 7,76 7,76	7,76
3,17				317 1) 4,93 4,93	4,93					317 1) 4,04 4,04	4,04				
3,20				032 1) 4,71 4,71	4,71	032 5,04 5,04	5,04	032 11,52 11,52	11,52	032 1) 3,88 3,88	3,88	032 14,91 14,91	14,91	032 7,25 7,25	7,25
3,25										325 1) 4,06 4,06	4,06				
3,30				033 1) 4,71 4,71	4,71	033 5,44 5,44	5,44	033 11,64 11,64	11,64	033 1) 3,94 3,94	3,94	033 14,91 14,91	14,91	033 7,67 7,67	7,67
3,40				034 1) 5,45 5,45	5,45	034 5,44 5,44	5,44	034 11,64 11,64	11,64	034 1) 4,36 4,36	4,36	034 14,91 14,91	14,91	034 7,97 7,97	7,97
3,50				035 1) 4,71 4,71	4,71	035 4,94 4,94	4,94	035 11,08 11,08	11,08	035 1) 4,41 4,41	4,41	035 14,91 14,91	14,91	035 7,76 7,76	7,76
3,57				357 1) 5,35 5,35	5,35					357 1) 4,41 4,41	4,41				
3,60				036 1) 6,27 6,27	6,27	036 5,44 5,44	5,44	036 11,97 11,97	11,97	036 1) 4,47 4,47	4,47	036 16,27 16,27	16,27	036 8,07 8,07	8,07
3,70				037 1) 5,42 5,42	5,42	037 5,87 5,87	5,87	037 12,53 12,53	12,53	037 1) 4,47 4,47	4,47	037 16,27 16,27	16,27	037 7,87 7,87	7,87
3,80				038 1) 5,78 5,78	5,78	038 5,58 5,58	5,58	038 12,20 12,20	12,20	038 1) 4,68 4,68	4,68	038 16,27 16,27	16,27	038 7,56 7,56	7,56
3,90				039 1) 6,55 6,55	6,55	039 5,87 5,87	5,87	039 12,53 12,53	12,53	039 1) 4,77 4,77	4,77	039 16,27 16,27	16,27	039 8,49 8,	

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

TCS

NC-A

UNI

TiN

≤ 3xD

DIN 1897

WT

TiN

≤ 3xD

DIN 1897

VX

TiN

≤ 3xD

≈DIN 1897

TCS

UNI

TiN

≤ 5xD

DIN 338

VX

TiN

≤ 5xD

≈DIN 338

UNI

TiN

≤ 10xD

DIN 340

Nett Prices

WNT \ Performance

WNT \ Performance

WNT \ Performance

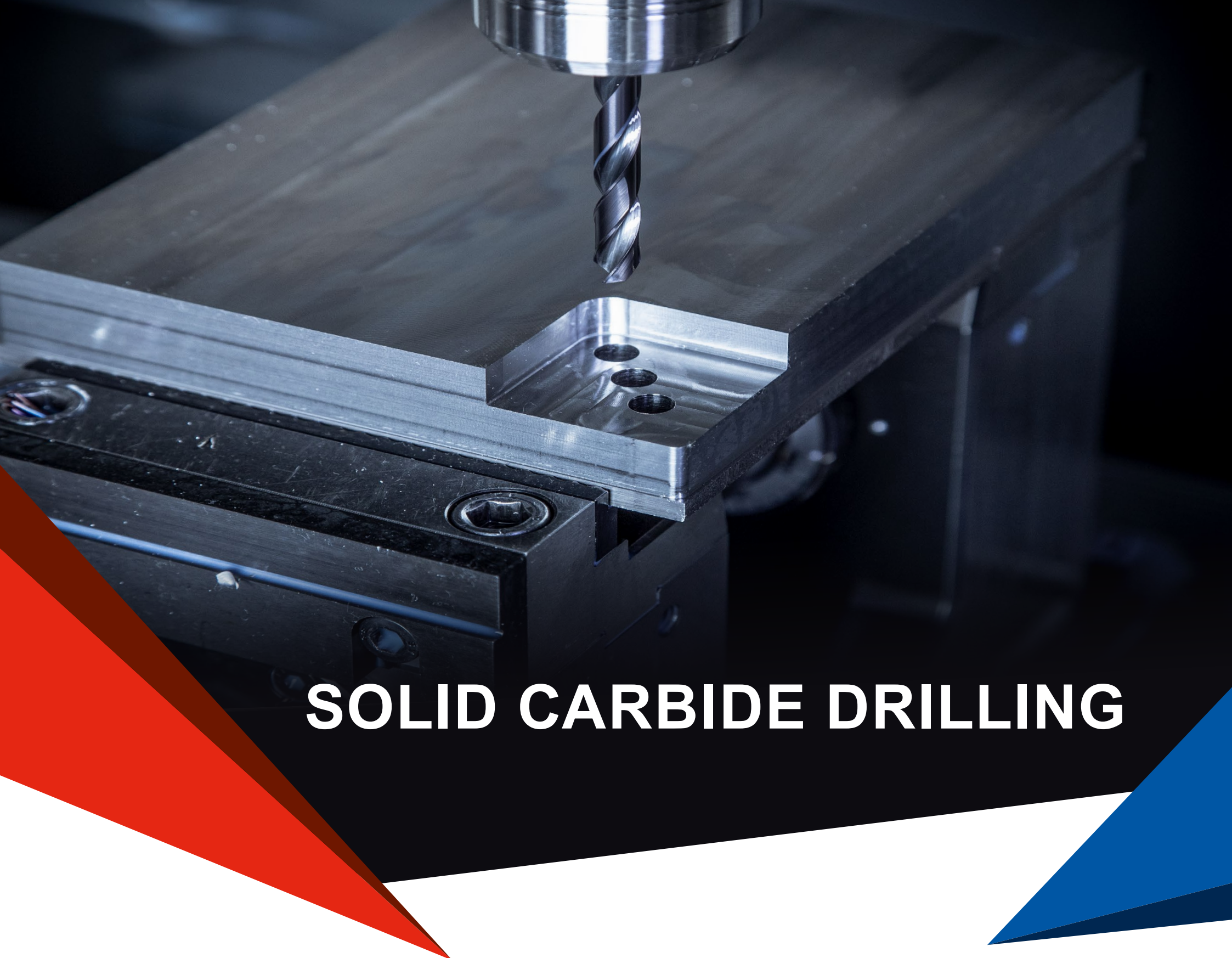
WNT \ Performance

WNT \ Performance

WNT \ Performance

WNT \ Performance

DC h8/h6 mm	10 520 ...		10 107 ...		10 110 ...		10 122 ...		10 171 ...		10 124 ...		10 270 ...		
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	
7,10			071 ¹⁾	11,41 11,41			071	20,60 29,60		071 ¹⁾	0,82 9,82	071	14,23 14,23		
7,14			714 ¹⁾	15,02 15,02			714	20,60 29,60		714 ¹⁾	14,69 14,69				
7,20			072 ¹⁾	11,75 11,75	072	13,00 13,00	072	20,49 29,49		072 ¹⁾	0,70 9,79	072	16,15 16,15		
7,30			073 ¹⁾	12,53 12,53			073	20,49 29,49		073 ¹⁾	10,16 10,16	073	16,83 16,83		
7,40			074 ¹⁾	11,86 11,86	074	13,10 13,10	074	20,60 29,60		074 ¹⁾	0,94 9,94	074	17,50 17,50		
7,45							745	20,60 29,60		745 ¹⁾	0,05 9,05				
7,50			075 ¹⁾	9,78 9,78	075	10,08 10,08	075	21,25 21,25		075 ¹⁾	0,05 9,05	075	17,74 17,74		
7,55												755	35,92 35,92		
7,60			076 ¹⁾	15,26 15,26	076	14,58 14,58	076	29,71 29,71		076 ¹⁾	10,98 10,98	076	19,10 19,10		
7,70			077 ¹⁾	16,50 16,50	077	14,58 14,58	077	33,10 33,10		077 ¹⁾	12,53 12,53	077	18,20 18,20		
7,80			078 ¹⁾	12,66 12,66	078	14,69 14,69	078	33,10 33,10		078 ¹⁾	10,71 10,71	078	19,88 19,88		
7,90			079 ¹⁾	17,64 17,64	079	14,69 14,69	079	33,10 33,10		079 ¹⁾	12,76 12,76	079	19,20 19,20		
7,94			794 ¹⁾	12,09 12,09						794 ¹⁾	11,52 11,52				
8,00	080	13,33 13,33	080 ¹⁾	11,75 11,75	080	10,47 10,47	080	21,81 21,81		080 ¹⁾	10,21 10,21	080	35,92 35,92	080	16,27 16,27
8,10			081 ¹⁾	14,91 14,91			081	36,37 36,37		081 ¹⁾	11,15 11,15	081	39,20 39,20	081	17,84 17,84
8,20			082 ¹⁾	15,48 15,48	082	14,80 14,80	082	36,37 36,37		082 ¹⁾	10,98 10,98	082	39,20 39,20	082	19,55 19,55
8,30			083 ¹⁾	16,27 16,27			083	36,37 36,37		083 ¹⁾	12,20 12,20	083	39,20 39,20	083	20,79 20,79
8,40			084 ¹⁾	15,70 15,70	084	15,02 15,02	084	36,37 36,37		084 ¹⁾	12,20 12,20	084	39,20 39,20	084	22,25 22,25
8,50			085 ¹⁾	13,66 13,66	085	12,53 12,53	085	24,62 24,62		085 ¹⁾	10,51 10,51	085	40,79 40,79	085	19,10 19,10
8,60			086 ¹⁾	15,26 15,26			086	37,96 37,96		086 ¹⁾	18,41 18,41	086	36,37 36,37	086	19,10 19,10
8,70			087 ¹⁾	17,50 17,50	087	15,36 15,36	087	37,96 37,96		087 ¹⁾	18,41 18,41	087	36,37 36,37	087	19,20 19,20
8,73			873 ¹⁾	21,46 21,46						873 ¹⁾	11,30 11,30				
8,80			088 ¹⁾	16,95 16,95	088	15,48 15,48	088	37,96 37,96		088 ¹⁾	12,20 12,20	088	36,37 36,37	088	19,55 19,55
8,90			089 ¹⁾	21,68 21,68			089	37,96 37,96		089 ¹⁾	17,07 17,07	089	36,37 36,37	089	19,77 19,77
9,00			090 ¹⁾	13,89 13,89	090	12,66 12,66	090	27,12 27,12		090 ¹⁾	11,52 11,52	090	36,37 36,37	090	20,00 20,00
9,10			091 ¹⁾	18,31 18,31			091	46,65 46,65		091 ¹⁾	18,97 18,97	091	39,32 39,32	091	20,00 20,00
9,20			092 ¹⁾	18,41 18,41	092	20,12 20,12	092	46,65 46,65		092 ¹⁾	18,97 18,97	092	39,32 39,32	092	20,00 20,00
9,30			093 ¹⁾	15,70 15,70	093	20,12 20,12	093	46,65 46,65		093 ¹⁾	13,33 13,33	093	39,32 39,32	093	20,00 20,00
9,35							935	46,65 46,65		935 ¹⁾	12,09 12,09				
9,40			094 ¹⁾	21,35 21,35	094	20,12 20,12	094	46,65 46,65		094 ¹⁾	19,44 19,44	094	39,32 39,32	094	20,00 20,00
9,50			095 ¹⁾	15,26 15,26	095	16,61 16,61	095	32,54 32,54		095 ¹⁾	12,09 12,09	095	39,32 39,32	095	20,00 20,00
9,55												955	43,16 43,16		
9,60			096 ¹⁾	22,38 22,38	096	20,90 20,90	096	35,14 35,14		096 ¹⁾	14,46 14,46	096	43,16 43,16	096	21,25 21,25
9,70			097 ¹⁾	21,68 21,68	097	20,90 20,90	097	35,14 35,14		097 ¹⁾	20,90 20,90	097	43,16 43,16	097	22,25 22,25
9,80			098 ¹⁾	18,31 18,31	098	22,38 22,38	098	35,14 35,14		098 ¹⁾	14,46 14,46	098	43,16 43,16	098	23,84 23,84
9,90			099 ¹⁾	23,16 23,16	099	22,38 22,38	099	35,14 35,14		099 ¹⁾	17,17 17,17	099	43,16 43,16	099	25,88 25,88
10,00	100	14,80 14,80	100 ¹⁾	15,02 15,02	100	15,48 15,48	100	31,17 31,17		100 ¹⁾	13,66 13,66	100	43,16 43,16	100	28,02 28,02
10,10			101 ¹⁾	22,38 22,38			101	45,97 45,97		101 ¹⁾	19,55 19,55	101	53,44 53,44	101	30,73 30,73
10,20			102 ¹⁾	19,10 19,10	102	21,68 21,68	102	45,97 45,97		102 ¹⁾	15,83 15,83	102	53,44 53,44	102	32,65 32,65
10,30			103 ¹⁾	20,79 20,79			103	47,67 47,67		103 ¹⁾	17,07 17,07	103	53,44 53,44	103	35,37 35,37
10,40			104 ¹⁾	24,29 24,29			104	44,85 44,85		104 ¹⁾	21,12 21,12	104	53,44 53,44	104	35,37 35,37
10,50			105 ¹⁾	18,20 18,20	105	20,68 20,68	105	44,85 44,85		105 ¹⁾	15,93 15,93	105	53,44 53,44	105	35,81 35,81
10,55										955 ¹⁾	16,50 16,50				
10,70							107	49,71 49,71				107	58,64 58,64		
10,80							108	47,78 47,78				108	58,64 58,64		
11,00			110 ¹⁾	19,88 19,88	110	20,68 20,68	110	44,85 44,85		110 ¹⁾	16,50 16,50	110	50,27 50,27	110	42,60 42,60
11,10															
11,11			111 ¹⁾	23,61 23,61			111	44,52 44,52		111 ¹⁾	20,68 20,68				
11,20										112 ¹⁾	18,31 18,31	112	54,11 54,11		
11,30										113 ¹⁾	18,31 18,31	113	54,11 54,11		
11,40										114 ¹⁾	18,31 18,31	114	54,11 54,11		
11,50			115 ¹⁾	23,27 23,27	115	21,92 21,92	115	46,65 46,65		115 ¹⁾	18,31 18,31	115	54,11 54,11	115	43,04 43,04
11,60										116 ¹⁾	19,55 19,55	116	58,41 58,41		
11,70												117	58,41 58,41		
11,80												118	58,41 58,41		
11,90												119	58,41 58,41		
12,00	120	21,46 21,46	120 ¹⁾	22,71 22,71	120	25,43 25,43	120	59,77 59,77		120 ¹⁾	19,55 19,55	120	58,41 58,41	120	43,49 43,49
12,10							121	39,66 39,66		121 ¹⁾	20,33 20,33				
12,15												122	66,54 66,54		
12,20										123 ¹⁾	35,02 35,02	123	66,54 66,54		
12,30			123 ¹⁾	37,86 37,86	123	38,85 38,85	123	72,64 72,64		925 ¹⁾	20,33 20,33	125	66,54 66,54	125	47,67 47,67
12,50			125 ¹⁾	24,75 24,75	125	26,09 26,09	125	56,26 56,26		127 ¹⁾	26,56 26,56	127	70,38 70,38		
12,70			127 ¹⁾	31,40 31,40			127	124,30 124,30				128	70,38 70,38		
12,80							128	58,97 58,97		130 ¹⁾	21,58 21,58	130	78,17 78,17	130	51,85 51,85
13,00			130 ¹⁾	24,75 24,75	130	26,78 26,78	130	60,44 60,44		131 ¹⁾	38,42 38,42				
13,10										133 ¹⁾	38,42 38,42				
13,30			135 ¹⁾	26,42 26,42	135	29,15 29,15	135	89,25 89,25		135 ¹⁾	38,42 38,42	135	101,00 101,00	135	52,75 52,75
14,00			140 ¹⁾	32,99 32,99	140	30,27 30,27	140	89,25 89,25		140 ¹⁾	26,22 26,22	140	101,00 101,00	140	54,91 54,91
14,50							145	114,06 114,06				145	130,00 130,00		
15,00							150	107,54 107,54				150	122,03 122,03		
15,50															



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TB – for all materials and applications from 16xD up to 50xD.



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High Performance Drill, DIN 6537

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≤ 3xD

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HA

WNT \ Standard

TCS

TiAlN

≤ 3xD

DIN 6537

HB

WNT \ Standard

DC mm		11 706 ...		11 707 ...		11 700 ...		11 701 ...					
		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR				
1,00		01000	28,50	28,50			01000	33,05	33,05				
1,10		01100	28,50	28,50			01100	33,05	33,05				
1,20		01200	28,50	28,50			01200	33,05	33,05				
1,30		01300	28,50	28,50			01300	33,05	33,05				
1,40		01400	28,50	28,50			01400	33,05	33,05				
1,50		01500	28,50	28,50			01500	33,05	33,05				
1,60		01600	28,50	28,50			01600	33,05	33,05				
1,70		01700	28,50	28,50			01700	33,05	33,05				
1,80		01800	28,50	28,50			01800	33,05	33,05				
1,90		01900	28,50	28,50			01900	33,05	33,05				
2,00		02000	25,99	25,99			02000	33,05	33,05				
2,10		02100	25,99	25,99			02100	33,05	33,05				
2,20		02200	25,99	25,99			02200	33,05	33,05				
2,30		02300	25,99	25,99			02300	33,05	33,05				
2,40		02400	25,99	25,99			02400	33,05	33,05				
2,50		02500	25,99	25,99			02500	33,05	33,05				
2,60		02600	25,99	25,99			02600	33,05	33,05				
2,70		02700	25,99	25,99			02700	33,05	33,05				
2,80		02800	25,99	25,99			02800	33,05	33,05				
2,90		02900	25,99	25,99			02900	33,05	33,05				
3,00		03000	25,16	25,16	03000	25,16	25,16	03000	28,76	28,76	03000	28,76	28,76
3,10		03100	25,16	25,16	03100	25,16	25,16	03100	28,76	28,76	03100	28,76	28,76
3,20		03200	25,16	25,16	03200	25,16	25,16	03200	28,76	28,76	03200	28,76	28,76
3,25		03250	25,16	25,16	03250	25,16	25,16	03250	28,76	28,76	03250	28,76	28,76
3,30		03300	25,16	25,16	03300	25,16	25,16	03300	28,76	28,76	03300	28,76	28,76
3,40		03400	25,16	25,16	03400	25,16	25,16	03400	28,76	28,76	03400	28,76	28,76
3,50		03500	25,16	25,16	03500	25,16	25,16	03500	28,76	28,76	03500	28,76	28,76
3,60		03600	25,16	25,16	03600	25,16	25,16	03600	28,76	28,76	03600	28,76	28,76
3,70		03700	25,16	25,16	03700	25,16	25,16	03700	28,76	28,76	03700	28,76	28,76
3,80		03800	25,16	25,16	03800	25,16	25,16	03800	28,76	28,76	03800	28,76	28,76
3,90		03900	25,16	25,16	03900	25,16	25,16	03900	28,76	28,76	03900	28,76	28,76
4,00		04000	25,16	25,16	04000	25,16	25,16	04000	28,76	28,76	04000	28,76	28,76
4,10		04100	25,16	25,16	04100	25,16	25,16	04100	28,76	28,76	04100	28,76	28,76
4,20		04200	25,16	25,16	04200	25,16	25,16	04200	28,76	28,76	04200	28,76	28,76
4,30		04300	25,16	25,16	04300	25,16	25,16	04300	28,76	28,76	04300	28,76	28,76
4,40		04400	25,16	25,16	04400	25,16	25,16	04400	28,76	28,76	04400	28,76	28,76
4,50		04500	25,16	25,16	04500	25,16	25,16	04500	28,76	28,76	04500	28,76	28,76
4,60		04600	25,16	25,16	04600	25,16	25,16	04600	28,76	28,76	04600	28,76	28,76
4,65		04650	25,16	25,16	04650	25,16	25,16	04650	28,76	28,76	04650	28,76	28,76
4,70		04700	25,16	25,16	04700	25,16	25,16	04700	28,76	28,76	04700	28,76	28,76
4,80		04800	25,16	25,16	04800	25,16	25,16	04800	28,76	28,76	04800	28,76	28,76
4,90		04900	25,16	25,16	04900	25,16	25,16	04900	28,76	28,76	04900	28,76	28,76
5,00		05000	25,16	25,16	05000	25,16	25,16	05000	28,76	28,76	05000	28,76	28,76
5,10		05100	25,16	25,16	05100	25,16	25,16	05100	28,76	28,76	05100	28,76	28,76
5,20		05200	25,16	25,16	05200	25,16	25,16	05200	28,76	28,76	05200	28,76	28,76
5,30		05300	25,16	25,16	05300	25,16	25,16	05300	28,76	28,76	05300	28,76	28,76
5,40		05400	25,16	25,16	05400	25,16	25,16	05400	28,76	28,76	05400	28,76	28,76
5,50		05500	25,16	25,16	05500	25,16	25,16	05500	28,76	28,76	05500	28,76	28,76
5,55		05550	25,16	25,16	05550	25,16	25,16	05550	28,76	28,76	05550	28,76	28,76
5,60		05600	25,16	25,16	05600	25,16	25,16	05600	28,76	28,76	05600	28,76	28,76
5,65		05650	25,16	25,16	05650	25,16	25,16	05650	28,76	28,76	05650	28,76	28,76
5,70		05700	25,16	25,16	05700	25,16	25,16	05700	28,76	28,76	05700	28,76	28,76
5,80		05800	25,16	25,16	05800	25,16	25,16	05800	28,76	28,76	05800	28,76	28,76
5,90		05900	25,16	25,16	05900	25,16	25,16	05900	28,76	28,76	05900	28,76	28,76
6,00		06000	25,16	25,16	06000	25,16	25,16	06000	28,76	28,76	06000	28,76	28,76
6,10		06100	25,26	25,26	06100	25,26	25,26	06100	39,28	39,28	06100	39,28	39,28
6,20		06200	25,26	25,26	06200	25,26	25,26	06200	39,28	39,28	06200	39,28	39,28
6,30		06300	25,26	25,26	06300	25,26	25,26	06300	39,28	39,28	06300	39,28	39,28
6,40		06400	25,26	25,26	06400	25,26	25,26	06400	39,28	39,28	06400	39,28	39,28
6,50		06500	25,26	25,26	06500	25,26	25,26	06500	39,28	39,28	06500	39,28	39,28
6,60		06600	25,26	25,26	06600	25,26	25,26	06600	39,28	39,28	06600	39,28	39,28
6,70		06700	25,26	25,26	06700	25,26	25,26	06700	39,28	39,28	06700	39,28	39,28
6,80		06800	25,26	25,26	06800	25,26	25,26	06800	39,28	39,28	06800	39,28	39,28
6,90		06900	25,26	25,26	06900	25,26	25,26	06900	39,28	39,28	06900	39,28	39,28
7,00		07000	25,26	25,26	07000	25,26	25,26	07000	39,28	39,28	07000	39,28	39,28
7,10		07100	25,26	25,26	07100	25,26	25,26	07100	39,28	39,28	07100	39,28	39,28
7,20		07200	25,26	25,26	07200	25,26	25,26	07200	39,28	39,28	07200	39,28	39,28
7,30		07300	25,26	25,26	07300	25,26	25,26	07300	39,28	39,28	07300	39,28	39,28
7,40		07400	25,26	25,26	07400	25,26	25,26	07400	39,28	39,28	07400	39,28	39,28
7,50		07500	25,26	25,26	07500	25,26	25,26	07500	39,28	39,28	07500	39,28	39,28
7,55		07550											



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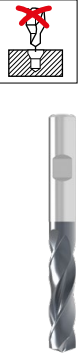


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HA

HB

WNT \ Standard

WNT \ Standard

WNT \ Standard

WNT \ Standard

DC _{h7} mm	11 706 ...			11 707 ...			11 700 ...			11 701 ...		
	EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR	
7,8	07800	25,26	25,26	07800	25,26	25,26	07800	39,28	39,28	07800	39,28	39,28
7,9	07900	25,26	25,26	07900	25,26	25,26	07900	39,28	39,28	07900	39,28	39,28
8,0	08000	25,26	25,26	08000	25,26	25,26	08000	39,28	39,28	08000	39,28	39,28
8,1	08100	28,27	28,27	08100	28,27	28,27	08100	44,52	44,52	08100	44,52	44,52
8,2	08200	28,27	28,27	08200	28,27	28,27	08200	44,52	44,52	08200	44,52	44,52
8,3	08300	28,27	28,27	08300	28,27	28,27	08300	44,52	44,52	08300	44,52	44,52
8,4	08400	28,27	28,27	08400	28,27	28,27	08400	44,52	44,52	08400	44,52	44,52
8,5	08500	28,27	28,27	08500	28,27	28,27	08500	44,52	44,52	08500	44,52	44,52
8,6	08600	28,27	28,27	08600	28,27	28,27	08600	44,52	44,52	08600	44,52	44,52
8,7	08700	28,27	28,27	08700	28,27	28,27	08700	44,52	44,52	08700	44,52	44,52
8,8	08800	28,27	28,27	08800	28,27	28,27	08800	44,52	44,52	08800	44,52	44,52
8,9	08900	28,27	28,27	08900	28,27	28,27	08900	44,52	44,52	08900	44,52	44,52
9,0	09000	28,27	28,27	09000	28,27	28,27	09000	44,52	44,52	09000	44,52	44,52
9,1	09100	28,27	28,27	09100	28,27	28,27	09100	44,52	44,52	09100	44,52	44,52
9,2	09200	28,27	28,27	09200	28,27	28,27	09200	44,52	44,52	09200	44,52	44,52
9,3	09300	28,27	28,27	09300	28,27	28,27	09300	44,52	44,52	09300	44,52	44,52
9,4	09400	28,27	28,27	09400	28,27	28,27	09400	44,52	44,52	09400	44,52	44,52
9,5	09500	28,27	28,27	09500	28,27	28,27	09500	44,52	44,52	09500	44,52	44,52
9,6	09600	28,27	28,27	09600	28,27	28,27	09600	44,52	44,52	09600	44,52	44,52
9,7	09700	28,27	28,27	09700	28,27	28,27	09700	44,52	44,52	09700	44,52	44,52
9,8	09800	28,27	28,27	09800	28,27	28,27	09800	44,52	44,52	09800	44,52	44,52
9,9	09900	28,27	28,27	09900	28,27	28,27	09900	44,52	44,52	09900	44,52	44,52
10,0	10000	28,27	28,27	10000	28,27	28,27	10000	44,52	44,52	10000	44,52	44,52
10,1	10100	42,64	42,64	10100	42,64	42,64	10100	64,17	64,17	10100	64,17	64,17
10,2	10200	42,64	42,64	10200	42,64	42,64	10200	64,17	64,17	10200	64,17	64,17
10,3	10300	42,64	42,64	10300	42,64	42,64	10300	64,17	64,17	10300	64,17	64,17
10,4	10400	42,64	42,64	10400	42,64	42,64	10400	64,17	64,17	10400	64,17	64,17
10,5	10500	42,64	42,64	10500	42,64	42,64	10500	64,17	64,17	10500	64,17	64,17
10,6	10600	42,64	42,64	10600	42,64	42,64	10600	64,17	64,17	10600	64,17	64,17
10,7	10700	42,64	42,64	10700	42,64	42,64	10700	64,17	64,17	10700	64,17	64,17
10,8	10800	42,64	42,64	10800	42,64	42,64	10800	64,17	64,17	10800	64,17	64,17
10,9	10900	42,64	42,64	10900	42,64	42,64	10900	64,17	64,17	10900	64,17	64,17
11,0	11000	42,64	42,64	11000	42,64	42,64	11000	64,17	64,17	11000	64,17	64,17
11,1	11100	42,64	42,64	11100	42,64	42,64	11100	64,17	64,17	11100	64,17	64,17
11,2	11200	42,64	42,64	11200	42,64	42,64	11200	64,17	64,17	11200	64,17	64,17
11,3	11300	42,64	42,64	11300	42,64	42,64	11300	64,17	64,17	11300	64,17	64,17
11,4	11400	42,64	42,64	11400	42,64	42,64	11400	64,17	64,17	11400	64,17	64,17
11,5	11500	42,64	42,64	11500	42,64	42,64	11500	64,17	64,17	11500	64,17	64,17
11,6	11600	42,64	42,64	11600	42,64	42,64	11600	64,17	64,17	11600	64,17	64,17
11,7	11700	42,64	42,64	11700	42,64	42,64	11700	64,17	64,17	11700	64,17	64,17
11,8	11800	42,64	42,64	11800	42,64	42,64	11800	64,17	64,17	11800	64,17	64,17
11,9	11900	42,64	42,64	11900	42,64	42,64	11900	64,17	64,17	11900	64,17	64,17
12,0	12000	42,64	42,64	12000	42,64	42,64	12000	64,17	64,17	12000	64,17	64,17
12,2	12200	57,13	57,13	12200	57,13	57,13	12200	85,95	85,95	12200	85,95	85,95
12,3							12300	85,95	85,95	12300	85,95	85,95
12,5				12500	57,13	57,13	12500	85,95	85,95	12500	85,95	85,95
12,7							12700	85,95	85,95	12700	85,95	85,95
12,8				12800	57,13	57,13	12800	85,95	85,95	12800	85,95	85,95
12,9							12900	85,95	85,95	12900	85,95	85,95
13,0							13000	85,95	85,95	13000	85,95	85,95
13,1				13100	57,13	57,13	13100	57,13	57,13			
13,5				13500	57,13	57,13	13500	85,95	85,95	13500	85,95	85,95
13,8				13800	57,13	57,13	13800	85,95	85,95	13800	85,95	85,95
14,0				14000	57,13	57,13	14000	85,95	85,95	14000	85,95	85,95
14,2				14200	74,27	74,27	14200	110,95	110,95	14200	110,95	110,95
14,4				14400	74,27	74,27	14400	110,95	110,95	14400	110,95	110,95
14,5				14500	74,27	74,27	14500	110,95	110,95	14500	110,95	110,95
14,8				14800	74,27	74,27	14800	110,95	110,95	14800	110,95	110,95
15,0				15000	74,27	74,27	15000	110,95	110,95	15000	110,95	110,95
15,1				15100	74,27	74,27	15100	110,95	110,95	15100	110,95	110,95
15,2				15200	74,27	74,27	15200	110,95	110,95	15200	110,95	110,95
15,5				15500	74,27	74,27	15500	110,95	110,95	15500	110,95	110,95
15,8				15800	74,27	74,27	15800	110,95	110,95	15800	110,95	110,95
16,0				16000	74,27	74,27	16000	110,95	110,95	16000	110,95	110,95
16,5				16500	125,86	125,86	16500	168,39	168,39	16500	168,39	168,39
17,0				17000	125,86	125,86	17000	168,39	168,39	17000	168,39	168,39
17,5				17500	125,86	125,86	17500	168,39	168,39	17500	168,39	168,39
18,0				18000	125,86	125,86	18000	168,39	168,39	18000	168,39	168,39
18,5				18500	137,76	137,76	18500	185,58	185,58	18500	185,58	185,58
18,9				18900	137,76	137,76	18900	185,58	185,58	18900	185,58	185,58
19,0				19000	137,76	137,76	19000	185,58	185,58	19000	185,58	185,58
19,3							19300	185,58	185,58	19300	185,58	185,58
19,5				19500	137,76	137,76	19500	185,58	185,58	19500	185,58	185,58
20,0				20000	137,76	137,76	20000	185,58	185,58	20000	185,58	185,58
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High Performance Drill, DIN 6537

Nett Prices

DC _{H7} mm	11 710 ...			11 709 ...			11 702 ...			11 703 ...		
	EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR	
1,00							01000	38,52	38,52			
1,10							01100	38,52	38,52			
1,20							01200	38,52	38,52			
1,30							01300	38,52	38,52			
1,40							01400	38,52	38,52			
1,50							01500	38,52	38,52			
1,60							01600	38,52	38,52			
1,70							01700	38,52	38,52			
1,80							01800	38,52	38,52			
1,90							01900	38,52	38,52			
2,00							02000	38,52	38,52			
2,10							02100	38,52	38,52			
2,20							02200	38,52	38,52			
2,30							02300	38,52	38,52			
2,40							02400	38,52	38,52			
2,50							02500	38,52	38,52			
2,60							02600	38,52	38,52			
2,70							02700	38,52	38,52			
2,80							02800	38,52	38,52			
2,90							02900	38,52	38,52			
3,00				03000	30,06	30,06	03000	37,90	37,90	03000	37,90	37,90
3,10				03100	30,06	30,06	03100	37,90	37,90	03100	37,90	37,90
3,20				03200	30,06	30,06	03200	37,90	37,90	03200	37,90	37,90
3,25				03250	30,06	30,06	03250	37,90	37,90	03250	37,90	37,90
3,30				03300	30,06	30,06	03300	37,90	37,90	03300	37,90	37,90
3,40				03400	30,06	30,06	03400	37,90	37,90	03400	37,90	37,90
3,50				03500	30,06	30,06	03500	37,90	37,90	03500	37,90	37,90
3,60				03600	30,06	30,06	03600	37,90	37,90	03600	37,90	37,90
3,70				03700	30,06	30,06	03700	37,90	37,90	03700	37,90	37,90
3,80				03800	30,06	30,06	03800	37,90	37,90	03800	37,90	37,90
3,85							03850	37,90	37,90	03850	37,90	37,90
3,90				03900	30,06	30,06	03900	37,90	37,90	03900	37,90	37,90
4,00				04000	30,06	30,06	04000	37,90	37,90	04000	37,90	37,90
4,10				04100	30,06	30,06	04100	37,90	37,90	04100	37,90	37,90
4,20				04200	30,06	30,06	04200	37,90	37,90	04200	37,90	37,90
4,30				04300	30,06	30,06	04300	37,90	37,90	04300	37,90	37,90
4,40				04400	30,06	30,06	04400	37,90	37,90	04400	37,90	37,90
4,50				04500	30,06	30,06	04500	37,90	37,90	04500	37,90	37,90
4,60				04600	30,06	30,06	04600	37,90	37,90	04600	37,90	37,90
4,65				04650	30,06	30,06	04650	37,90	37,90	04650	37,90	37,90
4,70				04700	30,06	30,06	04700	37,90	37,90	04700	37,90	37,90
4,80				04800	30,06	30,06	04800	37,90	37,90	04800	37,90	37,90
4,90				04900	30,06	30,06	04900	37,90	37,90	04900	37,90	37,90
5,00				05000	30,06	30,06	05000	37,90	37,90	05000	37,90	37,90
5,10				05100	30,06	30,06	05100	37,90	37,90	05100	37,90	37,90
5,20				05200	30,06	30,06	05200	37,90	37,90	05200	37,90	37,90
5,30				05300	30,06	30,06	05300	37,90	37,90	05300	37,90	37,90
5,40				05400	30,06	30,06	05400	37,90	37,90	05400	37,90	37,90
5,50				05500	30,06	30,06	05500	37,90	37,90	05500	37,90	37,90
5,55				05550	30,06	30,06	05550	37,90	37,90	05550	37,90	37,90
5,60				05600	30,06	30,06	05600	37,90	37,90	05600	37,90	37,90
5,65				05650	30,06	30,06	05650	37,90	37,90	05650	37,90	37,90
5,70				05700	30,06	30,06	05700	37,90	37,90	05700	37,90	37,90
5,80				05800	30,06	30,06	05800	37,90	37,90	05800	37,90	37,90
5,90				05900	30,06	30,06	05900	37,90	37,90	05900	37,90	37,90
6,00				06000	30,06	30,06	06000	37,90	37,90	06000	37,90	37,91
6,10				06100	30,54	30,54	06100	43,54	43,54	06100	43,54	43,54
6,20				06200	30,54	30,54	06200	43,54	43,54	06200	43,54	43,54
6,30				06300	30,54	30,54	06300	43,54	43,54	06300	43,54	43,54
6,40				06400	30,54	30,54	06400	43,54	43,54	06400	43,54	43,54
6,50				06500	30,54	30,54	06500	43,54	43,54	06500	43,54	43,54
6,60				06600	30,54	30,54	06600	43,54	43,54	06600	43,54	43,54
6,70				06700	30,54	30,54	06700	43,54	43,54	06700	43,54	43,54
6,80				06800	30,54	30,54	06800	43,54	43,54	06800	43,54	43,54
6,90				06900	30,54	30,54	06900	43,54	43,54	06900	43,54	43,54
7,00				07000	30,54	30,54	07000	43,54	43,54	07000	43,54	43,54
7,10				07100	30,54	30,54	07100	43,54	43,54	07100	43,54	43,54
7,20				07200	30,54	30,54	07200	43,54	43,54	07200	43,54	43,54
7,30				07300	30,54	30,54	07300	43,54	43,54	07300	43,54	43,54
7,40				07400	30,54	30,54	07400	43,54	43,54	07400	43,54	43,54
7,50				07500	30,54	30,54	07500	43,54	43,54	07500	43,54	43,54
7,55				07550	30,54	30,54	07550	43,54	43,54	07550	43,54	43,54
7,60				07600	30,54	30,54	07600	43,54	43,54	07600	43,54	43,54
7,65				07650	30,54	30,54	07650	43,54	43,54	07650	43,54	43,54
7,70				07700	30,54	30,54	07700	43,54	43,54	07700	43,54	43,54
7,80				07800	30,54	30,54	07800	43,54	43,54	07800	43,54	43,54
7,90				07900	30,54	30,54	07900	43,54	43,54	07900	43,54	43,54
8,00				08000	30,54	30,54	08000	43,54	43,54	08000	43,54	43,54
8,10				08100	33,66	33,66	08100	49,80	49,80	08100	49,80	49,80
8,20				08200	33,66	33,66	08200	49,80	49,80	08200	49,80	49,80
8,30				08300	33,66	33,66	08300	49,80	49,80	08300	49,80	49,80
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High Performance Drill, DIN 6537

Nett Prices

DC h7 mm		11 710 ...		11 709 ...		11 702 ...		11 703 ...					
		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR				
8,40		08400	33,66	33,66	08400	33,66	33,66	08400	49,80	49,80	08400	49,80	49,80
8,50		08500	33,66	33,66	08500	33,66	33,66	08500	49,80	49,80	08500	49,80	49,80
8,60		08600	33,66	33,66	08600	33,66	33,66	08600	49,80	49,80	08600	49,80	49,80
8,70		08700	33,66	33,66	08700	33,66	33,66	08700	49,80	49,80	08700	49,80	49,80
8,80		08800	33,66	33,66	08800	33,66	33,66	08800	49,80	49,80	08800	49,80	49,80
8,90		08900	33,66	33,66	08900	33,66	33,66	08900	49,80	49,80	08900	49,80	49,80
9,00		09000	33,66	33,66	09000	33,66	33,66	09000	49,80	49,80	09000	49,80	49,80
9,10		09100	33,66	33,66	09100	33,66	33,66	09100	49,80	49,80	09100	49,80	49,80
9,20		09200	33,66	33,66	09200	33,66	33,66	09200	49,80	49,80	09200	49,80	49,80
9,30		09300	33,66	33,66	09300	33,66	33,66	09300	49,80	49,80	09300	49,80	49,80
9,40		09400	33,66	33,66	09400	33,66	33,66	09400	49,80	49,80	09400	49,80	49,80
9,50		09500	33,66	33,66	09500	33,66	33,66	09500	49,80	49,80	09500	49,80	49,80
9,55								09550	49,80	49,80	09550	49,80	49,80
9,60		09600	33,66	33,66	09600	33,66	33,66	09600	49,80	49,80	09600	49,80	49,80
9,70		09700	33,66	33,66	09700	33,66	33,66	09700	49,80	49,80	09700	49,80	49,80
9,80		09800	33,66	33,66	09800	33,66	33,66	09800	49,80	49,80	09800	49,80	49,80
9,90		09900	33,66	33,66	09900	33,66	33,66	09900	49,80	49,80	09900	49,80	49,80
10,00		10000	33,66	33,66	10000	33,66	33,66	10000	49,80	49,80	10000	49,80	49,80
10,10		10100	50,30	50,30	10100	50,30	50,30	10100	74,07	74,07	10100	74,07	74,07
10,20		10200	50,30	50,30	10200	50,30	50,30	10200	74,07	74,07	10200	74,07	74,07
10,30		10300	50,30	50,30	10300	50,30	50,30	10300	74,07	74,07	10300	74,07	74,07
10,40		10400	50,30	50,30	10400	50,30	50,30	10400	74,07	74,07	10400	74,07	74,07
10,50		10500	50,30	50,30	10500	50,30	50,30	10500	74,07	74,07	10500	74,07	74,07
10,60		10600	50,30	50,30	10600	50,30	50,30	10600	74,07	74,07	10600	74,07	74,07
10,70		10700	50,30	50,30	10700	50,30	50,30	10700	74,07	74,07	10700	74,07	74,07
10,80		10800	50,30	50,30	10800	50,30	50,30	10800	74,07	74,07	10800	74,07	74,07
10,90		10900	50,30	50,30	10900	50,30	50,30	10900	74,07	74,07	10900	74,07	74,07
11,00		11000	50,30	50,30	11000	50,30	50,30	11000	74,07	74,07	11000	74,07	74,07
11,10		11100	50,30	50,30	11100	50,30	50,30	11100	74,07	74,07	11100	74,07	74,07
11,20		11200	50,30	50,30	11200	50,30	50,30	11200	74,07	74,07	11200	74,07	74,07
11,30		11300	50,30	50,30	11300	50,30	50,30	11300	74,07	74,07	11300	74,07	74,07
11,40		11400	50,30	50,30	11400	50,30	50,30	11400	74,07	74,07	11400	74,07	74,07
11,50		11500	50,30	50,30	11500	50,30	50,30	11500	74,07	74,07	11500	74,07	74,07
11,60		11600	50,30	50,30	11600	50,30	50,30	11600	74,07	74,07	11600	74,07	74,07
11,70		11700	50,30	50,30	11700	50,30	50,30	11700	74,07	74,07	11700	74,07	74,07
11,80		11800	50,30	50,30	11800	50,30	50,30	11800	74,07	74,07	11800	74,07	74,07
11,90		11900	50,30	50,30	11900	50,30	50,30	11900	74,07	74,07	11900	74,07	74,07
12,00		12000	50,30	50,30	12000	50,30	50,30	12000	74,07	74,07	12000	74,07	74,07
12,10		12100	66,01	66,01	12100	66,01	66,01	12100	94,45	94,45	12100	94,45	94,45
12,20		12200	66,01	66,01	12200	66,01	66,01	12200	94,45	94,45	12200	94,45	94,45
12,40								12400	94,45	94,45	12400	94,45	94,45
12,50		12500	66,01	66,01	12500	66,01	66,01	12500	94,45	94,45	12500	94,45	94,45
12,60								12600	94,45	94,45	12600	94,45	94,45
12,80		12800	66,01	66,01	12800	66,01	66,01	12800	94,45	94,45	12800	94,45	94,45
13,00		13000	66,01	66,01	13000	66,01	66,01	13000	94,45	94,45	13000	94,45	94,45
13,10								13100	94,45	94,45	13100	94,45	94,45
13,20		13200	66,01	66,01	13200	66,01	66,01	13200	94,45	94,45	13200	94,45	94,45
13,30								13300	94,45	94,45	13300	94,45	94,45
13,50		13500	66,01	66,01	13500	66,01	66,01	13500	94,45	94,45	13500	94,45	94,45
13,80		13800	66,01	66,01	13800	66,01	66,01	13800	94,45	94,45	13800	94,45	94,45
14,00		14000	66,01	66,01	14000	66,01	66,01	14000	94,45	94,45	14000	94,45	94,45
14,20		14200	85,87	85,87	14200	85,87	85,87	14200	121,20	121,20	14200	121,20	121,20
14,30								14300	121,20	121,20	14300	121,20	121,20
14,40		14400	85,87	85,87	14400	85,87	85,87	14400	121,20	121,20	14400	121,20	121,20
14,50		14500	85,87	85,87	14500	85,87	85,87	14500	121,20	121,20	14500	121,20	121,20
14,80		14800	85,87	85,87	14800	85,87	85,87	14800	121,20	121,20	14800	121,20	121,20
15,00		15000	85,87	85,87	15000	85,87	85,87	15000	121,20	121,20	15000	121,20	121,20
15,10								15100	121,20	121,20	15100	121,20	121,20
15,20		15200	85,87	85,87	15200	85,87	85,87	15200	121,20	121,20	15200	121,20	121,20
15,25								15250	121,20	121,20	15250	121,20	121,20
15,30								15300	121,20	121,20	15300	121,20	121,20
15,50		15500	85,87	85,87	15500	85,87	85,87	15500	121,20	121,20	155001		

High Performance Drill, factory standard

UNI



TiAIN



≤ 8xD



DIN 6537





HA



WNT \ Standard

UNI



TiAIN



≤ 12xD



DIN 6537





HA



WNT \ Standard

DC _{h7}	11 704 ...		11 705 ...	
	EUR	EUR	EUR	EUR
3,0	75,41	75,41	101,38	101,38
3,1	75,41	75,41	101,38	101,38
3,2	75,41	75,41	101,38	101,38
3,3	75,41	75,41	101,38	101,38
3,4	75,41	75,41	101,38	101,38
3,5	75,41	75,41	101,38	101,38
3,6	75,41	75,41	101,38	101,38
3,7	75,41	75,41	101,38	101,38
3,8	75,41	75,41	101,38	101,38
3,9	75,41	75,41	101,38	101,38
4,0	75,41	75,41	101,38	101,38
4,1	75,41	75,41	101,38	101,38
4,2	75,41	75,41	101,38	101,38
4,3	75,41	75,41	101,38	101,38
4,4	75,41	75,41	101,38	101,38
4,5	75,41	75,41	101,38	101,38
4,6	75,41	75,41	101,38	101,38
4,7	75,41	75,41	101,38	101,38
4,8	75,41	75,41	101,38	101,38
4,9	75,41	75,41	101,38	101,38
5,0	75,41	75,41	101,38	101,38
5,1	75,41	75,41	101,38	101,38
5,2	75,41	75,41	101,38	101,38
5,3	75,41	75,41	101,38	101,38
5,4	75,41	75,41	101,38	101,38
5,5	75,41	75,41	101,38	101,38
5,6	75,41	75,41	101,38	101,38
5,7	75,41	75,41	101,38	101,38
5,8	75,41	75,41	101,38	101,38
5,9	75,41	75,41	101,38	101,38
6,0	75,41	75,41	101,38	101,38
6,1	92,96	92,96	112,50	112,50
6,2	92,96	92,96	112,50	112,50
6,3	92,96	92,96	112,50	112,50
6,4	92,96	92,96	112,50	112,50
6,5	92,96	92,96	112,50	112,50
6,6	92,96	92,96	112,50	112,50
6,7	92,96	92,96	112,50	112,50
6,8	92,96	92,96	112,50	112,50
6,9	92,96	92,96	112,50	112,50
7,0	92,96	92,96	112,50	112,50
7,1	92,96	92,96	112,50	112,50
7,2	92,96	92,96	112,50	112,50
7,3	92,96	92,96	112,50	112,50
7,4	92,96	92,96	112,50	112,50
7,5	92,96	92,96	112,50	112,50
7,6	92,96	92,96	112,50	112,50
7,7	92,96	92,96	112,50	112,50
7,8	92,96	92,96	112,50	112,50
7,9	92,96	92,96	112,50	112,50
8,0	92,96	92,96	112,50	112,50
8,1	114,57	114,57	158,25	158,25
8,2	114,57	114,57	158,25	158,25
8,3	114,57	114,57	158,25	158,25
8,4	114,57	114,57	158,25	158,25
8,5	114,57	114,57	158,25	158,25
8,6	114,57	114,57	158,25	158,25
8,7	114,57	114,57	158,25	158,25
8,8	114,57	114,57	158,25	158,25
8,9	114,57	114,57	158,25	158,25
9,0	114,57	114,57	158,25	158,25
9,1	114,57	114,57	158,25	158,25
9,2	114,57	114,57	158,25	158,25
9,3	114,57	114,57	158,25	158,25
9,4	114,57	114,57	158,25	158,25
9,5	114,57	114,57	158,25	158,25
9,6	114,57	114,57	158,25	158,25
9,7	114,57	114,57	158,25	158,25
9,8	114,57	114,57	158,25	158,25
9,9	114,57	114,57	158,25	158,25
10,0	114,57	114,57	158,25	158,25
10,2	152,15	152,15	217,97	217,97
10,5	152,15	152,15	217,97	217,97
10,8	152,15	152,15	217,97	217,97
11,0	152,15	152,15	217,97	217,97
11,5	152,15	152,15	217,97	217,97
11,8	152,15	152,15	217,97	217,97
12,0	152,15	152,15	217,97	217,97
12,2	228,11	228,11	290,90	290,90
12,5	228,11	228,11	290,90	290,90
12,7	228,11	228,11	290,90	290,90
12,8	228,11	228,11	290,90	290,90
13,0	228,11	228,11	290,90	290,90
13,5	228,11	228,11	290,90	290,90
13,8	228,11	228,11	290,90	290,90
14,0	228,11	228,11	290,90	290,90
14,5	298,08	298,08	370,01	370,01
14,8	298,08	298,08	370,01	370,01
15,0	298,08	298,08	370,01	370,01
15,5	298,08	298,08	370,01	370,01
15,8	298,08	298,08	370,01	370,01
16,0	298,08	298,08	370,01	370,01
16,5	386,16	386,16	441,95	441,95
17,0	386,16	386,16	441,95	441,95
17,5	386,16	386,16	441,95	441,95
18,0	386,16	386,16	441,95	441,95
18,5	429,94	429,94	441,95	441,95
19,0	429,94	429,94	441,95	441,95
19,5	429,94	429,94	441,95	441,95
20,0	429,94	429,94	441,95	441,95
P	•	•	•	•
M	•	•	•	•
K	•	•	•	•
N	•	•	•	•
S	•	•	•	•
H	•	•	•	•
O	•	•	•	•

NC Spot Drill, factory standard

NC-A

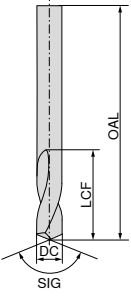


HA



SIG=142°

WNT \ Standard



Nett Prices

DC _{h5}	OAL	LCF
mm	mm	mm
2	32	6
3	32	8
4	40	10
5	50	13
6	50	13
8	60	23
10	70	24
12	70	24
14	75	26
16	75	29
18	100	35
20	100	35

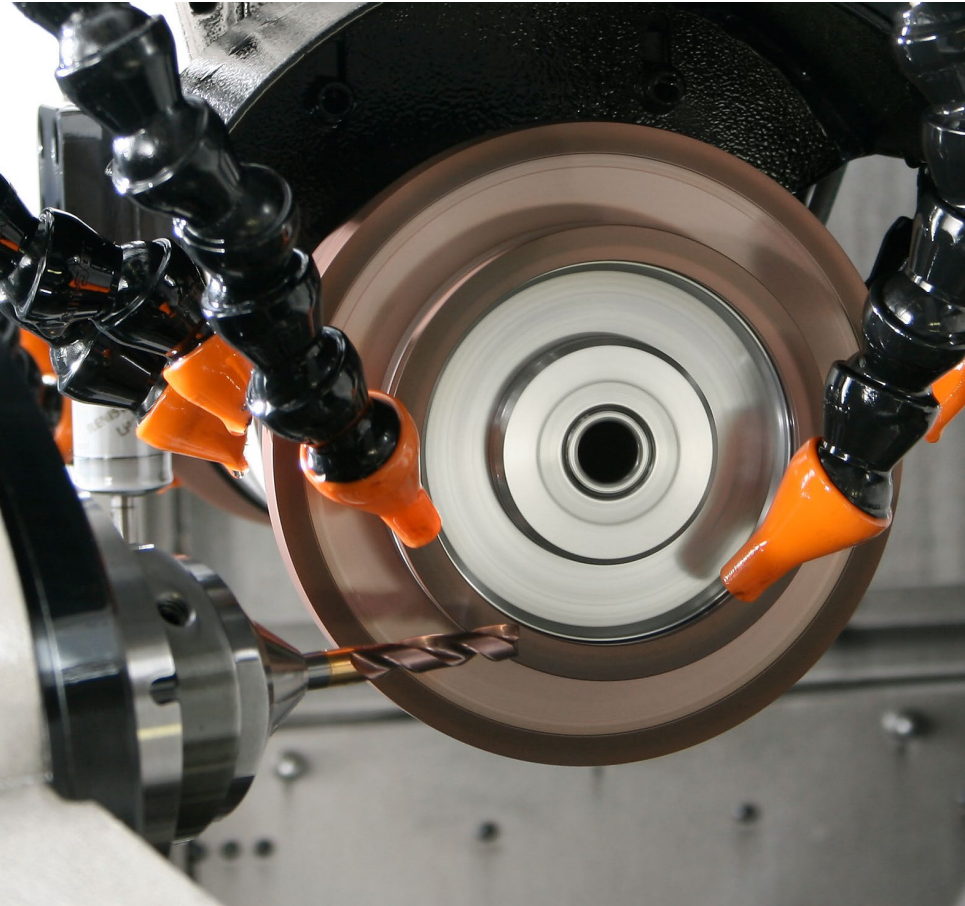
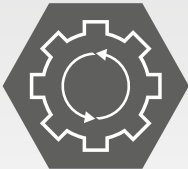
10 704 ...		
	EUR	EUR
002	14,73	14,73
003	14,73	14,73
004	16,42	16,42
005	18,82	18,82
006	20,95	20,95
008	32,33	32,33
010	45,40	45,40
012	61,21	61,21
014	89,95	89,95
016	111,06	111,06
018	209,48	209,48
020	196,44	196,44

P	•
M	•
K	•
N	•
S	•
H	•
O	•

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3 time served engineers,
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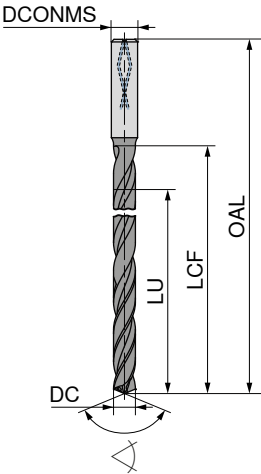
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WTX – High performance deep hole drills

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



WNT \ Performance



Nett Prices

DC h7 mm	11 016 ...		11 017 ...		11 020 ...		11 021 ...		
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	
2,0	020	132,89	132,89	020	132,89	132,89	020	141,28	141,28
2,2	022	132,89	132,89	022	132,89	132,89	022	141,28	141,28
2,3	023	132,89	132,89	023	132,89	132,89	023	141,28	141,28
2,4	024	148,63	148,63	024	148,63	148,63	024	156,91	156,91
2,5	025	148,63	148,63	025	148,63	148,63	025	156,91	156,91
2,7	027	148,63	148,63	027	148,63	148,63	027	156,91	156,91
2,8	028	148,63	148,63	028	148,63	148,63	028	156,91	156,91
3,0	030	189,20	189,20	030	189,20	189,20	030	210,83	210,83
3,2	032	189,20	189,20	032	189,20	189,20	032	210,83	210,83
3,3	033	189,20	189,20	033	189,20	189,20	033	210,83	210,83
3,5	035	189,20	189,20	035	189,20	189,20	035	210,83	210,83
3,8	038	197,58	197,58	038	197,58	197,58	038	219,32	219,32
4,0	040	197,58	197,58	040	197,58	197,58	040	219,32	219,32
4,2	042	212,07	212,07	042	212,07	212,07	042	235,98	235,98
4,5	045	212,07	212,07	045	212,07	212,07	045	235,98	235,98
4,8	048	223,97	223,97	048	223,97	223,97	048	249,23	249,23
5,0	050	223,97	223,97	050	223,97	223,97	050	249,23	249,23
5,5	055	234,74	234,74	055	234,74	234,74	055	259,89	259,89
5,8	058	234,74	234,74	058	234,74	234,74	058	259,89	259,89
6,0	060	234,74	234,74	060	234,74	234,74	060	259,89	259,89
6,5	065	249,23	249,23	065	249,23	249,23	065	277,90	277,90
6,8	068	268,38	268,38	068	268,38	268,38	068	298,29	298,29
7,0	070	268,38	268,38	070	268,38	268,38	070	298,29	298,29
7,5	075	299,53	299,53	075	299,53	299,53	075	332,96	332,96
7,8	078	299,53	299,53	078	299,53	299,53	078	332,96	332,96
8,0	080	299,53	299,53	080	299,53	299,53	080	332,96	332,96
8,5	085	330,58	330,58	085	330,58	330,58	085	366,60	366,60
8,8	088	369,08	369,08	088	369,08	369,08	088	412,03	412,03
9,0	090	369,08	369,08	090	369,08	369,08	090	412,03	412,03
9,8	098	369,08	369,08	098	369,08	369,08	098	412,03	412,03
10,0	100	369,08	369,08	100	369,08	369,08	100	412,03	412,03
10,2	102	412,03	412,03	102	412,03	412,03	102	452,71	452,71
10,8	108	412,03	412,03	108	412,03	412,03	108	452,71	452,71
11,8	118	412,03	412,03	118	412,03	412,03	118	452,71	452,71
12,0	120	412,03	412,03	120	412,03	412,03	120	452,71	452,71
P	●				●				
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K	●				●				
N			●				●		
S	○				○				
H									
O									

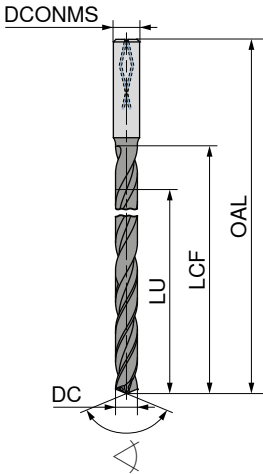


WTX – High performance deep hole drills

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



WNT \ Performance



Nett Prices

DC fg6/h7 mm	11 025 ...		11 026 ...		11 030 ...		11 031 ...		11 040 ...		11 050 ...	
	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
2,0	020	149,76 149,76	020	149,76 149,76	020	160,63 160,63	020	160,63 160,63			030	540,27 540,27
2,2	022	149,76 149,76	022	149,76 149,76	022	160,63 160,63	022	160,63 160,63				
2,3	023	149,76 149,76	023	149,76 149,76	023	160,63 160,63	023	160,63 160,63				
2,4	024	171,29 171,29	024	171,29 171,29	024	185,78 185,78	024	185,78 185,78				
2,5	025	171,29 171,29	025	171,29 171,29	025	185,78 185,78	025	185,78 185,78				
2,7	027	171,29 171,29	027	171,29 171,29	027	185,78 185,78	027	185,78 185,78				
2,8	028	171,29 171,29	028	171,29 171,29	028	185,78 185,78	028	185,78 185,78				
3,0	030	244,47 244,47	030	244,47 244,47	030	313,81 313,81	030	313,81 313,81	030	397,65 397,65		
3,2	032	244,47 244,47	032	244,47 244,47	032	313,81 313,81	032	313,81 313,81				
3,3	033	271,89 271,89	033	271,89 271,89	033	322,20 322,20	033	322,20 322,20				
3,5	035	271,89 271,89	035	271,89 271,89	035	322,20 322,20	035	322,20 322,20				
3,8	038	279,04 279,04	038	279,04 279,04	038	322,20 322,20	038	322,20 322,20				
4,0	040	279,04 279,04	040	279,04 279,04	040	322,20 322,20	040	322,20 322,20	040	397,65 397,65	040	540,27 540,27
4,2	042	279,04 279,04	042	279,04 279,04	042	322,20 322,20	042	322,20 322,20	042	439,67 439,67	042	601,34 601,34
4,5	045	291,04 291,04	045	291,04 291,04	045	331,82 331,82	045	331,82 331,82	045	439,67 439,67	045	601,34 601,34
4,8	048	291,04 291,04	048	291,04 291,04	048	331,82 331,82	048	331,82 331,82	048	469,58 469,58	048	679,17 679,17
5,0	050	291,04 291,04	050	291,04 291,04	050	331,82 331,82	050	331,82 331,82	050	469,58 469,58	050	679,17 679,17
5,5	055	312,67 312,67	055	312,67 312,67	055	347,35 347,35	055	347,35 347,35	055	505,49 505,49	055	764,14 764,14
5,8	058	312,67 312,67	058	312,67 312,67	058	347,35 347,35	058	347,35 347,35	058	505,49 505,49	058	775,01 775,01
6,0	060	312,67 312,67	060	312,67 312,67	060	347,35 347,35	060	347,35 347,35	060	505,49 505,49	060	775,01 775,01
6,5	065	348,48 348,48	065	348,48 348,48	065	383,26 383,26	065	383,26 383,26	065	543,69 543,69	065	861,22 861,22
6,8	068	348,48 348,48	068	348,48 348,48	068	397,65 397,65	068	397,65 397,65	068	543,69 543,69	068	934,29 934,29
7,0	070	348,48 348,48	070	348,48 348,48	070	397,65 397,65	070	397,65 397,65	070	543,69 543,69		
7,5	075	388,13 388,13	075	388,13 388,13	075	397,65 397,65	075	397,65 397,65	075	604,85 604,85		
7,8	078	388,13 388,13	078	388,13 388,13	078	443,19 443,19	078	443,19 443,19	078	604,85 604,85		
8,0	080	388,13 388,13	080	388,13 388,13	080	443,19 443,19	080	443,19 443,19	080	604,85 604,85		
8,5	085	435,94 435,94	085	435,94 435,94	085	511,39 511,39	085	511,39 511,39	085	666,13 666,13		
8,8	088	474,24 474,24	088	474,24 474,24	088	537,68 537,68	088	537,68 537,68	088	666,13 666,13		
9,0	090	474,24 474,24	090	474,24 474,24	090	537,68 537,68	090	537,68 537,68	090	666,13 666,13		
9,8	098	474,24 474,24	098	474,24 474,24	098	537,68 537,68	098	537,68 537,68				
10,0	100	474,24 474,24	100	474,24 474,24	100	537,68 537,68	100	537,68 537,68				
10,2	102	570,08 570,08	102	570,08 570,08	102	686,41 686,41	102	686,41 686,41				
10,8	108	570,08 570,08	108	570,08 570,08	108	686,41 686,41	108	686,41 686,41				
11,8	118	570,08 570,08	118	570,08 570,08	118	686,41 686,41	118	686,41 686,41				
12,0	120	570,08 570,08	120	570,08 570,08	120	686,41 686,41	120	686,41 686,41				
P		●		●		●		●		●		●
M		●		●		●		●		●		●
K		●		●		●		●		●		●
N			●				●				●	
S		○				○				○		○
H												
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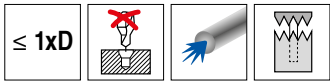
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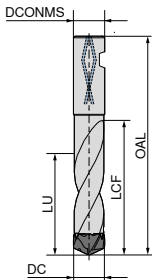
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WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance

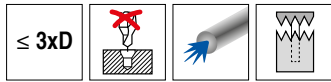


DC	DCONMS _{h6}	OAL	LCF	LU
mm	mm	mm	mm	mm
12,00 - 12,49	14	81	29	12,5
12,50 - 12,99	14	81	29	13,0
13,00 - 13,49	14	81	31	13,5
13,50 - 13,99	16	86	32	14,0
14,00 - 14,49	16	86	33	14,5
14,50 - 14,99	16	91	34	15,0
15,00 - 15,49	16	91	36	15,5
15,50 - 16,49	20	97	38	16,5
15,50 - 16,49	18	92	38	16,5
16,50 - 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

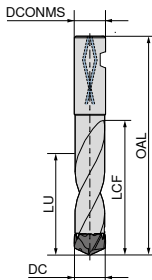
10 911 ...		
	EUR	EUR
120	212,38	144,00
125	212,38	144,00
130	212,38	144,00
135	212,38	144,00
140	212,38	144,00
145	212,38	144,00
150	212,38	144,00
161	229,14	149,00
160	229,14	149,00
166	229,14	149,00
165	229,14	149,00
176	229,14	149,00
175	229,14	149,00
185	269,41	176,00
195	269,41	176,00
205	287,32	194,00
215	287,32	194,00
225	316,26	213,00
235	316,26	213,00
245	341,06	231,00
255	341,06	231,00
265	341,06	231,00
275	341,06	231,00
285	386,82	268,00
295	386,82	268,00
305	439,22	296,00
315	439,22	296,00
325	471,75	319,00
335	471,75	319,00
345	471,75	319,00
355	544,41	368,00
375	569,45	381,00
395	577,84	391,00

WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance

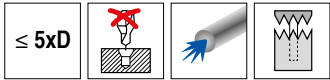


DC	DCONMS _{h6}	OAL	LCF	LU
mm	mm	mm	mm	mm
12,00 - 12,49	14	100	53	38,0
12,50 - 12,99	14	105	55	39,0
13,00 - 13,49	14	105	57	40,0
13,50 - 13,99	16	110	59	42,0
14,00 - 14,49	16	115	61	43,0
14,50 - 14,99	16	115	63	45,0
15,00 - 15,49	16	115	65	46,0
15,50 - 16,49	20	125	70	50,0
15,50 - 16,49	18	120	70	50,0
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

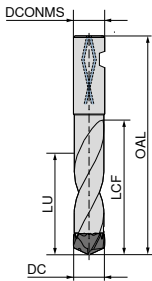
10 913 ...		
	EUR	EUR
120	234,74	159,00
125	234,74	159,00
130	234,74	159,00
135	234,74	159,00
140	234,74	159,00
145	234,74	159,00
150	234,74	159,00
161	249,43	163,00
160	249,43	163,00
166	249,43	163,00
165	249,43	163,00
176	249,43	163,00
175	249,43	163,00
185	287,32	194,00
195	287,32	194,00
205	319,71	216,00
215	319,71	216,00
225	349,69	236,00
235	349,69	236,00
245	389,16	257,00
255	389,16	257,00
265	389,16	257,00
275	389,16	257,00
285	449,39	298,00
295	449,39	298,00
305	486,35	329,00
315	486,35	329,00
325	559,00	372,00
335	559,00	372,00
345	559,00	372,00
355	631,66	427,00
375	656,29	444,00
395	671,82	454,00

WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance

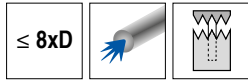


DC	DCONMS _{h6}	OAL	LCF	LU
mm	mm	mm	mm	mm
12,00 - 12,49	14	125	78	62,0
12,50 - 12,99	14	130	81	65,0
13,00 - 13,49	14	130	84	67,0
13,50 - 13,99	16	140	88	70,0
14,00 - 14,49	16	140	90	72,0
14,50 - 14,99	16	145	94	75,0
15,00 - 15,49	16	145	96	77,0
15,50 - 16,49	20	160	103	82,0
15,50 - 16,49	18	155	103	82,0
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

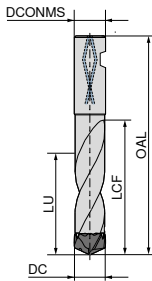
10 915 ...		
	EUR	EUR
120	267,13	181,00
125	267,13	181,00
130	267,13	181,00
135	267,13	181,00
140	267,13	181,00
145	267,13	181,00
150	267,13	181,00
161	287,32	194,00
160	287,32	194,00
166	287,32	194,00
165	287,32	194,00
176	287,32	194,00
175	287,32	194,00
185	334,29	226,00
195	334,29	226,00
205	364,42	246,00
215	364,42	246,00
225	394,64	267,00
235	394,64	267,00
245	423,63	287,00
255	423,63	287,00
265	423,63	287,00
275	423,63	287,00
285	486,35	329,00
295	486,35	329,00
305	539,85	359,00
315	539,85	359,00
325	621,62	420,00
335	621,62	420,00
345	621,62	420,00
355	699,73	473,00
375	725,43	491,00
395	741,16	501,00

WTX – Holder for Exchangeable drills

▲ with radial teeth



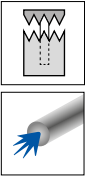
WNT \ Performance



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

WTX – Drilling Head for Exchangeable drills

▲ extra long head type



Change
UNI

DPX74S

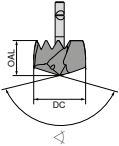
Change
VA

Ti700

Change
AL

TiB

Nett Prices



140°
Solid carbide
WNT \ Performance



138°
Solid carbide
WNT \ Performance



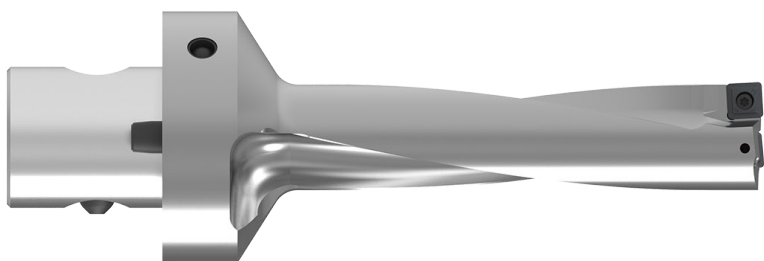
140°
Solid carbide
WNT \ Performance

DC h7/mm7	OAL mm	10 919 ...		10 921 ...		10 922 ...	
		EUR	EUR	EUR	EUR	EUR	EUR
12,0	10,7	12000	89,95 89,95	120	89,95 89,95	120	89,95 89,95
12,1	10,7	12100	89,95 89,95	121	89,95 89,95	121	89,95 89,95
12,2	10,7	12200	89,95 89,95	122	89,95 89,95	122	89,95 89,95
12,3	10,7	12300	89,95 89,95	123	89,95 89,95	123	89,95 89,95
12,4	10,7	12400	89,95 89,95	124	89,95 89,95	124	89,95 89,95
12,5	10,7	12500	89,95 89,95	125	89,95 89,95	125	89,95 89,95
12,6	10,7	12600	89,95 89,95	126	89,95 89,95	126	89,95 89,95
12,7	10,7	12700	89,95 89,95	127	89,95 89,95	127	89,95 89,95
12,8	10,7	12800	89,95 89,95	128	89,95 89,95	128	89,95 89,95
12,9	10,7	12900	89,95 89,95	129	89,95 89,95	129	89,95 89,95
13,0	10,7	13000	89,95 89,95	130	89,95 89,95	130	89,95 89,95
13,1	10,7	13100	89,95 89,95	131	89,95 89,95	131	89,95 89,95
13,2	10,7	13200	89,95 89,95	132	89,95 89,95	132	89,95 89,95
13,3	10,7	13300	89,95 89,95	133	89,95 89,95	133	89,95 89,95
13,4	10,7	13400	89,95 89,95	134	89,95 89,95	134	89,95 89,95
13,5	11,3	13500	89,95 89,95	135	89,95 89,95	135	89,95 89,95
13,6	11,3	13600	89,95 89,95	136	89,95 89,95	136	89,95 89,95
13,7	11,3	13700	89,95 89,95	137	89,95 89,95	137	89,95 89,95
13,8	11,3	13800	89,95 89,95	138	89,95 89,95	138	89,95 89,95
13,9	11,3	13900	89,95 89,95	139	89,95 89,95	139	89,95 89,95
14,0	11,3	14000	89,95 89,95	140	89,95 89,95	140	89,95 89,95
14,1	11,3	14100	89,95 89,95	141	89,95 89,95	141	89,95 89,95
14,2	11,3	14200	89,95 89,95	142	89,95 89,95	142	89,95 89,95
14,3	11,3	14300	89,95 89,95	143	89,95 89,95	143	89,95 89,95
14,4	11,3	14400	89,95 89,95	144	89,95 89,95	144	89,95 89,95
14,5	11,3	14500	89,95 89,95	145	89,95 89,95	145	89,95 89,95
14,6	11,3	14600	89,95 89,95	146	89,95 89,95	146	89,95 89,95
14,7	11,3	14700	89,95 89,95	147	89,95 89,95	147	89,95 89,95
14,8	11,3	14800	89,95 89,95	148	89,95 89,95	148	89,95 89,95
14,9	11,3	14900	89,95 89,95	149	89,95 89,95	149	89,95 89,95
15,0	11,3	15000	89,95 89,95	150	89,95 89,95	150	89,95 89,95
15,1	11,3	15100	89,95 89,95	151	89,95 89,95	151	89,95 89,95
15,2	11,3	15200	89,95 89,95	152	89,95 89,95	152	89,95 89,95
15,3	11,3	15300	89,95 89,95	153	89,95 89,95	153	89,95 89,95
15,4	11,3	15400	89,95 89,95	154	89,95 89,95	154	89,95 89,95
15,5	11,9	15500	89,95 89,95	155	89,95 89,95	155	89,95 89,95
15,6	11,9	15600	93,91 93,91	156	93,91 93,91	156	93,91 93,91
15,7	11,9	15700	93,91 93,91	157	93,91 93,91	157	93,91 93,91
15,8	11,9	15800	93,91 93,91	158	93,91 93,91	158	93,91 93,91
15,9	11,9	15900	93,91 93,91	159	93,91 93,91	159	93,91 93,91
16,0	11,9	16000	93,91 93,91	160	93,91 93,91	160	93,91 93,91
16,1	11,9	16100	93,91 93,91	161	93,91 93,91	161	93,91 93,91
16,2	11,9	16200	93,91 93,91	162	93,91 93,91	162	93,91 93,91
16,3	11,9	16300	93,91 93,91	163	93,91 93,91	163	93,91 93,91
16,4	11,9	16400	93,91 93,91	164	93,91 93,91	164	93,91 93,91
16,5	13,4	16500	93,91 93,91	165	93,91 93,91	165	93,91 93,91
16,6	13,4	16600	93,91 93,91	166	93,91 93,91	166	93,91 93,91
16,7	13,4	16700	93,91 93,91	167	93,91 93,91	167	93,91 93,91
16,8	13,4	16800	93,91 93,91	168	93,91 93,91	168	93,91 93,91
16,9	13,4	16900	93,91 93,91	169	93,91 93,91	169	93,91 93,91
17,0	13,4	17000	93,91 93,91	170	93,91 93,91	170	93,91 93,91
17,1	13,4	17100	93,91 93,91	171	93,91 93,91	171	93,91 93,91
17,2	13,4	17200	93,91 93,91	172	93,91 93,91	172	93,91 93,91
17,3	13,4	17300	93,91 93,91	173	93,91 93,91	173	93,91 93,91
17,4	13,4	17400	93,91 93,91	174	93,91 93,91	174	93,91 93,91
17,5	13,4	17500	93,91 93,91	175	93,91 93,91	175	93,91 93,91
17,6	13,4	17600	93,91 93,91	176	93,91 93,91	176	93,91 93,91
17,7	13,4	17700	93,91 93,91	177	93,91 93,91	177	93,91 93,91
17,8	13,4	17800	93,91 93,91	178	93,91 93,91	178	93,91 93,91
17,9	13,4	17900	93,91 93,91	179	93,91 93,91	179	93,91 93,91
18,0	13,4	18000	93,91 93,91	180	93,91 93,91	180	93,91 93,91
18,1	13,4	18100	101,69 101,69	181	101,69 101,69	181	101,69 101,69
18,2	13,4	18200	101,69 101,69	182	101,69 101,69	182	101,69 101,69
18,3	13,4	18300	101,69 101,69	183	101,69 101,69	183	101,69 101,69
18,4	13,4	18400	101,69 101,69	184	101,69 101,69	184	101,69 101,69
18,5	13,4	18500	101,69 101,69	185	101,69 101,69	185	101,69 101,69
18,6	13,4	18600	101,69 101,69	186	101,69 101,69	186	101,69 101,69
18,7	13,4	18700	101,69 101,69	187	101,69 101,69	187	101,69 101,69
18,8	13,4	18800	101,69 101,69	188	101,69 101,69	188	101,69 101,69
18,9	13,4	18900	101,69 101,69	189	101,69 101,69	189	101,69 101,69
19,0	13,4	19000	101,69 101,69	190	101,69 101,69	190	101,69 101,69
19,1	13,4	19100	101,69 101,69	191	101,69 101,69	191	101,69 101,69
19,2	13,4	19200	101,69 101,69	192	101,69 101,69	192	101,69 101,69
19,3	13,4	19300	101,69 101,69	193	101,69 101,69	193	101,69 101,69
19,4	13,4	19400	101,69 101,69	194	101,69 101,69	194	101,69 101,69
19,5	13,4	19500	101,69 101,69	195	101,69 101,69	195	101,69 101,69
19,6	13,4	19600	101,69 101,69	196	101,69 101,69	196	101,69 101,69
19,7	13,4	19700	101,69 101,69	197	101,69 101,69	197	101,69 101,69
19,8	13,4	19800	101,69 101,69	198	101,69 101,69	198	101,69 101,69
19,9	13,4	19900	101,69 101,69	199	101,69 101,69	199	101,69 101,69
20,0	13,4	20000	101,69 101,69	200	101,69 101,69	200	101,69 101,69
20,1	13,4	20100	112,82 112,82	201	112,82 112,82	201	112,82 112,82
20,2	13,4	20200	112,82 112,82	202	112,82 112,82	202	112,82 112,82
20,3	13,4	20300	112,82 112,82	203	112,82 112,82	203	112,82 112,82
20,4	13,4	20400	112,82 112,82	204	112,82 112,82	204	112,82 112,82
20,5	15,4	20500	112,82 112,82	205	112,82 112,82	205	112,82 112,82
20,6	15,4	20600	112,82 112,82	206	112,82 112,82	206	112,82 112,82
20,7	15,4	20700	112,82 112,82	207	112,82 112,82	207	112,82 112,82
20,8	15,4	20800	112,82 112,82	208	112,82 112,82	208	112,82 112,82
20,9	15,4	20900	112,82 112,82	209	112,82 112,82	209	112,82 112,82
21,0	15,4	21000	112,82 112,82	210	112,82 112,82	210	112,82 112,82
21,1	15,4	21100	112,82 112,82	211	112,82 112,82	211	112,82 112,82
21,2	15,4	21200	112,82 112,82	212	112,82 112,82	212	112,82 112,82
21,3	15,4	21300	112,82 112,82	213	112,82 112,82	213	112,82 112,82
21,4	15,4	21400	112,82 112,82	214	112,82 112,82	214	112,82 112,82
21,5	15,4	21500	112,82 112,82	215	112,82 112,82	215	

INDEXABLE INSERT DRILLS



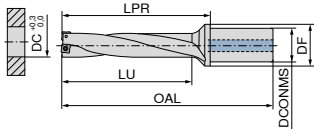
MaxiDrill 900 – the first choice for the vast majority of indexable insert drilling applications in all materials.



KUB Pentron – high performance problem solver with large selection of drill diameters and lengths, and insert grades – see catalogue for full programme.

MaxiDrill 900 – Indexable insert drill

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



≤ 2xD

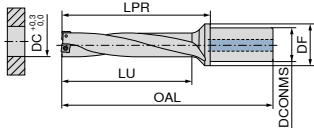
 KOMET \ Performance

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ...		
								EUR	EUR	EUR
MD900.2D.120.R.03-C20	12,0	28	20	90	24	40	SONT 031804	120	259,89	126,00
MD900.2D.125.R.03-C20	12,5	28	20	91	25	41	SONT 031804	125	259,89	126,00
MD900.2D.130.R.03-C20	13,0	28	20	92	26	42	SONT 031804	130	259,89	126,00
MD900.2D.135.R.03-C20	13,5	28	20	93	27	43	SONT 031804	135	259,89	126,00
MD900.2D.140.R.04-C20	14,0	30	20	96	28	46	SONT 042105	140	276,66	134,00
MD900.2D.145.R.04-C20	14,5	30	20	97	29	47	SONT 042105	145	276,66	134,00
MD900.2D.150.R.04-C20	15,0	30	20	98	30	48	SONT 042105	150	276,66	134,00
MD900.2D.155.R.04-C20	15,5	30	20	99	31	49	SONT 042105	155	276,66	134,00
MD900.2D.160.R.05-C20	16,0	30	20	100	32	50	SONT 052306	160	276,66	134,00
MD900.2D.165.R.05-C20	16,5	30	20	101	33	51	SONT 052306	165	276,66	134,00
MD900.2D.170.R.05-C20	17,0	30	20	102	34	52	SONT 052306	170	294,46	142,00
MD900.2D.175.R.05-C20	17,5	30	20	103	35	53	SONT 052306	175	294,46	142,00
MD900.2D.180.R.06-C25	18,0	32	25	111	36	55	SONT 062506	180	294,46	142,00
MD900.2D.185.R.06-C25	18,5	32	25	112	37	56	SONT 062506	185	294,46	142,00
MD900.2D.190.R.06-C25	19,0	32	25	113	38	57	SONT 062506	190	316,40	153,00
MD900.2D.195.R.06-C25	19,5	32	25	114	39	58	SONT 062506	195	316,40	153,00
MD900.2D.200.R.06-C25	20,0	32	25	115	40	59	SONT 062506	200	316,40	153,00
MD900.2D.205.R.06-C25	20,5	32	25	116	41	60	SONT 062506	205	316,40	153,00
MD900.2D.210.R.07-C25	21,0	32	25	118	42	62	SONT 072907	210	316,40	153,00
MD900.2D.220.R.07-C25	22,0	32	25	120	44	64	SONT 072907	220	316,40	153,00
MD900.2D.230.R.07-C25	23,0	32	25	122	46	66	SONT 072907	230	326,34	158,00
MD900.2D.240.R.08-C32	24,0	40	32	132	48	72	SONT 083308	240	326,34	158,00
MD900.2D.250.R.08-C32	25,0	40	32	134	50	74	SONT 083308	250	326,34	158,00
MD900.2D.260.R.08-C32	26,0	40	32	136	52	76	SONT 083308	260	361,92	175,00
MD900.2D.270.R.08-C32	27,0	40	32	138	54	78	SONT 083308	270	361,92	175,00
MD900.2D.280.R.09-C32	28,0	40	32	140	56	80	SONT 093808	280	361,92	175,00
MD900.2D.290.R.09-C32	29,0	40	32	142	58	82	SONT 093808	290	361,92	175,00
MD900.2D.300.R.09-C32	30,0	40	32	144	60	84	SONT 093808	300	361,92	175,00
MD900.2D.310.R.09-C32	31,0	40	32	146	62	86	SONT 093808	310	394,85	189,00
MD900.2D.320.R.09-C32	32,0	40	32	148	64	88	SONT 093808	320	394,85	189,00
MD900.2D.330.R.10-C40	33,0	50	40	163	66	93	SONT 104408	330	394,85	189,00
MD900.2D.340.R.10-C40	34,0	50	40	165	68	95	SONT 104408	340	394,85	189,00

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ...		
								EUR	EUR	EUR
MD900.2D.350.R.10-C40	35,0	50	40	167	70	97	SONT 104408	350	400,75	194,00
MD900.2D.360.R.10-C40	36,0	50	40	169	72	99	SONT 104408	360	400,75	194,00
MD900.2D.370.R.12-C40	37,0	56	40	174	74	104	SONT 124810	370	413,69	200,00
MD900.2D.380.R.12-C40	38,0	56	40	176	76	106	SONT 124810	380	413,69	200,00
MD900.2D.390.R.12-C40	39,0	56	40	178	78	108	SONT 124810	390	413,69	200,00
MD900.2D.400.R.12-C40	40,0	56	40	180	80	110	SONT 124810	400	413,69	200,00
MD900.2D.410.R.12-C40	41,0	56	40	182	82	112	SONT 124810	410	413,69	200,00
MD900.2D.420.R.13-C40	42,0	60	40	187	84	117	SONT 135012	420	434,60	210,00
MD900.2D.430.R.13-C40	43,0	60	40	189	86	119	SONT 135012	430	434,60	210,00
MD900.2D.440.R.13-C40	44,0	60	40	191	88	121	SONT 135012	440	434,60	210,00
MD900.2D.450.R.13-C40	45,0	60	40	193	90	123	SONT 135012	450	434,60	210,00
MD900.2D.460.R.13-C40	46,0	60	40	195	92	125	SONT 135012	460	434,60	210,00
MD900.2D.470.R.15-C40	47,0	60	40	198	94	128	SONT 155312	470	456,64	221,00
MD900.2D.480.R.15-C40	48,0	60	40	200	96	130	SONT 155312	480	456,64	221,00
MD900.2D.490.R.15-C40	49,0	60	40	202	98	132	SONT 155312	490	492,66	238,00
MD900.2D.500.R.15-C40	50,0	60	40	204	100	134	SONT 155312	500	492,66	238,00
MD900.2D.510.R.15-C40	52,0	60	40	208	104	138	SONT 155312	520	505,90	244,00
MD900.2D.520.R.15-C40	51,0	60	40	206	102	136	SONT 155312	510	505,90	244,00
MD900.2D.530.R.15-C40	53,0	60	40	210	106	140	SONT 155312	530	505,90	244,00
MD900.2D.540.R.15-C40	54,0	60	40	212	108	142	SONT 155312	540	505,90	244,00
MD900.2D.550.R.17-C40	55,0	60	40	215	110	145	SONT 175612	550	505,90	244,00
MD900.2D.560.R.17-C40	56,0	60	40	217	112	147	SONT 175612	560	524,43	253,00
MD900.2D.570.R.17-C40	57,0	60	40	219	114	149	SONT 175612	570	524,43	253,00
MD900.2D.580.R.17-C40	58,0	60	40	221	116	151	SONT 175612	580	524,43	253,00
MD900.2D.590.R.17-C40	59,0	60	40	223	118	153	SONT 175612	590	524,43	253,00
MD900.2D.600.R.17-C40	60,0	62	40	225	120	155	SONT 175612	600	524,43	253,00
MD900.2D.610.R.17-C40	61,0	62	40	227	122	157	SONT 175612	610	524,43	253,00
MD900.2D.620.R.17-C40	62,0	64	40	229	124	159	SONT 175612	620	524,43	253,00
MD900.2D.630.R.17-C40	63,0	64	40	231	126	161	SONT 175612	630	524,43	253,00

MaxiDrill 900 – Indexable insert drill

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



≤ 3xD

 KOMET \ Performance

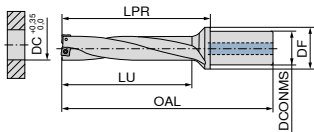
TCS

Ø 16-40 mm

Designation	DC	DF	DCONMS	OAL	LU	LPR	Insert	10 853 ...		
	mm	mm	mm	mm	mm	mm		EUR	EUR	
MD900.3D.120.R.03-C20	12,0	28	20	102	36,0	52	SONT 031804	120	276,86	134,00
MD900.3D.125.R.03-C20	12,5	28	20	104	37,5	54	SONT 031804	125	276,86	134,00
MD900.3D.130.R.03-C20	13,0	28	20	105	39,0	55	SONT 031804	130	276,86	134,00
MD900.3D.135.R.03-C20	13,5	28	20	107	40,5	57	SONT 031804	135	276,86	134,00
MD900.3D.140.R.04-C20	14,0	30	20	109	42,0	59	SONT 042105	140	294,66	141,00
MD900.3D.145.R.04-C20	14,5	30	20	111	44,0	61	SONT 042105	145	294,66	141,00
MD900.3D.150.R.04-C20	15,0	30	20	112	45,0	62	SONT 042105	150	294,66	141,00
MD900.3D.155.R.04-C20	15,5	30	20	114	47,0	64	SONT 042105	155	298,49	144,00
MD900.3D.160.R.05-C20	16,0	30	20	115	48,0	65	SONT 052306	160	298,49	144,00
MD900.3D.165.R.05-C20	16,5	30	20	117	50,0	67	SONT 052306	165	298,49	144,00
MD900.3D.170.R.05-C20	17,0	30	20	118	51,0	68	SONT 052306	170	309,98	150,00
MD900.3D.175.R.05-C20	17,5	30	20	120	53,0	70	SONT 052306	175	309,98	150,00
MD900.3D.180.R.06-C25	18,0	32	25	128	54,0	72	SONT 062506	180	309,98	150,00
MD900.3D.185.R.06-C25	18,5	32	25	130	56,0	74	SONT 062506	185	309,98	150,00
MD900.3D.190.R.06-C25	19,0	32	25	131	57,0	75	SONT 062506	190	339,06	161,00
MD900.3D.195.R.06-C25	19,5	32	25	133	59,0	77	SONT 062506	195	339,06	161,00
MD900.3D.200.R.06-C25	20,0	32	25	134	60,0	78	SONT 062506	200	339,06	161,00
MD900.3D.205.R.06-C25	20,5	32	25	136	62,0	80	SONT 062506	205	339,06	161,00
MD900.3D.210.R.07-C25	21,0	32	25	138	63,0	82	SONT 072907	210	339,06	161,00
MD900.3D.215.R.07-C25	21,5	32	25	140	65,0	84	SONT 072907	215	339,06	161,00
MD900.3D.220.R.07-C25	22,0	32	25	141	66,0	85	SONT 072907	220	339,06	161,00
MD900.3D.225.R.07-C25	22,5	32	25	143	68,0	87	SONT 072907	225	343,41	166,00
MD900.3D.230.R.07-C25	23,0	32	25	144	69,0	88	SONT 072907	230	343,41	166,00
MD900.3D.235.R.07-C25	23,5	32	25	146	71,0	90	SONT 072907	235	343,41	166,00
MD900.3D.240.R.08-C32	24,0	40	32	155	72,0	95	SONT 083308	240	343,41	166,00
MD900.3D.245.R.08-C32	24,5	40	32	157	74,0	97	SONT 083308	245	343,41	166,00
MD900.3D.250.R.08-C32	25,0	40	32	158	75,0	98	SONT 083308	250	343,41	166,00
MD900.3D.255.R.08-C32	25,5	40	32	160	77,0	100	SONT 083308	255	343,41	166,00
MD900.3D.260.R.08-C32	26,0	40	32	161	78,0	101	SONT 083308	260	380,26	184,00
MD900.3D.265.R.08-C32	26,5	40	32	163	80,0	103	SONT 083308	265	380,26	184,00
MD900.3D.270.R.08-C32	27,0	40	32	164	81,0	104	SONT 083308	270	380,26	184,00
MD900.3D.275.R.08-C32	27,5	40	32	166	83,0	106	SONT 083308	275	380,26	184,00
MD900.3D.280.R.09-C32	28,0	40	32	167	84,0	107	SONT 093808	280	380,26	184,00
MD900.3D.285.R.09-C32	28,5	40	32	169	86,0	109	SONT 093808	285	380,26	184,00
MD900.3D.290.R.09-C32	29,0	40	32	170	87,0	110	SONT 093808	290	380,26	184,00
MD900.3D.295.R.09-C32	29,5	40	32	172	89,0	112	SONT 093808	295	380,26	184,00
MD900.3D.300.R.09-C32	30,0	40	32	173	90,0	113	SONT 093808	300	380,26	184,00
MD900.3D.305.R.09-C32	30,5	40	32	175	92,0	115	SONT 093808	305	380,26	184,00

MaxiDrill 900 – Indexable insert drill

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



≤ 4xD



KOMET \ Performance

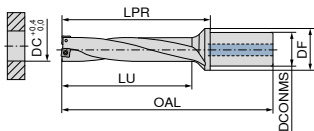
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 854 ...		
								EUR	EUR	EUR
MD900.4D.120.R.03-C20	12	28	20	114	48	64	SONT 031804	120	381,92	185,00
MD900.4D.130.R.03-C20	13	28	20	118	52	68	SONT 031804	130	381,92	185,00
MD900.4D.140.R.04-C20	14	30	20	123	56	73	SONT 042105	140	392,99	190,00
MD900.4D.150.R.04-C20	15	30	20	127	60	77	SONT 042105	150	392,99	190,00
MD900.4D.160.R.05-C20	16	30	20	131	64	81	SONT 052306	160	402,40	194,00
MD900.4D.170.R.05-C20	17	30	20	135	68	85	SONT 052306	170	417,24	202,00
MD900.4D.180.R.06-C25	18	32	25	146	72	90	SONT 062506	180	417,24	202,00
MD900.4D.190.R.06-C25	19	32	25	150	76	94	SONT 062506	190	448,26	217,00
MD900.4D.200.R.06-C25	20	32	25	154	80	98	SONT 062506	200	448,26	217,00
MD900.4D.210.R.07-C25	21	32	25	159	84	103	SONT 072907	210	448,26	217,00
MD900.4D.220.R.07-C25	22	32	25	163	88	107	SONT 072907	220	448,26	217,00
MD900.4D.230.R.07-C25	23	32	25	167	92	111	SONT 072907	230	463,46	224,00
MD900.4D.240.R.08-C32	24	40	32	179	96	119	SONT 083308	240	463,46	224,00
MD900.4D.250.R.08-C32	25	40	32	183	100	123	SONT 083308	250	463,46	224,00
MD900.4D.260.R.08-C32	26	40	32	187	104	127	SONT 083308	260	511,70	247,00
MD900.4D.270.R.08-C32	27	40	32	191	108	131	SONT 083308	270	511,70	247,00
MD900.4D.280.R.09-C32	28	40	32	195	112	135	SONT 093808	280	511,70	247,00
MD900.4D.290.R.09-C32	29	40	32	199	116	139	SONT 093808	290	511,70	247,00
MD900.4D.300.R.09-C32	30	40	32	203	120	143	SONT 093808	300	511,70	247,00
MD900.4D.310.R.09-C32	31	40	32	207	124	147	SONT 093808	310	555,38	268,00
MD900.4D.320.R.09-C32	32	40	32	211	128	151	SONT 093808	320	555,38	268,00
MD900.4D.330.R.10-C40	33	50	40	228	132	158	SONT 104408	330	555,38	268,00



Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 854 ...		
								EUR	EUR	EUR
MD900.4D.340.R.10-C40	34	50	40	232	136	162	SONT 104408	340	555,38	268,00
MD900.4D.350.R.10-C40	35	50	40	236	140	166	SONT 104408	350	567,08	274,00
MD900.4D.360.R.10-C40	36	50	40	240	144	170	SONT 104408	360	567,08	274,00
MD900.4D.370.R.12-C40	37	56	40	248	148	178	SONT 124810	370	586,53	283,00
MD900.4D.380.R.12-C40	38	56	40	252	152	182	SONT 124810	380	586,53	283,00
MD900.4D.390.R.12-C40	39	56	40	256	156	186	SONT 124810	390	586,53	283,00
MD900.4D.400.R.12-C40	40	56	40	260	160	190	SONT 124810	400	586,53	283,00
MD900.4D.410.R.12-C40	41	56	40	264	164	194	SONT 124810	410	586,53	283,00
MD900.4D.420.R.13-C40	42	60	40	271	168	201	SONT 135012	420	615,34	297,00
MD900.4D.430.R.13-C40	43	60	40	275	172	205	SONT 135012	430	615,34	297,00
MD900.4D.440.R.13-C40	44	60	40	279	176	209	SONT 135012	440	615,34	297,00
MD900.4D.450.R.13-C40	45	60	40	283	180	213	SONT 135012	450	615,34	297,00
MD900.4D.460.R.13-C40	46	60	40	287	184	217	SONT 135012	460	615,34	297,00
MD900.4D.470.R.15-C40	47	60	40	292	188	222	SONT 155312	470	648,84	313,00
MD900.4D.480.R.15-C40	48	60	40	296	192	226	SONT 155312	480	648,84	313,00
MD900.4D.490.R.15-C40	49	60	40	300	196	230	SONT 155312	490	648,84	313,00
MD900.4D.500.R.15-C40	50	60	40	304	200	234	SONT 155312	500	648,84	313,00
MD900.4D.510.R.15-C40	51	60	40	308	204	238	SONT 155312	510	648,84	313,00
MD900.4D.520.R.15-C40	52	60	40	312	208	242	SONT 155312	520	648,84	313,00
MD900.4D.530.R.15-C40	53	60	40	316	212	246	SONT 155312	530	648,84	313,00
MD900.4D.540.R.15-C40	54	60	40	320	216	250	SONT 155312	540	648,84	313,00

MaxiDrill 900 – Indexable insert drill

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



≤ 5xD



KOMET \ Performance

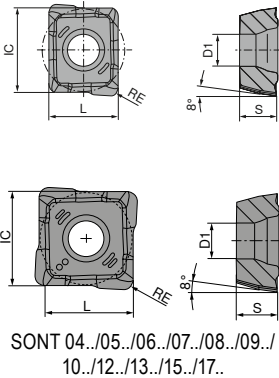
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 855 ...		
								EUR	EUR	EUR
MD900.5D.120.R.03-C20	12	28	20	126	60	76	SONT 031804	120	456,54	221,00
MD900.5D.130.R.03-C20	13	28	20	131	65	81	SONT 031804	130	456,54	221,00
MD900.5D.140.R.04-C20	14	30	20	137	70	87	SONT 042105	140	466,68	225,00
MD900.5D.150.R.04-C20	15	30	20	142	75	92	SONT 042105	150	466,68	225,00
MD900.5D.160.R.05-C20	16	30	20	147	80	97	SONT 052306	160	478,24	231,00
MD900.5D.170.R.05-C20	17	30	20	152	85	102	SONT 052306	170	495,45	239,00
MD900.5D.180.R.06-C25	18	32	25	164	90	108	SONT 062506	180	495,45	239,00
MD900.5D.190.R.06-C25	19	32	25	169	95	113	SONT 062506	190	532,40	257,00
MD900.5D.200.R.06-C25	20	32	25	174	100	118	SONT 062506	200	532,40	257,00
MD900.5D.210.R.07-C25	21	32	25	180	105	124	SONT 072907	210	532,40	257,00
MD900.5D.220.R.07-C25	22	32	25	184	110	128	SONT 072907	220	532,40	257,00
MD900.5D.230.R.07-C25	23	32	25	189	115	133	SONT 072907	230	551,34	266,00
MD900.5D.240.R.08-C32	24	40	32	203	120	143	SONT 083308	240	551,34	266,00
MD900.5D.250.R.08-C32	25	40	32	208	125	148	SONT 083308	250	551,34	266,00
MD900.5D.260.R.08-C32	26	40	32	212	130	152	SONT 083308	260	608,48	294,00
MD900.5D.270.R.08-C32	27	40	32	217	135	157	SONT 083308	270	608,48	294,00



Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 855 ...		
								EUR	EUR	EUR
MD900.5D.280.R.09-C32	28	40	32	221	140	161	SONT 093808	280	608,48	294,00
MD900.5D.290.R.09-C32	29	40	32	226	145	166	SONT 093808	290	608,48	294,00
MD900.5D.300.R.09-C32	30	40	32	230	150	170	SONT 093808	300	608,48	294,00
MD900.5D.310.R.09-C32	31	40	32	235	155	175	SONT 093808	310	659,49	318,00
MD900.5D.320.R.09-C32	32	40	32	239	160	179	SONT 093808	320	659,49	318,00
MD900.5D.330.R.10-C40	33	50	40	259	165	191	SONT 104408	330	659,49	318,00
MD900.5D.340.R.10-C40	34	50	40	264	170	196	SONT 104408	340	659,49	318,00
MD900.5D.350.R.10-C40	35	50	40	269	175	201	SONT 104408	350	674,40	326,00
MD900.5D.360.R.10-C40	36	50	40	274	180	206	SONT 104408	360	674,40	326,00
MD900.5D.370.R.12-C40	37	56	40	285	185	215	SONT 124810	370	697,48	337,00
MD900.5D.380.R.12-C40	38	56	40	290	190	220	SONT 124810	380	697,48	337,00
MD900.5D.390.R.12-C40	39	56	40	295	195	225	SONT 124810	390	697,48	337,00
MD900.5D.400.R.12-C40	40	56	40	300	200	230	SONT 124810	400	697,48	337,00
MD900.5D.410.R.12-C40	41	56	40	305	205	235	SONT 124810	410	697,48	337,00

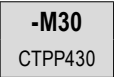
SONT

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



ISO	RE	10 830 ...		10 830 ...	
	mm	EUR	EUR	EUR	EUR
031804	0,4	103 ¹⁾	13,17	11,85	
042105	0,5				
052306	0,6				
062506	0,6				
072907	0,7				
083308	0,8				
093808	0,8				
104408	0,8				
124810	1,0				
135012	1,2				
155312	1,2				
175612	1,2				



REAMING



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



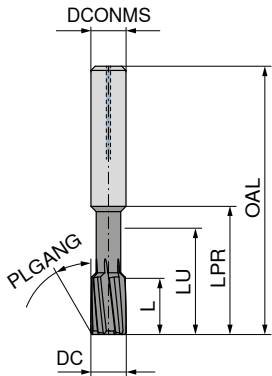
Type N – for all standard low volume applications.

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



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

DC	OAL	L	LU	DCONMS	ZEFP
+0,004/+0,005 mm	mm	mm	mm	mm	
3,97	50	12	24	4	4
3,98	50	12	24	4	4
3,99	50	12	24	4	4
4,00	50	12	24	4	4
4,01	50	12	24	4	4
4,02	50	12	24	4	4
4,03	50	12	24	4	4
4,97	64	12	31	6	4
4,98	64	12	31	6	4
4,99	64	12	31	6	4
5,00	64	12	31	6	4
5,01	64	12	31	6	4
5,02	64	12	31	6	4
5,03	64	12	31	6	4
5,97	64	12	31	6	4
5,98	64	12	31	6	4
5,99	64	12	31	6	4
6,00	64	12	31	6	4
6,01	64	12	31	6	4
6,02	64	12	31	6	4
6,03	64	12	31	6	4
7,97	70	16	31	8	6
7,98	70	16	31	8	6
7,99	70	16	31	8	6
8,00	70	16	31	8	6
8,01	70	16	31	8	6
8,02	70	16	31	8	6
8,03	70	16	31	8	6
9,97	80	16	35	10	6
9,98	80	16	35	10	6
9,99	80	16	35	10	6
10,00	80	16	35	10	6
10,01	80	16	35	10	6
10,02	80	16	35	10	6
10,03	80	16	35	10	6
11,97	90	20	40	12	6
11,98	90	20	40	12	6
11,99	90	20	40	12	6
12,00	90	20	40	12	6
12,01	90	20	40	12	6
12,02	90	20	40	12	6
12,03	90	20	40	12	6

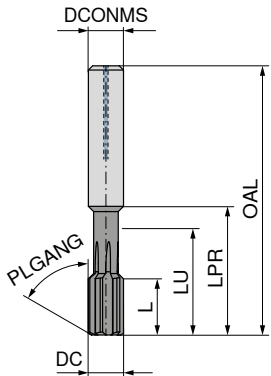
P	●
M	●
K	●
N	○
S	○
H	○
O	

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



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

DC	OAL	L	LU	DCONMS	ZEFP
+0,004/+0,005 mm	mm	mm	mm	mm	
3,97	50	12	24	4	4
3,98	50	12	24	4	4
3,99	50	12	24	4	4
4,00	50	12	24	4	4
4,01	50	12	24	4	4
4,02	50	12	24	4	4
4,03	50	12	24	4	4
4,97	64	12	31	6	4
4,98	64	12	31	6	4
4,99	64	12	31	6	4
5,00	64	12	31	6	4
5,01	64	12	31	6	4
5,02	64	12	31	6	4
5,03	64	12	31	6	4
5,97	64	12	31	6	4
5,98	64	12	31	6	4
5,99	64	12	31	6	4
6,00	64	12	31	6	4
6,01	64	12	31	6	4
6,02	64	12	31	6	4
6,03	64	12	31	6	4
7,97	70	16	31	8	6
7,98	70	16	31	8	6
7,99	70	16	31	8	6
8,00	70	16	31	8	6
8,01	70	16	31	8	6
8,02	70	16	31	8	6
8,03	70	16	31	8	6
9,97	80	16	35	10	6
9,98	80	16	35	10	6
9,99	80	16	35	10	6
10,00	80	16	35	10	6
10,01	80	16	35	10	6
10,02	80	16	35	10	6
10,03	80	16	35	10	6
11,97	90	20	40	12	6
11,98	90	20	40	12	6
11,99	90	20	40	12	6
12,00	90	20	40	12	6
12,01	90	20	40	12	6
12,02	90	20	40	12	6
12,03	90	20	40	12	6

P	●
M	●
K	●
N	○
S	○
H	○
O	



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TEAM CUTTING TOOLS

CUTTING SOLUTIONS BY CERATIZIT KOMET KLENK



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

▲ extremely irregular pitch

N

Left Hand Helix
Solid carbide

straight flute
Solid carbide

DC _{h7}	OAL	L	LU	DCNMS _{h7}	ZEFP		40 410 ...		40 400 ...		
mm	mm	mm	mm	mm			EUR	EUR	EUR	EUR	
2,0	49	11	31	2,0	4	020	24,43	21,99	020	24,43	21,99
2,1	49	11	31	2,0	4	021	29,21	26,29	021	29,21	26,29
2,2	53	12	35	2,2	4	022	29,21	26,29	022	29,21	26,29
2,3	53	12	35	2,2	4	023	29,21	26,29	023	29,21	26,29
2,4	57	14	34	2,5	4	024	29,21	26,29	024	29,21	26,29
2,5	57	14	34	2,5	4	025	26,24	23,62	025	26,24	23,62
2,6	57	14	34	2,5	4	026	31,38	28,24	026	31,38	28,24
2,7	61	15	36	3,0	4	027	31,38	28,24	027	31,38	28,24
2,8	61	15	36	3,0	4	028	31,38	28,24	028	31,38	28,24
2,9	61	15	36	3,0	4	029	31,38	28,24	029	31,38	28,24
3,0	61	15	36	3,0	4	030	28,27	25,44	030	28,27	25,44
3,1	61	15	36	3,0	4	031	33,90	30,51	031	33,90	30,51
3,2	70	18	40	3,5	4	032	33,90	30,51	032	33,90	30,51
3,3	70	18	40	3,5	4	033	33,90	30,51	033	33,90	30,51
3,4	70	18	40	3,5	4	034	33,90	30,51	034	33,90	30,51
3,5	70	18	40	3,5	4	035	32,22	29,00	035	32,22	29,00
3,6	70	18	40	3,5	4	036	38,60	34,82	036	38,60	34,82
3,7	70	18	40	3,5	4	037	38,60	34,82	037	38,60	34,82
3,8	75	19	43	4,0	4	038	38,60	34,82	038	38,60	34,82
3,9	75	19	43	4,0	4	039	38,60	34,82	039	38,60	34,82
4,0	75	19	43	4,0	4	040	34,62	31,16	040	34,62	31,16
4,1	75	19	43	4,0	4	041	41,60	37,52	041	41,60	37,52
4,2	75	19	43	4,0	4	042	41,60	37,52	042	41,60	37,52
4,3	75	21	42	4,5	4	043	41,60	37,52	043	41,60	37,52
4,4	75	21	42	4,5	4	044	41,60	37,52	044	41,60	37,52
4,5	75	21	42	4,5	4	045	37,74	33,97	045	37,74	33,97
4,6	75	21	42	4,5	4	046	45,27	40,74	046	45,27	40,74
4,7	75	21	42	4,5	4	047	45,27	40,74	047	45,27	40,74
4,8	86	23	52	5,0	4	048	45,27	40,74	048	45,27	40,74
4,9	86	23	52	5,0	4	049	45,27	40,74	049	45,27	40,74
5,0	86	23	52	5,0	4	050	42,52	38,27	050	42,52	38,27
5,1	86	23	52	5,0	4	051	48,90	44,09	051	48,90	44,09
5,2	86	23	52	5,0	4	052	48,90	44,09	052	48,90	44,09
5,3	86	23	52	5,0	6	053	48,90	44,09	053	48,90	44,09
5,4	93	26	57	5,6	6	054	48,90	44,09	054	48,90	44,09
5,5	93	26	57	5,6	6	055	45,02	40,52	055	45,02	40,52
5,6	93	26	57	5,6	6	056	51,86	46,67	056	51,86	46,67
5,7	93	26	57	5,6	6	057	51,86	46,67	057	51,86	46,67
5,8	93	26	57	5,6	6	058	51,86	46,67	058	51,86	46,67
5,9	93	26	57	5,6	6	059	51,86	46,67	059	51,86	46,67
6,0	93	26	57	5,6	6	060	53,90	48,51	060	53,90	48,51
6,1	93	26	57	5,6	6	061	62,04	55,84	061	62,04	55,84
6,2	93	26	57	5,6	6	062	62,04	55,84	062	62,04	55,84
6,3	101	28	63	6,3	6	063	62,04	55,84	063	62,04	55,84
6,4	101	28	63	6,3	6	064	62,04	55,84	064	62,04	55,84
6,5	101	28	63	6,3	6	065	60,37	54,33	065	60,37	54,33
6,6	101	28	63	6,3	6	066	60,58	62,62	066	60,58	62,62

DC _{h7}	OAL	L	LU	DCNMS _{h7}	ZEFP		40 410 ...		40 400 ...		
mm	mm	mm	mm	mm			EUR	EUR	EUR	EUR	
6,7	101	28	63	6,3	6	067	60,58	62,62	067	60,58	62,62
6,8	109	31	69	7,1	6	068	60,58	62,62	068	60,58	62,62
6,9	109	31	69	7,1	6	069	60,58	62,62	069	60,58	62,62
7,0	109	31	69	7,1	6	070	67,55	60,80	070	67,55	60,80
7,1	109	31	69	7,1	6	071	77,61	69,85	071	77,61	69,85
7,2	109	31	69	7,1	6	072	77,61	69,85	072	77,61	69,85
7,3	109	31	69	7,1	6	073	77,61	69,85	073	77,61	69,85
7,4	109	31	69	7,1	6	074	77,61	69,85	074	77,61	69,85
7,5	109	31	69	7,1	6	075	73,07	65,76	075	73,07	65,76
7,6	117	33	75	8,0	6	076	84,08	75,67	076	84,08	75,67
7,7	117	33	75	8,0	6	077	84,08	75,67	077	84,08	75,67
7,8	117	33	75	8,0	6	078	84,08	75,67	078	84,08	75,67
7,9	117	33	75	8,0	6	079	84,08	75,67	079	84,08	75,67
8,0	117	33	75	8,0	6	080	77,61	69,85	080	77,61	69,85
8,1	117	33	75	8,0	6	081	85,53	76,98	081	85,53	76,98
8,2	117	33	75	8,0	6	082	85,53	76,98	082	85,53	76,98
8,3	117	33	75	8,0	6	083	85,53	76,98	083	85,53	76,98
8,4	117	33	75	8,0	6	084	85,53	76,98	084	85,53	76,98
8,5	117	33	75	8,0	6	085	84,02	75,89	085	84,02	75,89
8,6	125	36	81	9,0	6	086	92,59	83,33	086	92,59	83,33
8,7	125	36	81	9,0	6	087	92,59	83,33	087	92,59	83,33
8,8	125	36	81	9,0	6	088	92,59	83,33	088	92,59	83,33
8,9	125	36	81	9,0	6	089	92,59	83,33	089	92,59	83,33
9,0	125	36	81	9,0	6	090	90,31	81,28	090	90,31	81,28
9,1	125	36	81	9,0	6	091	90,30	89,37	091	90,30	89,37
9,2	125	36	81	9,0	6	092	90,30	89,37	092	90,30	89,37
9,3	125	36	81	9,0	6	093	90,30	89,37	093	90,30	89,37
9,4	125	36	81	9,0	6	094	90,30	89,37	094	90,30	89,37
9,5	125	36	81	9,0	6	095	96,78	87,10	095	96,78	87,10
9,6	133	38	87	10,0	6	096	106,50	95,85	096	106,50	95,85
9,7	133	38	87	10,0	6	097	106,50	95,85	097	106,50	95,85
9,8	133	38	87	10,0	6	098	106,50	95,85	098	106,50	95,85
9,9	133	38	87	10,0	6	099	106,50	95,85	099	106,50	95,85
10,0	133	38	87	10,0	6	100	104,22	93,80	100	104,22	93,80
10,1	133	38	8								

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HSS TAPS



UNI – universal taps for all standard materials.



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

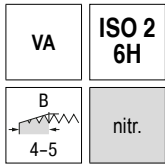
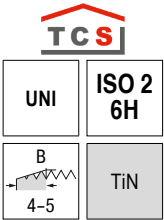
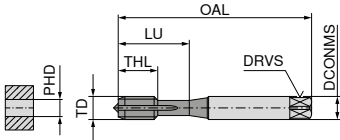


Roll tapping – 23-810 range.
For all applications and materials.

Through hole – Machine taps, right hand



WNT \ Standard



POWDERSTEEL

POWDERSTEEL

≤ 1000 N/mm²
≤ 3xD

≤ 1200 N/mm²
≤ 3xD

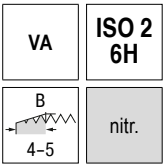
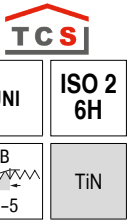
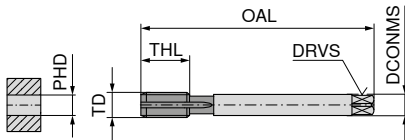
TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	Flutes	23 010 ...	
									EUR	EUR
M2	0,40	45	2,8	2,1	1,6	4	13,5	2	020	10,38 9,34
M3	0,50	56	3,5	2,7	2,5	11	18,0	3	030	12,06 11,66
M4	0,70	63	4,5	3,4	3,3	13	21,0	3	040	14,88 10,69
M5	0,80	70	6,0	4,9	4,2	15	25,0	3	050	13,20 11,95
M6	1,00	80	6,0	4,9	5,0	17	30,0	3	060	15,85 14,27
M8	1,25	90	8,0	6,2	6,8	20	35,0	3	080	17,66 15,89
M10	1,50	100	10,0	8,0	8,5	22	39,0	3	100	23,33 21,00

	23 450 ...	
	EUR	EUR
030	12,00	10,88
040	12,20	10,98
050	13,17	11,85
060	13,38	12,04
080	14,00	13,49
100	17,02	15,32

Through hole – Machine taps, right hand



WNT \ Standard



POWDERSTEEL

POWDERSTEEL

≤ 1000 N/mm²
≤ 3xD

≤ 1200 N/mm²
≤ 3xD

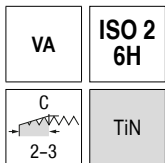
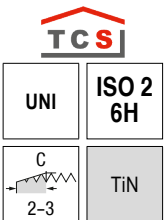
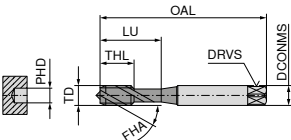
TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	Flutes	23 021 ...	
								EUR	EUR
M12	1,75	110	9	7	10,2	24	3	120	27,83 25,05
M14	2,00	110	11	9	12,0	26	3	140	42,18 37,96
M16	2,00	110	12	9	14,0	27	3	160	39,10 35,27
M18	2,50	125	14	11	15,5	25	4	180	68,62 61,76
M20	2,50	140	16	12	17,5	32	3	200	70,87 63,78

	23 451 ...	
	EUR	EUR
120	30,29	27,26
140	40,14	36,13
160	42,50	38,25
180	63,49	57,14

Blind hole – Machine taps, right hand



WNT \ Standard



HSS-PM

HSS-PM

≤ 1000 N/mm²
≤ 2,5xD

≤ 1200 N/mm²
≤ 2,5xD

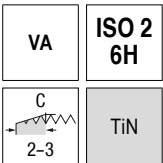
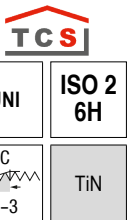
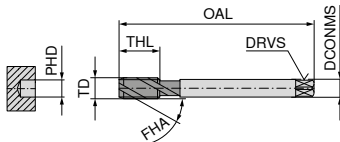
TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	Flutes	23 026 ...	
									EUR	EUR
M3	0,50	56	3,5	2,7	2,5	6	18	3	030	14,77 13,29
M4	0,70	63	4,5	3,4	3,3	7	21	3	040	14,77 13,29
M5	0,80	70	6,0	4,9	4,2	8	25	3	050	15,86 14,27
M6	1,00	80	6,0	4,9	5,0	10	30	3	060	18,44 16,57
M8	1,25	90	8,0	6,2	6,8	14	35	3	080	21,84 19,66
M10	1,50	100	10,0	8,0	8,5	16	39	3	100	27,51 24,76

	23 456 ...	
	EUR	EUR
030	14,77	13,29
040	16,06	14,45
050	16,37	14,73
060	21,00	18,97
080	22,58	20,32
100	31,11	28,03

Blind hole – Machine taps, right hand



WNT \ Standard



HSS-PM

HSS-PM

≤ 1000 N/mm²
≤ 2,5xD

≤ 1200 N/mm²
≤ 2,5xD

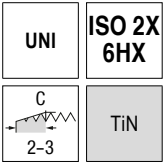
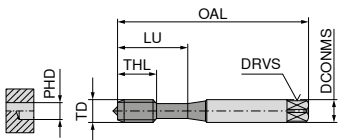
TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	Flutes	23 027 ...	
								EUR	EUR
M12	1,75	110	9	7	10,2	18	4	120	32,11 29,20
M12	1,75	110	9	7	10,2	18	3	140	46,78 42,10
M14	2,00	110	11	9	12,0	20	4	160	46,78 42,10
M16	2,00	110	12	9	14,0	22	4	180	56,10 50,49
M16	2,00	110	12	9	14,0	22	3	200	53,52 48,17

	23 457 ...	
	EUR	EUR
120	44,54	40,09
160	56,10	50,49
200	111,37	100,23

Machine thread formers



WNT \ Standard



POWDERSTEEL

HSS-E

≤ 850 N/mm²
≤ 3xD

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

	23 810 ...	
	EUR	EUR
020	26,34	23,71
025	29,11	21,10
030	17,02	15,32
040	17,66	15,89
050	18,73	16,86
060	22,27	20,04
080	24,83	22,35
100	33,08	29,77



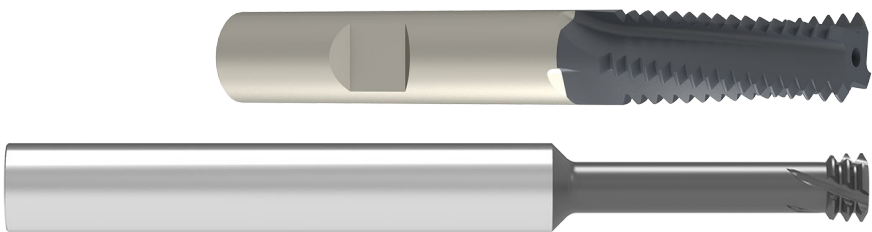
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guaranteed free express delivery



THREAD MILLING CUTTERS



SGF

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

Thread milling cutter

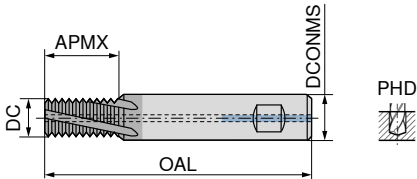
- ▲ Profile corrected
- ▲ Hard machining to Ø DC = 4 mm possible



≤ 2xD



M



WNT \ Standard

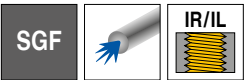
DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} mm	OAL mm	ZEFP	PHD mm
2,40	M3	0,50	6,5	4	42	2	2,50
3,15	M4	0,70	9,0	6	55	3	3,30
4,00	M5	0,80	11,0	6	55	3	4,20
4,80	M6	1,00	13,0	6	55	3	5,00
6,00	M8	1,25	18,0	6	60	3	6,75
8,00	M10	1,50	21,0	8	70	3	8,50
9,90	M12	1,75	26,0	10	75	4	10,25
11,60	M14	2,00	30,0	12	85	4	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

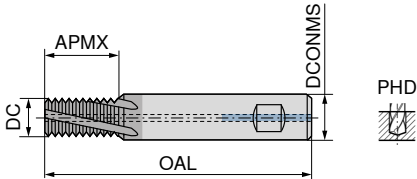
- ▲ Profile corrected
- ▲ Hard machining to Ø DC = 4 mm possible



≤ 2xD



MF



WNT \ Standard

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

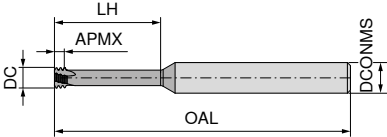
- ▲ Available on request from M1
- ▲ Profile corrected



≤ 3xD

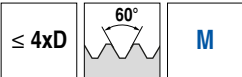


M



WNT \ Performance

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

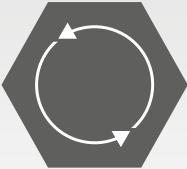


DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEFP
1,53	M2	0,40	39	1,00	10,4	3	3
2,40	M3	0,50	39	1,30	12,5	3	3
3,10	M4	0,70	58	1,80	16,7	6	3
4,00	M5	0,80	58	2,10	20,8	6	3
4,80	M6	1,00	58	2,55	25,0	6	3
6,40	M8	1,25	64	3,15	33,5	8	3
8,00	M10	1,50	76	3,85	41,5	8	3

P	•
M	•
K	•
N	•
S	•
H	•
O	•

Our recycling service

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

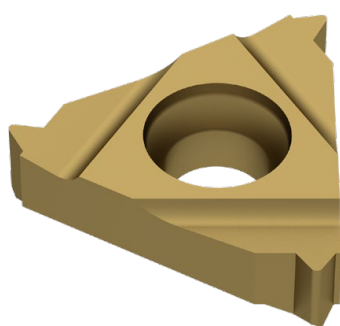


Technical support: 1800 93 22 55
3 time served engineers,
available from 8:00 am to 6:00 pm, Monday to Friday

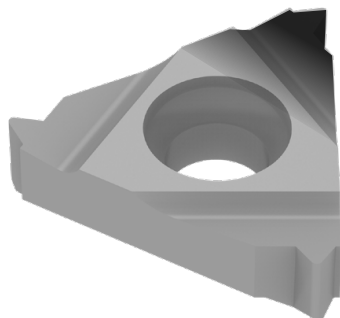


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THREAD TURNING



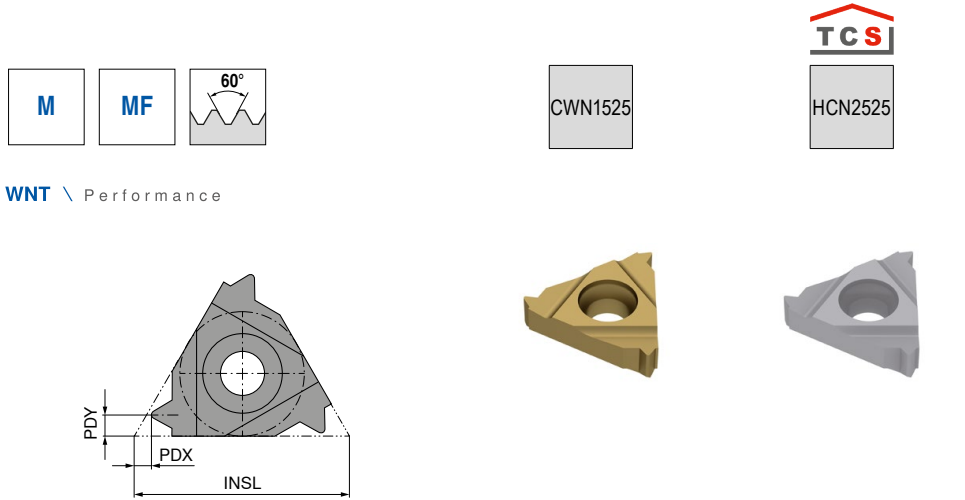
CWN1525 – for small batch and manual machining in all materials.



HCN2525 – for high performance and volume production in all materials.

Right hand external thread turning insert

▲ Full profile

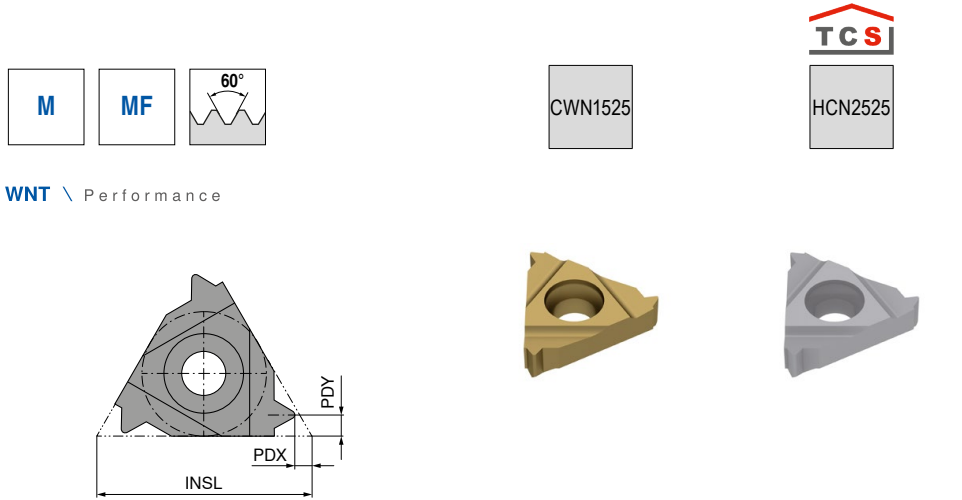


WNT \ Performance

Designation	TP mm	INSL mm	PDX mm	PDY mm	ER 71 220 ...		ER 71 220 ...	
					EUR	EUR	EUR	EUR
16 ER 0,35	0,35	16	0,8	0,4			734	29,85 16,70
16 ER 0,4	0,40	16	0,7	0,4			736	29,85 16,70
16 ER 0,5	0,50	16	0,6	0,6	140	16,46 11,52	740	18,08 12,66
16 ER 0,7	0,70	16	0,6	0,6	141	17,63 12,34	741	19,15 13,41
16 ER 0,75	0,75	16	0,6	0,6	142	16,46 11,52	742	18,08 12,66
16 ER 0,8	0,80	16	0,6	0,6	143	16,46 11,52	743	18,08 12,66
16 ER 1,0	1,00	16	0,7	0,7	144	15,87 11,11	744	17,63 12,34
16 ER 1,25	1,25	16	0,8	0,9	146	15,87 11,11	746	17,63 12,34
16 ER 1,5	1,50	16	0,8	1,0	148	15,87 11,11	748	17,63 12,34
16 ER 1,75	1,75	16	0,9	1,2	150	15,87 11,11	750	17,63 12,34
16 ER 2,0	2,00	16	1,0	1,3	152	15,87 11,11	752	17,63 12,34
16 ER 2,5	2,50	16	1,1	1,5	154	15,87 11,11	754	17,63 12,34
16 ER 3,0	3,00	16	1,2	1,6	156	15,87 11,11	756	17,63 12,34
P					●		○	
M					○		●	
K					●		○	
N					●		○	
S							○	
H							○	
O					○			

Right hand internal thread turning insert

▲ Full profile



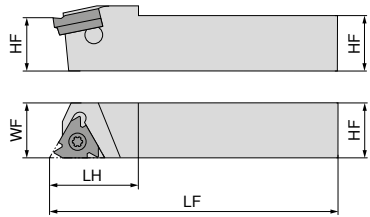
WNT \ Performance

Designation	TP mm	INSL mm	PDX mm	PDY mm	IR 71 224 ...		IR 71 224 ...	
					EUR	EUR	EUR	EUR
16 IR 0,75	0,75	16	0,6	0,6	142	19,84 13,89	742	21,63 15,14
16 IR 1,0	1,00	16	0,6	0,7	144	15,87 11,11	744	17,63 12,34
16 IR 1,25	1,25	16	0,8	0,9			746	18,44 12,91
16 IR 1,5	1,50	16	0,8	1,0	148	15,87 11,11	748	17,63 12,34
16 IR 1,75	1,75	16	0,9	1,2			750	21,63 15,14
16 IR 2,0	2,00	16	1,0	1,3	152	15,87 11,11	752	17,63 12,34
16 IR 2,5	2,50	16	1,1	1,5	154	15,87 11,11	754	17,63 12,34
16 IR 3,0	3,00	16	1,1	1,5	156	15,87 11,11	756	17,63 12,34
P					●		○	
M					○		●	
K					●		○	
N					●		○	
S							○	
H							○	
O					○			

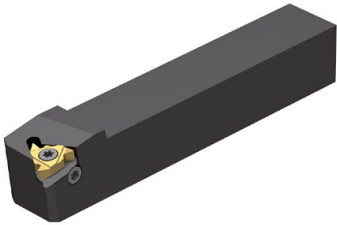
Standard External Thread Turning Holder

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

WNT \ Performance



Illustrations show right-hand versions

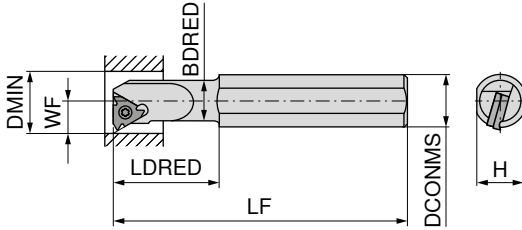


ISO designation	HF mm	WF mm	LF mm	LH mm	H mm	Insert	torque moment Nm	Right-hand 71 280 ...	
								EUR	EUR
SE R 12 12 F16	12	16	80	22	12	16 ..	3,5	012	89,46 52,00
SE R 16 16 H16	16	16	100	25	16	16 ..	3,5	016	102,39 64,00
SE R 20 20 K16	20	20	125	30	20	16 ..	3,5	020	102,39 64,00
SE R 25 25 M16	25	25	150	30	25	16 ..	3,5	025	117,97 73,00
SE R 32 32 P16	32	32	170	30	32	16 ..	3,5	032	128,55 80,00

Standard Internal Thread Turning Holder

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

WNT \ Performance



Illustrations show right-hand versions



ISO designation	H mm	LF mm	LDRED mm	DCONMS mm	BDRED mm	WF mm	DMIN mm	Insert	torque moment Nm	Left-hand 71 283 ...		Right-hand 71 282 ...	
										EUR	EUR	EUR	EUR
SI L 0013 M16	14,0	150	32	16	13,0	10,2	16	16 ..	3,5	015 ¹⁾	97,69 61,00		
SI L 0016 P16	18,0	170	40	20	15,0	11,7	19	16 ..	3,5	016 ¹⁾	97,69 61,00		
SI L 0020 P16	18,0	170	40	20	19,5	13,7	24	16 ..	3,5	020	115,20 72,00		
SI L 0032 S16	28,8	250	50	32	31,5	19,7	36	16 ..	3,5	032	151,01 94,00		
SI R 0013 M16	14,0	150	32	16	13,0	10,2	16	16 ..	3,5			015 ¹⁾	97,69 61,00
SI R 0016 P16	18,0	170	40	20	15,0	11,7	19	16 ..	3,5			016 ¹⁾	97,69 61,00
SI R 0020 P16	18,0	170	40	20	19,5	13,7	24	16 ..	3,5			020	115,20 72,00
SI R 0025 R16	22,6	200	40	25	24,5	16,2	29	16 ..	3,5			026	139,73 87,00
SI R 0032 S16	28,8	250	50	32	31,5	19,7	36	16 ..	3,5			032	151,01 94,00
SI R 0040 T16	36,0	300	50	40	39,5	23,7	44	16 ..	3,5			040	223,56 139,00

1) without shim



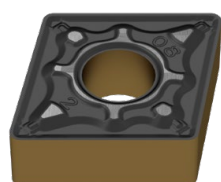
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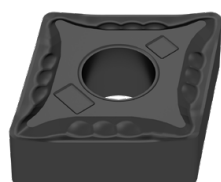
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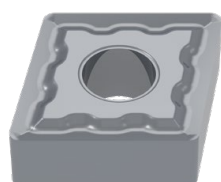
TURNING TOOLS



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



CTCM120 / CTCM130 –
high performance turning of
stainless steels.



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



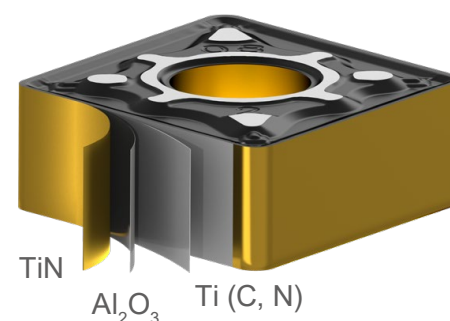
Steel machining made easy

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

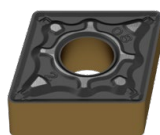


Machining with no compromises – with the CERATIZIT ISO-P carbide grades update

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



NEW

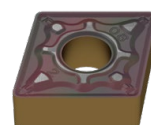


CTCP115-P

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

DRAGONSKIN

NEW

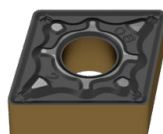


CTCP135-P

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

DRAGONSKIN

NEW



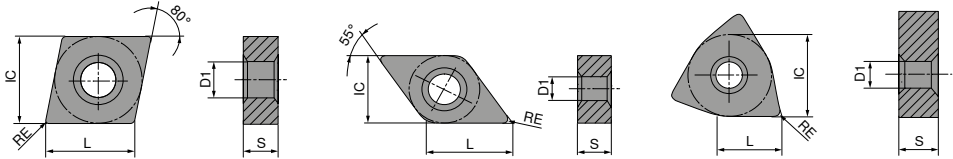
CTCP125-P

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

DRAGONSKIN

CNMG / DNMG / WNMG

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



CNMG

CERATIZIT \ Performance

ISO	RE mm
120404EN	0,4
120408EN	0,8
120412EN	1,2
120416EN	1,6
160608EN	0,8
160612EN	1,2
160616EN	1,6

-M50		
CTCP115-P		
DRAGONSKIN		
M		
76 135 ...		
	EUR	EUR
32801	12,41	11,17
33001	15,41	11,17
32001	15,41	11,17
33401	15,41	11,17
34201	20,06	18,05
34401	20,06	18,05
34601	20,06	18,05
52801	12,41	11,17
53001	15,41	11,17
53201	15,41	11,17
53401	15,41	11,17
54201	20,06	18,05
54401	20,06	18,05
54601	20,06	18,05
72801	12,41	11,17
73001	15,41	11,17
73201	15,41	11,17
73401	15,41	11,17
74201	20,06	18,05
74401	20,06	18,05
74601	20,06	18,05

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

DNMG

CERATIZIT \ Performance

ISO	RE mm
110404EN	0,4
110408EN	0,8
110412EN	1,2
150404EN	0,4
150408EN	0,8
150412EN	1,2
150416EN	1,6
150604EN	0,4
150608EN	0,8
150612EN	1,2
150616EN	1,6

-M50		
CTCP115-P		
DRAGONSKIN		
M		
76 136 ...		
	EUR	EUR
30401	12,25	11,93
30601	12,25	11,93
30801	12,25	11,93
31601	16,06	14,45
31801	16,06	14,45
32001	16,06	14,45
32201	16,06	14,45
32801	17,39	15,65
33001	17,39	15,65
33201	17,39	15,65
33401	17,39	15,65
50401	12,25	11,93
50601	12,25	11,93
50801	12,25	11,93
51401	16,06	14,45
51801	16,06	14,45
51601	16,06	14,45
52201	16,06	14,45
52801	17,39	15,65
53001	17,39	15,65
53201	17,39	15,65
53401	17,39	15,65
70401	12,25	11,93
70601	12,25	11,93
70801	12,25	11,93
71601	16,06	14,45
71801	16,06	14,45
72001	16,06	14,45
72201	16,06	14,45
72801	17,39	15,65
73001	17,39	15,65
73201	17,39	15,65
73401	17,39	15,65

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

WNMG

CERATIZIT \ Performance

ISO	RE mm
060404EN	0,4
060408EN	0,8
060412EN	1,2
080404EN	0,4
080408EN	0,8
080412EN	1,2
080416EN	1,6

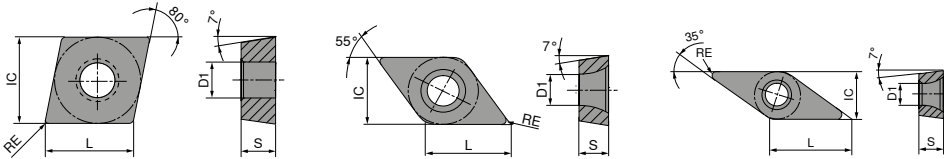
-M50		
CTCP115-P		
DRAGONSKIN		
M		
76 139 ...		
	EUR	EUR
30401	10,62	9,74
30601	10,62	9,74
30801	10,62	9,74
31601	12,62	12,26
31801	12,62	12,26
32001	12,62	12,26
32201	12,62	12,26
50401	10,62	9,74
50601	10,62	9,74
50801	10,62	9,74
51601	12,62	12,26
51801	12,62	12,26
52001	12,62	12,26
52201	12,62	12,26
70401	10,62	9,74
70601	10,62	9,74
70801	10,62	9,74
71601	12,62	12,26
71801	12,62	12,26
72001	12,62	12,26
72201	12,62	12,26

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



CCMT / DCMT / 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
VCMT 1604..	16,60	4,76	4,4	9,52



CCMT

CERATIZIT \ Performance

ISO	RE mm
060204EN	0,4
060208EN	0,8
09T304EN	0,4
09T308EN	0,8
120404EN	0,4
120408EN	0,8
120412EN	1,2

P			
M			
K			
N			
S			
H			
O			

-SM

CTCP115-P

DRAGONSKIN

M

76 252 ...

EUR

EUR

30401

~~8,46~~ 7,61

30601

~~8,46~~ 7,61

31601

~~10,55~~ 9,50

31801

~~10,55~~ 9,50

32801

~~14,84~~ 13,36

33001

~~14,84~~ 13,36

-SM

CTCP125-P

DRAGONSKIN

M

76 252 ...

EUR

EUR

50401

~~8,46~~ 7,61

51601

~~10,55~~ 9,50

51801

~~10,55~~ 9,50

52801

~~14,84~~ 13,36

53001

~~14,84~~ 13,36

53201

~~14,84~~ 13,36

-SM

CTCP135-P

DRAGONSKIN

M

76 252 ...

EUR

EUR

70401

~~8,46~~ 7,61

70601

~~8,46~~ 7,61

71601

~~10,55~~ 9,50

71801

~~10,55~~ 9,50

72801

~~14,84~~ 13,36

73001

~~14,84~~ 13,36

DCMT

CERATIZIT \ Performance

ISO	RE mm
070204EN	0,4
070208EN	0,8
11T304EN	0,4
11T308EN	0,8
11T312EN	1,2

P			
M			
K			
N			
S			
H			
O			

-SM

CTCP115-P

DRAGONSKIN

M

76 258 ...

EUR

EUR

30401

~~8,46~~ 7,61

30601

~~8,46~~ 7,61

31601

~~11,88~~ 10,69

31801

~~11,88~~ 10,69

-SM

CTCP125-P

DRAGONSKIN

M

76 258 ...

EUR

EUR

50401

~~8,46~~ 7,61

50601

~~8,46~~ 7,61

51601

~~11,88~~ 10,69

51801

~~11,88~~ 10,69

52001

~~11,88~~ 10,69

-SM

CTCP135-P

DRAGONSKIN

M

76 258 ...

EUR

EUR

70401

~~8,46~~ 7,61

70601

~~8,46~~ 7,61

71601

~~11,88~~ 10,69

71801

~~11,88~~ 10,69

VCMT

CERATIZIT \ Performance

ISO	RE mm
160404EN	0,4
160406EN	0,6
160408EN	0,8
160412EN	1,2

P			
M			
K			
N			
S			
H			
O			

-SM

CTCP115-P

DRAGONSKIN

M

76 278 ...

EUR

EUR

32801

~~17,39~~ 15,65

32901

~~17,39~~ 15,65

33001

~~17,39~~ 15,65

33201

~~17,39~~ 15,65

-SM

CTCP125-P

DRAGONSKIN

M

76 278 ...

EUR

EUR

52801

~~17,39~~ 15,65

53001

~~17,39~~ 15,65

53201

~~17,39~~ 15,65

-SM

CTCP135-P

DRAGONSKIN

M

76 278 ...

EUR

EUR

72801

~~17,39~~ 15,65

73001

~~17,39~~ 15,65

73201

~~17,39~~ 15,65



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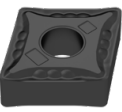


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STAINLESS STEEL
MACHINING MADE
EASY

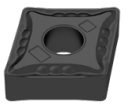
Dragonskin – new grades with the high-performance coating
technology from CERATIZIT

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



CTCM120

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

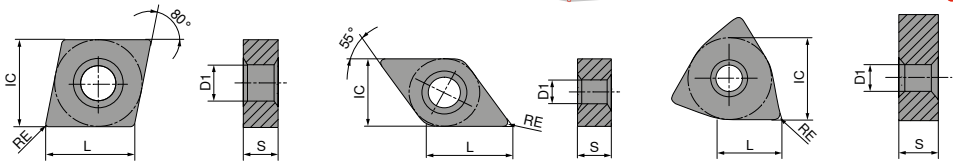


CTCM130

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

CNMG / DNMG / WNMG

Designation	L	S	D1	IC
	mm	mm	mm	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
WNMG 0604..	6,5	4,76	3,81	9,52
WNMG 0804..	8,6	4,76	5,16	12,70

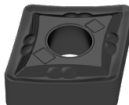
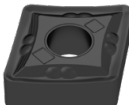


CNMG

CERATIZIT \ Performance

ISO	RE mm
120408EN	0,8
120412EN	1,2
120416EN	1,6

P					
M					
K					
N					
S					
H					
O					

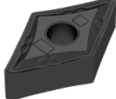
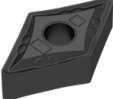
						
-M30 CTCM120		-M30 CTCM130				
DRAGONSKIN 		DRAGONSKIN 				
						
M 75 011 ...		M 75 011 ...				
	EUR	EUR			EUR	EUR
13000	12,41	11,17	33000	12,41	11,17	
13200	12,41	11,17	33200	12,41	11,17	
13400	12,41	11,17	33400	12,41	11,17	

DNMG

CERATIZIT \ Performance

ISO	RE mm
110408EN	0,8
110412EN	1,2
150608EN	0,8
150612EN	1,2

P					
M					
K					
N					
S					
H					
O					

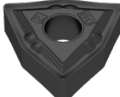
TCS			TCS		
-M30			-M30		
CTCM120			CTCM130		
DRAGONSKIN			DRAGONSKIN		
					
					
M			M		
75 014 ...			75 014 ...		
	EUR	EUR		EUR	EUR
10600	13,25	11,93	30600	13,25	11,93
10800	13,25	11,93	30800	13,25	11,93
13000	17,30	15,65	33000	17,30	15,65
13200	17,30	15,65	33200	17,30	15,65

WNMG

CERATIZIT \ Performance

ISO	RE mm
060408EN	0,8
060412EN	1,2
080408EN	0,8
080412EN	1,2

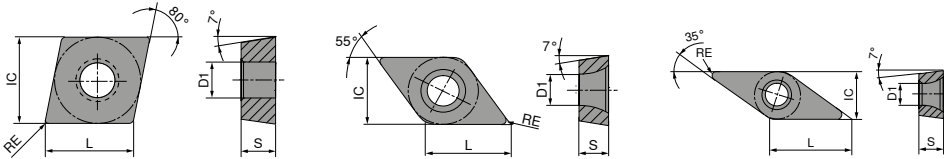
P					
M					
K					
N					
S					
H					
O					

																																			
-M30 CTCM120			-M30 CTCM130																																
DRAGONSKIN  			DRAGONSKIN  																																
M 75 025 ... <table><thead><tr><th></th><th>EUR</th><th>EUR</th></tr></thead><tbody><tr><td>10600</td><td>10,82</td><td>9,74</td></tr><tr><td>10800</td><td>10,82</td><td>9,74</td></tr><tr><td>11800</td><td>13,62</td><td>12,26</td></tr><tr><td>12000</td><td>13,62</td><td>12,26</td></tr></tbody></table>				EUR	EUR	10600	10,82	9,74	10800	10,82	9,74	11800	13,62	12,26	12000	13,62	12,26	M 75 025 ... <table><thead><tr><th></th><th>EUR</th><th>EUR</th></tr></thead><tbody><tr><td>30600</td><td>10,82</td><td>9,74</td></tr><tr><td>30800</td><td>10,82</td><td>9,74</td></tr><tr><td>31800</td><td>13,62</td><td>12,26</td></tr><tr><td>32000</td><td>13,62</td><td>12,26</td></tr></tbody></table>				EUR	EUR	30600	10,82	9,74	30800	10,82	9,74	31800	13,62	12,26	32000	13,62	12,26
	EUR	EUR																																	
10600	10,82	9,74																																	
10800	10,82	9,74																																	
11800	13,62	12,26																																	
12000	13,62	12,26																																	
	EUR	EUR																																	
30600	10,82	9,74																																	
30800	10,82	9,74																																	
31800	13,62	12,26																																	
32000	13,62	12,26																																	



CCMT / DCMT / 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
DCMT 0702..	7,75	2,38	2,8	6,35
DCMT 11T3..	11,60	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				
P					
M					
K					
N					
S					
H					
O					

TCS

-M25

CTCM120

DRAGONSKIN

F

75 210 ...

EUR

EUR

10400

8,46

7,61

11600

10,55

9,50

11800

10,55

9,50

TCS

-M25

CTCM130

DRAGONSKIN

F

75 210 ...

EUR

EUR

30400

8,46

7,61

31600

10,55

9,50

31800

10,55

9,50

DCMT

CERATIZIT \ Performance

ISO	RE mm				
070202EN	0,2				
070204EN	0,4				
11T302EN	0,2				
11T304EN	0,4				
11T308EN	0,8				
P					
M					
K					
N					
S					
H					
O					

TCS

-M25

CTCM120

DRAGONSKIN

F

75 213 ...

EUR

EUR

10200

8,46

7,61

11400

11,88

10,69

11600

11,88

10,69

11800

11,88

10,69

TCS

-M25

CTCM130

DRAGONSKIN

F

75 213 ...

EUR

EUR

30200

8,46

7,61

31400

11,88

10,69

31600

11,88

10,69

31800

11,88

10,69

VCMT

CERATIZIT \ Performance

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

TCS

-M25

CTCM120

DRAGONSKIN

F

75 219 ...

EUR

EUR

12800

17,39

15,65

13000

17,39

15,65

TCS

-M25

CTCM130

DRAGONSKIN

F

75 219 ...

EUR

EUR

32800

17,39

15,65

33000

17,39

15,65



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X7-Line

HRSA and Ti
machining made
easy

Grade description

CTP **X7** 10/15

Degree of
hardness

10 ISO 10

15 ISO 15

...

Main application – material

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

X Universal application

Application

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

Universal application range

P M K N S

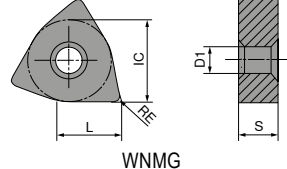
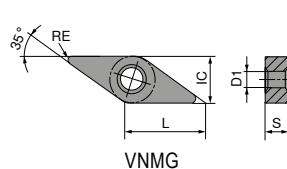
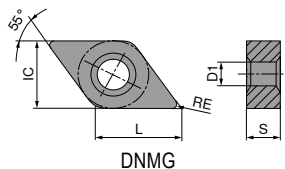
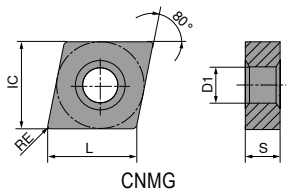
*In future multiple
procedures possible
turning | grooving | milling



Further information on the product can be found in 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

CERATIZIT \ Performance

ISO	RE mm	M 75 003 ...
120404EN	0,4	62800 11,69 10,52
120408EN	0,8	63000 11,69 10,52
120412EN	1,2	63200 11,69 10,52
120416EN	1,6	63400 11,69 10,52
P		•
M		•
K		•
N		○
S		•
H		
O		

VNMG

CERATIZIT \ Performance

ISO	RE mm	M 75 009 ...
160404EN	0,4	61600 21,27 19,14
160408EN	0,8	61800 21,27 19,14
160412EN	1,2	62000 21,27 19,14
P		•
M		•
K		•
N		○
S		•
H		
O		

DNMG

CERATIZIT \ Performance

ISO	RE mm	M 75 004 ...
150404EN	0,4	61600 16,27 15,09
150408EN	0,8	61800 16,27 15,09
150412EN	1,2	62000 16,27 15,09
150608EN	0,8	63000 16,27 16,53
150612EN	1,2	63200 16,27 16,53
P		•
M		•
K		•
N		○
S		•
H		
O		

WNMG

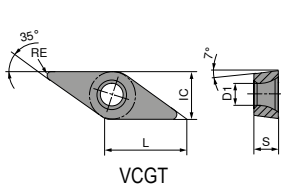
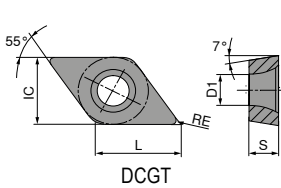
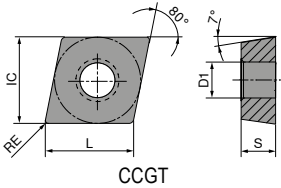
CERATIZIT \ Performance

ISO	RE mm	M 75 008 ...
080408EN	0,8	61800 14,22 12,80
080412EN	1,2	62000 14,22 12,80
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	M 70 248 ...	EUR	
			EUR	EUR
060202FN	0,2	70200	14,11	12,70
060204FN	0,4	70400	14,11	12,70
09T302FN	0,2	71400	14,47	13,02
09T304FN	0,4	71600	14,47	13,02
09T308FN	0,8	71800	14,47	13,02
120404FN	0,4	72800	18,47	16,62
120408FN	0,8	73000	18,47	16,62
P		•		
M		•		
K		•		
N		•		
S		•		
H				
O				

VCGT

CERATIZIT \ Performance



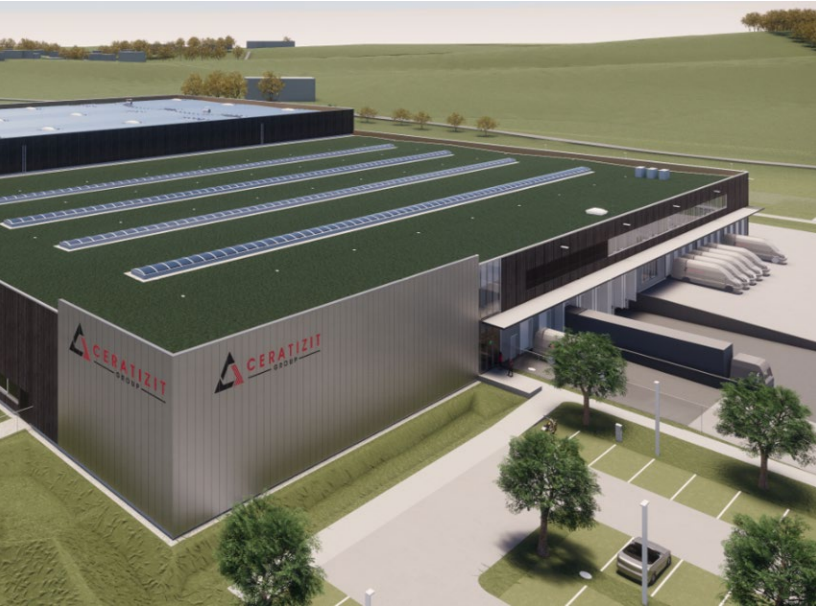
ISO	RE mm	M 70 282 ...	EUR	
			EUR	EUR
110302FN	0,2	71400	18,85	16,97
110304FN	0,4	71600	18,85	16,97
160404FN	0,4	72800	23,35	21,02
160408FN	0,8	73000	23,35	21,02
160412FN	1,2	73200	23,35	21,02
220530FN	3,0	75000	31,42	28,01
P		•		
M		•		
K				
N		•		
S		•		
H				
O				

DCGT

CERATIZIT \ Performance



ISO	RE mm	M 70 263 ...	EUR	
			EUR	EUR
070202FN	0,2	70200	12,77	11,49
070204FN	0,4	70400	12,77	11,49
11T302FN	0,2	71400	15,44	13,90
11T304FN	0,4	71600	15,44	13,90
11T308FN	0,8	71800	15,44	13,90
P		•		
M		•		
K		•		
N		•		
S		•		
H				
O				



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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.

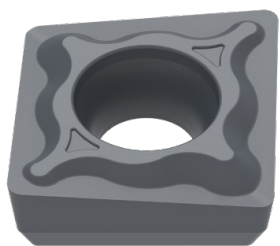


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ECOCUT



CTPP430 – universal grade for all materials.

The Original Multi Function Tool

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



=

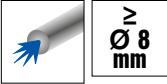


EcoCut – Classic 1.5xD

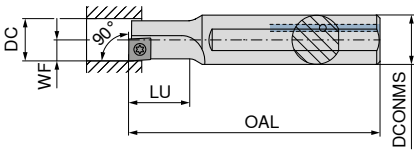
▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



CERATIZIT \ Performance



Illustrations show right-hand versions

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



Steel
Left-hand



Steel
Right-hand

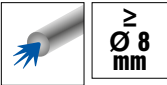
70 805 ...		70 804 ...			
	EUR	EUR			
010	172,95	67,00	010	172,95	67,00
012	175,74	68,00	012	175,74	68,00
014	179,99	70,00	014	179,99	70,00
016	182,78	71,00	016	182,78	71,00
018	210,83	81,00	018	210,83	81,00
020	237,64	92,00	020	237,64	92,00
025	274,87	106,00	025	274,87	106,00
032	310,71	120,00	032	310,71	120,00

EcoCut – Classic 2.25xD

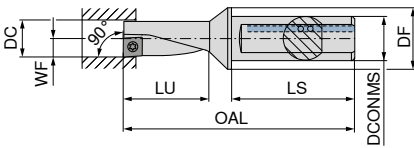
▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



CERATIZIT \ Performance



Illustrations show right-hand versions



Steel
Left-hand



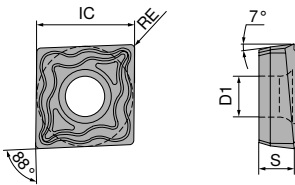
Steel
Right-hand

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

70 805 ...			70 804 ...		
	EUR	EUR		EUR	EUR
110	257,20	99,00	110	257,20	99,00
112	264,34	102,00	112	264,34	102,00
114	270,83	104,00	114	270,83	104,00
116	275,72	107,00	116	275,72	107,00
118	303,77	117,00	118	303,77	117,00
120	330,58	128,00	120	330,58	128,00
125	383,88	148,00	125	383,88	148,00
132	431,60	167,00	132	431,60	167,00

XCNT

CERATIZIT \ Performance

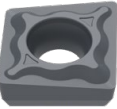


ISO designation	RE	S	D1	IC
XCNT 050202EN	0,2	2,10	2,25	5,8
XCNT 050204EN	0,4	2,10	2,25	5,8
XCNT 060202EN	0,2	2,38	2,50	6,5
XCNT 060204EN	0,4	2,38	2,50	6,5
XCNT 070304EN	0,4	3,18	2,80	7,6
XCNT 080304EN	0,4	3,18	3,40	8,5
XCNT 09T304EN	0,4	3,97	3,40	9,6
XCNT 10T304EN	0,4	3,97	4,40	10,6
XCNT 10T308EN	0,8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



CTPP430

DRAGONSKIN



XCNT

70 386 ...	
	EUR
923	16,82 15,14
903	16,82 15,14
924	16,82 15,14
904	16,82 15,14
905	16,82 15,14
906	17,08 15,37
907	17,33 15,60
908	18,20 16,38
938	18,20 16,38
910	20,81 18,73
940	20,81 18,73
912	21,94 19,75

P	●
M	●
K	○
N	○
S	○
H	
O	○



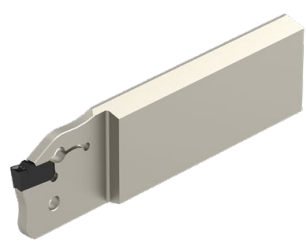
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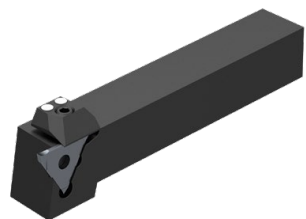
GROOVING TOOLS



SX System – first choice system for parting off.



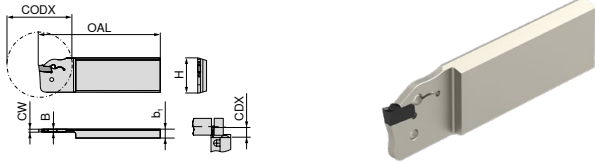
M1 – first choice chipbreaker for parting off.



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

MonoClamp – Radial Blade SX reinforced

CERATIZIT \ Performance



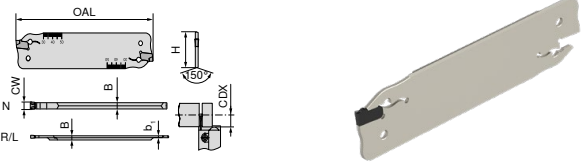
Illustrations show right-hand versions

ISO designation	CW mm	H mm	B mm	OAL mm	b ₁ mm	CODX mm	CDX mm	for grooving inserts	70 879 ...		
										EUR	EUR
XLCF R 2608-SX3	3	26	2,5	110	8	44	22	SX .3..	013 ¹⁾	144,49	56,00
XLCF R 3208-SX3	3	32	2,5	110	8	66	33	SX .3..	003	135,79	52,00
XLCF L 3208-SX3	3	32	2,5	110	8	66	33	SX .3..	203	135,79	52,00
XLCF L 2608-SX3	3	26	2,5	110	8	44	22	SX .3..	213 ¹⁾	144,49	56,00
									204	135,79	52,00
XLCF L 3208-SX4	4	32	3,4	110	8	66	33	SX .4..	004	135,79	52,00
XLCF R 3208-SX4	4	32	3,4	110	8	66	33	SX .4..			

1) can be used in both directions

MonoClamp – Radial Blade SX Standard

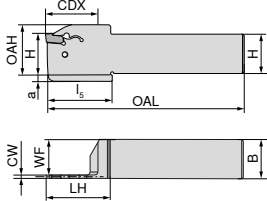
CERATIZIT \ Performance



ISO designation	CW mm	H mm	B mm	b ₁ mm	OAL mm	CDX mm	for grooving inserts	70 884 ...		
									EUR	EUR
XLCF L 2602-SX2	2	26	2,4	1,5	110	25	SX .2..	212	94,33	36,00
XLCF L 3202-SX2	2	32	2,4	1,5	150	25	SX .2..	202	98,71	38,00
XLCF R 2602-SX2	2	26	2,4	1,5	110	25	SX .2..	012	94,33	36,00
XLCF R 3202-SX2	2	32	2,4	1,5	150	25	SX .2..	002	98,71	38,00
XCLF N 2603-SX3	3	26	2,4		110	35	SX .3..	113	94,33	36,00
XLCF N 3203-SX3	3	32	2,4		150	50	SX .3..	103	98,71	38,00
XCLF N 2604-SX4	4	26	3,2		110	40	SX .4..	114	94,33	36,00
XLCF N 3204-SX4	4	32	3,2		150	50	SX .4..	104	98,71	38,00

MonoClamp – Radial Monoholder SX

CERATIZIT \ Performance



Illustrations show right-hand versions

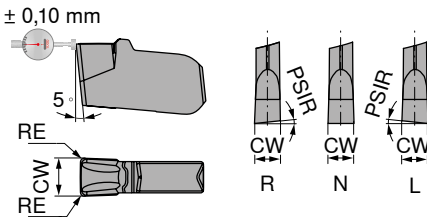
ISO designation	H mm	B mm	CW mm	WF mm	OAL mm	LH mm	l _s mm	OAH mm	CDX mm	a mm	Left-hand 70 846 ...			Right-hand 70 846 ...		
												EUR	EUR		EUR	EUR
E25 R/L 0026-2525M-K-SX3	25	25	3	23,8	150	33		31	26		32501	133,83	52,00	32500	133,83	52,00
E16 R/L 0026-1616K-K-SX2	16	16	2	15,2	125	32	33	26	26	4	21601	107,43	42,00	21600	107,43	42,00
E16 R/L 0026-1616K-K-SX3	16	16	3	14,8	125	32	33	26	26	4	31601	107,43	42,00	31600	107,43	42,00
E20 R/L 0026-2020K-K-SX2	20	20	2	19,2	125	32	33	31	26	5	22001	126,17	49,00	22000	126,17	49,00
E20 R/L 0026-2020K-K-SX3	20	20	3	18,8	125	32	33	31	26	5	32001	126,17	49,00	32000	126,17	49,00
E20 R/L 0033-2020K-K-SX4	20	20	4	18,3	125	39	40	32	33	5	42001	126,17	49,00	42000	126,17	49,00
E25 R 0033-2525M-K-SX4	25	25	4	23,3	150	41	42	37	33	5				42500	133,83	52,00
E25 R/L 0040-2525M-K-SX5	25	25	5	22,9	150	48	49	38	40	6	52501	133,83	52,00	52500	133,83	52,00
E25 R/L 0040-2525M-K-SX6	25	25	6	22,4	150	48	49	38	40	6	62501	133,83	52,00	62500	133,83	52,00
E25 L 0033-2525M-K-SX4	25	25	4	23,3	150	41	42	36	33	5	42501	133,83	52,00			

Insert SX

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



CERATIZIT \ Performance



Designation	IH	CW +/-0,05 mm	70 342 ...		
				EUR	EUR
SX E2.00 L 6	L	2	612	13,12	11,81
SX E3.00 L 6	L	3	613	13,97	12,57
SX E4.00 L 6	L	4	614	14,72	13,25
SX E2.00 N 0.20	N	2	622	13,12	11,81
SX E3.00 N 0.20	N	3	623	13,97	12,57
SX E4.00 N 0.30	N	4	624	14,72	13,25
SX E2.00 R 6	R	2	602	13,12	11,81
SX E3.00 R 6	R	3	603	13,97	12,57
SX E4.00 R 6	R	4	604	14,72	13,25
P				●	
M				●	
K				●	
N				○	
S				●	
H					
O				○	

SX-M1

Parting / Grooving



SX-M1	
Cutting width in mm	Feed rate f in mm/rev.
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



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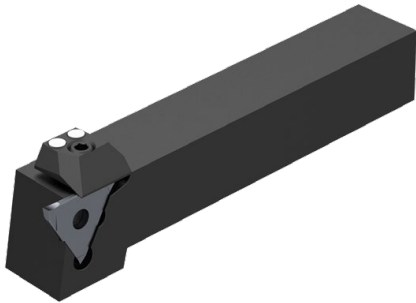
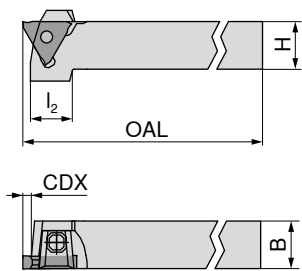


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guaranteed free express delivery

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

ISO designation	H mm	B $\pm 0,1$ mm	OAL mm	l_2 mm	CDX mm	for grooving inserts
R 207.1212.1	12	12	100	24	4	TX R/N/L ...1
R 207.1616.1	16	16	125	22	4	TX R/N/L ...1
R 207.2020.1	20	20	125	21	4	TX R/N/L ...1
R 207.2525.1	25	25	150		4	TX R/N/L ...1
R 207.1212.2	12	12	100	24	6	TX R/N/L ...2
R 207.1616.2	16	16	125	22	6	TX R/N/L ...2
R 207.2020.2	20	20	125	21	6	TX R/N/L ...2
R 207.2525.2	25	25	150		6	TX R/N/L ...2
R 207.1212.3	12	12	100	24	6	TX R/N/L ...3
R 207.1616.3	16	16	125	22	6	TX R/N/L ...3
R 207.2020.3	20	20	125	21	6	TX R/N/L ...3
R 207.2525.3	25	25	150		6	TX R/N/L ...3
R 207.3232.3	32	32	170		6	TX R/N/L ...3

Right-hand

73 500 ...

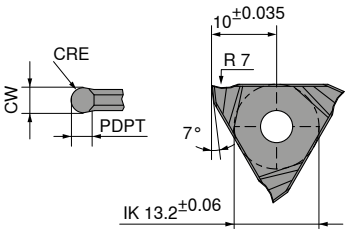
EUR EUR

112	441,68	43,00
116	99,59	38,00
120	77,23	30,00
125	81,04	31,00
212	441,68	43,00
216	99,59	38,00
220	77,23	30,00
225	81,04	31,00
312	441,68	43,00
316	99,59	38,00
320	77,23	30,00
325	81,04	31,00
332	94,57	37,00

Radial TX insert for corner recessing

- ▲ Full radius for cutting width 0.5–5.0 mm

CERATIZIT \ Performance



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

Nett Prices

CWX500



Neutral

73 304 ...

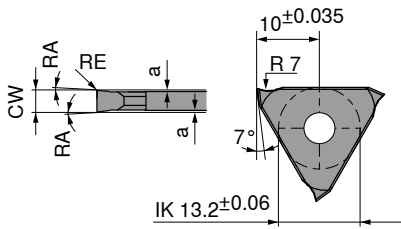
EUR EUR

204	27,84	27,84
206	29,73	29,73

TX insert for circlip grooves

- ▲ For circlip grooves according to DIN 471 / 472

CERATIZIT \ Performance



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

Nett Prices

CWX500



Neutral

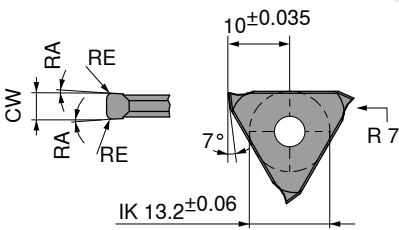
73 300 ...

EUR EUR

204	18,21	18,21
206	18,21	18,21
208	18,21	18,21
210	18,21	18,21
212	18,21	18,21
214	18,21	18,21
216	18,21	18,21
218	18,21	18,21
220	18,21	18,21
222	18,21	18,21
224	18,21	18,21
226	18,21	18,21
228	19,15	19,15

TX insert for fine and copy turning

CERATIZIT \ Performance



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

Nett Prices



CWX500



Neutral

73 303 ...

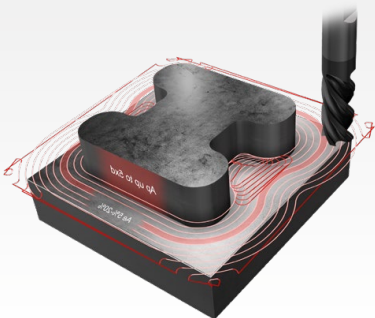
EUR EUR

204	22,55	22,55
206	22,55	22,55
208	22,55	22,55
212	23,72	23,72
210	23,72	23,72
214	23,72	23,72
218	23,97	23,97
216	23,97	23,97
220	23,97	23,97

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.





MINIATURE TURNING TOOLS



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



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

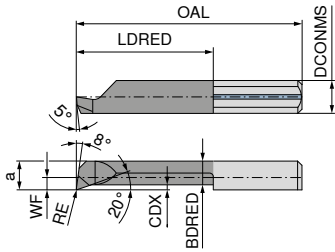
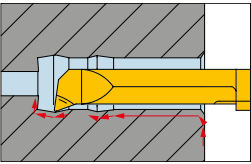
UltraMini – Inserts for internal turning and profiling

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance

Nett Prices



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

P	●
M	●
K	●
N	●
S	○
H	○
O	●

Right-hand

73 004 ...

EUR EUR

520	28,62	28,62
521	29,21	29,21
522	30,89	30,89
531	30,79	30,79
530	31,27	31,27
532	32,94	32,94
541	31,03	31,03
540	31,50	31,50
542	33,05	33,05
545	35,82	35,82
546	39,89	39,89
551	29,10	29,10
552	31,63	31,63
550	32,45	32,45
553	36,76	36,76
554	39,89	39,89
556	43,48	43,48
561	31,98	31,98
560	33,30	33,30
562	36,91	36,91
563	40,48	40,48
564	43,48	43,48
565	48,51	48,51
572	33,42	33,42
573	41,93	41,93
574	42,64	42,64
575	44,18	44,18
576	49,11	49,11
577	52,10	52,10
578	56,17	56,17

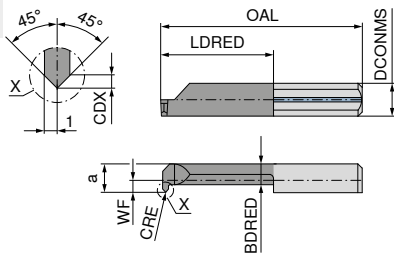
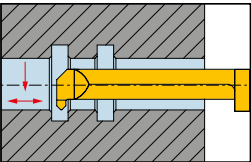
UltraMini – Inserts for internal turning and chamfering

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance

Nett Prices



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

P	●
M	●
K	●
N	●
S	○
H	○
O	●

Right-hand

73 006 ...

EUR EUR

551	29,21	29,21
550	30,89	30,89
570	34,26	34,26



Stock around the clock!



Tool Supply 24/7

If you install a Tool-O-Mat it means that we take on all the procurement and stocking costs for you. You have 100 % availability of all tools at all times and without expenditure.



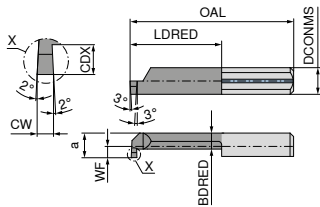
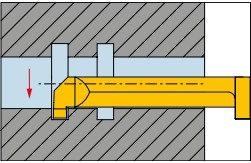
UltraMini – Inserts for Internal Grooving

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance

Nett Prices

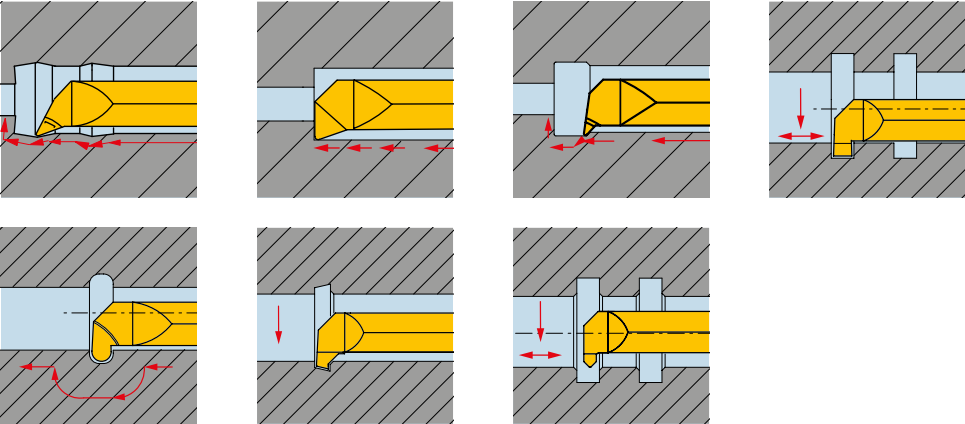


ISO designation	DCONMS _{g6}		WF	DMIN	a	OAL	LDRED	CDX	BDRED	CW
	mm	mm								
R 004.0100-10	4	1,5	4,0	3,5	24	10	0,8	2,4	1,0	
R 004.0100-16	4	1,5	4,0	3,5	30	16	0,8	2,4	1,0	
R 004.0100-20	4	1,5	4,0	3,5	34	20	0,8	2,4	1,0	
R 005.0100-10	5	1,9	5,0	4,4	25	10	1,0	3,3	1,0	
R 005.0150-10	5	1,9	5,0	4,4	25	10	1,0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

P	●
M	●
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O	●

Internal turning and profiling, grooving and chamfering

From Diameter 2.0 mm onwards



Miniature turning tools guide (Main catalogue 2021)

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

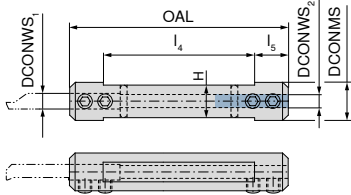
UltraMini – Standard tool holder for cutting inserts

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

Scope of supply:

Tool holder with allen key

WNT \ Performance



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

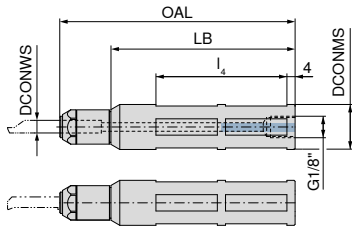
73 080 ...		
	EUR	EUR
163	94,57	37,00
164	99,26	99,26
165	106,92	41,00
166	99,26	99,26
167	106,92	41,00

UltraMini – Quick change tool holder for cutting inserts

Scope of supply:

Tool holder, lock nut and clamping wedge

WNT \ Performance

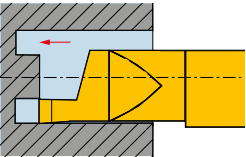


Designation	DCONWS	DCONMS _{g6}	OAL	LB	l ₄
	mm	mm	mm	mm	mm
UM600H.0012.4	4	12,00	115	90	64
UM600H.0016.4	4	16,00	115	90	64
UM600H.001905.4	4	19,05	115	90	64
UM600H.0020.4	4	20,00	115	90	64
UM600H.0022.4	4	22,00	115	90	64
UM600H.0025.4	4	25,00	115	90	64
UM600H.00254.4	4	25,40	115	90	64
UM600H.0028.4	4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

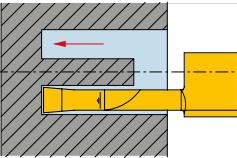
73 089 ...		
	EUR	EUR
124	241,47	93,00
164	219,41	85,00
194	234,74	91,00
204	231,92	89,00
224	235,77	91,00
254	240,43	93,00
264	244,88	95,00
284	244,88	95,00
125	241,47	93,00
165	219,41	85,00
195	234,74	91,00
205	231,92	89,00
225	235,77	91,00
255	240,43	93,00
265	244,88	95,00
285	244,88	95,00
126	241,47	93,00
166	219,41	85,00
196	234,74	91,00
206	231,92	89,00
226	235,77	91,00
256	240,43	93,00
266	244,88	95,00
286	244,88	95,00
127	241,47	93,00
167	219,41	85,00
197	234,74	91,00
207	231,92	89,00
227	235,77	91,00
257	240,43	93,00
267	244,88	95,00
287	244,88	95,00

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

Axial grooving

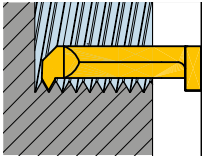


Minimum external diameter of groove 6.0 mm
At 1.5 mm grooving width
Up to 2.0 mm grooving depth



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

Thread turning



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

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



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

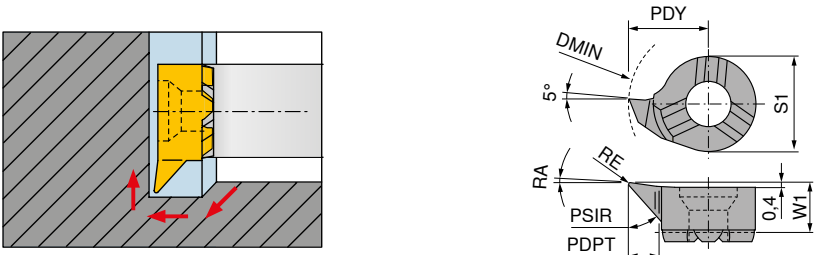


Order by 6:00 pm and get your
guaranteed free express delivery

MiniCut – Internal undercut insert

▲ CDX = ap_{max} (material dependant)

WNT \ Performance

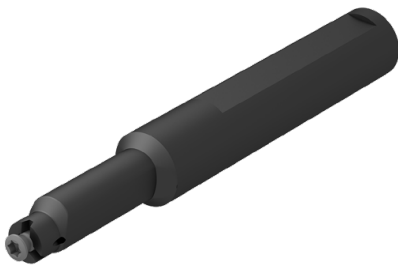
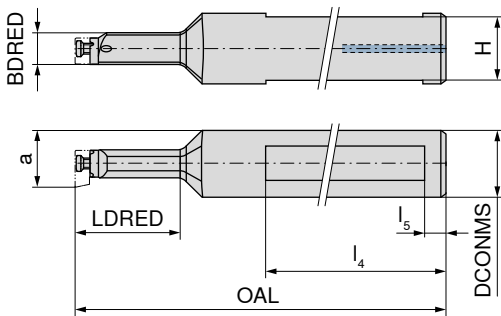


Nett Prices

Size	ISO designation	DMIN mm	PDPT mm	W1 mm	PDY mm	S1 mm	RE mm	CDX mm	PSIR °	RA °		Right-hand
08	8,00. R .30°1,0	7,8	1,0	3,5	4,65	6	0,2	0,4	30	3		73 326 ...
	8,00. R .47°1,2	7,8	1,2	3,5	4,65	6	0,2	0,4	47	3		EUR EUR
11	11,00. R .30°2,3	11,0	2,3	4,2	6,70	8	0,2	0,6	30	3		010 22,15 22,15
	11,00. R .47°2,3	11,0	2,3	4,2	6,70	8	0,2	0,6	47	3		012 19,16 19,16
14	13,70. R .47°3,0	13,7	3,0	5,3	8,70	9	0,2	0,8	47	3		423 21,55 21,55
	13,70. R .30°4,0	13,7	4,0	5,3	8,70	9	0,2	0,8	30	3		323 18,69 18,69
P												530 19,16 19,16
M												540 22,15 22,15
K												
N												
S												
H												
O												

MiniCut – Steel Tool holder

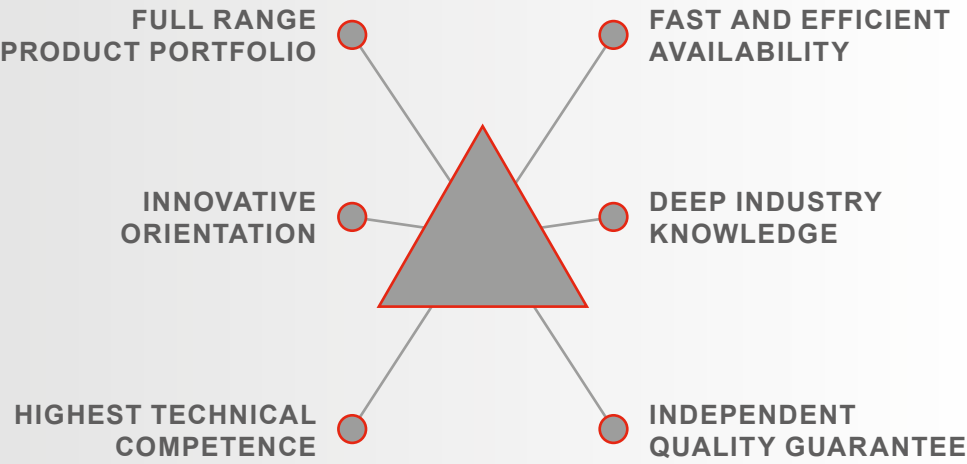
WNT \ Performance



Nett Prices

Designation	a mm	DCONMS ₁₇ mm	OAL mm	l ₄ mm	LDRED mm	BDRED mm	H mm	l ₅ mm		73 522 ...
8,00/16.N.12.1,0	7,8	16	80	60	12	6	15,0	5		EUR EUR
8,00/16.N.22.1,0	7,8	16	90	60	22	6	15,0	5		012 88,64 88,64
11,00/16.N.16.2,3	10,7	16	97	60	16	8	14,5	5		122 101,62 101,62
11,00/16.N.29.2,3	10,7	16	110	60	29	8	14,5	5		016 88,64 88,64
14,00/16.N.18.4,0	13,8	16	100	60	18	11	14,5	5		129 101,62 101,62
14,00/16.N.38.4,0	13,8	16	120	60	38	11	14,5	5		018 101,62 101,62
										138 101,62 101,62

The Cutting Tool Solution is





SOLID CARBIDE MILLING CUTTERS



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



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



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



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

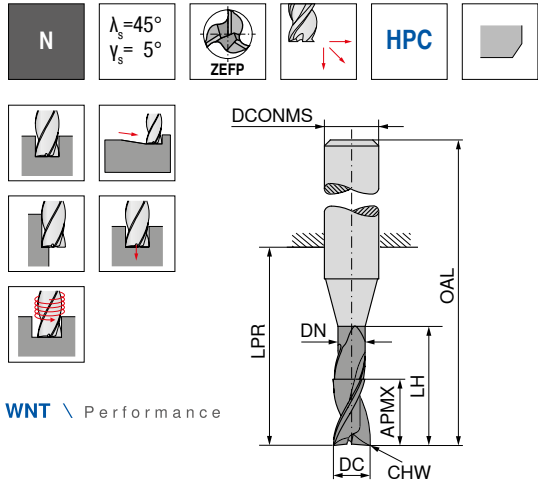
FIRST CHOICE FOR HIGH PERFORMANCE SOLID CARBIDE MILLING APPLICATIONS



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



SilverLine – End milling cutter



Nett Prices

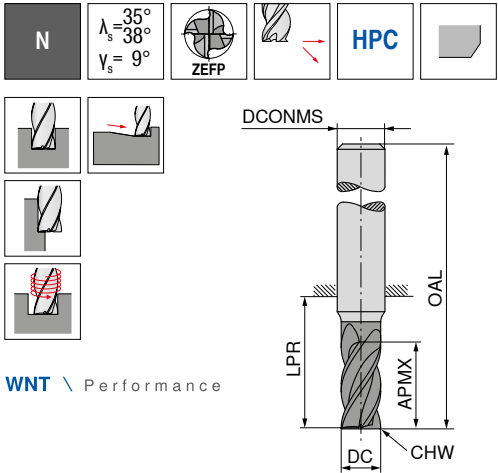
DC _{fl}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
3,0	8	2,9	15	21	57	6	0,1	3
3,5	11	3,4	16	21	57	6	0,1	3
4,0	8	3,9	15	18	54	6	0,1	3
4,0	11	3,9	16	21	57	6	0,1	3
4,0	16			26	62	6	0,1	3
4,5	13	4,4	19	21	57	6	0,1	3
5,0	9	4,9	16	18	54	6	0,1	3
5,0	13	4,9	19	21	57	6	0,1	3
5,0	17			26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

DPB72S	DPB72S	DPB72S
DRAGONS	DRAGONS	DRAGONS
≈DIN 6527	≈DIN 6527	≈DIN 6527
HB	HB	HB
50 966 ...	50 966 ...	50 966 ...
EUR EUR	EUR EUR	EUR EUR
04100	03200 50,19 03700 50,19	04400 51,02
05100	04200 48,39 04700 50,19	05400 51,02
06100	05200 48,39 05700 52,65	06400 56,57
08100	06200 50,91 06700 61,22 07200 61,22 07700 61,22	08400 63,55
10100	08200 59,45 08700 102,02 09200 102,02 09700 102,02	10400 113,13
12100	10200 100,15 10200 100,15	12400 153,59
14100	12200 135,59 12200 135,59	14400 198,93
16100	14200 178,85 14200 178,85	16400 306,88
18100	16200 303,57 16200 303,57	18400 395,68
20100	18200 312,88 18200 312,88	20400 456,85



SilverLine – End milling cutter



Nett Prices

ZEFP							HA		HB		HA		HB	
DC ₁₈	APMX	LPR	OAL	DCONMS ₁₈	CHW ₁₈	ZEFP	50 972 ...		50 973 ...		50 972 ...		50 973 ...	
mm	mm	mm	mm	mm	mm		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
3,0	5	14	50	6	0,1	4	03100	41,52	41,52	41,52	03200	41,52	41,52	41,52
3,0	8	21	57	6	0,1	4	03600	41,52	41,52	41,52	03700	41,52	41,52	41,52
3,5	8	18	54	6	0,1	4	04100	41,52	41,52	41,52	04200	41,52	41,52	41,52
3,5	11	21	57	6	0,1	4	04600	42,38	42,38	42,38	04700	42,38	42,38	42,38
4,0	8	18	54	6	0,1	4	05100	42,38	42,38	42,38	05200	42,38	42,38	42,38
4,0	11	21	57	6	0,1	4	05600	41,01	41,01	41,01	05700	41,01	41,01	41,01
4,5	9	18	54	6	0,1	4	06100	41,01	41,01	41,01	06200	41,01	41,01	41,01
4,5	13	21	57	6	0,1	4	07100	54,53	54,53	54,53	07200	54,53	54,53	54,53
5,0	9	18	54	6	0,1	4	08100	54,53	54,53	54,53	08200	54,53	54,53	54,53
5,0	13	21	57	6	0,1	4	09100	71,16	71,16	71,16	09200	71,16	71,16	71,16
5,5	10	18	54	6	0,1	4	10100	71,16	71,16	71,16	10200	71,16	71,16	71,16
5,5	13	21	57	6	0,1	4	11100	112,50	112,50	112,50	11200	112,50	112,50	112,50
6,0	10	18	54	6	0,1	4	12100	112,50	112,50	112,50	12200	112,50	112,50	112,50
6,0	13	21	57	6	0,1	4	14100	144,59	144,59	144,59	14200	144,59	144,59	144,59
7,0	12	22	58	8	0,2	4	15100	178,54	178,54	178,54	15200	178,54	178,54	178,54
7,0	21	27	63	8	0,2	4	16100	178,54	178,54	178,54	16200	178,54	178,54	178,54
8,0	12	22	58	8	0,2	4	17100	242,81	242,81	242,81	17200	242,81	242,81	242,81
8,0	21	27	63	8	0,2	4	18100	242,81	242,81	242,81	18200	242,81	242,81	242,81
9,0	14	26	66	10	0,2	4	19100	275,52	275,52	275,52	19200	275,52	275,52	275,52
9,0	22	32	72	10	0,2	4	20100	275,52	275,52	275,52	20200	275,52	275,52	275,52
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														

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SilverLine – End milling cutter

▲ Especially for high-volume milling

N

$\lambda_s=17^\circ$
 $\gamma_s=45^\circ$
 $\gamma_s=15^\circ$

DPB72S

DRAGONSKIN

DPB72S

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WNT \ Performance

Nett Prices

DC	APMX	DN	LH	LPR	OAL	DCONMS	h6	CHW	ZEFP	50 976 ...	50 977 ...
mm	mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
3	8	2,8	13	21	57	6	0,1	4	03200	44,59	44,59
4	11	3,8	17	21	57	6	0,1	4	04200	44,59	44,59
5	13	4,8	19	21	57	6	0,1	4	05200	44,59	44,59
6	13	5,8	19	21	57	6	0,1	4	06200	44,59	44,59
8	21	7,7	25	27	63	8	0,2	4	08200	60,10	60,10
10	22	9,7	30	32	72	10	0,2	4	10200	87,96	87,96
12	26	11,6	36	38	83	12	0,3	4	12200	112,40	112,40
14	26	13,6	36	38	83	14	0,3	4	14200	155,35	155,35
16	36	15,5	42	44	92	16	0,3	4	16200	253,58	253,58
18	36	17,5	42	44	92	18	0,3	4	18200	332,65	332,65
20	41	19,5	52	54	104	20	0,3	4	20200	345,79	345,79

P

M

K

N

S

H

O

SilverLine – Rough milling cutter

▲ With roughing profile

NR

$\lambda_s=35^\circ$
 $\gamma_s=38^\circ$
 $\gamma_s=9^\circ$

DPB72S

DRAGONSKIN

WNT \ Performance

Nett Prices

DC	APMX	DN	LH	LPR	OAL	DCONMS	h6	CHW	ZEFP	50 979 ...	
mm	mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
3,0	8	2,8	13	21	57	6	0,1	4	03200	70,37	70,37
3,5	11	3,3	17	21	57	6	0,1	4	03700	70,37	70,37
4,0	11	3,8	17	21	57	6	0,1	4	04200	70,37	70,37
4,5	13	4,3	19	21	57	6	0,1	4	04700	70,37	70,37
5,0	13	4,8	19	21	57	6	0,1	4	05200	70,37	70,37
5,5	13	5,3	19	21	57	6	0,1	4	05700	70,37	70,37
6,0	13	5,8	19	21	57	6	0,1	4	06200	70,37	70,37
7,0	21	6,7	25	27	63	8	0,2	4	07200	74,99	74,99
8,0	21	7,7	25	27	63	8	0,2	4	08200	74,99	74,99
9,0	22	8,7	30	32	72	10	0,2	4	09200	93,19	93,19
10,0	22	9,7	30	32	72	10	0,2	4	10200	93,19	93,19
11,0	26	10,6	36	38	83	12	0,3	4	11200	147,28	147,28
12,0	26	11,6	36	38	83	12	0,3	4	12200	147,28	147,28
14,0	26	13,6	36	38	83	14	0,3	4	14200	189,30	189,30
15,0	36	14,5	42	44	92	16	0,3	4	15200	233,81	233,81
16,0	36	15,5	42	44	92	16	0,3	4	16200	233,81	233,81
17,0	36	16,5	42	44	92	18	0,3	4	17200	276,24	276,24
18,0	36	17,5	42	44	92	18	0,3	4	18200	276,24	276,24
19,0	41	18,5	52	54	104	20	0,3	4	19200	360,70	360,70
20,0	41	19,5	52	54	104	20	0,3	4	20200	360,49	360,49

P

M

K

N

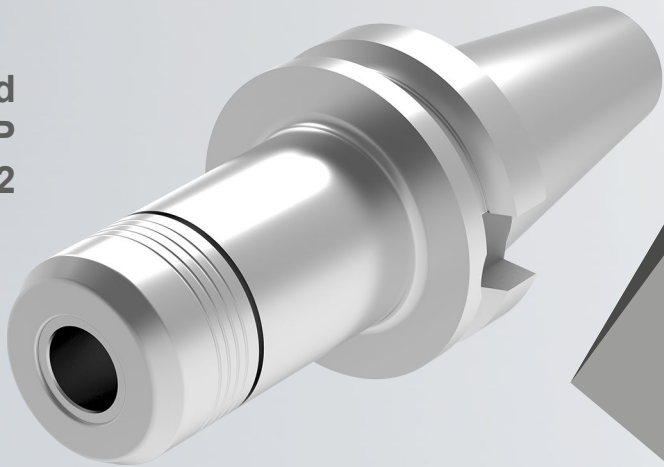
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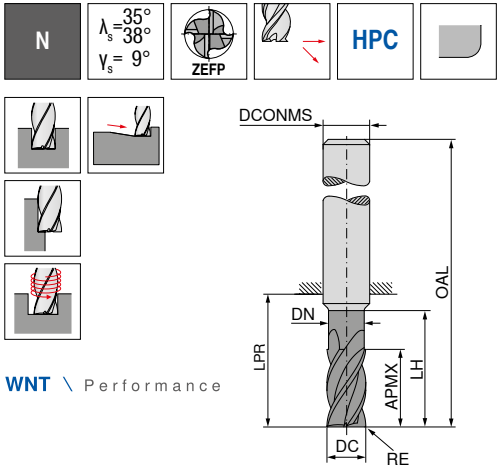
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TEAM CUTTING TOOLS



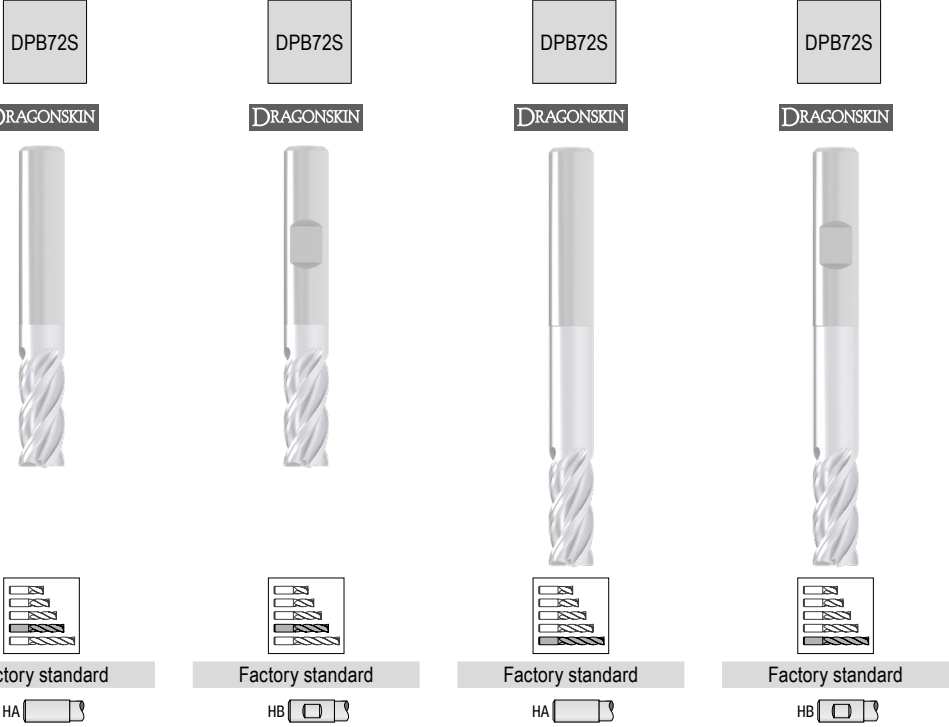
SilverLine – End milling cutter with corner radius



Nett Prices

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

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



50 970 ...			50 971 ...			50 970 ...			50 971 ...		
EUR			EUR			EUR			EUR		
03201	55,95	55,95	03201	55,95	55,95						
03204	55,95	55,95	03204	55,95	55,95						
03205	55,95	55,95	03205	55,95	55,95						
03210	55,95	55,95	03210	55,95	55,95						
						03405	65,77	65,77	03405	65,77	65,77
						03403	65,77	65,77	03403	65,77	65,77
						03408	65,77	65,77	03408	65,77	65,77
04204	55,95	55,95	04204	55,95	55,95						
04201	55,95	55,95	04201	55,95	55,95						
04205	55,95	55,95	04205	55,95	55,95						
04210	55,95	55,95	04210	55,95	55,95						
						04405	65,77	65,77	04405	65,77	65,77
						04404	65,77	65,77	04404	65,77	65,77
						04408	65,77	65,77	04408	65,77	65,77
05210	56,87	56,87	05210	56,87	56,87						
05201	56,87	56,87	05201	56,87	56,87						
05205	56,87	56,87	05205	56,87	56,87						
						05408	66,80	66,80	05408	66,80	66,80
						05405	66,80	66,80	05405	66,80	66,80
06210	55,49	55,49	06210	55,49	55,49						
06201	55,49	55,49	06201	55,49	55,49						
06205	55,49	55,49	06205	55,49	55,49						
06215	55,49	55,49	06215	55,49	55,49						
						06408	66,80	66,80	06408	66,80	66,80
						06406	66,80	66,80	06406	66,80	66,80
						06410	66,80	66,80	06410	66,80	66,80
08205	69,57	69,57	08205	69,57	69,57						
08202	69,57	69,57	08202	69,57	69,57						
08210	69,57	69,57	08210	69,57	69,57						
08215	69,57	69,57	08215	69,57	69,57						
08220	69,57	69,57	08220	69,57	69,57						
						08415	80,89	80,89	08415	80,89	80,89
						08408	80,89	80,89	08408	80,89	80,89
						08410	80,89	80,89	08410	80,89	80,89
						08420	80,89	80,89	08420	80,89	80,89
10202	86,94	86,94	10202	86,94	86,94						
10205	86,94	86,94	10205	86,94	86,94						
10210	86,94	86,94	10210	86,94	86,94						
10215	86,94	86,94	10215	86,94	86,94						
10220	86,94	86,94	10220	86,94	86,94						
						10415	100,05	100,05	10415	100,05	100,05
						10405	100,05	100,05	10405	100,05	100,05
						10410	100,05	100,05	10410	100,05	100,05
						10420	100,05	100,05	10420	100,05	100,05
12202	134,24	134,24	12202	134,24	134,24						
12205	134,24	134,24	12205	134,24	134,24						
12210	134,24	134,24	12210	134,24	134,24						
12215	134,24	134,24	12215	134,24	134,24						
12220	134,24	134,24	12220	134,24	134,24						
12230	134,24	134,24	12230	134,24	134,24						
12240	134,24	134,24	12240	134,24	134,24						
						12420	151,94	151,94	12420	151,94	151,94
						12405	151,94	151,94	12405	151,94	151,94
						12410	151,94	151,94	12410	151,94	151,94
						12415	151,94	151,94	12415	151,94	151,94
14203	202,96	202,96	14203	202,96	202,96						
14210	202,96	202,96	14210	202,96	202,96						
14220	202,96	202,96	14220	202,96	202,96						
14230	202,96	202,96	14230	202,96	202,96						
14240	202,96	202,96	14240	202,96	202,96						
						14430	227,70	227,70	14430	227,70	227,70
						14410	227,70	227,70	14410	227,70	227,70
						14420	227,70	227,70	14420	227,70	227,70
						14440	227,70	227,70	14440	227,70	227,70
16210	202,96	202,96	16210	202,96	202,96						
16203	202,96	202,96	16203	202,96	202,96						
16220	202,96	202,96	16220	202,96	202,96						
16230	202,96	202,96	16230	202,96	202,96						
16240	202,96	202,96	16240	202,96	202,96						
						16430	249,75	249,75	16430	249,75	249,75
						16410	249,75	249,75	16410	249,75	249,75
						16420	249,75	249,75	16420	249,75	249,75
						16440	249,75	249,75	16440	249,75	249,75
18210	270,03	270,03	18210	270,03	270,03						
18220	270,03	270,03	18220	270,03	270,03						
18230	270,03	270,03	18230	270,03	270,03						
18240	270,03	270,03	18240	270,03	270,03						
						18430	301,29	301,29	18430	301,29	301,29
						18410	301,29	301,29	18410	301,29	301,29
						18420	301,29	301,29	18420	301,29	301,29
						18440	301,29	301,29	18440	301,29	301,29
20203	304,08	304,08	20203	304,08	304,08						
20210	304,08	304,08	20210	304,08	304,08						
20220	304,08	304,08	20220	304,08	304,08						
20230	304,08	304,08	20230	304,08	304,08						
20240	304,08	304,08	20240	304,08	304,08						
						20430	338,65	338,65	20430	338,65	338,65
						20410	338,65	338,65	20410	338,65	338,65
						20420	338,65	338,65	20420	338,65	338,65
						20440	338,65	338,65	20440	338,65	338,65

SilverLine – End milling cutter

N

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

WNT \ Performance

Nett Prices

DC _{es}	APMX	LPR	OAL	DCONMS _{h6}	α°	ZEFP	50 993 ...		50 995 ...		
mm	mm	mm	mm	mm			EUR	EUR	EUR	EUR	
6	10	18	54	6	45	5	06100	45.12	45.12	06100	45.12
8	12	22	58	8	45	5	08100	59.99	59.99	08100	59.99
10	14	26	66	10	45	5	10100	78.28	78.28	10100	78.28
12	16	28	73	12	45	5	12100	123.79	123.79	12100	123.79
16	22	34	82	16	45	5	16100	196.44	196.44	16100	196.44
20	26	42	92	20	45	5	20100	303.05	303.05	20100	303.05

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DPB72S

DRAGONSKIN

WNT \ Performance

Nett Prices

DC _{es}	APMX	LPR	OAL	DCONMS _{h6}	α°	ZEFP	50 993 ...		50 995 ...		
mm	mm	mm	mm	mm			EUR	EUR	EUR	EUR	
6	10	18	54	6	45	5	06100	45.12	45.12	06100	45.12
8	12	22	58	8	45	5	08100	59.99	59.99	08100	59.99
10	14	26	66	10	45	5	10100	78.28	78.28	10100	78.28
12	16	28	73	12	45	5	12100	123.79	123.79	12100	123.79
16	22	34	82	16	45	5	16100	196.44	196.44	16100	196.44
20	26	42	92	20	45	5	20100	303.05	303.05	20100	303.05

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SilverLine – End milling cutter

N

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

WNT \ Performance

Nett Prices

DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	α°	ZEFP	50 994 ...		50 996 ...		
mm	mm	mm	mm	mm	mm	mm			EUR	EUR	EUR	EUR	
6	13	5.8	19	21	57	6	45	5	06200	44.73	44.73	06200	44.73
8	21	7.7	25	27	63	8	45	5	08200	61.01	61.01	08200	61.01
10	22	9.7	30	32	72	10	45	5	10200	89.31	89.31	10200	89.31
12	26	11.6	36	38	83	12	45	5	12200	108.68	108.68	12200	108.68
16	36	15.5	42	44	92	16	45	5	16200	252.44	252.44	16200	252.44
20	41	19.5	52	54	104	20	45	5	20200	345.48	345.48	20200	345.48

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DPB72S

DRAGONSKIN

WNT \ Performance

Nett Prices

DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	α°	ZEFP	50 994 ...		50 996 ...		
mm	mm	mm	mm	mm	mm	mm			EUR	EUR	EUR	EUR	
6	13	5.8	19	21	57	6	45	5	06200	44.73	44.73	06200	44.73
8	21	7.7	25	27	63	8	45	5	08200	61.01	61.01	08200	61.01
10	22	9.7	30	32	72	10	45	5	10200	89.31	89.31	10200	89.31
12	26	11.6	36	38	83	12	45	5	12200	108.68	108.68	12200	108.68
16	36	15.5	42	44	92	16	45	5	16200	252.44	252.44	16200	252.44
20	41	19.5	52	54	104	20	45	5	20200	345.48	345.48	20200	345.48

P

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SilverLine – End milling cutter with corner radius

N

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

WNT \ Performance

Nett Prices

DC _{es}	RE _{±0.01}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP	50 997 ...		50 998 ...		
mm	mm	mm	mm	mm	mm		EUR	EUR	EUR	EUR	
6	0.2	13	21	57	6	5	06202	64.36	64.36	06202	64.36
6	0.5	13	21	57	6	5	06205	64.36	64.36	06205	64.36
6	1.0	13	21	57	6	5	06210	64.36	64.36	06210	64.36
8	0.2	21	27	63	8	5	08202	80.71	80.71	08202	80.71
8	0.5	21	27	63	8	5	08205	80.71	80.71	08205	80.71
8	1.0	21	27	63	8	5	08210	80.71	80.71	08210	80.71
8	1.5	21	27	63	8	5	08215	80.71	80.71	08215	80.71
10	0.2	22	32	72	10	5	10202	100.84	100.84	10202	100.84
10	0.5	22	32	72	10	5	10205	100.84	100.84	10205	100.84
10	1.0	22	32	72	10	5	10210	100.84	100.84	10210	100.84
10	1.5	22	32	72	10	5	10215	100.84	100.84	10215	100.84
10	1.6	22	32	72	10	5	10216	100.84	100.84	10216	100.84
10	2.0	22	32	72	10	5	10220	100.84	100.84	10220	100.84
12	0.3	26	38	83	12	5	12203	155.77	155.77	12203	155.77
12	0.5	26	38	83	12	5	12205	155.77	155.77	12205	155.77
12	1.0	26	38	83	12	5	12210	155.77	155.77	12210	155.77
12	1.5	26	38	83	12	5	12215	155.77	155.77	12215	155.77
12	1.6	26	38	83	12	5	12216	155.77	155.77	12216	155.77
12	2.0	26	38	83	12	5	12220	155.77	155.77	12220	155.77
12	2.5	26	38	83	12	5	12225	155.77	155.77	12225	155.77
16	0.3	36	44	92	16	5	16203	235.46	235.46	16203	235.46
16	0.5	36	44	92	16	5	16205	235.46	235.46	16205	235.46
16	1.0	36	44	92	16	5	16210	235.46	235.46	16210	235.46
16	1.5	36	44	92	16	5	16215	235.46	235.46	16215	235.46
16	1.6	36	44	92	16	5	16216	235.46	235.46	16216	235.46
16	2.0	36	44	92	16	5	16220	235.46	235.46	16220	235.46
16	2.5	36	44	92	16	5	16225	235.46	235.46	16225	235.46
16	3.0	36	44	92	16	5	16230	235.46	235.46	16230	235.46
20	0.3	41	54	104	20	5	20203	352.73	352.73	20203	352.73
20	0.5	41	54	104	20	5	20205	352.73	352.73	20205	352.73
20	1.0	41	54	104	20	5	20210	352.73	352.73	20210	352.73
20	1.5	41	54	104	20	5	20215	352.73	352.73	20215	352.73
20	1.6	41	54	104	20	5	20216	352.73	352.73	20216	352.73
20	2.0	41	54	104	20	5	20220	352.73	352.73	20220	352.73
20	2.5	41	54	104	20	5	20225	352.73	352.73	20225	352.73
20	3.0	41	54	104	20	5	20230	352.73	352.73	20230	352.73
20	4.0	41	54	104	20	5	20240	352.73	352.73	20240	352.73

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DPB72S

DRAGONSKIN

WNT \ Performance

Nett Prices

DC _{es}	RE _{±0.01}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP	50 997 ...		50 998 ...		
mm	mm	mm	mm	mm	mm		EUR	EUR	EUR	EUR	
6	0.2	13	21	57	6	5	06202	64.36	64.36	06202	64.36
6	0.5	13	21	57	6	5	06205	64.36	64.36	06205	64.36
6	1.0	13	21	57	6	5	06210	64.36	64.36	06210	64.36
8	0.2	21	27	63	8	5	08202	80.71	80.71	08202	80.71
8	0.5	21	27	63	8	5	08205	80.71	80.71	08205	80.71
8	1.0	21	27	63	8	5	08210	80.71	80.71	08210	80.71
8	1.5	21	27	63	8	5	08215	80.71	80.71	08215	80.71
10	0.2	22	32	72	10	5	10202	100.84	100.84	10202	100.84
10	0.5	22	32	72	10	5	10205	100.84	100.84	10205	100.84
10	1.0	22	32	72	10	5	10210	100.84	100.84	10210	100.84
10	1.5	22	32	72	10	5	10215	100.84	100.84	10215	100.84
10	1.6	22	32	72	10	5	10216	100.84	100.84	10216	100.84
10	2.0	22	32	72	10	5	10220	100.84	100.84	10220	100.84
12	0.3	26	38	83	12	5	12203	155.77	155.77	12203	155.77
12	0.5	26	38	83	12	5	12205	155.77	155.77	12205	155.77
12	1.0	26	38	83	12	5	12210	155.77	155.77	12210	155.77
12	1.5	26	38	83	12	5	12215	155.77	155.77	12215	155.77
12	1.6	26	38	83	12	5	12216	155.77	155.77	12216	155.77
12	2.0	26	38	83	12	5	12220	155.77	155.77	12220	155.77
12	2.5	26	38	83	12	5	12225	155.77	155.77	12225	155.77
16	0.3	36	44	92	16	5	16203	235.46	235.46	16203	235.46
16	0.5	36	44	92	16	5	16205	235.46	235.46	16205	235.46
16	1.0	36	44	92	16	5	16210	235.46	235.46	16210	235.46
16	1.5	36	44	92	16	5	16215	235.46	235.46	16215	235.46
16	1.6	36	44	92	16	5	16216	235.46	235.46	16216	235.46
16	2.0	36	44	92	16	5	16220	235.46	235.46	16220	235.46
16	2.5	36	44	92	16	5	16225	235.46	235.46	16225	235.46
16	3.0	36	44	92	16	5	16230	235.46	235.46	16230	235.46
20	0.3	41	54	104	20	5	20203	352.73	352.73	20203	352.73
20	0.5	41	54	104	20	5	20205	352.73	352.73	20205	352.73
20	1.0	41	54	104	20	5	20210	352.73	352.73	20210	352.73
20	1.5	41	54	104	20	5	20215	352.73	352.73	20215	352.73
20	1.6	41	54	104	20	5	20216	352.73	352.73	20216	352.73
20	2.0	41	54	104	20	5	20220	352.73	352.73	20220	352.73
20	2.5	41	54	104	20	5	20225	352.73	352.73	20225	352.73
20	3.0	41	54	104	20	5	20230	352.73	352.73	20230	352.73

SilverLine – Ball Nosed Cutter

N

$\lambda_s=30^\circ$
 $\gamma_s=6^\circ$

DPB72S

DRAGONSKIN

Factory standard

HA

50 963 ...

DC _{fr}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	
mm	mm	mm	mm	mm	mm	mm		
3	4	2,8	10,0	14	50	6	2	03115
3	7	3,0	8,8	24	60	6	2	
4	8	3,8	12,0	18	54	6	2	04120
4	10	4,0	12,5	39	75	6	2	
5	9	4,8	16,0	18	54	6	2	05125
5	12	5,0	15,0	39	75	6	2	
6	10	5,7	16,0	18	54	6	2	06130
6	12	6,0	15,0	64	100	6	2	
7	11	6,6	20,0	22	58	8	2	07135
8	12	7,6	20,0	22	58	8	2	08140
8	14	8,0	17,5	64	100	8	2	
10	14	9,6	24,0	26	66	10	2	10150
10	18	10,0	22,5	60	100	10	2	
12	16	11,5	26,0	28	73	12	2	12160
12	22	12,0	27,5	55	100	12	2	
14	18	13,3	28,0	30	75	14	2	14170
14	26	14,0	32,5	75	120	14	2	
16	22	15,2	32,0	34	82	16	2	16180
16	30	16,0	37,5	102	150	16	2	
18	24	17,1	34,0	36	84	18	2	18190
20	26	19,0	40,0	42	92	20	2	20110
20	38	20,0	47,5	100	150	20	2	

P	●	●
M		○
K	●	●
N	○	○
S		
H	○	○
O		

DPB72S

DRAGONSKIN

Factory standard

HA

50 963 ...

DC _{fr}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	
mm	mm	mm	mm	mm	mm	mm		
3	4	2,8	10,0	14	50	6	2	03115
3	7	3,0	8,8	24	60	6	2	
4	8	3,8	12,0	18	54	6	2	04120
4	10	4,0	12,5	39	75	6	2	
5	9	4,8	16,0	18	54	6	2	05125
5	12	5,0	15,0	39	75	6	2	
6	10	5,7	16,0	18	54	6	2	06130
6	12	6,0	15,0	64	100	6	2	
7	11	6,6	20,0	22	58	8	2	07135
8	12	7,6	20,0	22	58	8	2	08140
8	14	8,0	17,5	64	100	8	2	
10	14	9,6	24,0	26	66	10	2	10150
10	18	10,0	22,5	60	100	10	2	
12	16	11,5	26,0	28	73	12	2	12160
12	22	12,0	27,5	55	100	12	2	
14	18	13,3	28,0	30	75	14	2	14170
14	26	14,0	32,5	75	120	14	2	
16	22	15,2	32,0	34	82	16	2	16180
16	30	16,0	37,5	102	150	16	2	
18	24	17,1	34,0	36	84	18	2	18190
20	26	19,0	40,0	42	92	20	2	20110
20	38	20,0	47,5	100	150	20	2	

P	●	●
M		○
K	●	●
N	○	○
S		
H	○	○
O		

SilverLine – Ball Nosed Cutter

N

$\lambda_s=35^\circ$
 $\gamma_s=38^\circ$
 $\gamma_s=7^\circ$

DPB72S

DRAGONSKIN

Factory standard

HA

50 990 ...

DC _{fr}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP	
mm	mm	mm	mm	mm		
4	11	21	57	6	4	04220
5	13	21	57	6	4	05225
6	13	21	57	6	4	06230
8	19	36	72	8	4	08280
10	22	32	72	10	4	10250
12	26	38	83	12	4	12260
16	32	44	92	16	4	16280
20	38	54	104	20	4	20210

P	●
M	○
K	●
N	○
S	
H	
O	

DPB72S

DRAGONSKIN

Factory standard

HA

50 990 ...

DC _{fr}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP	
mm	mm	mm	mm	mm		
4	11	21	57	6	4	04220
5	13	21	57	6	4	05225
6	13	21	57	6	4	06230
8	19	36	72	8	4	08280
10	22	32	72	10	4	10250
12	26	38	83	12	4	12260
16	32	44	92	16	4	16280
20	38	54	104	20	4	20210

P	●
M	○
K	●
N	○
S	
H	
O	

SilverLine – NC deburring cutter

▲ High performance 5 flute chamfering tool

N

$\lambda_s=0^\circ$
 $\gamma_s=5^\circ$

DPB72S

DRAGONSKIN

Factory standard

HA

50 562 ...

DC _{h6}	OAL	LPR	DCONMS _{h6}	ZEFP	
mm	mm	mm	mm		
4	50	22	4	5	04000
6	55	19	6	5	06000
8	58	22	8	5	08000
10	60	20	10	5	10000
12	70	25	12	5	12000
16	80	32	16	5	16000

P	●
M	●
K	●
N	
S	●
H	
O	

DPB72S

DRAGONSKIN

Factory standard

HB

50 563 ...

DC _{h6}	OAL	LPR	DCONMS _{h6}	ZEFP	
mm	mm	mm	mm		
4	50	22	4	5	04000
6	55	19	6	5	06000
8	58	22	8	5	08000
10	60	20	10	5	10000
12	70	25	12	5	12000
16	80	32	16	5	16000

P	●
M	●
K	●
N	
S	●
H	
O	

DPB72S

DRAGONSKIN

Factory standard

HA

50 560 ...

DC _{h6}	OAL	LPR	DCONMS _{h6}	ZEFP	
mm	mm	mm	mm		
4	50	22	4	5	04000
6	55	19	6	5	06000
8	58	22	8	5	08000
10	60	20	10	5	10000
12	70	25	12	5	12000
16	80	32	16	5	16000

P	●
M	●
K	●
N	
S	●
H	
O	

DPB72S

DRAGONSKIN

Factory standard

HB

50 561 ...

DC _{h6}	OAL	LPR	DCONMS _{h6}	ZEFP	
mm	mm	mm	mm		
4	50	22	4	5	04000
6	55	19	6	5	06000
8	58	22	8	5	08000
10	60	20	10	5	10000
12	70	25	12	5	12000
16	80	32	16	5	16000

P	●
M	●
K	●
N	
S	●
H	
O	



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Order by 6:00 pm and get your
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With optimised coating and geometry for the effective machining of aluminium and non-ferrous metals

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

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

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

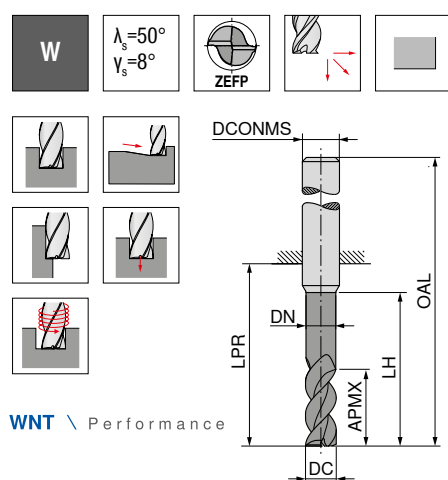
Our AluLine milling cutter impresses with its outstanding coating.
It achieves first-rate results even in dry machining.

Product Manager CERATIZIT, Michael Wucher



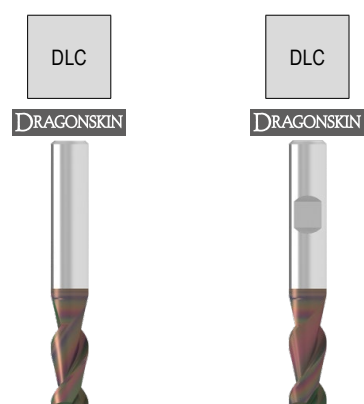
Cutting datas can be found in our main catalogue,
Chapter 14 Solid Carbide milling cutters on page 390–394

▲ With polished chip flutes

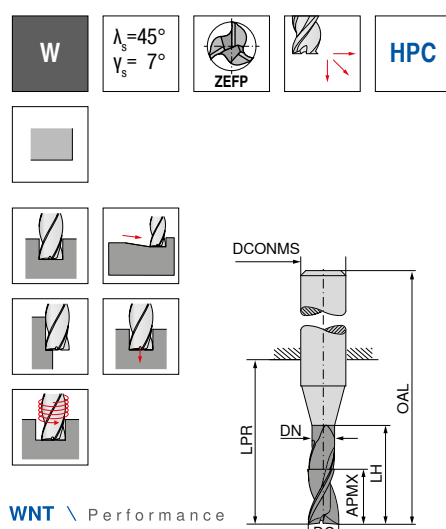


DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	mm	mm	mm	
5.0	10.5	4.8	15	22	58	6	2
5.5	13.0	5.3	18	22	58	6	2
6.0	13.0	5.8	18	22	58	6	2
6.5	17.0	6.2	24	28	64	8	2
7.0	17.0	6.7	24	28	64	8	2
7.5	17.0	7.2	24	28	64	8	2
8.0	17.0	7.7	24	28	64	8	2
8.5	21.0	8.2	30	34	74	10	2
9.0	21.0	8.7	30	34	74	10	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

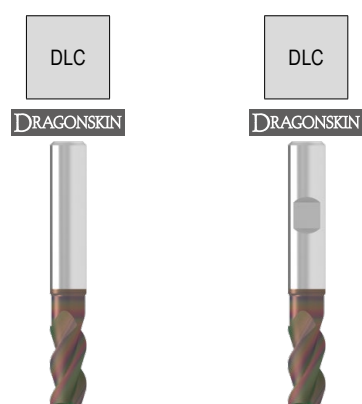
Category	Color	Count
P	Purple	100
M	Yellow	100
K	Orange	100
N	Green	100
S	Light Orange	100
H	Light Blue	100
O	Grey	100



▲ With polished chip flutes



DC	APMX	DN	LH	LPR	OAL	DCONMS	ZEPF
h ₆						h ₆	
mm	mm	mm	mm	mm	mm	mm	
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



53 617 ...			53 618 ...		
	EUR	EUR		EUR	EUR
0	32,82	32,82	02100	32,82	32,82
0	32,52	32,52	02600	32,52	32,52
0	33,15	33,15	03100	33,15	33,15
0	34,50	34,50	03600	34,50	34,50
0	34,70	34,78	04100	34,70	34,78
0	42,25	42,25	04600	42,25	42,25
0	38,02	38,02	05100	38,02	38,02
0	43,12	43,12	05600	43,12	43,12
0	39,84	39,84	06100	39,84	39,84
0	46,36	46,36	06600	46,36	46,36
0	45,45	45,45	07100	45,45	45,45
0	44,42	44,42	07600	44,42	44,42
0	43,82	43,82	08100	43,82	43,82
0	68,01	68,01	08600	68,01	68,01
0	66,45	66,45	09100	66,45	66,45
0	64,88	64,88	09600	64,88	64,88
0	63,36	63,36	10100	63,36	63,36
0	91,50	91,50	10600	91,50	91,50
0	89,29	89,29	11100	89,29	89,29
0	86,94	86,94	11600	86,94	86,94
0	89,66	89,66	12100	89,66	89,66
			12600	117,58	117,58
			13100	116,75	116,75
			13600	115,82	115,82
			14100	121,82	121,82
			14600	159,39	159,39
			15100	156,29	156,29
			15600	152,97	152,97
			16100	163,32	163,32
			16600	204,52	204,52
			17100	199,65	199,65
			17600	194,48	194,48
			18100	194,48	194,48
			18600	249,64	249,64
			19100	243,43	243,43
			19600	237,12	237,12
			20100	239,71	239,71



AluLine – End milling cutter

▲ With polished chip flutes

W

$\lambda_s=45^\circ$
 $\gamma_s=7^\circ$

DLC

DRAGONSKIN

DLC

DRAGONSKIN

Factory standard

HA

Factory standard

HB

Nett Prices

DC	h6	APMX	DN	LH	LPR	OAL	DCONMS	h6	ZEFP	53 617 ...	53 618 ...
mm		mm	mm	mm	mm	mm	mm			EUR	EUR
2,0	5,5	1,8	10,0	19	55	6	3	02200	37,05	37,95	02200 37,05 37,95
2,5	6,5	2,3	12,5	22	58	6	3	02700	37,56	37,56	02700 37,56 37,56
3,0	8,0	2,8	15,0	22	58	6	3	03200	38,37	38,37	03200 38,37 38,37
3,5	10,5	3,3	20,0	26	62	6	3	03700	39,05	39,95	03700 39,05 39,95
4,0	10,5	3,8	20,0	26	62	6	3	04200	40,34	40,34	04200 40,34 40,34
4,5	13,0	4,3	25,0	34	70	6	3	04700	40,28	49,28	04700 40,28 49,28
5,0	13,0	4,8	25,0	34	70	6	3	05200	44,14	44,14	05200 44,14 44,14
5,5	16,0	5,3	30,0	34	70	6	3	05700	50,32	50,32	05700 50,32 50,32
6,0	16,0	5,8	30,0	34	70	6	3	06200	46,12	46,12	06200 46,12 46,12
6,5	21,0	6,2	40,0	44	80	8	3	06700	52,96	53,96	06700 52,96 53,96
7,0	21,0	6,7	40,0	44	80	8	3	07200	52,84	52,84	07200 52,84 52,84
7,5	21,0	7,2	40,0	44	80	8	3	07700	51,65	51,65	07700 51,65 51,65
8,0	21,0	7,7	40,0	44	80	8	3	08200	50,73	50,73	08200 50,73 50,73
8,5	26,0	8,2	50,0	54	94	10	3	08700	79,68	79,68	08700 79,68 79,68
9,0	26,0	8,7	50,0	54	94	10	3	09200	77,89	77,89	09200 77,89 77,89
9,5	26,0	9,2	50,0	54	94	10	3	09700	75,97	75,97	09700 75,97 75,97
10,0	26,0	9,7	50,0	54	94	10	3	10200	73,96	73,96	10200 73,96 73,96
10,5	31,0	10,1	60,0	64	109	12	3	10700	107,74	107,74	10700 107,74 107,74
11,0	31,0	10,6	60,0	64	109	12	3	11200	105,05	105,05	11200 105,05 105,05
11,5	31,0	11,1	60,0	64	109	12	3	11700	102,24	102,24	11700 102,24 102,24
12,0	31,0	11,6	60,0	64	109	12	3	12200	104,74	104,74	12200 104,74 104,74
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				

P
M
K
N
S
H
O

AluLine – NC deburring cutter

W

$\lambda_s=0^\circ$
 $\gamma_s=8^\circ$

Nett Prices

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

P
M
K
N
S
H
O

AluLine – End milling cutter with corner radius

▲ With polished chip flutes

W

$\lambda_s=45^\circ$
 $\gamma_s=7^\circ$

DLC

DRAGONSKIN

DLC

DRAGONSKIN

Factory standard

HA

Factory standard

HB

Nett Prices

DC	h6	RE	±0,05	APMX	DN	LH	LPR	OAL	DCONMS	h6	ZEFP	53 710 ...	53 711 ...
mm		mm		mm	mm	mm	mm	mm	mm			EUR	EUR
2	0,5	4,5	1,8	6	14	50	6	3	02105	34,14	34,14	02105 34,14 34,14	02105 34,14 34,14
2	0,3	4,5	1,8	6	14	50	6	3	02103	34,14	34,14	02103 34,14 34,14	02103 34,14 34,14
3	1,0	6,5	2,7	9	19	55	6	3	03110	34,86	34,86	03110 34,86 34,86	03110 34,86 34,86
3	0,3	6,5	2,7	9	19	55	6	3	03103	34,86	34,86	03103 34,86 34,86	03103 34,86 34,86
3	0,5	6,5	2,7	9	19	55	6	3	03105	34,86	34,86	03105 34,86 34,86	03105 34,86 34,86
4	0,5	8,5	3,7	12	19	55	6	3	04105	36,60	36,60	04105 36,60 36,60	04105 36,60 36,60
4	0,3	8,5	3,7	12	19	55	6	3	04103	36,60	36,60	04103 36,60 36,60	04103 36,60 36,60
4	1,0	8,5	3,7	12	19	55	6	3	04110	36,60	36,60	04110 36,60 36,60	04110 36,60 36,60
5	1,0	10,5	4,7	15	22	58	6	3	05110	40,64	40,64	05110 40,64 40,64	05110 40,64 40,64
5	0,3	10,5	4,7	15	22	58	6	3	05103	40,64	40,64	05103 40,64 40,64	05103 40,64 40,64
5	0,5	10,5	4,7	15	22	58	6	3	05105	40,64	40,64	05105 40,64 40,64	05105 40,64 40,64
6	1,0	13,0	5,7	18	22	58	6	3	06110	41,89	41,89	06110 41,89 41,89	06110 41,89 41,89
6	0,3	13,0	5,7	18	22	58	6	3	06103	41,89	41,89	06103 41,89 41,89	06103 41,89 41,89
6	0,5	13,0	5,7	18	22	58	6	3	06105	41,89	41,89	06105 41,89 41,89	06105 41,89 41,89
6	1,5	13,0	5,7	18	22	58	6	3	06115	41,89	41,89	06115 41,89 41,89	06115 41,89 41,89
8	0,3	17,0	7,4	24	28	64	8	3	08103	46,06	46,06	08103 46,06 46,06	08103 46,06 46,06
8	0,5	17,0	7,4	24	28	64	8	3	08105	46,06	46,06	08105 46,06 46,06	08105 46,06 46,06
8	1,0	17,0	7,4	24	28	64	8	3	08110	46,06	46,06	08110 46,06 46,06	08110 46,06 46,06
8	1,5	17,0	7,4	24	28	64	8	3	08115	46,06	46,06	08115 46,06 46,06	08115 46,06 46,06
8	2,0	17,0	7,4	24	28	64	8	3	08120	46,06	46,06	08120 46,06 46,06	08120 46,06 46,06
10	1,5	21,0	9,2	30	34	74	10	3	10115	66,79	66,79	10115 66,79 66,79	10115 66,79 66,79
10	0,3	21,0	9,2	30	34	74	10	3	10103	66,79	66,79	10103 66,79 66,79	10103 66,79 66,79
10	0,5	21,0	9,2	30	34	74	10	3	10105	66,79	66,79	10105 66,79 66,79	10105 66,79 66,79
10	1,0	21,0	9,2	30	34	74	10	3	10110	66,79	66,79	10110 66,79 66,79	10110 66,79 66,79
10	2,0	21,0	9,2	30	34	74	10	3	10120	66,79	66,79	10120 66,79 66,79	10120 66,79 66,79
10	3,0	21,0	9,2	30	34	74	10	3	10130	66,79	66,79	10130 66,79 66,79	10130 66,79 66,79
12	1,5	25,0	11,0	36	40	85	12	3	12115	94,55	94,55	12115 94,55 94,55	12115 94,55 94,55
12	0,3	25,0	11,0	36	40	85	12	3	12103	94,55	94,55	12103 94,55 94,55	12103 94,55 94,55
12	0,5	25,0	11,0	36	40	85	12	3	12105	94,55	94,55	12105 94,55 94,55	12105 94,55 94,55
12	1,0	25,0	11,0	36	40	85	12	3	12110	94,55	94,55	12110 94,55 94,55	12110 94,55 94,55
12	2,0	25,0	11,0	36	40	85	12	3	12120	94,55	94,55	12120 94,55 94,55	12120 94,55 94,55
12	3,0	25,0	11,0	36	40	85	12	3	12130	94,55	94,55	12130 94,55 94,55	12130 94,55 94,55
12	4,0	25,0	11,0	36	40	85	12	3	12140	94,55	94,55	12140 94,55 94,55	12140 94,55 94,55
16	1,5	33,0	15,0	48	52	100	16	3				16115 151,63 151,63	16115 151,63 151,63
16	0,3	33,0	15,0	48	52	100	16	3				16103 151,63 151,63	16103 151,63 151,63
16	0,5	33,0	15,0	48	52	100	16	3				16105 151,63 151,63	16105 151,63 151,63
16	1,0	33,0	15,0	48	52	100	16	3				16110 151,63 151,63	16110 151,63 151,63
16	2,0	33,0	15,0	48	52	100	16	3				16120 151,63 151,63	16120 151,63 151,63
16	3,0	33,0	15,0	48	52	100	16	3				16130 151,63 151,63	16130 151,63 151,63
16	4,0	33,0	15,0	48	52	100	16	3				16140 151,63 151,63	16140 151,63 151,63
20	2,0	42,0	19,0	60	64	114	20	3				20120 234,12 234,12	20120 234,12 234,12
20	0,5	42,0	19,0	60									

CircularLine

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

Tools with chip breakers for optimum chip removal

DRAGONSKIN

CircularLine – End milling cutter

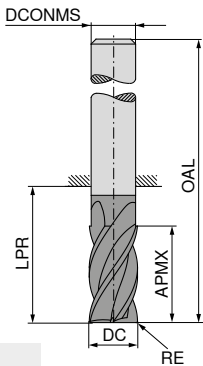
- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 5 x DC

CCR
UNI

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

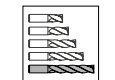


WNT \ Performance



DPX72S

DRAGONSKIN



Factory standard

HB

Nett Prices

DC _{e8}	RE _{±0.05}	APMX	LPR	OAL	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	mm	mm	
6	0,2	31	39	75	6	5
6	1,0	31	39	75	6	5
6	1,5	31	39	75	6	5
8	0,2	41	49	85	8	5
8	1,0	41	49	85	8	5
8	1,5	41	49	85	8	5
8	2,0	41	49	85	8	5
10	0,2	51	60	100	10	5
10	1,0	51	60	100	10	5
10	1,5	51	60	100	10	5
10	1,6	51	60	100	10	5
10	2,0	51	60	100	10	5
12	0,2	61	70	115	12	5
12	1,0	61	70	115	12	5
12	1,5	61	70	115	12	5
12	1,6	61	70	115	12	5
12	2,0	61	70	115	12	5
12	3,0	61	70	115	12	5
14	0,2	71	81	126	14	5
14	1,0	71	81	126	14	5
14	1,5	71	81	126	14	5
14	1,6	71	81	126	14	5
14	2,0	71	81	126	14	5
14	3,0	71	81	126	14	5
16	0,2	81	92	140	16	5
16	1,0	81	92	140	16	5
16	1,5	81	92	140	16	5
16	1,6	81	92	140	16	5
16	2,0	81	92	140	16	5
16	3,0	81	92	140	16	5
16	4,0	81	92	140	16	5
18	0,2	91	102	150	18	5
18	1,0	91	102	150	18	5
18	1,5	91	102	150	18	5
18	1,6	91	102	150	18	5
18	2,0	91	102	150	18	5
18	3,0	91	102	150	18	5
18	4,0	91	102	150	18	5
20	0,2	102	113	163	20	5
20	1,0	102	113	163	20	5
20	1,5	102	113	163	20	5
20	1,6	102	113	163	20	5
20	2,0	102	113	163	20	5
20	3,0	102	113	163	20	5
20	4,0	102	113	163	20	5

P	●
M	○
K	●
N	●
S	○
H	○
O	○

CircularLine – End milling cutter

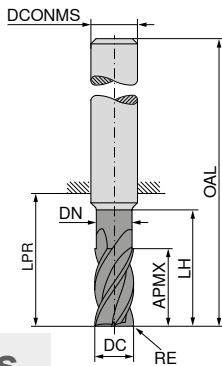
- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 3 x DC

CCR
UNI

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

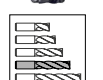


WNT \ Performance



DPX72S

DRAGONSKIN



Factory standard

HB

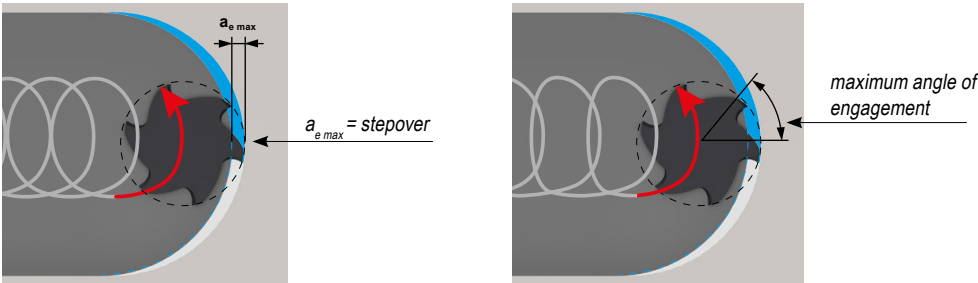
Nett Prices

DC _{e8}	RE _{±0.05}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
6	0,2	19	5,8	25	27	63	6	6
6	1,0	19	5,8	25	27	63	6	6
6	1,5	19	5,8	25	27	63	6	6
8	0,2	25	7,7	33	35	71	8	6
8	1,0	25	7,7	33	35	71	8	6
8	1,5	25	7,7	33	35	71	8	6
8	2,0	25	7,7	33	35	71	8	6
10	0,2	31	9,7	41	43	83	10	6
10	1,0	31	9,7	41	43	83	10	6
10	1,5	31	9,7	41	43	83	10	6
10	1,6	31	9,7	41	43	83	10	6
10	2,0	31	9,7	41	43	83	10	6
12	0,2	37	11,6	47	49	94	12	6
12	1,0	37	11,6	47	49	94	12	6
12	1,5	37	11,6	47	49	94	12	6
12	1,6	37	11,6	47	49	94	12	6
12	2,0	37	11,6	47	49	94	12	6
12	3,0	37	11,6	47	49	94	12	6
16	0,2	49	15,5	61	63	111	16	6
16	1,0	49	15,5	61	63	111	16	6
16	1,5	49	15,5	61	63	111	16	6
16	1,6	49	15,5	61	63	111	16	6
16	2,0	49	15,5	61	63	111	16	6
16	3,0	49	15,5	61	63	111	16	6
16	4,0	49	15,5	61	63	111	16	6
20	0,2	61	19,5	75	77	127	20	6
20	1,0	61	19,5	75	77	127	20	6
20	1,5	61	19,5	75	77	127	20	6
20	1,6	61	19,5	75	77	127	20	6
20	2,0	61	19,5	75	77	127	20	6
20	3,0	61	19,5	75	77	127	20	6
20	4,0	61	19,5	75	77	127	20	6

P	●
M	○
K	●
N	●
S	○
H	○
O	○

Trochoidal milling

When programming the various CAM systems different information is required.



Features & benefits of trochoidal milling

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

Calculation of the average chip thickness

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

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

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



CircularLine – End milling cutter

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

CCR
UNI

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

WNT \ Performance

DPX72S

DRAGONSKIN

Factory standard

HB

DPX72S

DRAGONSKIN

Factory standard

HB

Nett Prices

DC	es	OAL	APMX	DN	LH	LPR	DCONMS	h6	CHW	ZEFP	53 585 ...	53 587 ...
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
6	57	13	5.8	19	21	21	6	0.2	6	060	50.74	50.74
6	63	19	5.8	25	27	27	6	0.2	6	080	66.16	66.16
8	63	21	7.7	25	27	27	8	0.2	6	100	84.99	84.99
8	71	25	7.7	33	35	35	8	0.2	6	120	109.30	109.30
10	72	22	9.7	30	32	32	10	0.2	6	160	217.97	217.97
10	83	31	9.7	41	43	43	10	0.2	6	200	313.50	313.50
12	83	26	11.6	36	38	38	12	0.2	6			
12	94	37	11.6	47	49	49	12	0.2	6			
16	92	36	15.5	42	44	44	16	0.2	6			
16	111	49	15.5	61	63	63	16	0.2	6			
20	104	41	19.5	52	54	54	20	0.2	6			
20	127	61	19.5	75	77	77	20	0.2	6			

P

M

K

N

S

H

O

CircularLine – End milling cutter

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

CCR
UNI

$\lambda_s=35^\circ$
 $\lambda_s=36^\circ$
 $\gamma_s=8^\circ$

WNT \ Performance

DPX72S

DRAGONSKIN

Factory standard

HB

Nett Prices

DC	es	OAL	APMX	DN	LH	LPR	DCONMS	h6	CHW	ZEFP	53 589 ...	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
6	67	25	5.8	29	31	31	6	0.2	5	060	52.94	52.94
8	76	33	7.7	38	40	40	8	0.2	5	080	68.39	68.39
10	89	41	9.7	47	49	49	10	0.2	5	100	95.12	95.12
12	102	49	11.6	55	57	57	12	0.2	5	120	115.82	115.82
16	123	65	15.5	73	75	75	16	0.2	5	160	232.36	232.36
20	143	82	19.5	91	93	93	20	0.2	5	200	327.06	327.06

P

M

K

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CircularLine – End milling cutter

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

CCR
UNI

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

WNT \ Performance

DPX72S

DRAGONSKIN

Factory standard

HB

Nett Prices

DC	es	OAL	RE	APMX	DN	LH	LPR	DCONMS	h6	ZEFP	53 586 ...	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
6	57	1.0	13	5.8	19	21	21	6	6	06010	51.02	51.02
6	57	0.2	13	5.8	19	21	21	6	6	06002	50.74	50.74
6	57	1.5	13	5.8	19	21	21	6	6	06015	51.02	51.02
8	63	1.5	21	7.7	25	27	27	8	6	08015	67.75	67.75
8	63	0.2	21	7.7	25	27	27	8	6	08002	66.16	66.16
8	63	1.0	21	7.7	25	27	27	8	6	08010	67.75	67.75
8	63	2.0	21	7.7	25	27	27	8	6	08020	67.75	67.75
10	72	1.5	22	9.7	30	32	32	10	6	10015	87.33	87.33
10	72	0.2	22	9.7	30	32	32	10	6	10002	84.99	84.99
10	72	1.0	22	9.7	30	32	32	10	6	10010	87.33	87.33
10	72	1.6	22	9.7	30	32	32	10	6	10016	87.33	87.33
10	72	2.0	22	9.7	30	32	32	10	6	10020	87.33	87.33
12	83	1.5	26	11.6	36	38	38	12	6	12015	109.92	109.92
12	83	0.2	26	11.6	36	38	38	12	6	12002	109.30	109.30
12	83	1.0	26	11.6	36	38	38	12	6	12010	109.92	109.92
12	83	1.6	26	11.6	36	38	38	12	6	12016	109.92	109.92
12	83	2.0	26	11.6	36	38	38	12	6	12020	109.92	109.92
12	83	3.0	26	11.6	36	38	38	12	6	12030	109.92	109.92
16	92	4.0	36	15.5	42	44	44	16	6	16040	227.18	227.18
16	92	0.2	36	15.5	42	44	44	16	6	16002	217.97	217.97
16	92	1.0	36	15.5	42	44	44	16	6	16010	235.05	235.05
16	92	1.5	36	15.5	42	44	44	16	6	16015	227.18	227.18
16	92	1.6	36	15.5	42	44	44	16	6	16016	227.18	227.18
16	92	2.0	36	15.5	42	44	44	16	6	16020	227.18	227.18
16	92	3.0	36	15.5	42	44	44	16	6	16030	227.18	227.18
20	104	1.6	41	19.5	52	54	54	20	6	20016	316.71	316.71
20	104	0.2	41	19.5	52	54	54	20	6	20002	313.50	313.50
20	104	1.0	41	19.5	52	54	54	20	6	20010	316.71	316.71
20	104	1.5	41	19.5	52	54	54	20	6	20015	316.71	316.71
20	104	2.0	41	19.5	52	54	54	20	6	20020	316.71	316.71
20	104	3.0	41	19.5	52	54	54	20	6	20030	316.71	316.71
20	104	4.0	41	19.5	52	54	54	20	6	20040	316.71	316.71

P

M

K

N

S

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O

CircularLine – End milling cutter

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

CCR
UNI

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

WNT \ Performance

DPX72S

DRAGONSKIN

Factory standard

HB

Nett Prices

DC	es	OAL	RE	APMX	DN	LH	LPR	DCONMS	h6	ZEFP	53 593 ...	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		EUR	EUR
6	67	1.5	25	5.8	29	31	31	6	5	06015	54.49	54.49
6	67	1.0	25	5.8	29	31	31	6	5	06010	54.49	54.49
6	67	0.2	25	5.8	29	31	31	6	5	06002	52.94	52.94
8	76	1.5	33	7.7	38	40	40	8	5	08015	70.18	70.18
8	76	1.0	33	7.7	38	40	40	8	5	08010	70.18	70.18
8	76	2.0	33	7.7	38	40	40	8	5	08020	70.18	70.18
8	76	0.2	33	7.7	38	40	40	8	5	08002	68.39	68.39
10	89	1.5	41	9.7	47	49	49	10	5	10015	97.25	97.25
10	89	1.0	41	9.7	47	49	49	10	5	10010	97.25	97.25
10	89	1.6	41	9.7	47	49	49	10	5	10016	97.25	97.25
10	89	2.0	41	9.7	47	49	49	10	5	10020	97.25	97.25
10	89	0.2	41	9.7	47	49	49	10	5	10002	95.12	95.12
12	102	1.0	49	11.6	55	57	57	12	5	12010	118.71	118.71
12	102	1.5	49	11.6	55	57	57	12	5	12015	118.71	118.71
12	102	1.6	49	11.6	55	57	57	12	5	12016	118.71	118.71
12	102	2.0	49	11.6	55	57	57	12	5	12020	118.71	118.71
12	102	3.0	49	11.6	55	57	57	12	5	12030	118.71	118.71
12	102	0.2	49	11.6	55	57	57	12	5	12002	115.82	115.82
16	123	1.6	65	15.5	73	75	75	16	5	16016	235.98	235.98
16	123	1.0	65	15.5	73	75	75	16	5	16010	235.98	235.98
16	123	1.5	65	15.5	73	75	75	16	5	16015	235.98	235.98
16	123	2.0	65	15.5	73	75	75	16	5	16020	235.98	235.98
16	123	3.0	65	15.5	73	75	75	16	5	16030	235.98	235.98
16	123	4.0	65	15.5	73	75	75	16	5	16040	235.98	235.98
16	123	0.2	65	15.5	73	75	75	16	5	16002	232.36	232.36
20	143	2.0	82	19.5	91	93	93	20	5	20020	331.82	331.82
20	143	1.0	82	19.5	91	93	93	20	5	20010	331.82	331.82
20	143	1.5	82	19.5	91	93	93	20	5	20015	331.82	331.82
20	143	1.6	82	19.5	91	93	93	20	5	20016	331.82	331.82
20	143	3.0	82	19.5	91	93	93	20	5	20030	331.82	331.82
20	143	4.0	82	19.5	91	93	93	20	5	20040	331.82	331.82
20	143	0.2	82	19.5	91	93	93	20	5	20002	327.06	327.06

P

M

K

N

S

H

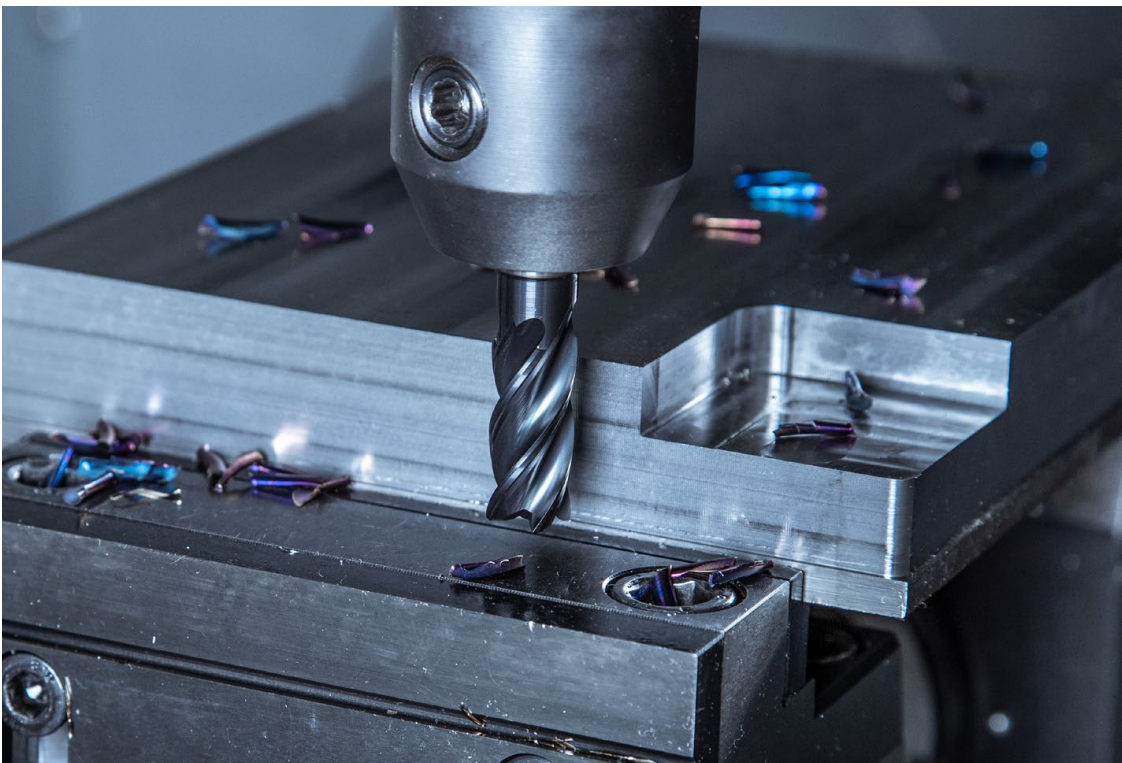
O



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TI 1000
STANDARD
LINE



End milling cutter

N

$\lambda_s=35^\circ$
 $\gamma_s=38^\circ$
 $\gamma_s=9^\circ$

Nett Prices

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

	≈DIN 6527	≈DIN 6527	≈DIN 6527
	HB	HB	HB
	54 070 ...	54 070 ...	54 070 ...
	EUR EUR	EUR EUR	EUR EUR
03100	15,77 15,77	15,77 15,77	
04100	15,77 15,77	15,77 15,77	03400 22,29 22,29
05100	15,77 15,77	15,77 15,77	04400 22,29 22,29
06100	15,77 15,77	15,77 15,77	05400 25,05 25,05
08100	22,19 22,19	18,43 18,43	06400 28,00 28,00
10100	28,81 28,81	23,82 23,82	08400 35,53 35,53
12100	41,44 41,44	31,37 31,37	10400 49,47 49,47
16100	72,58 72,58	49,78 49,78	12400 60,98 60,98
20100	107,85 107,85	76,66 76,66	16400 115,09 115,09
		116,13 116,13	20400 157,84 157,84
P	•	•	•
M	•	•	•
K	•	•	•
N	•	•	•
S	•	•	•
H	•	•	•
O	•	•	•

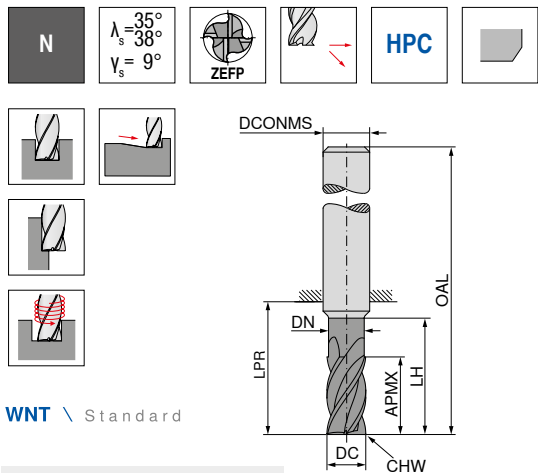


For more information
cutting.tools/en/dragonskin

TEAM CUTTING TOOLS



End milling cutter



Nett Prices

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

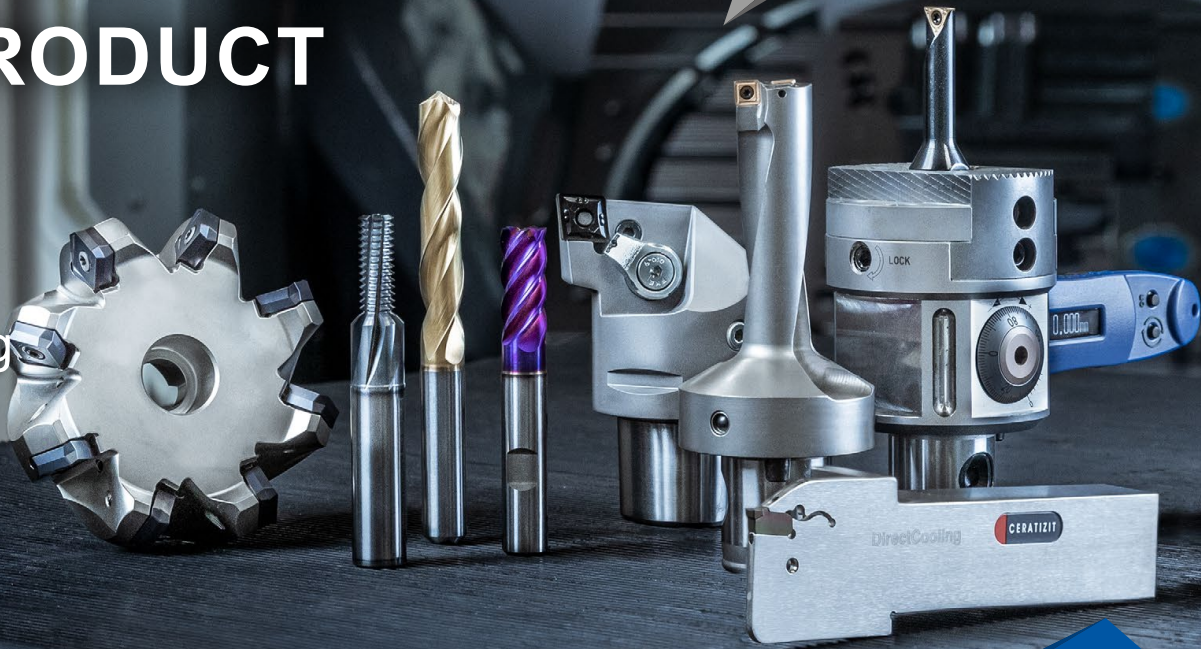
P	•	•	•
M	•	•	•
K	•	•	•
N	•	•	•
S	•	•	•
H	•	•	•
O	•	•	•

	Ti1000	Ti1000	Ti1000
	≈DIN 6527	≈DIN 6527	≈DIN 6527
	HB	HB	HB
54 071 ...	EUR	EUR	EUR
03100	15,77	15,77	
04100	15,77	15,77	
05100	15,77	15,77	
06100	15,77	15,77	
08100	22,29	22,29	
10100	28,92	28,92	
12100	41,54	41,54	
16100	72,70	72,70	
20100	107,85	107,85	
03200	15,77	15,77	
04200	15,77	15,77	
05200	15,77	15,77	
06200	18,53	18,53	
08200	23,93	23,93	
10200	31,37	31,37	
12200	49,89	49,89	
16200	76,96	76,96	
20200	116,13	116,13	
03400	22,29	22,29	
04400	22,29	22,29	
05400	25,05	25,05	
06400	28,00	28,00	
08400	35,53	35,53	
10400	49,47	49,47	
12400	60,98	60,98	
16400	115,09	115,09	
20400	157,84	157,84	



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End milling cutter with corner radius

N

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

WNT \ Standard

Ti1000

Ti1000

54 072 ...

EUR

EUR

54 072 ...

EUR

EUR

DC _{h10}	RE	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP			
mm	mm	mm	mm	mm	mm	mm	mm				
3	0,1	8	2,8	13	21	57	6	4	03201	20,67	20,67
3	0,3	8	2,8	13	21	57	6	4	03203	20,67	20,67
3	0,5	8	2,8	13	21	57	6	4	03205	20,67	20,67
3	1,0	8	2,8	13	21	57	6	4	03210	20,67	20,67
3	0,5	8	2,8	15	22	69	6	4			
3	0,3	8	2,8	15	22	69	6	4			
3	1,0	8	2,8	15	22	69	6	4			
4	0,1	11	3,8	17	21	57	6	4	04201	20,67	20,67
4	0,3	11	3,8	17	21	57	6	4	04203	20,67	20,67
4	0,5	11	3,8	17	21	57	6	4	04205	20,67	20,67
4	1,0	11	3,8	17	21	57	6	4	04210	20,67	20,67
4	0,5	11	3,8	20	26	69	6	4			
4	0,3	11	3,8	20	26	69	6	4			
4	1,0	11	3,8	20	26	69	6	4			
5	0,5	13	4,8	19	21	57	6	4	05205	20,67	20,67
5	0,1	13	4,8	19	21	57	6	4	05201	20,67	20,67
5	0,3	13	4,8	19	21	57	6	4	05203	20,67	20,67
5	1,0	13	4,8	19	21	57	6	4	05210	20,67	20,67
5	0,5	13	4,8	25	34	69	6	4			
5	0,3	13	4,8	25	34	69	6	4			
5	1,0	13	4,8	25	34	69	6	4			
6	0,3	13	5,8	19	21	57	6	4	06203	22,81	22,81
6	0,1	13	5,8	19	21	57	6	4	06201	22,81	22,81
6	0,5	13	5,8	19	21	57	6	4	06205	22,81	22,81
6	1,0	13	5,8	19	21	57	6	4	06210	22,81	22,81
6	1,5	13	5,8	19	21	57	6	4	06215	22,81	22,81
6	2,0	13	5,8	19	21	57	6	4	06220	22,81	22,81
6	1,0	13	5,8	30	34	69	6	4			
6	0,3	13	5,8	30	34	69	6	4			
6	0,5	13	5,8	30	34	69	6	4			
6	1,5	13	5,8	30	34	69	6	4			
6	2,0	13	5,8	30	34	69	6	4			
8	0,1	21	7,7	25	27	63	8	4	08201	29,94	29,94
8	0,3	21	7,7	25	27	63	8	4	08203	29,94	29,94
8	0,5	21	7,7	25	27	63	8	4	08205	29,94	29,94
8	1,0	21	7,7	25	27	63	8	4	08210	29,94	29,94
8	1,5	21	7,7	25	27	63	8	4	08215	29,94	29,94
8	2,0	21	7,7	25	27	63	8	4	08220	29,94	29,94
8	1,0	17	7,7	40	44	79	8	4			
8	0,3	17	7,7	40	44	79	8	4			
8	0,5	17	7,7	40	44	79	8	4			
8	1,5	17	7,7	40	44	79	8	4			
8	2,0	17	7,7	40	44	79	8	4			
10	1,0	22	9,7	30	32	72	10	4	10210	37,77	37,77
10	0,1	22	9,7	30	32	72	10	4	10201	37,77	37,77
10	0,3	22	9,7	30	32	72	10	4	10203	37,77	37,77
10	0,5	22	9,7	30	32	72	10	4	10205	37,77	37,77
10	1,5	22	9,7	30	32	72	10	4	10215	37,77	37,77
10	2,0	22	9,7	30	32	72	10	4	10220	37,77	37,77
10	1,0	21	9,7	50	54	93	10	4			
10	0,3	21	9,7	50	54	93	10	4			
10	0,5	21	9,7	50	54	93	10	4			
10	1,5	21	9,7	50	54	93	10	4			
10	2,0	21	9,7	50	54	93	10	4			
12	0,5	26	11,6	36	38	83	12	4	12205	58,44	58,44
12	0,1	26	11,6	36	38	83	12	4	12201	58,44	58,44
12	0,3	26	11,6	36	38	83	12	4	12203	58,44	58,44
12	1,0	26	11,6	36	38	83	12	4	12210	58,44	58,44
12	1,5	26	11,6	36	38	83	12	4	12215	58,44	58,44
12	2,0	26	11,6	36	38	83	12	4	12220	58,44	58,44
12	3,0	26	11,6	36	38	83	12	4	12230	58,44	58,44
12	1,5	25	11,6	60	64	108	12	4			
12	0,3	25	11,6	60	64	108	12	4			
12	0,5	25	11,6	60	64	108	12	4			
12	1,0	25	11,6	60	64	108	12	4			
12	2,0	25	11,6	60	64	108	12	4			
12	3,0	25	11,6	60	64	108	12	4			
16	0,3	36	15,5	42	44	92	16	4	16203	88,28	88,28
16	0,1	36	15,5	42	44	92	16	4	16201	88,28	88,28
16	0,5	36	15,5	42	44	92	16	4	16205	88,28	88,28
16	1,0	36	15,5	42	44	92	16	4	16210	88,28	88,28
16	1,5	36	15,5	42	44	92	16	4	16215	88,28	88,28
16	2,0	36	15,5	42	44	92	16	4	16220	88,28	88,28
16	3,0	36	15,5	42	44	92	16	4	16230	88,28	88,28
16	4,0	36	15,5	42	44	92	16	4	16240	88,28	88,28
16	1,5	33	15,5	80	84	132	16	4			
16	0,3	33	15,5	80	84	132	16	4			
16	0,5	33	15,5	80	84	132	16	4			
16	1,0	33	15,5	80	84	132	16	4			
16	2,0	33	15,5	80	84	132	16	4			
16	3,0	33	15,5	80	84	132	16	4			
16	4,0	33	15,5	80	84	132	16	4			
20	0,1	41	19,5	52	54	104	20	4	20201	128,24	128,24
20	0,3	41	19,5	52	54	104	20	4	20203	128,24	128,24
20	0,5	41	19,5	52	54	104	20	4	20205	128,24	128,24
20	1,0	41	19,5	52	54	104	20	4	20210	128,24	128,24
20	1,5	41	19,5	52	54	104	20	4	20215	128,24	128,24
20	2,0	41	19,5	52	54	104	20	4	20220	128,24	128,24
20	3,0	41	19,5	52	54	104	20	4	20230	128,24	128,24
20	4,0	41	19,5	52	54	104	20	4	20240	128,24	128,24
20	4,0	42	19,5	100	104	154	20	4			
20	0,3	42	19,5	100	104	154	20	4			
20	0,5	42	19,5	100	104	154	20	4			
20	1,0	42	19,5	100	104	154	20	4			
20	1,5	42	19,5	100	104	154	20	4			
20	2,0	42	19,5	100	104	154	20	4			
20	3,0	42	19,5	100	104	154	20	4			

P

M

K

N

S

H

O

Finish milling cutter

N

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

WNT \ Standard

Ti1000

Ti1000

54 076 ...

EUR

EUR

54 075 ...

EUR

EUR

DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP						
mm	mm	mm	mm	mm	mm	mm							
6	13	5,6	19	21	57	6	6	06200	23,04	23,04	06200	23,04	23,04
8	19	7,6	25	27	63	8	6	08200	29,77	29,77	08200	29,77	29,77
10	22	9,6	30	32	72	10	6	10200	39,22	39,22	10200	39,22	39,22
12	26	11,5	36	38	83	12	6	12200	62,22	62,22	12200	62,22	62,22
16	32	15,0	42	44	92	16	6	16200	95,83	95,83	16200	95,83	95,83
20	38	19,0	52	54	104	20	6	20200	145,11	145,11	20200	145,11	145,11

P

M

K

N

S

H

O

Finish milling cutter

N

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

WNT \ Standard

Ti1000

Ti1000

54 076 ...

EUR

EUR

54 075 ...

EUR

EUR

DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP						
mm	mm	mm	mm	mm	mm	mm							
6	15	5,6	42	44	80	6	6	06400	34,99	34,99	06400	34,99	34,99
8	20	7,6	62	64	100	8	6	08400	44,41	44,41	08400	44,41	44,41
10	25	9,6	58	60	100	10	6	10400	61,84	61,84	10400	61,84	61,84
12	30	11,5	73	75	120	12	6	12400	76,23	76,23	12400	76,23	76,23
16	40	15,0	100	102	150	16	6	16400	143,87	143,87	16400	143,87	143,87
20	50	19,0	98	100	150	20	6	20400	197,37	197,37	20400	197,37	197,37

P

M

K

N

S

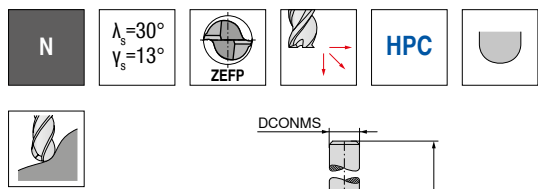
H

O



Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm



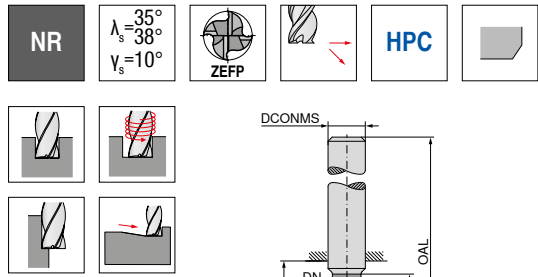
WNT \ Standard

Nett Prices

DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	α°	ZEFP	54 073 ...		
									EUR	EUR	
3	5	2,9	9	14	50	6	15	2	03115	19,03	19,03
4	8	3,9	12	18	54	6	45	2	04120	19,03	19,03
5	9	4,9	15	18	54	6	45	2	05125	19,03	19,03
6	10	5,9	17	18	54	6	45	2	06130	19,85	19,85
8	12	7,8	20	22	58	8	45	2	08140	26,07	26,07
10	14	9,8	26	26	66	10	45	2	10150	32,58	32,58
12	16	11,8	28	28	73	12	45	2	12160	47,55	47,55
16	22	15,7	32	34	82	16	45	2	16180	77,68	77,68
20	26	19,7	40	42	92	20	45	2	20110	110,95	110,95
P									●		
M									○		
K									●		
N									○		
S									○		
H											
O											

Rough milling cutter

▲ With roughing profile

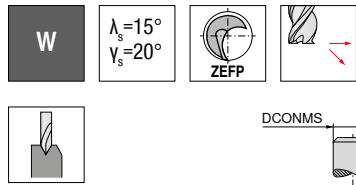


WNT \ Standard

Nett Prices

DC _{r8} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	54 077 ...		
									EUR	EUR	
4	11	3,8	17	21	57	6	0,1	4	00400	22,56	22,56
5	13	4,8	19	21	57	6	0,1	4	00500	22,56	22,56
6	13	5,8	19	21	57	6	0,1	4	00600	27,03	27,03
8	21	7,7	25	27	63	8	0,2	4	00800	33,78	33,78
10	22	9,7	30	32	72	10	0,2	4	01000	43,05	43,05
12	26	11,6	36	38	83	12	0,3	4	01200	69,83	69,83
16	36	15,5	42	44	92	16	0,3	4	01600	105,16	105,16
20	41	19,5	52	54	104	20	0,3	4	02000	155,87	155,87
P									●		
M									●		
K									●		
N									○		
S									○		
H											
O											

Engraving cutter 60°



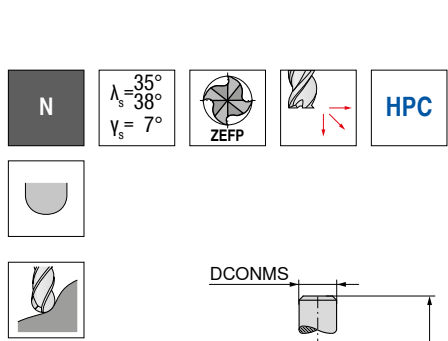
WNT \ Standard

Nett Prices

DC _{h6} mm	APMX mm	OAL mm	DCONMS _{h6} mm	ZEFP	52 195 ...		
					EUR	EUR	
3	15	50	3	1	030	42,29	42,29
4	18	50	4	1	040	45,02	45,02
6	20	54	6	1	060	48,40	48,40
P					○		
M					○		
K					○		
N					●		
S					○		
H					○		
O					●		

Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm

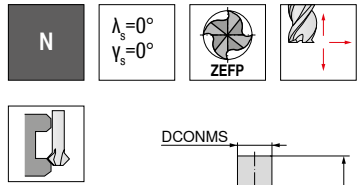


WNT \ Standard

Nett Prices

DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	α°	ZEFP	54 074 ...		
									EUR	EUR	
3	8			21	57	6	30	4	03115	19,03	19,03
3	8	2,9	15	21	57	6	45	4			
4	11			21	57	6	30	4	04120	19,03	19,03
4	11	3,9	16	21	57	6	45	4			
5	13			21	57	6	30	4	05125	19,03	19,03
5	13	4,9	19	21	57	6	45	4			
6	13			21	57	6	30	4	06130	19,85	19,85
6	13	5,9	19	21	57	6	45	4			
8	19			36	72	8	30	4	08140	26,07	26,07
8	19	7,8	25	27	72	8	45	4			
10	22			32	72	10	30	4	10150	32,58	32,58
10	22	9,7	30	32	72	10	45	4			
12	26			38	83	12	30	4	12160	47,55	47,55
12	26	11,7	36	38	83	12	45	4			
16	32			44	92	16	30	4	16180	77,68	77,68
16	32	15,5	42	44	92	16	45	4			
20	38			54	104	20	30	4	20110	110,95	110,95
20	38	19,5	52	54	104	20	45	4			
P									●		
M									●		
K									●		
N									○		
S									○		
H											
O											

NC front and rear chamfer milling cutter



WNT \ Standard

Nett Prices

DC mm	APMX mm	DN mm	LH mm	OAL mm	DCONMS _{h6} mm	ZEFP	Fig.	52 159 ...		
								EUR	EUR	
3	2,0	2,2	12,0	75	4	4	A	030	66,23	66,23
4	2,7	2,9	17,7	75	4	4	A	040	67,43	67,43
5	3,0	3,9	18,0	75	5	4	A	050	68,74	68,74
6	4,0	3,9	19,0	100	6	4	A	060	82,17	82,17
8	2,0			100	6	4	B	080	106,61	106,61
10	4,0			100	6	4	B	100	132,89	132,89
12	6,0			100	6	4	B	120	158,15	158,15
P								●		
M								○		
K								●		
N								○		
S								○		
H								○		
O								●		



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SYSTEMS



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



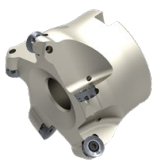
MaxiMill C 211-11 – first choice indexable end milling system.



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



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

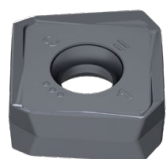


MaxiMill 251 – first choice indexable button milling system.



WPS – first choice indexable chamfer milling cutter.

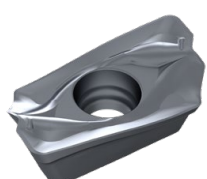
GRADES



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



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



CTPP235 – first choice for steels with or without coolant.

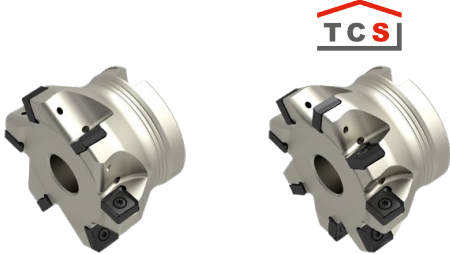
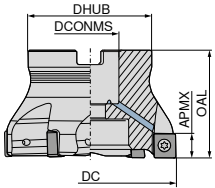


CTC5240 – first choice for titanium and heat resistant super alloys.

MaxiMill – Shell mill A 491



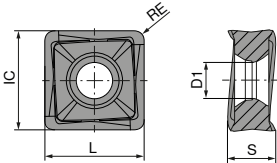
CERATIZIT \ Performance



ISO designation	DC mm	OAL mm	DHUB mm	DCONMS _{H6} mm	APMX mm	Insert	ZNF	50 775 ...		50 776 ...	
								EUR	EUR	EUR	EUR
A491.40.R.03-09	40	40	38	16	6	SNHU 09T3	3	240	413,48	60,00	
A491.40.R.05-09	40	40	38	16	6	SNHU 09T3	5				240
A491.50.R.04-09	50	40	43	22	6	SNHU 09T3	4	250	458,30	66,00	480,65
A491.50.R.06-09	50	40	43	22	6	SNHU 09T3	6				250
A491.63.R.05-09	63	40	48	22	6	SNHU 09T3	5	263	547,72	79,00	525,97
A491.63.R.08-09	63	40	48	22	6	SNHU 09T3	8				263
A491.80.R.06-09	80	50	58	27	6	SNHU 09T3	6	280	581,36	84,00	648,22
A491.80.R.10-09	80	50	58	27	6	SNHU 09T3	10				280

SNHU

Designation	IC mm	L mm	S mm	D1 mm
SNHU 09T3..	9,15	9,15	3,70	3,85



SNHU

CERATIZIT \ Performance



-M50
CTPM240
DRAGONSKIN



SNHU

-M50
CTPP235
DRAGONSKIN



SNHU

-F10
CTWN215



SNHU

-F40
CTC5240
DRAGONSKIN



SNHU

ISO	RE mm	51 120 ...		51 120 ...		51 118 ...		51 126 ...	
		EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
09T308ER	0,8							15800	
09T308FR	0,8					358	23,86	21,47	
09T308SR	0,8								20,84
09T312FR	1,2					36200	23,86	21,47	
09T312SR	1,2								
09T316FR	1,6					36600	23,86	21,47	
09T316SR	1,6								

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

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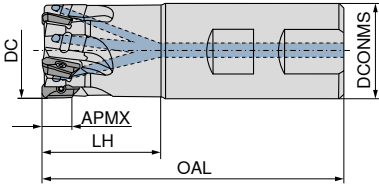
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MaxiMill – End milling cutter C 211-11

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



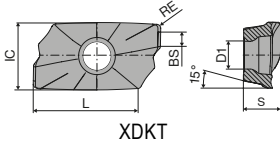
CERATIZIT \ Performance



ISO designation	DC	OAL	LH	DCONMS _{h6}	APMX	RPMX	Insert	ZNF		50 737 ...			50 737 ...		
	mm	mm	mm	mm	mm	1/min.				EUR	EUR		EUR	EUR	
C211.16.R.02-11-A-25	16	75	25	16	10	42000	XD.T 11T3	2		116	245,71	36,00	016	245,71	36,00
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		316	245,71	36,00			
C211.16.R.02-11-A-32-165	16	165	32	16	10	14800	XD.T 11T3	2		216	245,71	36,00			
C211.20.R.03-11-A-25	20	77	25	20	10	36900	XD.T 11T3	3		120	279,04	40,00	020		
C211.20.R.03-11-B-25	20	77	25	20	10	36900	XD.T 11T3	3						279,04	40,00
C211.20.R.02-11-A-25	20	77	25	20	10	36900	XD.T 11T3	2		12002	259,06	39,00			
C211.20.R.03-11-A-32-165	20	165	32	20	10	15800	XD.T 11T3	3		320	279,04	40,00			
C211.20.R.02-11-A19-40-200	20	200	40	19	10	10500	XD.T 11T3	2		620	259,06	38,00			
C211.20.R.02-11-A-40-200	20	200	40	20	10	10500	XD.T 11T3	2		420	259,06	38,00			
C211.25.R.03-11-A-32	25	90	32	25	10	33200	XD.T 11T3	3		625	292,28	42,00	025		
C211.25.R.04-11-B-32	25	90	32	25	10	33200	XD.T 11T3	4						342,26	45,00
C211.25.R.04-11-A-32	25	90	32	25	10	33200	XD.T 11T3	4		125	342,26	45,00			
C211.25.R.04-11-A-40-165	25	165	40	25	10	19900	XD.T 11T3	4		325	342,26	45,00			
C211.25.R.03-11-A-50-225	25	225	50	25	10	9400	XD.T 11T3	3		425	292,28	42,00			
C211.25.R.03-11-A24-50-225	25	225	50	24	10	9400	XD.T 11T3	3		825	292,28	42,00			
C211.25.R.02-11-A-50-225	25	225	50	25	10	9400	XD.T 11T3	2		02502	272,52	41,00			
C211.32.R.04-11-A-40	32	102	40	32	10	30200	XD.T 11T3	4		13204	325,51	49,00	032		
C211.32.R.05-11-B-40	32	102	40	32	10	30200	XD.T 11T3	5						345,48	50,00
C211.32.R.05-11-A-40	32	102	40	32	10	30200	XD.T 11T3	5		132	345,48	50,00			
C211.32.R.04-11-A25-40	32	102	40	25	10	30200	XD.T 11T3	4		53204	325,51	49,00			
C211.32.R.05-11-A-50-165	32	165	50	32	10	20900	XD.T 11T3	5		332	345,48	50,00			
C211.32.R.04-11-A-64-250	32	250	64	32	10	8500	XD.T 11T3	4		432	325,51	47,00			

XDKT

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



XDKT

CERATIZIT \ Performance



CERATIZIT \ Performance											

1) Insert radius >1.6 mm: Modify cutter body

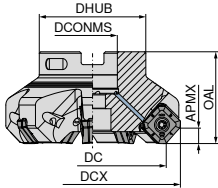


MaxiMill – A 271-12 Face mill

▲ 8 cutting edges per insert



CERATIZIT \ Performance

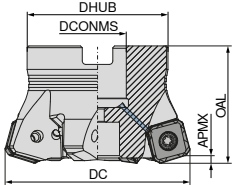


ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert	50 787 ...			50 787 ...		
												EUR	EUR		EUR	EUR
A271.40.R.04-12	40	53	4	6,8	40	38	16	17900	3,2	SOHU 1204.. / XOHU 1204..	04004	434,49	63,00			
A271.50.R.05-12	50	63	5	6,8	40	43	22	15200	3,2	SOHU 1204.. / XOHU 1204..	05005	445,36	65,00			
A271.63.R.07-12	63	76	7	6,8	40	48	22	13100	3,2	SOHU 1204.. / XOHU 1204..	06307	564,90	82,00			
A271.80.R.06-12	80	93	6	6,8	50	58	27	11300	3,2	SOHU 1204.. / XOHU 1204..				08006	564,90	82,00
A271.80.R.08-12	80	93	8	6,8	50	58	27	11300	3,2	SOHU 1204.. / XOHU 1204..	08008	651,74	94,00			
A271.100.R.07-12	100	113	7	6,8	63	78	32	9900	3,2	SOHU 1204.. / XOHU 1204..				10007	716,94	104,00
A271.100.R.10-12	100	113	10	6,8	63	78	32	9900	3,2	SOHU 1204.. / XOHU 1204..	10010	844,75	118,00			

MaxiMill – A 271-12 HFC Face mill



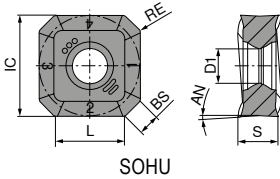
CERATIZIT \ Performance



ISO designation	DC mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert	50 788 ...		
											EUR	EUR
A271.50.R.04-12-HFC	50	4	2,6	40	43	22	14600	3,2	SOHU 1204..	05004	445,36	65,00
A271.63.R.06-12-HFC	63	6	2,6	40	48	22	12500	3,2	SOHU 1204..	06306	564,90	82,00
A271.80.R.07-12-HFC	80	7	2,6	50	58	27	10800	3,2	SOHU 1204..	08007	651,74	94,00

SOHU

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



SOHU

CERATIZIT \ Performance



ISO	RE mm	51 140 ...			51 138 ...			51 138 ...		
			EUR	EUR		EUR	EUR		EUR	EUR
1204ABSR	0,8	17000	34,46	31,01	12000	28,02	25,22	42000	28,02	25,22
P										
M										
K										
N										
S										
H										
O										

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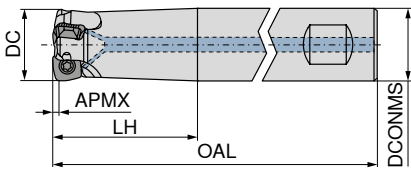


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MaxiMill – End milling cutter C HFC

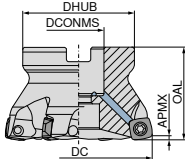


ISO designation	DC mm	OAL mm	LH mm	DCONMS _{H6} mm	APMX mm	RPMX 1/min.	Insert	ZNF
CHFC.16.R.02-06-A-40-200	16	200	40	16	0,8	4600	XPLX 0603..	2
CHFC.16.R.02-06-B-40	16	89	40	16	0,8	17300	XPLX 0603..	2
CHFC.20.R.03-06-A-50-225	20	225	50	20	0,8	4200	XPLX 0603..	3
CHFC.20.R.03-06-B-50	20	101	50	20	0,8	14500	XPLX 0603..	3
CHFC.25.R.02-09-A-50-225	25	225	50	25	1,0	9000	XDLX 09T3..	2
CHFC.25.R.03-09-A-50-225	25	225	50	25	1,0	9000	XDLX 09T3..	3
CHFC.25.R.04-06-A-50-225	25	225	50	25	0,8	4600	XPLX 0603..	4
CHFC.25.R.04-06-B-50	25	107	50	25	0,8	15600	XPLX 0603..	4
CHFC.32.R.03-09-A-63-250	32	250	63	32	1,0	8100	XDLX 09T3..	3
CHFC.32.R.02-12-A-63-250	32	250	63	32	2,0	6480	XOLX 1204..	2
CHFC.32.R.05-06-A-25-60-225	32	225	60	25	0,8	3900	XPLX 0603..	5
CHFC.32.R.05-06-B-25-60	32	117	60	25	0,8	11000	XPLX 0603..	5
CHFC.35.R.03-12-A-63-250	35	250	63	32	2,0	6480	XOLX 1204..	3

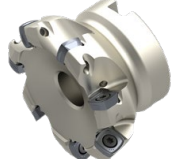


50 681 ...			50 681 ...		
	EUR	EUR		EUR	EUR
716	245,71	37,00	616	245,71	37,00
720	270,04	42,00	620	270,04	42,00
025	294,25	43,00	625	312,26	47,00
125	315,88	46,00			
725	312,26	47,00			
032	320,96	48,00			
132	308,64	45,00			
732	345,48	52,00	632	345,48	52,00
035	320,96	48,00			

MaxiMill – Shell mill A HFC

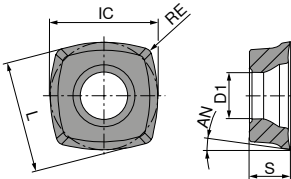


ISO designation	DC mm	OAL mm	DCONMS _{H6} mm	DHUB mm	APMX mm	RPMX 1/min.	Insert	ZNF
AHFC.32.R.03-09	32	40	16	38	1	27700	XDLX 09T3..	3
AHFC.35.R.04-09	35	40	16	38	1	26700	XDLX 09T3..	4
AHFC.40.R.04-09	40	40	16	38	1	26400	XDLX 09T3..	4
AHFC.42.R.05-09	42	40	16	38	1	26100	XDLX 09T3..	5
AHFC.50.R.05-09	50	40	22	43	1	23500	XDLX 09T3..	5
AHFC.52.R.06-09	52	40	22	43	1	23000	XDLX 09T3..	6
AHFC.63.R.06-09	63	40	22	48	1	20500	XDLX 09T3..	6
AHFC.66.R.07-09	66	40	22	48	1	20000	XDLX 09T3..	7
AHFC.40.R.03-12	40	40	16	38	2	21120	XOLX 1204..	3
AHFC.42.R.04-12	42	40	16	38	2	20880	XOLX 1204..	4
AHFC.50.R.04-12	50	40	22	43	2	18800	XOLX 1204..	4
AHFC.52.R.05-12	52	40	22	43	2	18400	XOLX 1204..	5
AHFC.63.R.05-12	63	40	22	48	2	16400	XOLX 1204..	5
AHFC.66.R.06-12	66	40	22	48	2	16000	XOLX 1204..	6



50 683 ...		
	EUR	EUR
032	320,96	48,00
035	354,48	51,00
140	365,87	53,00
142	387,30	56,00
150	420,46	62,00
152	454,08	66,00
163	494,94	72,00
16600	516,47	77,00
040	344,45	50,00
042	365,87	53,00
050	408,83	59,00
052	420,46	62,00
063	473,31	69,00
066	494,94	72,00

XPLX

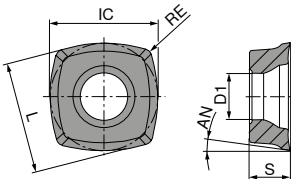


ISO	RE mm	IC mm	D1 mm	L mm	AN °	S mm
060305ER	0,5	6,35	2,8	6	11	2,75
060305SR	0,5	6,35	2,8	6	11	2,75



50 518 ...			51 019 ...			51 019 ...		
	EUR	EUR		EUR	EUR		EUR	EUR
558	16,36	14,72	105	13,41	12,07	405	13,41	12,07

XDLX

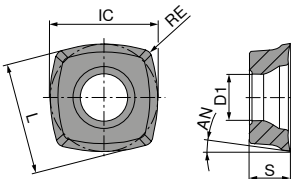


ISO	RE mm	IC mm	D1 mm	L mm	AN °	S mm
09T308ER	0,8	9,52	4,4	9	15	3,97
09T308SR	0,8	9,52	4,4	9	15	3,97



50 503 ...			51 016 ...			51 016 ...		
	EUR	EUR		EUR	EUR		EUR	EUR
558	16,69	15,02	108	13,83	12,45	408	13,83	12,45

XOHX / XOLX



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



51 124 ...			51 017 ...			51 017 ...		
	EUR	EUR		EUR	EUR		EUR	EUR
16000	25,38	22,84	110	16,58	14,92	410	16,58	14,92

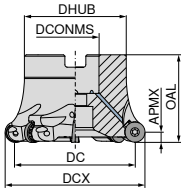
P	●	○
M	○	●
K	○	○
N		
S	●	
H		
O		



MaxiMill – Shell mill A 251 RS



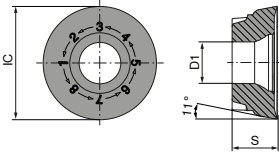
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ISO designation	DCX mm	DC mm	OAL mm	APMX mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	Insert	ZNF	50 686 ...		
A251.40.R.05-10-RS	40	30	40	5	38	16	16000	RP.X 10T3..	5	140	EUR 370,22	EUR 55,00
A251.42.R.06-10-RS	42	32	40	5	38	16	16000	RP.X 10T3..	6	142	EUR 435,84	EUR 63,00
A251.50.R.06-10-RS	50	40	40	5	43	22	12500	RP.X 10T3..	6	150	EUR 450,95	EUR 65,00
A251.52.R.06-10-RS	52	42	40	5	43	22	12500	RP.X 10T3..	6	152	EUR 450,95	EUR 65,00
A251.40.R.04-12-RS	40	28	40	6	38	16	15900	RP.X 1204..	4	340	EUR 348,80	EUR 51,00
A251.50.R.05-12-RS	50	38	40	6	43	22	12500	RP.X 1204..	5	050	EUR 429,32	EUR 61,00
A251.52.R.05-12-RS	52	40	40	6	43	22	12500	RP.X 1204..	5	052	EUR 444,02	EUR 67,00
A251.63.R.06-12-RS	63	51	40	6	48	22	10000	RP.X 1204..	6	063	EUR 522,68	EUR 76,00
A251.66.R.07-12-RS	66	54	40	6	48	22	9000	RP.X 1204..	7	166	EUR 551,03	EUR 83,00
A251.80.R.07-12-RS	80	68	50	6	58	27	8000	RP.X 1204..	7	080	EUR 580,64	EUR 85,00

RPHX / RPNX

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



RPHX / RPNX

CERATIZIT \ Performance

ISO	-M31 CTC5240 DRAGONSKIN RPHX 50 493 ...			-M50 CTPP235 DRAGONSKIN RPNX 51 054 ...			-F50 CTPP235 DRAGONSKIN RPHX 51 051 ...			-M50 CTPM240 DRAGONSKIN RPHX 51 050 ...		
	550	551	552	552	56200	582	12000	125	420	425	12000	125
10T3M4EN	1) 17,60	15,84										
10T3M8EN	17,60	15,84										
10T3M8SN												
1204M4EN	19,30	17,45										
1204M6EN	19,30	17,45										
1204M8EN	19,30	17,45										
1204M8SN												
P							●	●	○	○	●	○
M							○	○	○	○	○	○
K							○	○	○	○	○	○
N												
S												
H												
O												

1) Insert with 4 indexes

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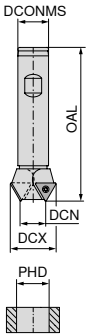


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Indexable chamfer milling 90°

Scope of supply:
Indexable insert countersink including clamping screws

KOMET \ Performance

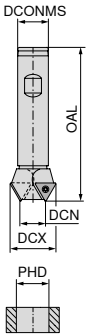


DCX	DCN	PHD	ZEFP	DCONMS	OAL	Insert	30 196 ...		
mm	mm	mm		mm	mm			EUR	EUR
19	7	9,5	2	16	100	TOHX 090204	19000	237,33	60,00
23	11	12,0	2	16	100	TOHX 090204	23000	240,64	60,00
26	11	12,0	1	16	100	TOHX 090204	26000	242,91	60,00
30	12	13,0	2	20	100	TOHX 140305	30000	253,99	60,00
34	16	17,0	2	20	100	TOHX 140305	34000	258,34	60,00
37	19	20,0	2	20	100	TOHX 140305	37000	258,34	60,00

Indexable chamfer milling 60°

Scope of supply:
Indexable insert countersink including clamping screws

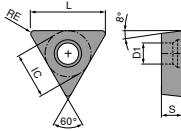
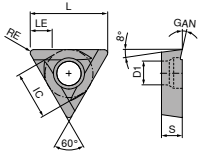
KOMET \ Performance



DCX	DCN	PHD	ZEFP	DCONMS	OAL	Insert	30 197 ...		
mm	mm	mm		mm	mm			EUR	EUR
16,5	8,1	8,5	1	16	100	TOHX 090204	16500	240,64	60,00
20,0	11,6	12,0	2	16	100	TOHX 090204	20000	242,91	60,00
22,0	13,6	14,0	2	16	100	TOHX 090204	22000	253,99	60,00
23,5	15,1	15,5	2	16	100	TOHX 090204	23500	258,34	60,00
25,5	17,1	17,5	2	16	100	TOHX 090204	25500	258,34	60,00

TOHX

Designation	L	S	D1	IC
	mm	mm	mm	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	62 603 ...		62 603 ...	
	mm	EUR	EUR	EUR	EUR
06T103EL	0,3			30200	20,58 18,52
090204EL	0,4			31800	22,28 20,95
090204EN	0,4				
140304EL	0,4	31400	23,96 21,56	32600	26,23 23,61
P		●		●	
M		●		●	
K		●		●	
N					
S		●		●	
H		○		○	
O					

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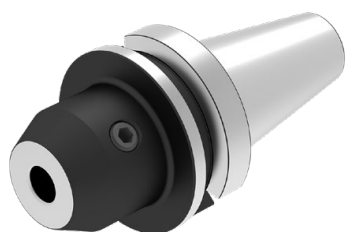
ADAPTERS AND ACCESSORIES



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ER Precision Collet chuck – Centro-P

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

Scope of supply:

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



AD

G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	LSCX	l ₂ (l ₂)	for collet
	mm	mm	mm	mm	mm	
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)

84 524 ...

	EUR	EUR
210	96,48	68,00
310	189,23	79,00
410	144,68	109,00
510	159,76	117,00
116	161,84	77,00
216	96,36	68,00
316	169,23	79,00
416	166,46	117,00
516	170,46	125,00
616	219,34	145,00
120	161,84	77,00
220	96,48	68,00
320	169,23	79,00
420	166,46	117,00
520	176,46	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



Technical drawing of a collet chuck showing dimensions: l_2 , LPR, A, DLN, DCONWS, LSCX, and a callout for A with a tolerance of $L/1 \leq 0.001$.

AD/B

G 2,5 n_{max} 25000

Adapter

DCONWS

LPR

DLN

LSCX

l_2 (l_2)

for collet

mm

mm

mm

mm

mm

SK 40

1 - 10

130

30

140

28 - 50 (14 - 34)

426E (ER16)

SK 40

1 - 10

160

30

200

28 - 45 (16 - 31)

426E (ER16)

SK 40

2 - 16

45

40

85

35 - 60 (20 - 42)

430E (ER25)

SK 40

2 - 16

130

40

140

38 - 67 (21 - 49)

430E (ER25)

SK 40

2 - 16

160

40

118

35 - 60 (20 - 42)

430E (ER25)

SK 40

2 - 20

130

50

114

50 - 74 (36 - 55)

470E (ER32)

SK 40

2 - 20

160

50

119

52 - 70 (32 - 52)

470E (ER32)

SK 50

2 - 20

100

50

150

53 - 81 (35 - 63)

470E (ER32)

SK 50

2 - 20

160

50

200

53 - 83 (35 - 65)

470E (ER32)

84 414 ...

EUR

EUR

510

~~146,87~~

110,00

910

~~166,12~~

122,00

816

~~116,95~~

100,00

516

~~157,63~~

120,00

916

~~176,88~~

127,00

620

~~157,63~~

120,00

920

~~176,88~~

127,00

520

~~219,34~~

206,00

720

~~266,53~~

295,20

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

WNT \ Performance

for seals

for collet	DCONWS	DLN	TQX	84 950 ...		
	mm	mm	Nm		EUR	EUR
426E (ER16)	1 - 10	30	80	001	30,00	26,00
430E (ER25)	2 - 16	40	90	003	38,24	29,00
470E (ER32)	2 - 20	50	180	005	36,53	32,00

Roll key

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



for lock nut	DLN	84 950 ...		
	mm		EUR	EUR
426E / ER 16 CP	30	027	64,33	53,00
430E / ER 25 CP	40	054	64,33	62,00
470E / ER 32 CP + STD / OZ 462E CP	50	056	64,33	59,00

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



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

Clamping range covered: H10 corresponding to shank Ø DCONWS



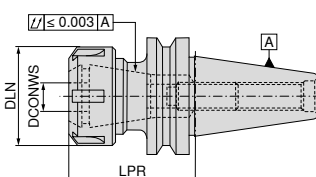
ER-Collet chuck

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

Scope of supply:

Holder with lock nut and adjustable back stop

WNT \ Standard



	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet			
short	BT 40	1 - 10	60	32	56	426E (ER16)	110	60,00	40,00
	BT 40	1 - 16	70	42	104	430E (ER25)	116	63,65	43,00
	BT 40	2 - 20	70	50	136	470E (ER32)	120	63,85	43,00
	BT 40	3 - 26	70	63	176	472E (ER40)	126	66,38	45,00
medium length	BT 40	1 - 10	120	32	56	426E (ER16)	410	66,78	46,00
	BT 40	1 - 16	120	42	104	430E (ER25)	416	69,52	46,00
	BT 40	2 - 20	120	50	136	470E (ER32)	420	69,71	46,00

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

82 509 ...

EUR EUR

Shell mill adapter

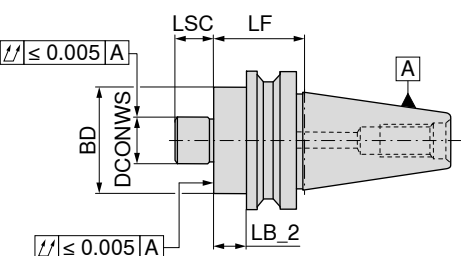
▲ With fixed drive dogs and enlarged contact face for milling cutters with transverse groove

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

Scope of supply:

Toolholder with clamping screw

WNT \ Standard



	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm			
short	BT 40	16	25	52	38	17	116	60,22	53,00
	BT 40	22	25	52	48	19	122	63,75	58,00
	BT 40	27	25	52	58	21	127	65,01	58,00
	BT 40	32	23	50	78	24	132	68,44	61,00
	BT 40	40	23	50	88	27	140 ¹⁾	74,41	67,00

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

82 514 ...

EUR EUR

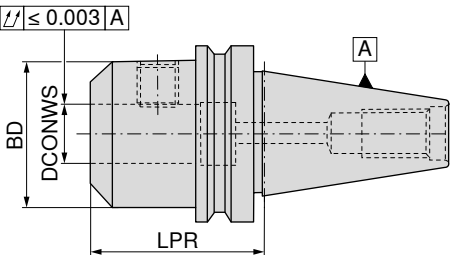
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

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



	Adapter	DCONWS _{H4} mm	LPR mm	BD mm					
short	BT 40	6	50	25					
	BT 40	8	50	28					
	BT 40	10	63	35					
	BT 40	12	63	42					
	BT 40	14	63	44					
	BT 40	16	63	48					
	BT 40	18	63	50					
	BT 40	20	63	52					
	BT 40	25	100	65					
	BT 40	32	100	72					
medium length	BT 40	6	100	25					
	BT 40	8	100	28					
	BT 40	10	100	35					
	BT 40	12	100	42					
	BT 40	14	100	44					
	BT 40	16	100	48					
	BT 40	18	100	50					
	BT 40	20	100	52					
extra-long	BT 40	6	160	25					
	BT 40	8	160	28					
	BT 40	10	160	35					
	BT 40	12	160	42					
	BT 40	14	160	44					
	BT 40	16	160	48					
	BT 40	18	160	50					
	BT 40	20	160	52					
	BT 40	25	160	65					

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

82 501 ...

EUR EUR

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

82 504 ...

EUR EUR

1) Version with two Grubscrews

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



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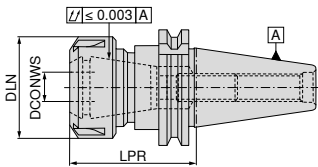
ER Collet chuck

▲ 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	82 415 ...		
								EUR	EUR
short	SK 40	1 - 10	60	32	56	426E (ER16)	110	60,00	40,00
	SK 40	1 - 16	70	42	104	430E (ER25)	116	63,65	43,00
	SK 40	2 - 20	70	50	136	470E (ER32)	120	63,85	43,00
	SK 40	3 - 26	70	63	176	472E (ER40)	126	66,38	45,00
medium length	SK 40	1 - 10	120	32	56	426E (ER16)	410	66,78	46,00
	SK 40	1 - 16	120	42	104	430E (ER25)	416	69,52	46,00
	SK 40	2 - 20	120	50	136	470E (ER32)	420	69,71	46,00

Shell mill adapter

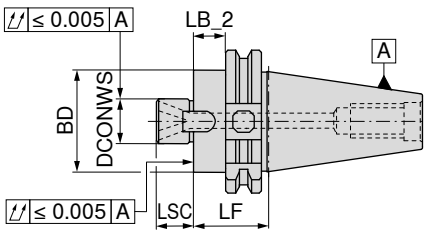
▲ Screwed drive dogs

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

Scope of supply:

Toolholder with clamping screw

WNT \ Standard



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

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 428 ...		
								EUR	EUR
short	SK 40	16	25	44	38	17	116	60,22	53,00
	SK 40	22	25	44	48	19	122	63,85	58,00
	SK 40	27	36	55	58	21	127	65,01	58,00
	SK 40	32	31	50	78	24	132	68,44	61,00
	SK 40	40	31	50	88	27	140 ¹⁾	74,41	67,00

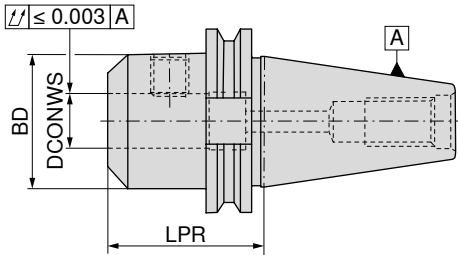
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Cylindrical shank adapter (Weldon)

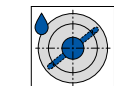
▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat

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

WNT \ Standard



	Adapter	DCONWS _{H4} mm	LPR mm	BD mm
short	SK 40	6	50	25
	SK 40	8	50	28
	SK 40	10	50	35
	SK 40	12	50	42
	SK 40	14	50	44
	SK 40	16	63	48
	SK 40	18	63	50
	SK 40	20	63	52
	SK 40	25	100	65
	SK 40	32	100	72
medium length	SK 40	6	100	25
	SK 40	8	100	28
	SK 40	10	100	35
	SK 40	12	100	42
	SK 40	14	100	44
	SK 40	16	100	48
	SK 40	18	100	50
	SK 40	20	100	52
extra-long	SK 40	6	160	25
	SK 40	8	160	28
	SK 40	10	160	35
	SK 40	12	160	42
	SK 40	14	160	44
	SK 40	16	160	48
	SK 40	18	160	50
	SK 40	20	160	52
	SK 40	25	160	65



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

		82 401 ...	
		EUR	EUR
short	106	43,61	40,00
	108	43,61	40,00
	110	41,16	39,77
	112	41,16	39,77
	114	41,16	39,77
	116	44,58	40,00
	118	44,58	40,00
	120	44,58	40,00
	125 ¹⁾	48,89	40,00
	132 ¹⁾	53,19	46,00
medium length	506	45,46	43,92
	508	45,46	43,92
	510	42,92	41,47
	512	42,92	41,47
	514	42,63	41,19
	516	47,19	45,54
	518	46,93	44,00
	520	47,19	45,54
extra-long	606	52,31	46,00
	608	52,31	46,00
	610	49,56	46,00
	612	49,56	46,00
	614	49,56	46,00
	616	49,76	46,00
	618	49,76	46,00
	620	49,76	46,00
	625 ¹⁾	53,19	46,00



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

		82 404 ...	
		EUR	EUR
short	106	61,59	58,00
	108	61,59	58,00
	110	59,06	57,06
	112	59,06	57,06
	114	59,06	57,06
	116	67,26	58,00
	118	67,26	58,00
	120	67,26	58,00
medium length			
extra-long			

1) Version with two Grubscrews

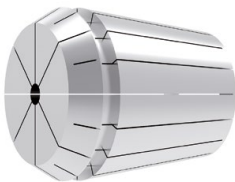
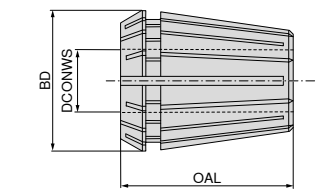
Spare parts can be found in → Chapter 16 Adapters and accessoires in the clamping technology catalogue.



ER precision collet

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

ER-B
20 µm WNT \ Standard



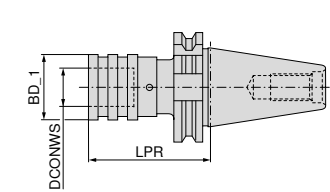
DCONWS mm	BD = 17 OAL = 27,5 426 E / ER16			BD = 21 OAL = 31,5 428 E / ER20			BD = 26 OAL = 34 430 E / ER25			BD = 33 OAL = 40 470 E / ER32			BD = 41 OAL = 46 472 E / ER40		
	82 673 ...			82 674 ...			82 675 ...			82 676 ...			82 677 ...		
		EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR		EUR	EUR
1	01000	16,65	13,00	01000 1)	17,24	12,00	02000	17,97	13,00				03000	18,22	12,00
2	02000	16,65	13,00	02000	17,24	12,00	03000	18,41	8,00	03000	14,43	9,00	04000	18,22	12,00
3	03000	13,53	10,00	03000	12,54	8,00	04000	13,41	8,00	04000	14,43	9,00	05000	18,22	12,00
4	04000	13,53	10,00	04000	12,54	8,00	05000	13,41	8,00	05000	14,43	9,00	06000	18,22	12,00
5	05000	13,53	10,00	05000	12,54	8,00	06000	13,41	8,00	06000	14,43	9,00	07000	18,22	12,00
6	06000	13,53	10,00	06000	12,54	8,00	07000	13,41	8,00	07000	14,43	9,00	08000	18,22	12,00
7	07000	13,53	10,00	07000	12,54	8,00	08000	13,41	8,00	08000	14,43	9,00	09000	18,22	12,00
8	08000	13,53	10,00	08000	12,54	8,00	09000	13,41	8,00	09000	14,43	9,00	10000	18,22	12,00
9	09000	13,53	10,00	09000	12,54	8,00	10000	13,41	8,00	10000	14,43	9,00	11000	18,22	12,00
10	10000	13,53	10,00	10000	12,54	8,00	11000	13,41	8,00	11000	14,43	9,00	12000	18,22	12,00
11				11000	12,54	8,00	12000	13,41	8,00	12000	14,43	9,00	13000	18,22	12,00
12				12000	12,54	8,00	13000	13,41	8,00	13000	14,43	9,00	14000	18,22	12,00
13				13000	12,54	8,00	14000	13,41	8,00	14000	14,43	9,00	15000	18,22	12,00
14							15000	13,41	8,00	15000	14,43	9,00	16000	18,22	12,00
15							16000	13,41	8,00	16000	14,43	9,00	17000	18,22	12,00
16										17000	14,43	9,00	18000	18,22	12,00
17										18000	14,43	9,00	19000	18,22	12,00
18										19000	14,43	9,00	20000	18,22	12,00
19										20000	14,43	9,00	21000	18,22	12,00
20													22000	18,22	12,00
21													23000	18,22	12,00
22													24000	18,22	12,00
23													25000	18,22	12,00
24													26000	18,22	12,00
25													99900	18,22	270,00
26															
Set in wooden box				99900	149,97	144,80	99900	160,94	140,00	99900	211,35	160,00	99900	259,37	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

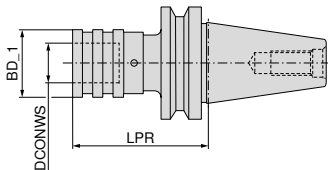


Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 428 ...		
								EUR	EUR
SK 30	M6 - M20	02	101	55	31	15	320	220,85	253,00
SK 30	M3 - M12	01	60	38	19	9	312	284,73	223,00
SK 40	M6 - M20	02	100	55	31	15	420	235,77	186,00
SK 40	M3 - M12	01	60	38	19	9	412	249,41	173,00
SK 50	M6 - M20	02	83	55	31	15	520	254,38	278,00
SK 50	M3 - M12	01	62	38	19	9	512	225,30	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	EUR
BT 30	M3 - M12	01	63	38	19	9	312	230,40	224,00
BT 30	M6 - M20	02	96	55	31	15	320	284,08	281,00
BT 40	M3 - M12	01	68	38	19	9	412	191,27	179,00
BT 40	M6 - M20	02	93	55	31	15	420	202,34	186,00
BT 50	M3 - M12	01	80	38	19	9	512	223,02	301,00
BT 50	M6 - M20	02	102	55	31	15	520	272,49	346,00

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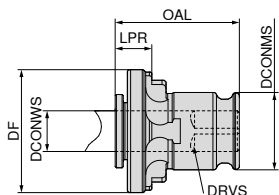
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http://cuttingtools.ceratizit.com



Quick change tap adapter

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

WNT \ Standard



AD

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR
	mm	mm			mm	mm	mm	mm
01	11,0	9,0		M14	30	19	28,5	7
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
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 EUR

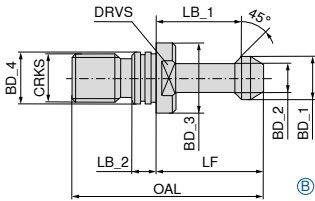
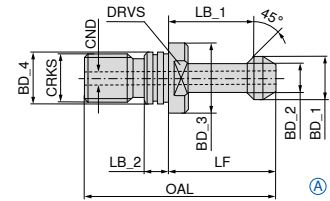
110	21,91	18,00
100	21,91	18,00
101	21,91	18,00
102	21,91	18,00
103	21,91	18,00
104	21,91	18,00
105	21,91	18,00
106	21,91	18,00
107	21,91	18,00
108	21,91	18,00
109	21,91	18,00
200	30,28	25,00
201	30,28	25,00
202	30,28	25,00
203	30,28	25,00
204	30,28	25,00
205	30,28	25,00
206	30,28	25,00
207	30,28	25,00
208	30,28	25,00
209	30,28	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
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	60
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	60
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	90
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	90
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	145
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	145

82 530 ...

EUR EUR

030	10,96	8,00
040	6,30	6,09
050	10,15	9,81

82 534 ...

EUR EUR

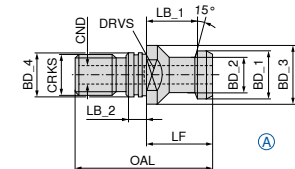
030	10,70	8,00
040	8,11	7,84
050	11,00	10,00

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
	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
SK 40	19	14	23	17	M16	54	26	20	7	7,0	19	90
SK 50	28	21	36	25	M24	74	34	25	10	11,5	30	145

82 468 ...

EUR EUR

030	10,96	7,00
040	5,50	5,31
050	8,36	8,00



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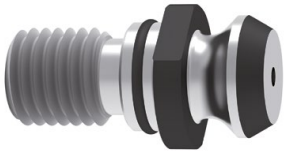
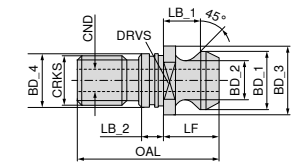
Pull studs for tool holders according to ISO 7388-1

▲ 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



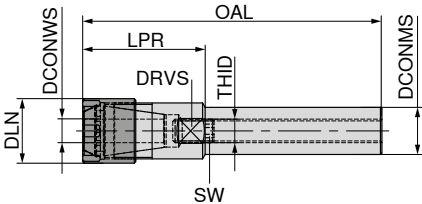
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
SK 40	18,79	12,44	22,5	17	M16	41,26	16,25	11,17	4,0	6,0	19	90
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	145

82 487 ...		
	EUR	EUR
040	5,82	5,62
050	8,36	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)

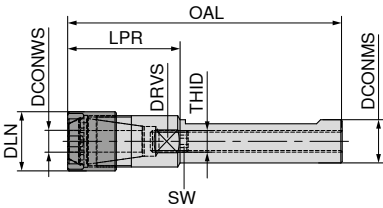
83 453 ...		
	EUR	EUR
081 ¹⁾	89,38	60,00
122	114,26	110,40
163	122,54	118,40
164	86,43	83,51
165	122,54	118,40
204	118,74	89,00
254	136,72	102,00
256	174,68	130,00

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat

WNT \ Standard



AD

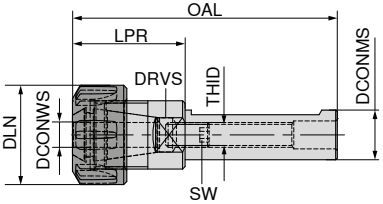
DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
20	1 - 10	168	28	22	M11x1	17	426E (ER16)
20	1 - 13	138	38	28	M11x1	22	428E (ER20)
20	1 - 16	146	46	35	M14x1	27	430E (ER25)
25	1 - 13	168	28	28	M14x1	22	428E (ER20)
25	1 - 16	189	39	35	M18x1	27	430E (ER25)

83 454 ...		
	EUR	EUR
204	118,74	89,00
206	89,24	64,00
208	103,74	75,00
254	136,72	102,00
256	174,68	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)

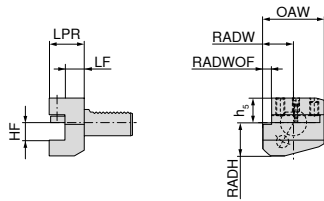
83 455 ...		
	EUR	EUR
401	106,98	76,00
402	130,28	93,00
405	124,28	87,00

Note: Spanner to be ordered separately.



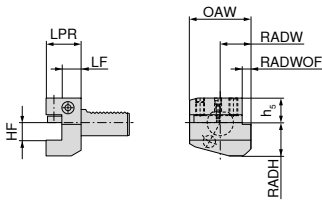
Radial tool holders, short

WNT \ Performance



B2

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



B1

B2



B1



Left-hand

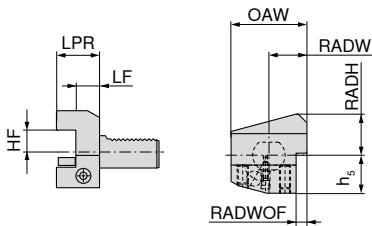
82 189 ...		
	EUR	EUR
200	117,37	72,00
201	123,86	95,00
300	126,37	79,00
301	158,77	124,00
400	128,55	79,00
500	107,89	124,00

Right-hand

82 185 ...		
	EUR	EUR
160	109,84	85,00
200	125,43	78,00
201	120,78	90,00
300	113,95	71,00
301	149,87	118,00
400	117,37	72,00
500	106,62	122,00

Radial tool holders, overhead, short

WNT \ Performance



B3



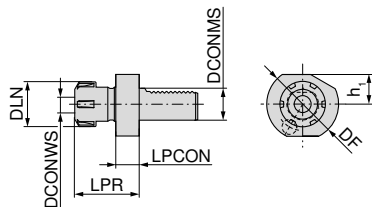
Right-hand

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

82 193 ...		
	EUR	EUR
160	116,33	90,00
201	144,28	113,00
300	118,48	74,00
400	119,65	78,00
500	107,89	124,00

ER Collet chucks

WNT \ Performance



E4

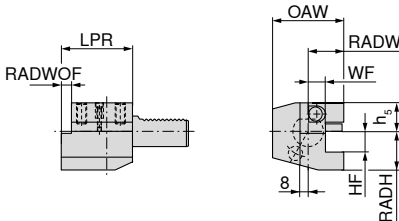


DCONMS _{h6}	DCONWS	DF	DLN	h ₁	LPR	LPCON	for collet
mm	mm	mm	mm	mm	mm	mm	
16	1 - 10	40	28	18,0	45,5	14	426E (ER16)
16	1 - 13	40	34	18,0	44,0	14	428E (ER20)
20	1 - 16	50	42	23,0	57,0	18	430E (ER25)
20	2 - 20	50	50	23,0	62,0	18	470E (ER32)
30	1 - 16	68	42	28,0	57,0	22	430E (ER25)
30	2 - 20	68	50	28,0	75,0	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	EUR
160	160,94	123,00
161	158,77	122,00
202	162,48	100,00
203	166,53	105,00
300	144,28	99,00
301	147,59	99,00
400	163,22	107,00
401	163,22	107,00
402	168,94	106,00
500	248,49	156,00
501	248,49	156,00

Axial tool holders

WNT \ Performance



C1



Right-hand

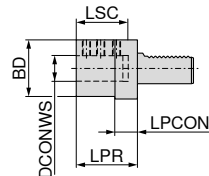
DCONMS _{h6}	HF _{0/+0,1}	OAW	RADW	WF _{0/+0,3}	h ₅	RADH	LPR	RADWOF
mm	mm	mm	mm	mm	mm	mm	mm	mm
30	20	70	35,0	17,0	28,0	38	70	10,0
40	25	85	42,5	20,5	32,5	48	85	12,5
50	32	100	50,0	25,5	35,0	60	100	16,0

82 211 ...		
	EUR	EUR
300	132,00	83,00
400	162,04	97,00
500	225,84	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 _{h6}	DCONWS _{h7}	DF	BD	h ₁	LPR	LPCON	LSC
mm	mm	mm	mm	mm	mm	mm	mm
16	6	40	32	18,0	44	13	34
16	8	40	32	18,0	44	13	34
16	10	40	32	18,0	44	13	34
16	12	40	40	18,0	44	13	34
16	16	40	40	18,0	44	13	34
20	8	50	40	23,0	50	18	41
20	10	50	40	23,0	50	18	41
20	12	50	40	23,0	50	18	41
20	16	50	40	23,0	50	18	41
20	20	50	50	23,0	50	18	41
20	25	50	50	23,0	60	18	51
30	8	68	55	28,0	60	22	51
30	10	68	55	28,0	60	22	51
30	12	68	55	28,0	60	22	51
30	16	68	55	28,0	60	22	51
30	20	68	55	28,0	60	22	51
30	25	68	55	28,0	60	22	51
30	32	68	68	28,0	75	22	61
40	8	83	55	32,5	75	22	61
40	10	83	55	32,5	75	22	61
40	12	83	55	32,5	75	22	61
40	16	83	55	32,5	75	22	61
40	20	83	55	32,5	75	22	61
40	25	83	55	32,5	75	22	61
40	32	83	83	32,5	75	22	61
40	40	83	83	32,5	90	22	76
50	12	98	68	35,0	90	30	76
50	16	98	68	35,0	90	30	76
50	20	98	68	35,0	90	30	76
50	25	98	68	35,0	90	30	76
50	32	98	68	35,0	90	30	76
50	40	98	98	35,0	90	30	76
50	50	98	98	35,0	100	30	86

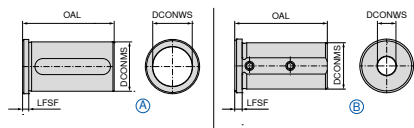
82 268 ...		
	EUR	EUR
160 ¹⁾	134,24	106,00
161 ¹⁾	119,95	81,00
162 ¹⁾	119,95	81,00
163 ¹⁾	119,95	81,00
164 ¹⁾	119,95	81,00
200	119,65	75,00
201	119,65	75,00
202	119,65	75,00
203	119,65	75,00
204	119,65	75,00
205	119,65	75,00
300	117,37	72,00
301	117,37	72,00
302	117,37	72,00
303	117,37	72,00
304	117,37	72,00
305	117,37	72,00
306	117,37	72,00
400	119,65	75,00
401	119,65	75,00
402	119,65	75,00
403	119,65	75,00
404	119,65	75,00
405	119,65	75,00
406	119,65	75,00
407	119,65	75,00
500	170,98	107,00
501	170,98	107,00
502	170,98	107,00
503	163,22	102,00
504	163,22	102,00
505	163,22	102,00
506	163,22	102,00

1) Coolant supply through pipe joint

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank

WNT \ Performance



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

83 272 ...		
	EUR	EUR
262	52,75	48,00
256	68,08	63,00
258	62,76	48,00
260	62,76	48,00
266	52,75	48,00
270	52,75	48,00
326	70,32	66,00
328	70,32	66,00
330	54,44	49,00
332	54,44	49,00
336	54,44	49,00
340	54,44	49,00
345	54,44	49,00
408	85,18	79,00
410	70,32	66,00
412	76,01	66,00
416	76,01	66,00
420	76,01	66,00
425	76,01	66,00
432	76,01	66,00
525	70,16	74,00
512	70,16	74,00
516	70,16	74,00
520	70,16	74,00
532	70,16	74,00
540	70,16	74,00



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