

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: 0800 073 2073

Freefax Number: 0800 073 2074



VALID: 01.06.2022 – 31.08.2022



# SPECIAL SELECTION

## TEAM CUTTING TOOLS



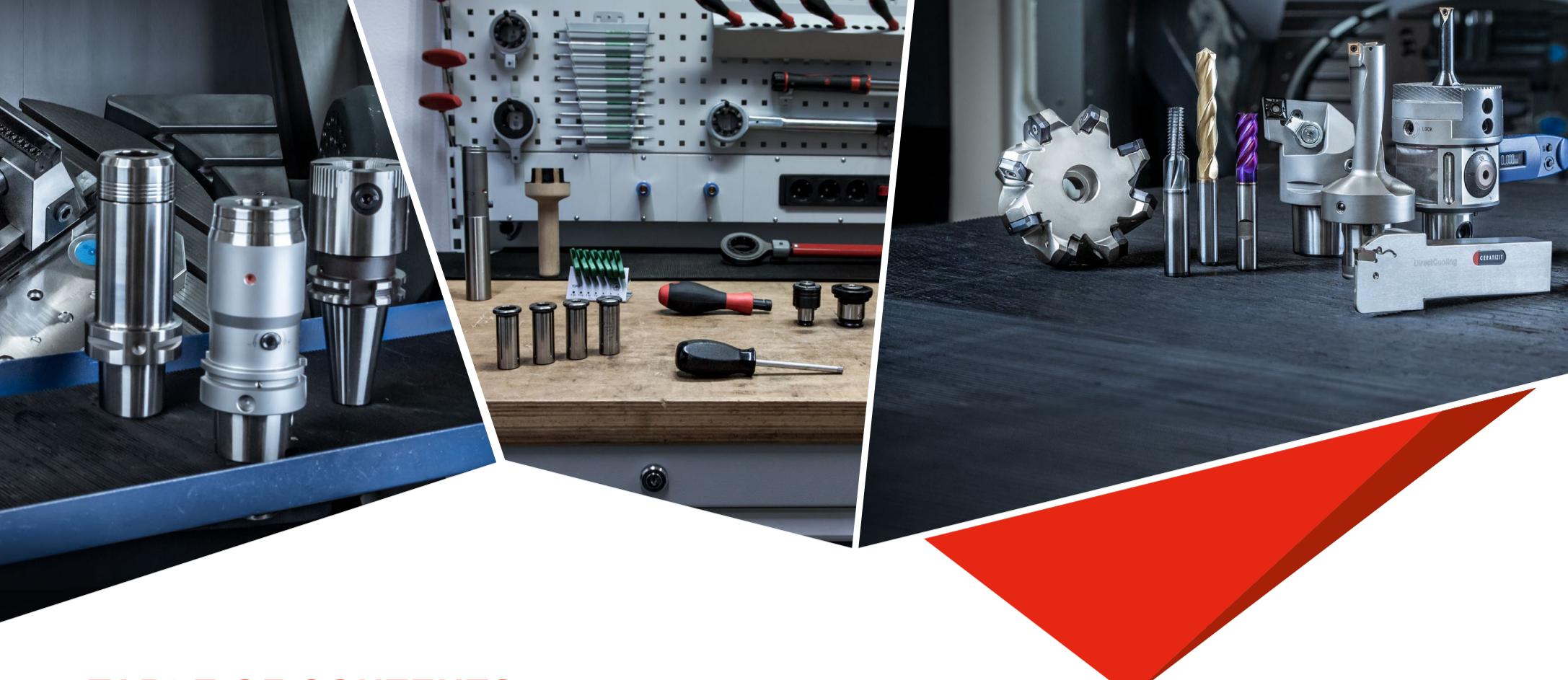
CERATIZIT is a high-technology engineering group specialised in cutting tools and hard material solutions.

**Tooling the Future**

[www.ceratizit.com](http://www.ceratizit.com)



CERATIZIT Technical Sales Engineer Lee Pinhorne congratulates the HB130 winner Dave Buchan from Havant based Monoluton Ltd



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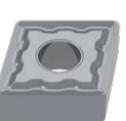
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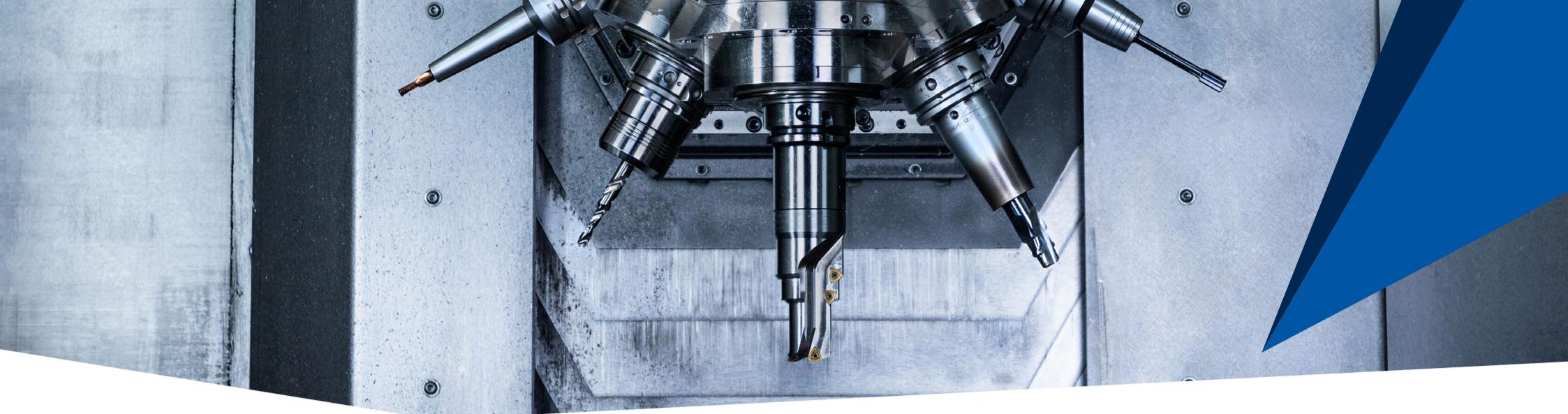
## Colour code information

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

**TRADE COUNTER SHEFFIELD**

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



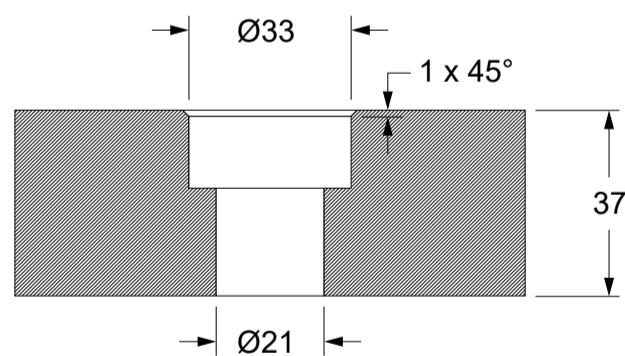


# SEMI-STANDARD SOLID DRILLING AND BORING

Total savings  
Total savings

3 min / Part  
£ 300 / Tool

Conventional machining



Current solution: Drilling,  
Milling, Chamfering  
Total tool price

**4 min**  
**£ 700**

## Combined machining

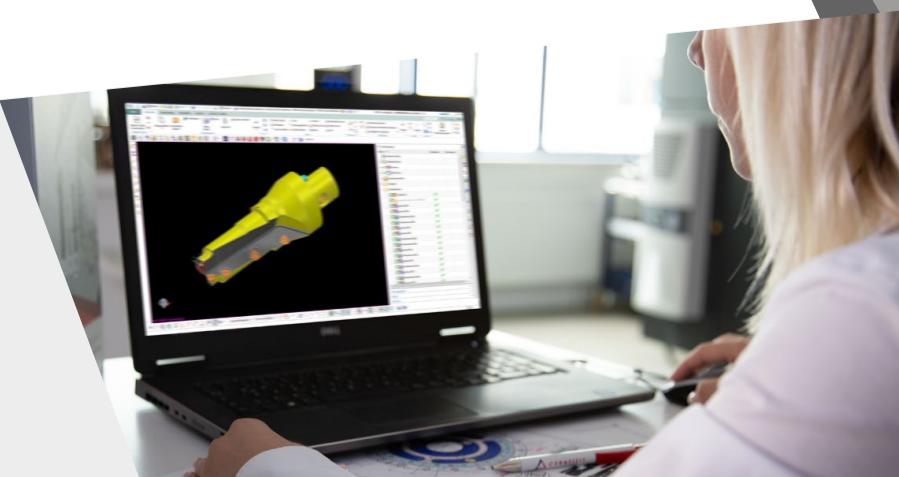


- ▲ Shorter process times due to high-performance parameters
- ▲ Ideal positioning accuracy increases the quality of the hole produced across all steps
- ▲ Reduces the need for tool changes due to combined machining

With CERATIZIT Semi-Standard  
Total tool price

**1 min**  
**£ 400**

Contact our technical team on  
**0800 0732075** for quotation.



Carl Brunton, Derrick Jones and Ali Kerr discussing the finished part.



## BILLET MACHINING CUTS TIME TO MARKET FOR TECHNI

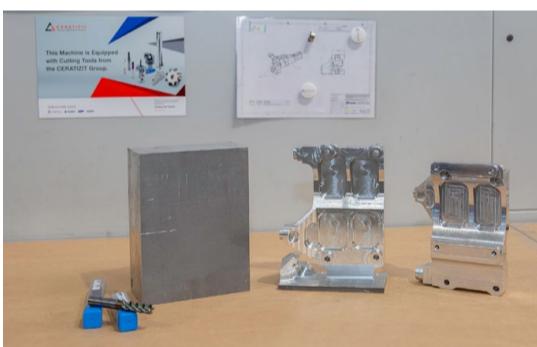
With the support of CERATIZIT UK & Ireland Techni has dramatically cut time to market for its compressor mount kits used for van-based refrigeration and compressed air units.

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

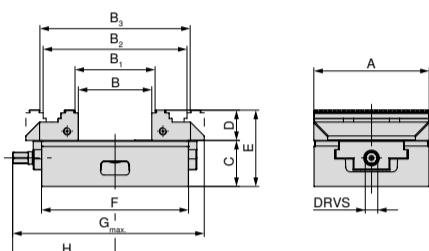


## Sealed Centric vice

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



WNT \ Standard



## Base plate, round



80 899 ...  
125 £ 549.22 £ 380.00

## MNG indexing bolt



80 899 ...  
51500 £ 20.40 £ 11.00

## MNG pull studs



80 899 ...  
025 £ 45.83 £ 32.00

A	B	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	C	D	E	F	G <sub>max.</sub>	H	Clamping force	kg
80	0 - 59	4 - 63	59 - 117	63 - 121	50	28	78	130	157	81.0	25	4.0
80	0 - 123	4 - 127	59 - 181	63 - 185	50	28	78	190	206	104.0	25	5.5
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111.5	35	8.7

AD/B	G 2.5 n <sub>max</sub> 18000
<b>80 878 ...</b>	
080	£ 971.62 £ 518.00
08300	£ 1,087.44 £ 592.00
025	£ 1,197.05 £ 653.00

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

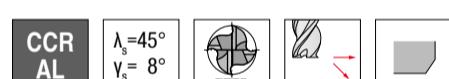
Any of the ZSG4 vices +  
base plate + pull stud + dowel

= £ 900



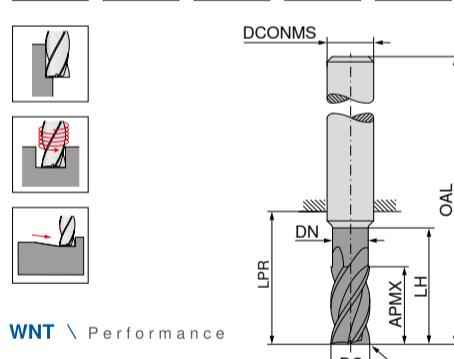
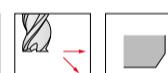
## CircularLine – End milling cutter

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

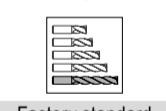
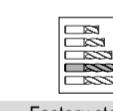
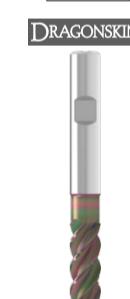
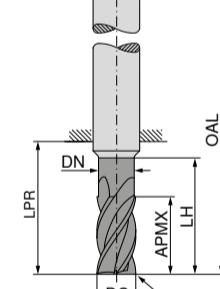


$\lambda_s = 45^\circ$

$\gamma_s = 8^\circ$



WNT \ Performance



Factory standard

HB

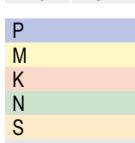
Factory standard

HB

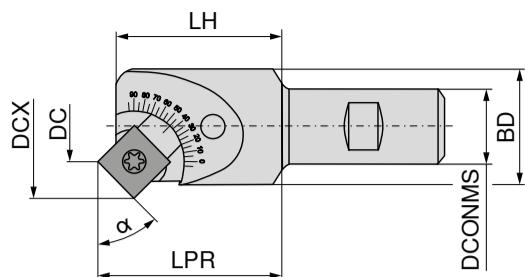
DC <sub>e8</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	CHW	ZEFP
6	19	5.8	24	30	66	6	0.2	4
6	25	5.8	30	35	71	6	0.2	4
8	25	7.7	32	37	73	8	0.2	4
8	33	7.7	40	44	80	8	0.2	4
10	31	9.7	40	49	89	10	0.2	4
10	41	9.7	50	55	95	10	0.2	4
12	37	11.6	48	56	101	12	0.2	4
12	49	11.6	60	64	109	12	0.2	4
14	43	13.0	56	60	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

53 590 ...	£	£
060	£ 60.46	£ 39.30
080	£ 78.97	£ 51.33
100	£ 111.05	£ 72.18
120	£ 133.25	£ 86.61
14000	£ 200.35	£ 130.23
160	£ 272.00	£ 177.25
18000	£ 307.91	£ 200.14
200	£ 382.50	£ 248.63

53 591 ...	£	£
060	£ 62.03	£ 40.90
080	£ 81.43	£ 52.93
100	£ 112.29	£ 72.99
120	£ 139.43	£ 90.63
14000	£ 205.20	£ 133.38
160	£ 278.86	£ 181.26
18000	£ 332.17	£ 215.91
200	£ 392.35	£ 255.03



## 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 ...

01600 100.00

02000 120.00

73 085 ...

999 230.00

1,050.80



## UltraMini – Set

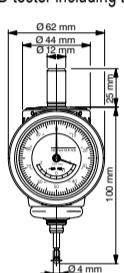
▲ internal turning, grooving and  
chamfering

## 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



## Zero height setting gauge

Universal 3D-Tester HQ

85 292 ...  
100 220.00Designation Height mm  
Zero height setting gauge 10085 900 ...  
018 75.00

Collet chuck

80 720 ...  
030 55.00  
040 60.00  
050 65.00

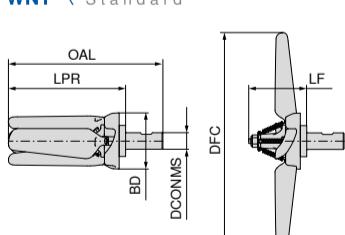
## Twist drill sets DIN 338 – Type N short



## 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.
20	186.3	141.3	69.75	254	67.68	5000 - 8000

80 399 ...  
02000 135.00

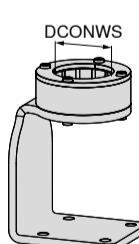
Spare parts  
for Article no.  
80 399 02000

80 399 ...  
57.00 25.00 3010080 399 ...  
224.41 100.00 30200

## Assembly fixture for tool holders

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

## WNT \ Standard



Adapter DCONWS mm

80 722 ...  
032 120.00

HSK 32, PSC 32 32.0

040 120.00

HSK 40, PSC 40 40.0

046 100.00

MAS-BT 30 46.0

050 100.00

DIN 69871 / DIN 2080 - SK 30, HSK 50, PSC 50 50.0

063 100.00

DIN 69871 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40 63.0

097 200.00

DIN 69871 - SK 50 97.5

100 200.00

HSK 100, MAS-BT 50, ANSI-CAT 50 100.0

554.80 200.00





# 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

		T C S				T C S				T C S						
NC-A		UNI		WT		VX		UNI		VX		UNI				
		TiN		TiN		TiN		TiN		TiN		TiN				
		≤ 3xD		≤ 3xD		≤ 3xD		≤ 5xD		≤ 5xD		≤ 10xD				
		DIN 1897		DIN 1897		≈DIN 1897		DIN 338		≈DIN 338		DIN 340				
DC <sub>h8/h6</sub> mm		10 520 ...	£	10 107 ...	£	10 110 ...	£	10 122 ...	£	10 171 ...	£	10 124 ...	£	10 270 ...	£	
0.90																
1.00		010 ①	5.33	4.53	010	5.51	4.68	009 ①	4.59	3.90	010 ①	8.31	7.06	010	8.31	7.06
1.10		011 ①	5.33	4.53	011	5.81	4.94	011 ①	4.59	3.90	011 ①	9.27	7.88	011 ①	9.27	7.88
1.20		012 ①	5.04	4.28	012	5.51	4.68	012 ①	5.20	4.42	012 ①	10.35	8.80	012 ①	10.35	8.80
1.25																
1.30		013 ①	5.33	4.53	013	5.81	4.94	017 ①	4.57	3.88	013 ①	10.29	8.67	013 ①	10.29	8.67
1.40		014 ①	5.20	4.42	014	5.81	4.94	018 ①	4.83	4.11	014 ①	10.08	8.57	014 ①	10.08	8.57
1.45																
1.50		015 ①	4.83	4.11	015	5.51	4.68	019 ①	4.83	4.11	015 ①	4.27	3.63	015 ①	8.77	7.45
1.55																
1.60		016 ①	4.83	4.11	016	5.51	4.68	020 ①	4.83	4.11	016 ①	4.83	3.90	016 ①	10.35	8.80
1.65																
1.70		017 ①	4.57	3.88	017	5.20	4.42	021 ①	4.76	4.00	017 ①	4.73	4.02	017 ①	11.31	9.61
1.80		018 ①	4.83	4.11	018	5.51	4.68	022 ①	4.83	4.11	018 ①	4.59	3.90	018 ①	10.79	9.17
1.90		019 ①	4.83	4.11	019	5.51	4.68	023 ①	4.83	4.11	019 ①	4.73	4.02	019 ①	11.54	9.81
2.00		020 ①	4.24	3.60	020	4.83	4.11	024 ①	4.27	3.63	024 ①	4.41	3.60	020 ①	13.47	11.45
2.10		021 ①	4.57	3.88	021	5.20	4.42	025 ①	4.83	4.11	021 ①	5.20	4.42	021 ①	15.41	13.10
2.20		022 ①	5.04	4.28	022	5.51	4.68	026 ①	4.83	4.11	022 ①	5.20	4.42	022 ①	15.41	13.10
2.30		023 ①	4.88	4.15	023	5.51	4.68	027 ①	4.83	4.11	023 ①	5.20	4.42	023 ①	15.41	13.10
2.38		028 ①	4.88	4.15	028	5.81	4.94	028 ①	4.83	4.11	028 ①	5.20	4.42	028 ①	15.41	13.10
2.40		024 ①	5.04	4.28	024	5.81	4.94	029 ①	4.83	4.11	029 ①	5.33	4.53	029 ①	14.65	12.45
2.50		025 ①	4.57	3.88	025	5.04	4.28	030 ①	4.83	4.11	030 ①	4.83	3.73	030 ①	16.79	14.27
2.55																
2.60		026 ①	5.04	4.28	026	5.81	4.94	026 ①	4.83	4.11	026 ①	5.20	4.42	026 ①	15.41	13.10
2.70		027 ①	5.33	4.53	027	6.13	5.21	027 ①	4.83	4.11	027 ①	5.20	4.42	027 ①	15.41	13.10
2.78		278 ①	5.33	4.53	278	6.13	5.21	278 ①	4.83	4.11	278 ①	5.20	4.42	278 ①	15.41	13.10
2.80		028 ①	5.33	4.53	028	6.13	5.21	028 ①	4.83	4.11	028 ①	5.33	4.53	028 ①	15.41	13.10
2.90		029 ①	5.33	4.53	029	6.13	5.21	029 ①	4.83	4.11	029 ①	5.33	4.53	029 ①	15.41	13.10
3.00		030 ①	4.83	4.11	030	5.20	4.42	030 ①	4.83	4.11	030 ①	4.83	3.73	030 ①	14.65	12.45
3.10		031 ①	5.20	4.42	031	5.99	5.09	031 ①	4.83	4.11	031 ①	5.33	4.53	031 ①	16.79	14.27
3.17		317 ①	5.04	4.28	317	5.67	4.15	317 ①	4.83	4.11	317 ①	5.04	4.28	317 ①	11.31	9.61
3.20		032 ①	4.88	4.15	032	5.67	4.82	032 ①	4.83	4.11	032 ①	4.83	4.11	032 ①	10.48	8.91
3.25																
3.30		033 ①	5.33	4.53	033	6.13	5.21	033 ①	4.83	4.11	033 ①	4.83	4.11	033 ①	16.79	14.27
3.40		034 ①	5.51	4.68	034	6.13	5.21	034 ①	4.83	4.11	034 ①	5.66	4.80	034 ①	16.79	14.27
3.50		035 ①	5.33	4.53	035	5.51	4.68	035 ①	4.83	4.11	035 ①	4.83	4.11	035 ①	16.79	14.27
3.57		357 ①	5.31	4.68	357	6.13	5.21	357 ①	4.83	4.11	357 ①	5.89	4.93	357 ①	11.31	9.61
3.60		036 ①	5.51	4.68	036	6.13	5.21	036 ①	4.83	4.11	036 ①	5.89	4.93	036 ①	16.79	14.27
3.70		037 ①	5.00	4.93	037	6.01	5.64	037 ①	4.83	4.11	037 ①	5.89	4.93	037 ①	16.79	14.27
3.80		038 ①	5.67	4.82	038	6.13	5.21	038 ①	4.83	4.11	038 ①	6.13	5.21	038 ①	16.79	14.27
3.90		039 ①	6.12	5.46	039	6.01	5.64	039 ①	4.83	4.11	039 ①	6.12	5.46	039 ①	16.79	14.27
3.97		397 ①	6.10	5.19	397	6.13	5.21	397 ①	4.83	4.11	397 ①	6.12	5.72	397 ①	12.27	10.43
4.00		040 ①	5.67	4.82	040	5.67	4.82	040 ①	4.83	4.11	040 ①	5.04	4.28	040 ①	18.00	15.89
4.10		041 ①	5.09	5.09	041	6.13	5.21	041 ①	4.83	4.11	041 ①	5.10	5.19	041 ①	21.66	18.41
4.20																

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

T C S		UNI		WT		VX		T C S		UNI		VX		UNI	
NC-A		TiN		TiN		TiN		TiN		TiN		TiN		TiN	
		≤ 3xD		≤ 3xD		≤ 3xD		≤ 5xD		≤ 5xD		≤ 5xD		≤ 10xD	
		DIN 1897		DIN 1897		≈DIN 1897		DIN 338		≈DIN 338		DIN 338		DIN 340	
DC <sub>h8/h6</sub> mm	10 520 ...	£	£	10 107 ...	£	£	10 110 ...	£	£	10 122 ...	£	£	10 171 ...	£	£
7.10	071 1)	19.53	16.60	071 1)	32.34	27.49	071 1)	12.74	10.83	071 1)	40.19	34.16	071 1)	20.42	17.36
7.14	714 1)	19.99	16.99	072 1)	44.46	12.29	072 1)	32.83	27.91	072 1)	40.19	34.16	072 1)	22.38	19.87
7.20	072 1)	19.70	16.75	073 1)	44.62	12.43	073 1)	32.83	27.91	073 1)	40.19	34.16	073 1)	24.44	20.77
7.30	073 1)	19.93	16.86	074 1)	44.62	12.43	074 1)	32.83	27.91	074 1)	40.19	34.16	074 1)	25.33	21.53
7.40	074 1)	19.70	16.75	075 1)	42.36	10.51	075 1)	23.10	19.71	075 1)	40.19	34.16	075 1)	25.77	21.90
7.45	075 1)	42.36	10.51	075 1)	41.16	9.49	075 1)	23.10	19.71	075 1)	40.19	34.16	075 1)	25.77	21.90
7.50	076 1)	18.46	15.69	076 1)	45.87	13.49	076 1)	33.32	28.32	076 1)	44.95	12.71	076 1)	40.13	34.11
7.55	077 1)	22.99	19.47	077 1)	45.87	13.49	077 1)	35.86	30.48	077 1)	44.95	13.08	077 1)	40.13	34.11
7.60	078 1)	22.12	18.80	078 1)	45.87	13.49	078 1)	35.86	30.48	078 1)	44.95	12.71	078 1)	40.13	34.11
7.70	079 1)	24.26	20.62	079 1)	45.87	13.49	079 1)	35.86	30.48	079 1)	44.95	13.08	079 1)	40.13	34.11
7.80	794 1)	12.51	10.63	080 1)	11.94	10.15	080 1)	23.80	20.23	080 1)	12.44	10.55	080 1)	23.56	20.03
7.90	080 1)	15.06	12.80	081 1)	24.89	21.16	081 1)	40.70	34.60	081 1)	14.95	12.71	081 1)	25.07	22.07
7.94	082 1)	25.06	22.07	082 1)	45.87	13.49	082 1)	40.70	34.60	082 1)	16.01	13.61	082 1)	28.32	24.07
8.00	083 1)	27.01	23.72	083 1)	26.68	24.38	084 1)	46.67	14.17	084 1)	40.70	34.60	083 1)	44.95	38.21
8.10	084 1)	27.01	23.72	085 1)	14.19	12.06	085 1)	43.81	11.74	085 1)	27.00	22.95	085 1)	42.26	10.42
8.20	085 1)	17.05	14.49	086 1)	19.62	16.68	087 1)	47.15	14.58	087 1)	42.28	35.94	086 1)	41.82	35.55
8.30	087 1)	22.48	19.11	088 1)	18.46	15.69	088 1)	42.28	35.94	088 1)	19.08	16.22	088 1)	28.19	23.96
8.40	089 1)	24.27	20.63	089 1)	24.27	20.63	090 1)	44.01	11.91	090 1)	29.46	25.04	090 1)	23.55	20.02
8.50	090 1)	14.95	12.71	090 1)	20.45	17.38	091 1)	53.01	45.06	091 1)	15.44	13.10	090 1)	44.95	35.55
8.60	091 1)	20.45	17.38	092 1)	20.59	17.50	092 1)	22.44	19.07	092 1)	53.01	45.06	092 1)	44.95	38.21
8.70	092 1)	20.59	17.50	093 1)	36.31	30.86	093 1)	22.44	19.07	093 1)	53.01	45.06	093 1)	44.95	38.21
8.73	093 1)	36.31	30.86	094 1)	23.88	20.30	094 1)	22.44	19.07	094 1)	53.01	45.06	094 1)	44.95	38.21
8.80	094 1)	16.04	13.61	095 1)	48.24	15.50	095 1)	36.82	31.30	095 1)	18.17	15.44	095 1)	44.95	38.21
8.90	096 1)	24.07	21.22	096 1)	22.70	19.37	096 1)	39.72	33.76	096 1)	26.08	22.17	096 1)	30.77	26.15
9.00	097 1)	24.27	20.63	097 1)	22.70	19.37	097 1)	39.72	33.76	097 1)	30.64	26.04	097 1)	32.27	27.43
9.10	098 1)	37.99	31.78	098 1)	24.38	20.72	098 1)	39.72	33.76	098 1)	26.08	22.17	098 1)	34.47	29.30
9.20	099 1)	25.94	22.05	099 1)	24.38	20.72	099 1)	39.72	33.76	099 1)	24.01	20.41	099 1)	37.46	31.84
9.35	100 1)	15.74	13.38	100 1)	18.62	15.83	100 1)	17.15	14.58	100 1)	35.11	30.10	100 1)	49.02	41.67
9.40	101 1)	24.07	21.22	101 1)	24.07	21.22	102 1)	24.20	20.57	102 1)	52.10	44.54	101 1)	61.50	52.35
9.50	102 1)	29.59	25.15	102 1)	24.20	20.57	103 1)	53.32	45.32	103 1)	20.69	17.50	102 1)	62.15	52.83
9.55	103 1)	23.19	19.71	104 1)	27.15	23.08	105 1)	23.07	19.61	105 1)	50.91	43.27	103 1)	62.15	52.83
9.60	104 1)	32.05	27.24	105 1)	23.07	19.61	105 1)	50.91	43.27	105 1)	25.63	21.79	104 1)	62.15	52.83
9.70	105 1)	42.42	36.06	106 1)	42.28	35.94	107 1)	55.61	47.29	106 1)	28.27	15.53	105 1)	60.57	34.43
9.80	107 1)	45.03	39.04	108 1)	45.03	39.04	108 1)	53.49	45.47	107 1)	23.58	20.04	106 1)	62.15	52.83
9.90	109 1)	45.03	39.04	110 1)	34.17	29.04	110 1)	50.91	43.27	109 1)	24.71	21.00	107 1)	67.26	40.17
10.00	110 1)	34.17	29.04	111 1)	40.28	34.24	112 1)	50.91	43.27	111 1)	20.69	17.50	108 1)	62.15	52.83
10.10	111 1)	40.28	34.24	113 1)	38.77	32.95	114 1)	44.05	20.44	113 1)	53.01	45.06	112 1)	61.50	52.35
10.20	114 1)	38.77	32.95	115 1)	24.05	20.44	116 1)	53.01	45.06	114 1)	35.86	30.48	113 1)	61.50	52.35
10.30	115 1)	38.77	32.95	116 1)	24.05	20.44	117 1)	50.00	50.66	115 1)	24.01	20.41	114 1)	61.50	52.35
10.40	117 1)	45.03	39.04	118 1)	28.84	24.51	119 1)	62.29	52.90	116 1)	32.18	27.35	117 1)	67.91	57.72
10.50	118 1)	45													



# SOLID CARBIDE DRILLING



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



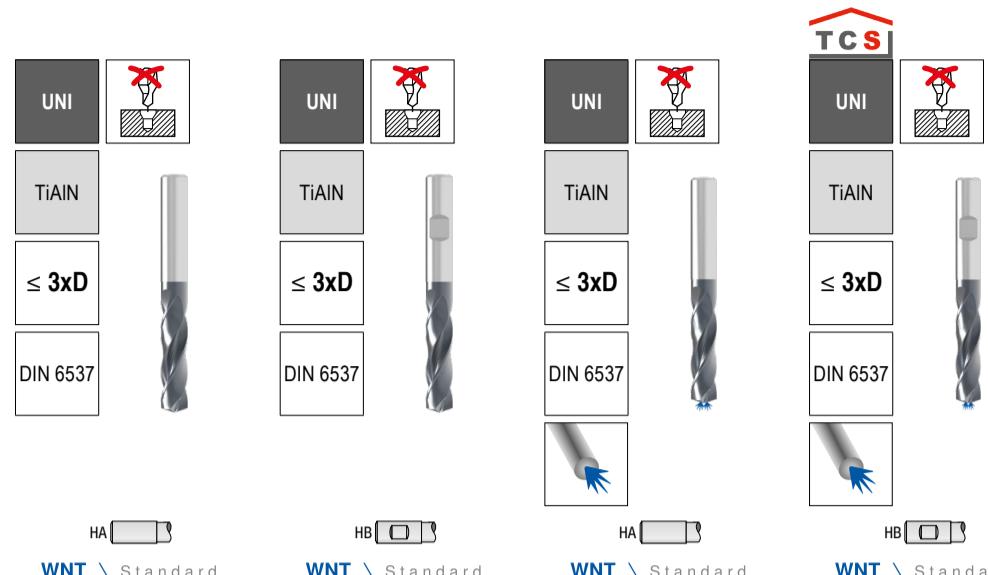
TB – for all materials and applications from 16xD up to 50xD.



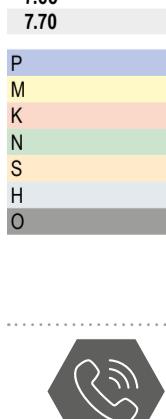
WTX Change – good solution for lathes with mis-alignment and lower powered machines. Cost effective solution in larger diameters above Ø 20 mm in 0.1 mm increments.

## High Performance Drill, DIN 6537

## Nett Prices



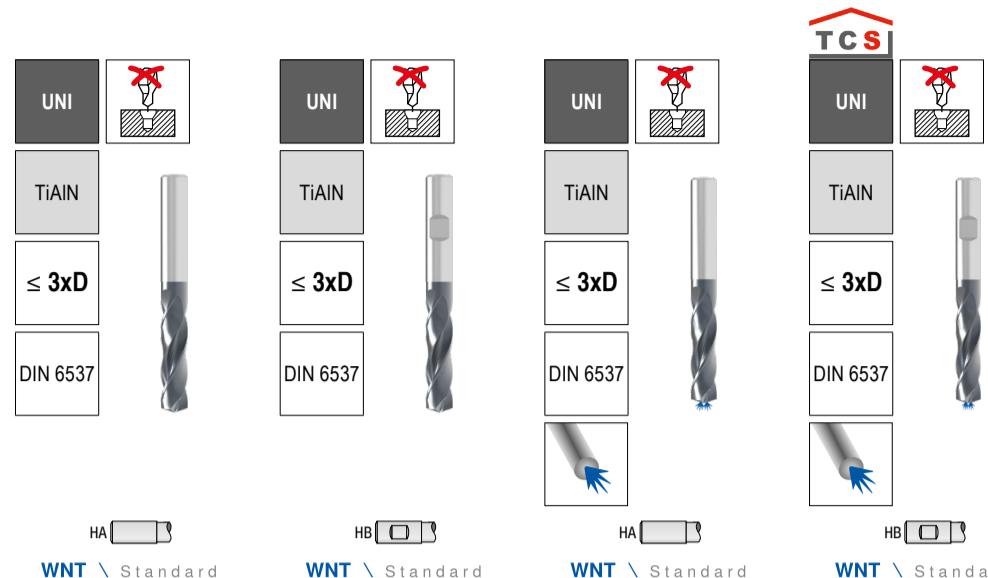
DC <sub>h7</sub> mm	11 706 ...		11 707 ...		11 700 ...		11 701 ...	
	WNT	Standard	WNT	Standard	WNT	Standard	WNT	Standard
1.00	01000	24.15	24.15	01000	27.30	27.30	01000	27.30
1.10	01100	24.15	24.15	01100	27.30	27.30	01100	27.30
1.20	01200	24.15	24.15	01200	27.30	27.30	01200	27.30
1.30	01300	24.15	24.15	01300	27.30	27.30	01300	27.30
1.40	01400	24.15	24.15	01400	27.30	27.30	01400	27.30
1.50	01500	24.15	24.15	01500	27.30	27.30	01500	27.30
1.60	01600	24.15	24.15	01600	27.30	27.30	01600	27.30
1.70	01700	24.15	24.15	01700	27.30	27.30	01700	27.30
1.80	01800	24.15	24.15	01800	27.30	27.30	01800	27.30
1.90	01900	24.15	24.15	01900	27.30	27.30	01900	27.30
2.00	02000	22.05	22.05	02000	27.30	27.30	02000	27.30
2.10	02100	22.05	22.05	02100	27.30	27.30	02100	27.30
2.20	02200	22.05	22.05	02200	27.30	27.30	02200	27.30
2.30	02300	22.05	22.05	02300	27.30	27.30	02300	27.30
2.40	02400	22.05	22.05	02400	27.30	27.30	02400	27.30
2.50	02500	22.05	22.05	02500	27.30	27.30	02500	27.30
2.60	02600	22.05	22.05	02600	27.30	27.30	02600	27.30
2.70	02700	22.05	22.05	02700	27.30	27.30	02700	27.30
2.80	02800	22.05	22.05	02800	27.30	27.30	02800	27.30
2.90	02900	22.05	22.05	02900	27.30	27.30	02900	27.30
3.00	03000	21.00	21.00	03000	21.00	21.00	03000	23.10
3.10	03100	21.00	21.00	03100	21.00	21.00	03100	23.10
3.20	03200	21.00	21.00	03200	21.00	21.00	03200	23.10
3.25	03250	21.00	21.00	03250	21.00	21.00	03250	23.10
3.30	03300	21.00	21.00	03300	21.00	21.00	03300	23.10
3.40	03400	21.00	21.00	03400	21.00	21.00	03400	23.10
3.50	03500	21.00	21.00	03500	21.00	21.00	03500	23.10
3.60	03600	21.00	21.00	03600	21.00	21.00	03600	23.10
3.70	03700	21.00	21.00	03700	21.00	21.00	03700	23.10
3.80	03800	21.00	21.00	03800	21.00	21.00	03800	23.10
3.90	03900	21.00	21.00	03900	21.00	21.00	03900	23.10
4.00	04000	21.00	21.00	04000	21.00	21.00	04000	23.10
4.10	04100	21.00	21.00	04100	21.00	21.00	04100	23.10
4.20	04200	21.00	21.00	04200	21.00	21.00	04200	23.10
4.30	04300	21.00	21.00	04300	21.00	21.00	04300	23.10
4.40	04400	21.00	21.00	04400	21.00	21.00	04400	23.10
4.50	04500	21.00	21.00	04500	21.00	21.00	04500	23.10
4.60	04600	21.00	21.00	04600	21.00	21.00	04600	23.10
4.65	04650	21.00	21.00	04650	21.00	21.00	04650	23.10
4.70	04700	21.00	21.00	04700	21.00	21.00	04700	23.10
4.80	04800	21.00	21.00	04800	21.00	21.00	04800	23.10
4.90	04900	21.00	21.00	04900	21.00	21.00	04900	23.10
5.00	05000	21.00	21.00	05000	21.00	21.00	05000	23.10
5.10	05100	21.00	21.00	05100	21.00	21.00	05100	23.10
5.20	05200	21.00	21.00	05200	21.00	21.00	05200	23.10
5.30	05300	21.00	21.00	05300	21.00	21.00	05300	23.10
5.40	05400	21.00	21.00	05400	21.00	21.00	05400	23.10
5.50	05500	21.00	21.00	05500	21.00	21.00	05500	23.10
5.55	05550	21.00	21.00	05550	21.00	21.00	05550	23.10
5.60	05600	21.00	21.00	05600	21.00	21.00	05600	23.10
5.65	05650	21.00	21.00	05650	21.00	21.00	05650	23.10
5.70	05700	21.00	21.00	05700	21.00	21.00	05700	23.10
5.80	05800	21.00	21.00	05800	21.00	21.00	05800	23.10
5.90	05900	21.00	21.00	05900	21.00	21.00	05900	23.10
6.00	06000	21.00	21.00	06000	21.00	21.00	06000	23.10
6.10	06100	21.00	21.00	06100	21.00	21.00	06100	23.10
6.20	06200	21.00	21.00	06200	21.00	21.00	06200	23.10
6.30	06300	21.00	21.00	06300	21.00	21.00	06300	23.10
6.40	06400	21.00	21.00	06400	21.00	21.00	06400	23.10
6.50	06500	21.00	21.00	06500	21.00	21.00	06500	23.10
6.60	06600	21.00	21.00	06600	21.00	21.00	06600	23.10
6.70	06700	21.00	21.00	06700	21.00	21.00	06700	23.10
6.80	06800	21.00	21.00	06800	21.00	21.00	06800	23.10
6.90	06900	21.00	21.00	06900	21.00	21.00	06900	23.10
7.00	07000	21.00	21.00	07000	21.00	21.00	07000	23.10
7.10	07100	21.00	21.00	07100	21.00	21.00	07100	23.10
7.20	07200	21.00	21.00	07200	21.00	21.00	07200	23.10
7.30	07300	21.00	21.00	07300	21.00	21.00	07300	23.10
7.40	07400	21.00	21.00	07400	21.00	21.00	07400	23.10
7.50	07500	21.00	21.00	07500	21.00	21.00	07500	23.10
7.55	07550	21.00	21.00	07550	21.00	21.00	07550	23.10
7.60	07600	21.00	21.00	07600	21.00	21.00	07600	23.10
7.65	07650	21.00	21.00	07650	21.00	21.00	07650	23.10
7.70	07700	21.00	21.00	07700	21.00	21.00	07700	23.10



Technical support: 0800 073 2 075  
3 time served engineers,  
available from 8:00

## High Performance Drill, DIN 6537

## Nett Prices

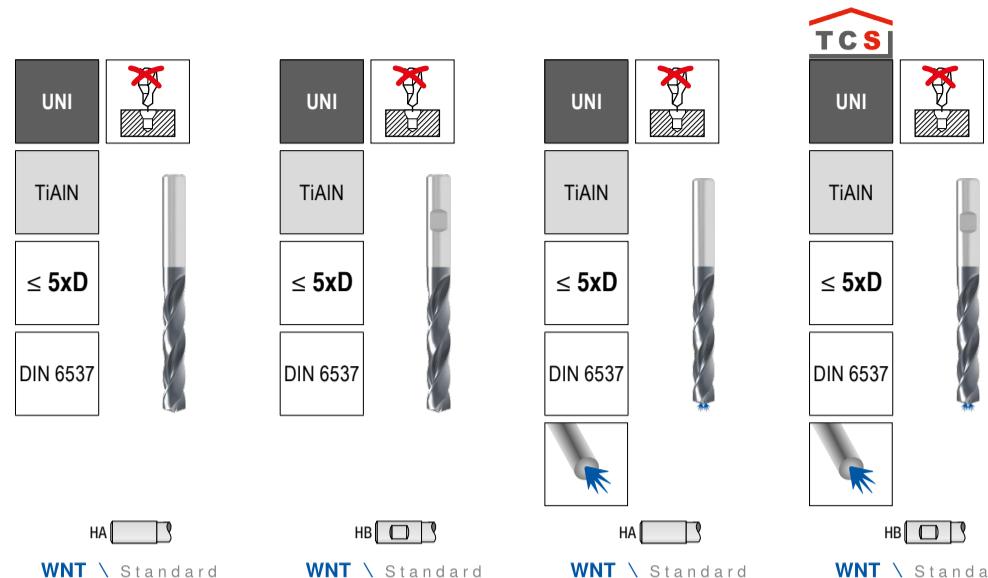


WNT \ Standard WNT \ Standard WNT \ Standard WNT \ Standard

DC <sub>h7</sub> mm	11 706 ...		11 707 ...		11 700 ...		11 701 ...		
	£	£	£	£	£	£	£	£	
7.8	07800	21.00	21.00	07800	21.00	21.00	07800	22.55	32.55
7.9	07900	21.00	21.00	07900	21.00	21.00	07900	22.55	32.55
8.0	08000	21.00	21.00	08000	21.00	21.00	08000	22.55	32.55
8.1	08100	24.15	24.15	08100	24.15	24.15	08100	26.75	36.75
8.2	08200	24.15	24.15	08200	24.15	24.15	08200	26.75	36.75
8.3	08300	24.15	24.15	08300	24.15	24.15	08300	26.75	36.75
8.4	08400	24.15	24.15	08400	24.15	24.15	08400	26.75	36.75
8.5	08500	24.15	24.15	08500	24.15	24.15	08500	26.75	36.75
8.6	08600	24.15	24.15	08600	24.15	24.15	08600	26.75	36.75
8.7	08700	24.15	24.15	08700	24.15	24.15	08700	26.75	36.75
8.8	08800	24.15	24.15	08800	24.15	24.15	08800	26.75	36.75
8.9	08900	24.15	24.15	08900	24.15	24.15	08900	26.75	36.75
9.0	09000	24.15	24.15	09000	24.15	24.15	09000	26.75	36.75
9.1	09100	24.15	24.15	09100	24.15	24.15	09100	26.75	36.75
9.2	09200	24.15	24.15	09200	24.15	24.15	09200	26.75	36.75
9.3	09300	24.15	24.15	09300	24.15	24.15	09300	26.75	36.75
9.4	09400	24.15	24.15	09400	24.15	24.15	09400	26.75	36.75
9.5	09500	24.15	24.15	09500	24.15	24.15	09500	26.75	36.75
9.6	09600	24.15	24.15	09600	24.15	24.15	09600	26.75	36.75
9.7	09700	24.15	24.15	09700	24.15	24.15	09700	26.75	36.75
9.8	09800	24.15	24.15	09800	24.15	24.15	09800	26.75	36.75
9.9	09900	24.15	24.15	09900	24.15	24.15	09900	26.75	36.75
10.0	10000	24.15	24.15	10000	24.15	24.15	10000	26.75	36.75
10.1	10100	36.75	36.75	10100	36.75	36.75	10100	52.50	52.50
10.2	10200	36.75	36.75	10200	36.75	36.75	10200	52.50	52.50
10.3	10300	36.75	36.75	10300	36.75	36.75	10300	52.50	52.50
10.4	10400	36.75	36.75	10400	36.75	36.75	10400	52.50	52.50
10.5	10500	36.75	36.75	10500	36.75	36.75	10500	52.50	52.50
10.6	10600	36.75	36.75	10600	36.75	36.75	10600	52.50	52.50
10.7	10700	36.75	36.75	10700	36.75	36.75	10700	52.50	52.50
10.8	10800	36.75	36.75	10800	36.75	36.75	10800	52.50	52.50
10.9	10900	36.75	36.75	10900	36.75	36.75	10900	52.50	52.50
11.0	11000	36.75	36.75	11000	36.75	36.75	11000	52.50	52.50
11.1	11100	36.75	36.75	11100	36.75	36.75	11100	52.50	52.50
11.2	11200	36.75	36.75	11200	36.75	36.75	11200	52.50	52.50
11.3	11300	36.75	36.75	11300	36.75	36.75	11300	52.50	52.50
11.4	11400	36.75	36.75	11400	36.75	36.75	11400	52.50	52.50
11.5	11500	36.75	36.75	11500	36.75	36.75	11500	52.50	52.50
11.6	11600	36.75	36.75	11600	36.75	36.75	11600	52.50	52.50
11.7	11700	36.75	36.75	11700	36.75	36.75	11700	52.50	52.50
11.8	11800	36.75	36.75	11800	36.75	36.75	11800	52.50	52.50
11.9	11900	36.75	36.75	11900	36.75	36.75	11900	52.50	52.50
12.0	12000	36.75	36.75	12000	36.75	36.75	12000	52.50	52.50
12.2	12200	49.35	49.35	12200	49.35	49.35	12200	70.35	70.35
12.3							12300	70.35	70.35
12.5	12500	49.35	49.35	12500	49.35	49.35	12500	70.35	70.35
12.7							12700	70.35	70.35
12.8	12800	49.35	49.35	12800	49.35	49.35	12800	70.35	70.35
12.9							12900	70.35	70.35
13.0	13000	49.35	49.35	13000	49.35	49.35	13000	70.35	70.35
13.1	13100	49.35	49.35	13100	49.35	49.35			
13.5	13500	49.35	49.35	13500	49.35	49.35	13500	70.35	70.35
13.8	13800	49.35	49.35	13800	49.35	49.35	13800	70.35	70.35
14.0	14000	49.35	49.35	14000	49.35	49.35	14000	70.35	70.35
14.2	14200	63.00	63.00	14200	63.00	63.00	14200	91.35	91.35
14.4	14400	63.00	63.00	14400	63.00	63.00	14400	91.35	91.35
14.5	14500	63.00	63.00	14500	63.00	63.00	14500	91.35	91.35
14.8	14800	63.00	63.00	14800	63.00	63.00	14800	91.35	91.35
15.0	15000	63.00	63.00	15000	63.00	63.00	15000	91.35	91.35
15.1	15100	63.00	63.00	15100	63.00	63.00	15100	91.35	91.35
15.2	15200	63.00	63.00	15200	63.00	63.00	15200	91.35	91.35
15.5	15500	63.00	63.00	15500	63.00	63.00	15500	91.35	91.35
15.8	15800	63.00	63.00	15800	63.00	63.00	15800	91.35	91.35
16.0	16000	63.00	63.00	16000	63.00	63.00	16000	91.35	91.35
16.5	16500	108.15	108.15	16500	108.15	108.15	16500	137.55	137.55
17.0	17000	108.15	108.15	17000	108.15	108.15	17000	137.55	137.55
17.5	17500	108.15	108.15	17500	108.15	108.15	17500	137.55	137.55
18.0	18000	108.15	108.15	18000	108.15	108.15	18000	137.55	137.55
18.5	18500	118.65	118.65	18500	1				

## High Performance Drill, DIN 6537

## Nett Prices

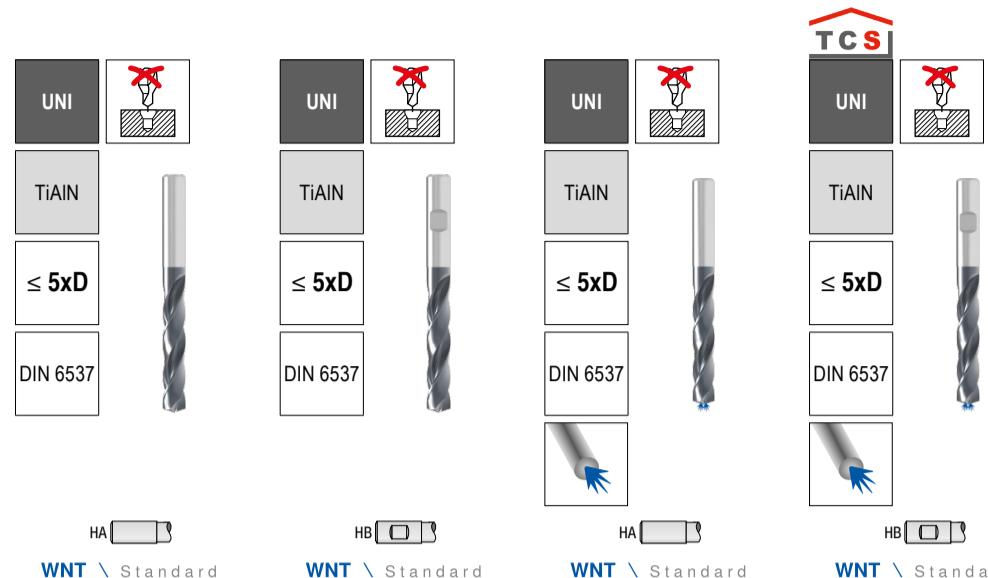


WNT \ Standard WNT \ Standard WNT \ Standard WNT \ Standard

DC <sub>h7</sub> mm	11 710 ...		11 709 ...		11 702 ...		11 703 ...			
	£	£	£	£	£	£	£	£		
1.00					01000	31.50	31.50	03000	31.50	
1.10					01100	31.50	31.50	03100	31.50	
1.20					01200	31.50	31.50	03200	31.50	
1.30					01300	31.50	31.50	03250	31.50	
1.40					01400	31.50	31.50	03300	31.50	
1.50					01500	31.50	31.50	03400	31.50	
1.60					01600	31.50	31.50	03500	31.50	
1.70					01700	31.50	31.50	03600	31.50	
1.80					01800	31.50	31.50	03700	31.50	
1.90					01900	31.50	31.50	03800	31.50	
2.00					02000	31.50	31.50	03850	31.50	
2.10					02100	31.50	31.50	03900	31.50	
2.20					02200	31.50	31.50	04000	31.50	
2.30					02300	31.50	31.50	04100	31.50	
2.40					02400	31.50	31.50	04200	31.50	
2.50					02500	31.50	31.50	04300	31.50	
2.60					02600	31.50	31.50	04400	31.50	
2.70					02700	31.50	31.50	04500	31.50	
2.80					02800	31.50	31.50	04600	31.50	
2.90					02900	31.50	31.50	04700	31.50	
3.00	26.25	26.25	03000	26.25	26.25	03000	31.50	31.50	03000	31.50
3.10	26.25	26.25	03100	26.25	26.25	03100	31.50	31.50	03100	31.50
3.20	26.25	26.25	03200	26.25	26.25	03200	31.50	31.50	03200	31.50
3.25	26.25	26.25	03250	26.25	26.25	03250	31.50	31.50	03250	31.50
3.30	26.25	26.25	03300	26.25	26.25	03300	31.50	31.50	03300	31.50
3.40	26.25	26.25	03400	26.25	26.25	03400	31.50	31.50	03400	31.50
3.50	26.25	26.25	03500	26.25	26.25	03500	31.50	31.50	03500	31.50
3.60	26.25	26.25	03600	26.25	26.25	03600	31.50	31.50	03600	31.50
3.70	26.25	26.25	03700	26.25	26.25	03700	31.50	31.50	03700	31.50
3.80	26.25	26.25	03800	26.25	26.25	03800	31.50	31.50	03800	31.50
3.85			03900	26.25	26.25	03900	31.50	31.50	03900	31.50
3.90			04000	26.25	26.25	04000	31.50	31.50	04000	31.50
4.00			04100	26.25	26.25	04100	31.50	31.50	04100	31.50
4.10			04200	26.25	26.25	04200	31.50	31.50	04200	31.50
4.20			04300	26.25	26.25	04300	31.50	31.50	04300	31.50
4.30			04400	26.25	26.25	04400	31.50	31.50	04400	31.50
4.40			04500	26.25	26.25	04500	31.50	31.50	04500	31.50
4.50			04600	26.25	26.25	04600	31.50	31.50	04600	31.50
4.60			04650	26.25	26.25	04650	31.50	31.50	04650	31.50
4.65			04700	26.25	26.25	04700	31.50	31.50	04700	31.50
4.70			04800	26.25	26.25	04800	31.50	31.50	04800	31.50
4.80			04900	26.25	26.25	04900	31.50	31.50	04900	31.50
4.90			05000	26.25	26.25	05000	31.50	31.50	05000	31.50
5.00			05100	26.25	26.25	05100	31.50	31.50	05100	31.50
5.10			05200	26.25	26.25	05200	31.50	31.50	05200	31.50
5.20			05300	26.25	26.25	05300	31.50	31.50	05300	31.50
5.30			05400	26.25	26.25	05400	31.50	31.50	05400	31.50
5.40			05500	26.25	26.25	05500	31.50	31.50	05500	31.50
5.50			05550	26.25	26.25	05550	31.50	31.50	05550	31.50
5.55			05600	26.25	26.25	05600	31.50	31.50	05600	31.50
5.60			05650	26.25	26.25	05650	31.50	31.50	05650	31.50
5.65			05700	26.25	26.25	05700	31.50	31.50	05700	31.50
5.70			05800	26.25	26.25	05800	31.50	31.50	05800	31.50
5.80			05900	26.25	26.25	05900	31.50	31.50	05900	31.50
5.90			06000	26.25	26.25	06000	31.50	31.50	06000	31.50
6.00			06100	26.25	26.25	06100	31.50	31.50	06100	31.50
6.10			06200	26.25	26.25	06200	31.50	31.50	06200	31.50
6.20			06300	26.25	26.25	06300	31.50	31.50	06300	31.50
6.30			06400	26.25	26.25	06400	31.50	31.50	06400	31.50
6.40			06500	26.25	26.25	06500	31.50	31.50	06500	31.50
6.50			06600	26.25	26.25	06600	31.50	31.50	06600	31.50
6.60			06700	26.25	26.25	06700	31.50	31.50	06700	31.50
6.70			06800	26.25	26.25	06800	31.50	31.50	06800	31.50
6.80			06900	26.25	26.25	06900	31.50	31.50	06900	31.50
6.90			07000	26.25	26.25	07000	31.50	31.50	07000	31.50
7.00			07100	26.25	26.25	07100	31.50	31.50	07100	31.50
7.10			07200	26.25	26.25	07200	31.50	31.50	07200	31.50
7.20			07300	26.25	26.25	07300	31.50	31.50	07300	31.50
7.30			07400	26.25	26.25	07400	31.50	31.50	07400	31.50
7.40			07500	26.25	26.25	07500	31.50	31.50	07500	31.50
7.50			07550	26.25	26.25	07550	31.50	31.50	07550	31.50
7.60			07600	26.25	26.25	07600	31.50	31.50	07600	31.5

## High Performance Drill, DIN 6537

## Nett Prices



DC <sub>h7</sub> mm	11 710 ...		11 709 ...		11 702 ...		11 703 ...	
	£	£	£	£	£	£	£	£
8.40	28.35	28.35	08400	28.35	28.35	08400	40.95	40.95
8.50	28.35	28.35	08500	28.35	28.35	08500	40.95	40.95
8.60	28.35	28.35	08600	28.35	28.35	08600	40.95	40.95
8.70	28.35	28.35	08700	28.35	28.35	08700	40.95	40.95
8.80	28.35	28.35	08800	28.35	28.35	08800	40.95	40.95
8.90	28.35	28.35	08900	28.35	28.35	08900	40.95	40.95
9.00	28.35	28.35	09000	28.35	28.35	09000	40.95	40.95
9.10	28.35	28.35	09100	28.35	28.35	09100	40.95	40.95
9.20	28.35	28.35	09200	28.35	28.35	09200	40.95	40.95
9.30	28.35	28.35	09300	28.35	28.35	09300	40.95	40.95
9.40	28.35	28.35	09400	28.35	28.35	09400	40.95	40.95
9.50	28.35	28.35	09500	28.35	28.35	09500	40.95	40.95
9.55						09550	40.95	40.95
9.60	28.35	28.35	09600	28.35	28.35	09600	40.95	40.95
9.70	28.35	28.35	09700	28.35	28.35	09700	40.95	40.95
9.80	28.35	28.35	09800	28.35	28.35	09800	40.95	40.95
9.90	28.35	28.35	09900	28.35	28.35	09900	40.95	40.95
10.00			10000	28.35	28.35	10000	40.95	40.95
10.10	43.05	43.05	10100	43.05	43.05	10100	60.90	60.90
10.20	43.05	43.05	10200	43.05	43.05	10200	60.90	60.90
10.30	43.05	43.05	10300	43.05	43.05	10300	60.90	60.90
10.40	43.05	43.05	10400	43.05	43.05	10400	60.90	60.90
10.50	43.05	43.05	10500	43.05	43.05	10500	60.90	60.90
10.60	43.05	43.05	10600	43.05	43.05	10600	60.90	60.90
10.70	43.05	43.05	10700	43.05	43.05	10700	60.90	60.90
10.80	43.05	43.05	10800	43.05	43.05	10800	60.90	60.90
10.90	43.05	43.05	10900	43.05	43.05	10900	60.90	60.90
11.00	43.05	43.05	11000	43.05	43.05	11000	60.90	60.90
11.10	43.05	43.05	11100	43.05	43.05	11100	60.90	60.90
11.20	43.05	43.05	11200	43.05	43.05	11200	60.90	60.90
11.30	43.05	43.05	11300	43.05	43.05	11300	60.90	60.90
11.40	43.05	43.05	11400	43.05	43.05	11400	60.90	60.90
11.50	43.05	43.05	11500	43.05	43.05	11500	60.90	60.90
11.60	43.05	43.05	11600	43.05	43.05	11600	60.90	60.90
11.70	43.05	43.05	11700	43.05	43.05	11700	60.90	60.90
11.80	43.05	43.05	11800	43.05	43.05	11800	60.90	60.90
11.90	43.05	43.05	11900	43.05	43.05	11900	60.90	60.90
12.00	43.05	43.05	12000	43.05	43.05	12000	60.90	60.90
12.10	56.70	56.70	12100	56.70	56.70	12100	77.70	77.70
12.20	56.70	56.70	12200	56.70	56.70	12200	77.70	77.70
12.40						12400	77.70	77.70
12.50			12500	56.70	56.70	12500	77.70	77.70
12.60						12600	77.70	77.70
12.80			12800	56.70	56.70	12800	77.70	77.70
13.00			13000	56.70	56.70	13000	77.70	77.70
13.10						13100	77.70	77.70
13.20			13200	56.70	56.70	13200	77.70	77.70
13.30						13300	77.70	77.70
13.50			13500	56.70	56.70	13500	77.70	77.70
13.80			13800	56.70	56.70	13800	77.70	77.70
14.00			14000	56.70	56.70	14000	77.70	77.70
14.20			14200	73.50	73.50	14200	99.75	99.75
14.30						14300	99.75	99.75
14.40			14400	73.50	73.50	14400	99.75	99.75
14.50			14500	73.50	73.50	14500	99.75	99.75
14.80			14800	73.50	73.50	14800	99.75	99.75
15.00			15000	73.50	73.50	15000	99.75	99.75
15.10						15100	99.75	99.75
15.20			15200	73.50	73.50	15200	99.75	99.75
15.25						15250	99.75	99.75
15.30						15300	99.75	99.75
15.50			15500	73.50	73.50	15500	99.75	99.75
15.80			15800	73.50	73.50	15800	99.75	99.75
16.00			16000	73.50	73.50	16000	99.75	99.75
16.20						16200	153.30	153.30
16.30						16300	153.30	153.30
16.50			16500	119.70	119.70	16500	153.30	153.30
16.80						16800	153.30	153.30
17.00			17000	119.70	119.70	17000	153.30	153.30
17.30						17300	153.30	153.30
17.50			17500	119.70	119.70	17500	153.30	153.30
18.00			18000	119.70	119.70	18000	166.95	166.95
18.50			18500	128.10	128.10	18500	166.95	166.95
18.90			18900	128.10	128.10	18900	166.95	166.95
19.00			19000	128.10	128.10	19000	166.95	166.95
19.20						19200	166.95	166.95
19.30						19300	166.95	166.95
19.50			19500	128.10	128.10	19500	166.95	166.95
19.70						19700	166.95	166.95
20.00			20000	128.10	128.10	20000	166.95	166.95

P  
M  
K  
N  
S  
H  
O

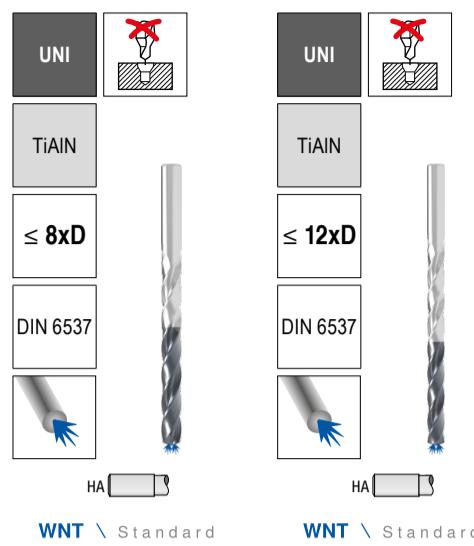
Customer Service Centre

Freephone: 0800 073 2 073 / Freifax: 0800 073 2 074



Ordering via the

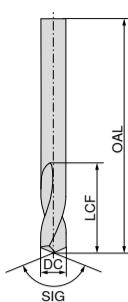
## High Performance Drill, factory standard



## Nett Prices

DC $h_7$ mm	11 704 ...		11 705 ...	
	£	£	£	£
3.0	61.95	61.95	62.95	82.95
3.1	61.95	61.95	62.95	82.95
3.2	61.95	61.95	62.95	82.95
3.3	61.95	61.95	62.95	82.95
3.4	61.95	61.95	62.95	82.95
3.5	61.95	61.95	62.95	82.95
3.6	61.95	61.95	62.95	82.95
3.7	61.95	61.95	62.95	82.95
3.8	61.95	61.95	62.95	82.95
3.9	61.95	61.95	62.95	82.95
4.0	61.95	61.95	62.95	82.95
4.1	61.95	61.95	62.95	82.95
4.2	61.95	61.95	62.95	82.95
4.3	61.95	61.95	62.95	82.95
4.4	61.95	61.95	62.95	82.95
4.5	61.95	61.95	62.95	82.95
4.6	61.95	61.95	62.95	82.95
4.7	61.95	61.95	62.95	82.95
4.8	61.95	61.95	62.95	82.95
4.9	61.95	61.95	62.95	82.95
5.0	61.95	61.95	62.95	82.95
5.1	61.95	61.95	62.95	82.95
5.2	61.95	61.95	62.95	82.95
5.3	61.95	61.95	62.95	82.95
5.4	61.95	61.95	62.95	82.95
5.5	61.95	61.95	62.95	82.95
5.6	61.95	61.95	62.95	82.95
5.7	61.95	61.95	62.95	82.95
5.8	61.95	61.95	62.95	82.95
5.9	61.95	61.95	62.95	82.95
6.0	61.95	61.95	62.95	82.95
6.1	76.65	76.65	61.00	92.40
6.2	76.65	76.65	62.00	92.40
6.3	76.65	76.65	63.00	92.40
6.4	76.65	76.65	64.00	92.40
6.5	76.65	76.65	65.00	92.40
6.6	76.65	76.65	66.00	92.40
6.7	76.65	76.65	67.00	92.40
6.8	76.65	76.65	68.00	92.40
6.9	76.65	76.65	69.00	92.40
7.0	76.65	76.65	70.00	92.40
7.1	76.65	76.65	71.00	92.40
7.2	76.65	76.65	72.00	92.40
7.3	76.65	76.65	73.00	92.40
7.4	76.65	76.65	74.00	92.40
7.5	76.65	76.65	75.00	92.40
7.6	76.65	76.65	76.00	92.40
7.7	76.65	76.65	77.00	92.40
7.8	76.65	76.65	78.00	92.40
7.9	76.65	76.65	79.00	92.40
8.0	76.65	76.65	80.00	92.40
8.1	93.45	93.45	81.00	129.15
8.2	93.45	93.45	82.00	129.15
8.3	93.45	93.45	83.00	129.15
8.4	93.45	93.45	84.00	129.15
8.5	93.45	93.45	85.00	129.15
8.6	93.45	93.45	86.00	129.15
8.7	93.45	93.45	87.00	129.15
8.8	93.45	93.45	88.00	129.15
8.9	93.45	93.45	89.00	129.15
9.0	93.45	93.45	90.00	129.15
9.1	93.45	93.45	91.00	129.15
9.2	93.45	93.45	92.00	129.15
9.3	93.45	93.45	93.00	129.15
9.4	93.45	93.45	94.00	129.15
9.5	93.45	93.45	95.00	129.15
9.6	93.45	93.45	96.00	129.15
9.7	93.45	93.45	97.00	129.15
9.8	93.45	93.45	98.00	129.15
9.9	93.45	93.45	99.00	129.15
10.0	93.45	93.45	10.000	129.15
10.2	121.95	124.95	102.00	178.50
10.5	124.95	124.95	105.00	178.50
10.8	124.95	124.95	108.00	178.50
11.0	124.95	124.95	11.000	178.50
11.5	124.95	124.95	115.00	178.50
11.8	124.95	124.95	118.00	178.50
12.0	124.95	124.95	12.000	178.50
12.2	186.90	186.90	122.00	178.50
12.5	186.90	186.90	125.00	229.95
12.7			127.00	229.95
12.8			128.00	229.95
13.0	186.90	186.90	13.000	229.95
13.5	186.90	186.90	135.00	229.95
13.8			138.00	229.95
14.0	186.90	186.90	14.000	229.95
14.5	244.65	244.65	145.00	303.45
14.8			148.00	303.45
15.0	244.65	244.65	15.000	303.45
15.5	244.65	244.65	155.00	303.45
15.8			158.00	303.45
16.0	244.65	244.65	16.000	303.45
16.5	316.05	316.05	165.00	362.25
17.0	316.05	316.05	17.000	362.25
17.5	316.05	316.05	175.00	362.25
18.0	316.05	316.05	18.000	362.25
18.5	351.75	351.75	185.00	362.25
19.0	351.75	351.75	19.000	362.25
19.5	351.75	351.75	195.00	362.25
20.0	351.75	351.75	20.000	362.25

## NC Spot Drill, factory standard



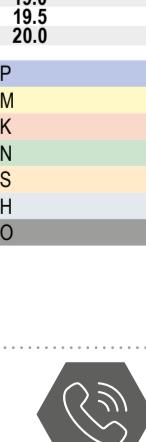
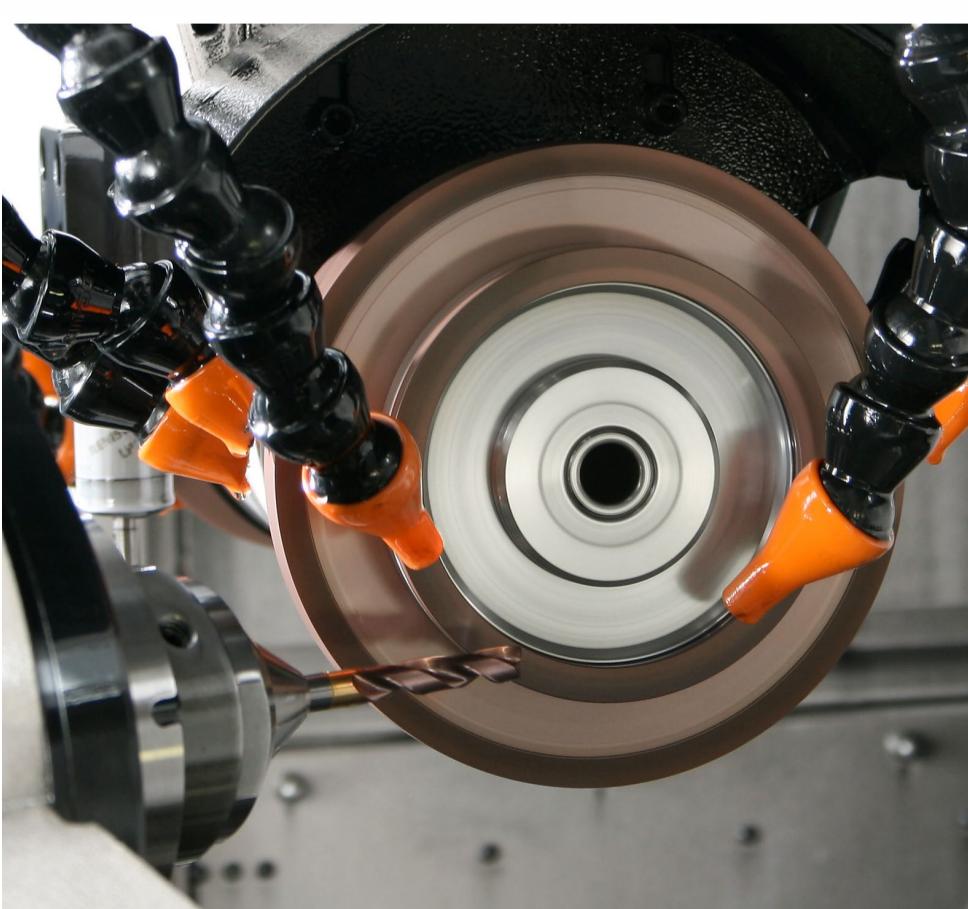
NC-A



10 704 ...	£	£
002	24.26	16.98
003	24.26	16.98
004	49.02	13.31
005	21.85	15.30
006	24.38	17.07
008	37.46	26.22
010	52.54	36.78
012	75.70	53.05
014	87.13	60.99
016	127.18	89.03
018	246.66	172.66
020	207.07	144.95

## New for old

## Regrind instead of buying new



Technical support: 0800 073 2 075  
3 time served engineers,  
available from 8:00 am to 6:00 pm, Monday to Friday



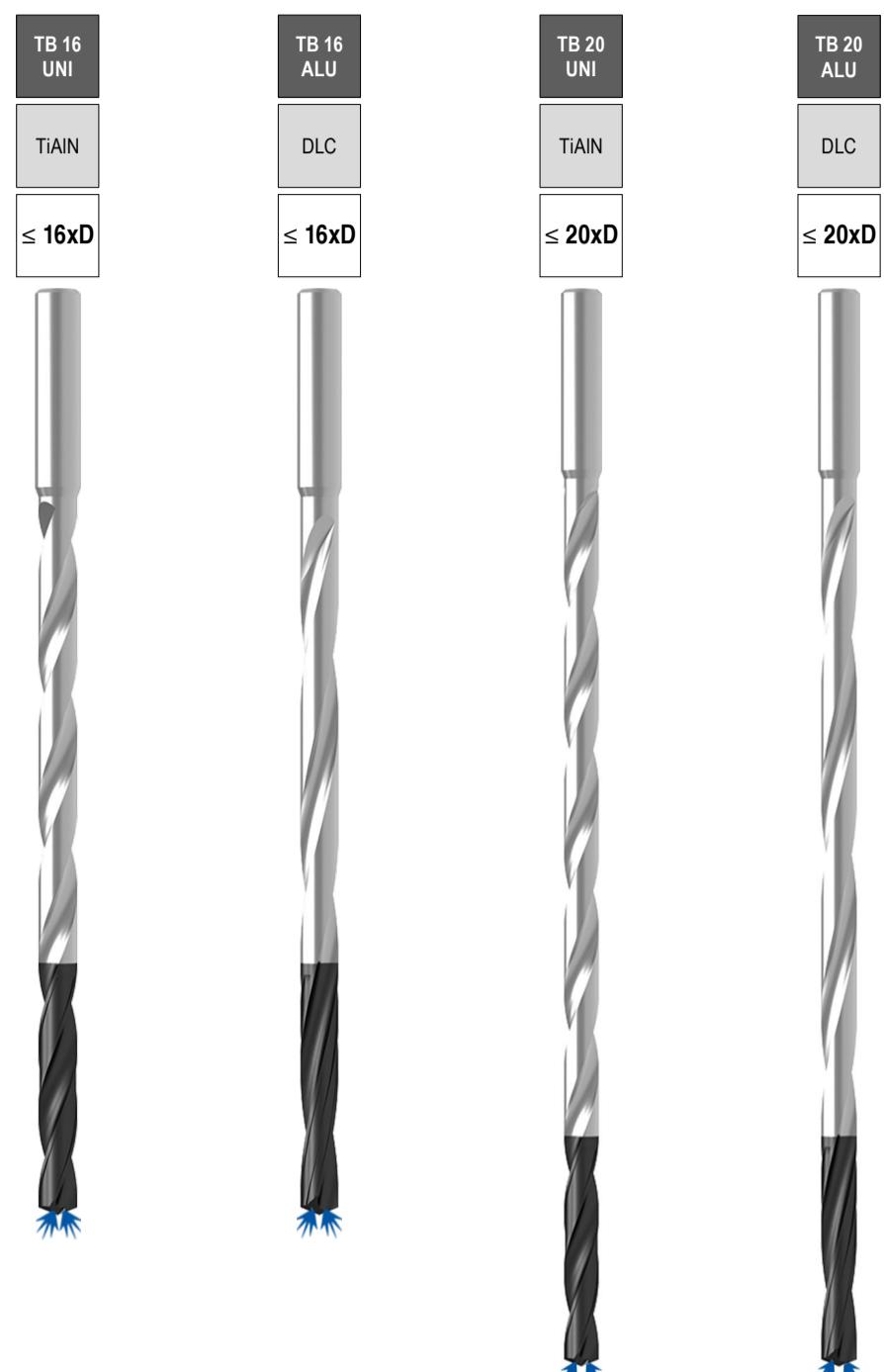
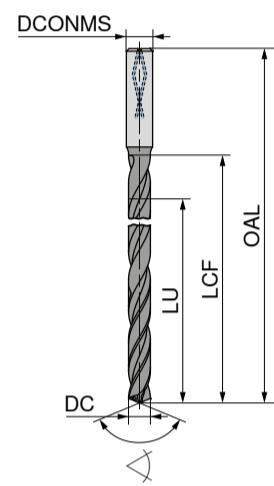
Order by 6:00 pm and get your  
guaranteed free express delivery

## WTX – High performance deep hole drills

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



WNT \ Performance



## Nett Prices

DC $\text{h}_7$ mm	11 016 ...		11 017 ...		11 020 ...		11 021 ...	
	£	£	£	£	£	£	£	£
2.0	110.57	110.57	020	110.57	110.57	020	116.99	116.99
2.2	110.57	110.57	022	110.57	110.57	022	113.03	113.03
2.3	110.57	110.57	023	110.57	110.57	023	116.99	116.99
2.4	123.43	123.43	024	123.43	123.43	024	126.70	126.70
2.5	123.43	123.43	025	123.43	123.43	025	131.13	131.13
2.7	123.43	123.43	027	123.43	123.43	027	126.70	126.70
2.8	123.43	123.43	028	123.43	123.43	028	131.13	131.13
3.0	156.85	156.85	030	156.85	156.85	030	168.93	168.93
3.2	156.85	156.85	032	156.85	156.85	032	174.85	174.85
3.3	156.85	156.85	033	156.85	156.85	033	168.93	168.93
3.5	156.85	156.85	035	156.85	156.85	035	174.85	174.85
3.8	163.29	163.29	038	163.29	163.29	038	176.39	176.39
4.0	163.29	163.29	040	163.29	163.29	040	182.55	182.55
4.2	176.14	176.14	042	176.14	176.14	042	188.80	188.80
4.5	176.14	176.14	045	176.14	176.14	045	195.42	195.42
4.8	186.42	186.42	048	186.42	186.42	048	199.98	199.98
5.0	186.42	186.42	050	186.42	186.42	050	207.00	207.00
5.5	194.13	194.13	055	194.13	194.13	055	208.69	208.69
5.8	194.13	194.13	058	194.13	194.13	058	216.01	216.01
6.0	194.13	194.13	060	194.13	194.13	060	216.01	216.01
6.5	207.00	207.00	065	207.00	207.00	065	230.14	230.14
6.8	222.43	222.43	068	222.43	222.43	068	248.14	248.14
7.0	222.43	222.43	070	222.43	222.43	070	248.14	248.14
7.5	249.43	249.43	075	249.43	249.43	075	276.42	276.42
7.8	249.43	249.43	078	249.43	249.43	078	276.42	276.42
8.0	249.43	249.43	080	249.43	249.43	080	276.42	276.42
8.5	275.13	275.13	085	275.13	275.13	085	304.70	304.70
8.8	306.00	306.00	088	306.00	306.00	088	341.99	341.99
9.0	306.00	306.00	090	306.00	306.00	090	341.99	341.99
9.8	306.00	306.00	098	306.00	306.00	098	341.99	341.99
10.0	306.00	306.00	100	306.00	306.00	100	341.99	341.99
10.2	341.99	341.99	102	341.99	341.99	102	375.42	375.42
10.8	341.99	341.99	108	330.44	330.44	108	375.42	375.42
11.8	341.99	341.99	118	341.99	341.99	118	375.42	375.42
12.0	341.99	341.99	120	330.44	330.44	120	375.42	375.42

P	●	●
M	●	●
K	●	●
N	●	●
S	○	○
H		
O		



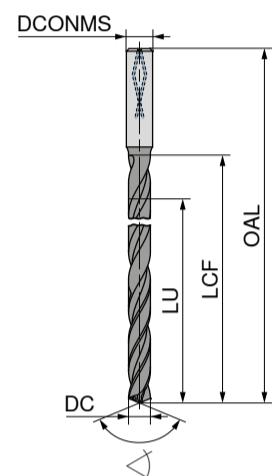
## WTX – High performance deep hole drills

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



WNT \ Performance

TB 25 UNI	TB 25 ALU	TB 30 UNI	TB 30 ALU	TB 40 UNI	TB 50 UNI
TiAIN	DLC	TiAIN	DLC	TiAIN	TiAIN
≤ 25xD	≤ 25xD	≤ 30xD	≤ 30xD	≤ 40xD	≤ 50xD



## Nett Prices

HA [ ]   
 ↘ 135°   
 Solid carbide

DC fg6/17 mm	11 025 ...	11 026 ...	11 030 ...	11 031 ...	11 040 ...	11 050 ...
	£	£	£	£	£	£
2.0	124.72	124.72	132.44	132.44	330.40	330.40
2.2	124.72	124.72	132.44	132.44	448.71	448.71
2.3	124.72	124.72	132.44	132.44		
2.4	141.42	141.42	154.29	154.29		
2.5	141.42	141.42	154.29	154.29		
2.7	141.42	141.42	154.29	154.29		
2.8	141.42	141.42	154.29	154.29		
3.0	203.13	203.13	259.71	259.71		
3.2	203.13	203.13	259.71	259.71		
3.3	224.98	224.98	267.44	267.44		
3.5	224.98	224.98	267.44	267.44		
3.8	231.42	231.42	267.44	267.44		
4.0	231.42	231.42	267.44	267.44		
4.2	231.42	231.42	267.44	267.44		
4.5	241.71	241.71	275.13	275.13		
4.8	241.71	241.71	275.13	275.13		
5.0	241.71	241.71	275.13	275.13		
5.5	259.71	259.71	287.99	287.99		
5.8	259.71	259.71	287.99	287.99		
6.0	259.71	259.71	287.99	287.99		
6.5	289.29	289.29	316.27	316.27		
6.8	289.29	289.29	330.40	330.40		
7.0	289.29	289.29	330.40	330.40		
7.5	321.43	321.43	330.40	330.40		
7.8	321.43	321.43	367.70	367.70		
8.0	321.43	321.43	367.70	367.70		
8.5	362.54	362.54	424.28	424.28		
8.8	393.41	393.41	446.12	446.12		
9.0	393.41	393.41	446.12	446.12		
9.8	393.41	393.41	446.12	446.12		
10.0	393.41	393.41	446.12	446.12		
10.2	473.14	473.14	569.56	569.56		
10.8	473.14	473.14	569.56	569.56		
11.8	473.14	473.14	569.56	569.56		
12.0	473.14	473.14	569.56	569.56		

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



Technical support: 0800 073 2 075  
3 time served engineers,  
available from 8:00 am to 6:00 pm, Monday to Friday



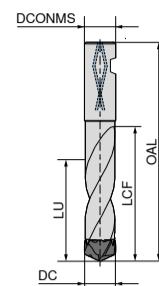
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## WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



Change



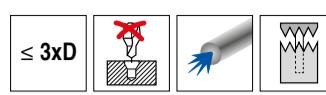
HB [ ]

10 911 ...

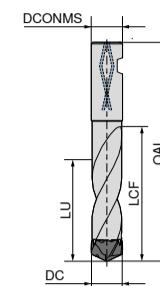
DC mm	DCONMS mm	OAL mm	LCF mm	LU mm		£	£
12,00 - 12,49	14	81	29	12.5	120	259.21	173.00
12,50 - 12,99	14	81	29	13.0	125	259.21	173.00
13,00 - 13,49	14	81	31	13.5	130	259.21	173.00
13,50 - 13,99	16	86	32	14.0	135	259.21	173.00
14,00 - 14,49	16	86	33	14.5	140	259.21	173.00
14,50 - 14,99	16	91	34	15.0	145	259.21	173.00
15,00 - 15,49	16	91	36	15.5	150	259.21	173.00
15,50 - 16,49	20	97	38	16.5	161	267.82	179.00
15,50 - 16,49	18	92	38	16.5	160	267.82	179.00
16,50 - 17,49	20	99	40	17.5	166	267.82	179.00
16,50 - 17,49	18	94	40	17.5	165	267.82	179.00
17,50 - 18,49	20	104	43	18.5	176	267.82	179.00
17,50 - 18,49	18	99	43	18.5	175	267.82	179.00
18,50 - 19,49	20	99	45	19.5	185	310.51	211.00
19,50 - 20,49	20	104	47	20.5	195	316.51	211.00
20,50 - 21,49	25	111	49	21.5	205	350.88	234.00
21,50 - 22,49	25	116	52	22.5	215	350.88	234.00
22,50 - 23,49	25	116	54	23.5	225	383.84	256.00
23,50 - 24,49	25	121	56	24.5	235	383.84	256.00
24,50 - 25,49	25	123	59	25.5	245	410.76	278.00
25,50 - 26,49	25	123	61	26.5	255	416.76	278.00
26,50 - 27,49	25	128	63	27.5	265	416.76	278.00
27,50 - 28,49	25	128	66	28.5	275	416.76	278.00
28,50 - 29,49	32	134	68	29.5	285	484.07	323.00
29,50 - 30,49	32	139	70	30.5	295	484.07	323.00
30,50 - 31,49	32	139	75	31.5	305	534.19	356.00
31,50 - 32,49	32	139	75	32.5	315	534.19	356.00
32,50 - 33,49	32	150	78	33.5	325	575.73	384.00
33,50 - 34,49	32	150	79	34.5	335	575.73	384.00
34,50 - 35,49	32	150	82	35.5	345	575.73	384.00
35,50 - 37,49	32	152	86	37.5	355	663.00	442.00
37,50 - 39,49	32	157	91	39.5	375	687.45	458.00
39,50 - 41,00	32	167	95	41.5	395	704.63	470.00

## WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



Change

HB [ ]

10 913 ...

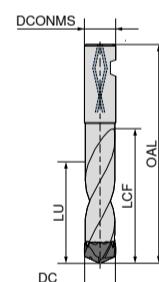
DC mm	DCONMS mm	OAL mm	LCF mm	LU mm		£	£
12,00 - 12,49	14	100	53	38.0	120	293.00	195.00
12,50 - 12,99	14	105	55	39.0	125	293.00	195.00
13,00 - 13,49	14	105	57	40.0	130	293.00	195.00
13,50 - 13,99	16	110	59	42.0	135	293.00	195.00
14,00 - 14,49	16	115	61	43.0	140	293.00	195.00
14,50 - 14,99	16	115	63	45.0	145	293.00	195.00
15,00 - 15,49	16	115	65	46.0	150	293.00	195.00
15,50 - 16,49	20	125	70	50.0	161	285.89	191.00
15,50 - 16,49	18	120	70	50.0	160	285.89	191.00
16,50 - 17,49	20	130	74	50.0	166	285.89	191.00
16,50 - 17,49	18	125	74	53.0	165	285.89	191.00
17,50 - 18,49	20	135	78	50.0	176	285.89	191.00
17,50 - 18,49	18	130	78	55.0	175	285.89	191.00
18,50 - 19,49	20	135	82	58.0	185	338.00	225.00
19,50 - 20,49	20	140	87	62.0	195	338.00	225.00
20,50 - 21,49	25	150	91	65.0	205	373.34	249.00
21,50 - 22,49	25	155	95	67.0	215	373.34	249.00
22,50 - 23,49	25	160	99	70.0	225	408.72	272.00
23,50 - 24,49	25	165	103	73.0	235	408.72	272.00
24,50 - 25,49	25	165	108	77.0	245	443.93	296.00
25,50 - 26,49	25	175	112	80.0	255	443.93	296.00
26,50 - 27,49	25	175	116	82.0	265	443.93	296.00
27,50 - 28,49	25	180	120	85.0	275	443.93	296.00
28,50 - 29,49	32	190	124	88.0	285	514.59	343.00
29,50 - 30,49	32	195	129	92.0	295	514.59	343.00
30,50 - 31,49	32	195	133	94.0	305	568.40	379.00
31,50 - 32,49	32	200	137	97.0	315	568.40	379.00
32,50 - 33,49	32	210	144	100.5	325	670.26	447.00
33,50 - 34,49	32	215	148	103.5	335	670.26	447.00
34,50 - 35,49	32	220	153	106.5	345	670.26	447.00
35,50 - 37,49	32	227	161	112.5	355	770.51	514.00
37,50 - 39,49	32	237	170	118.5	375	799.16	533.00
39,50 - 41,00	32	327	178	124.5	395	810.21	546.00

## WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



Change



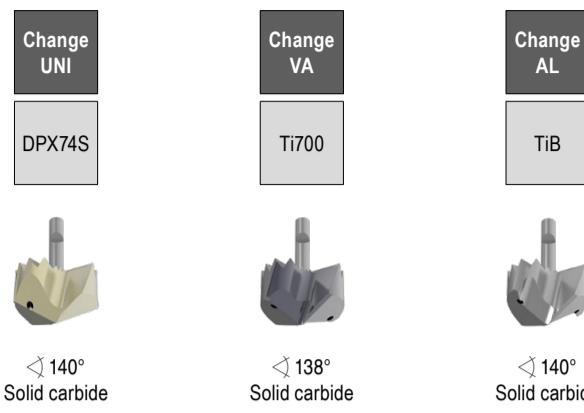
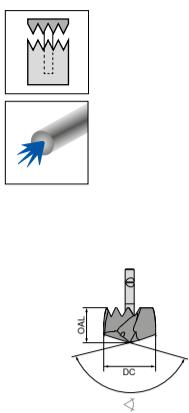
HB [ ]

10 915 ...

DC mm	DCONMS mm	OAL mm	LCF mm	LU mm		£	£
12,00 - 12,49	14	125	78	62.0	120	329.93	220.00
12,50 - 12,99	14	130	81	65.0	125	329.93	220.00
13,00 - 13,4							

## WTX – Drilling Head for Exchangeable drills

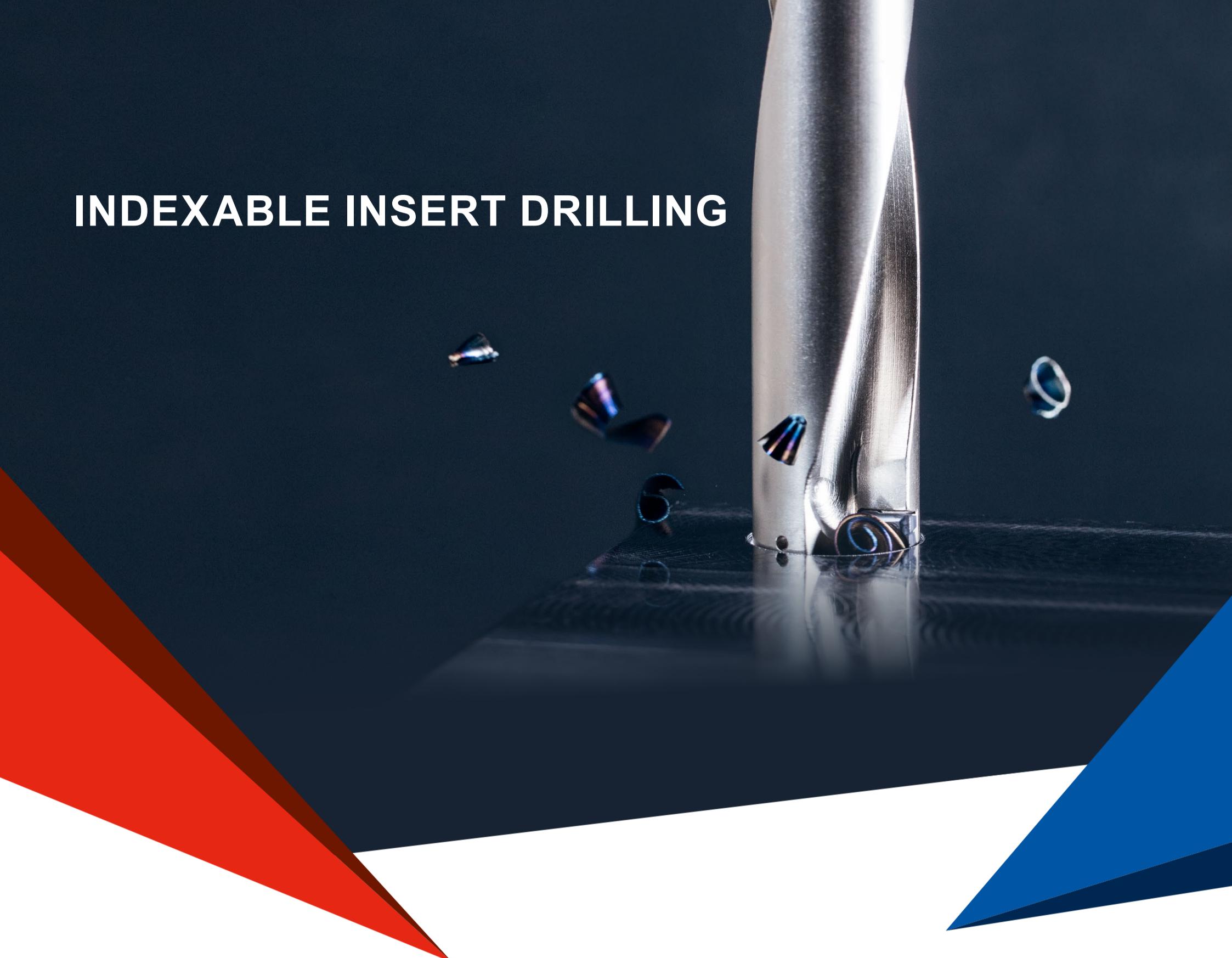
▲ extra long head type



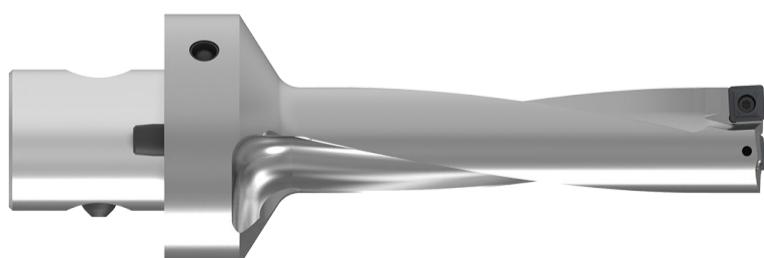
WNT \ Performance    WNT \ Performance    WNT \ Performance

DC h7/m7	OAL	10 919 ...		10 921 ...		10 922 ...		DC h7/m7	OAL	10 919 ...		10 921 ...		10 922 ...		
mm	mm	£	£	£	£	£	£	mm	mm	£	£	£	£	£	£	
12.0	10.7	12000	132.03	99.70	120	132.03	99.70	120	132.03	99.70	23500	171.54	128.66	235	171.54	128.66
12.1	10.7	12100	132.03	99.70	121	132.03	99.70	121	132.03	99.70	23600	171.54	128.66	236	171.54	128.66
12.2	10.7	12200	132.03	99.70	122	132.03	99.70	122	132.03	99.70	23700	171.54	128.66	237	171.54	128.66
12.3	10.7	12300	132.03	99.70	123	132.03	99.70	123	132.03	99.70	23800	171.54	128.66	238	171.54	128.66
12.4	10.7	12400	132.03	99.70	124	132.03	99.70	124	132.03	99.70	23900	171.54	128.66	239	171.54	128.66
12.5	10.7	12500	132.03	99.70	125	132.03	99.70	125	132.03	99.70	24000	171.54	128.66	240	171.54	128.66
12.6	10.7	12600	132.03	99.70	126	132.03	99.70	126	132.03	99.70	24100	186.75	140.06	241	198.44	148.83
12.7	10.7	12700	132.03	99.70	127	132.03	99.70	127	132.03	99.70	24200	186.75	140.06	242	198.44	148.83
12.8	10.7	12800	132.03	99.70	128	132.03	99.70	128	132.03	99.70	24300	186.75	140.06	243	198.44	148.83
12.9	10.7	12900	132.03	99.70	129	132.03	99.70	129	132.03	99.70	24400	186.75	140.06	244	198.44	148.83
13.0	10.7	13000	132.03	99.70	130	132.03	99.70	130	132.03	99.70	24500	186.75	140.06	245	198.44	148.83
13.1	10.7	13100	132.03	99.70	131	132.03	99.70	131	132.03	99.70	24600	186.75	140.06	246	198.44	148.83
13.2	10.7	13200	132.03	99.70	132	132.03	99.70	132	132.03	99.70	24700	186.75	140.06	247	198.44	148.83
13.3	10.7	13300	132.03	99.70	133	132.03	99.70	133	132.03	99.70	24800	186.75	140.06	248	198.44	148.83
13.4	10.7	13400	132.03	99.70	134	132.03	99.70	134	132.03	99.70	24900	186.75	140.06	249	198.44	148.83
13.5	11.3	13500	132.03	99.70	135	132.03	99.70	135	132.03	99.70	25000	186.75	140.06	250	198.44	148.83
13.6	11.3	13600	132.03	99.70	136	132.03	99.70	136	132.03	99.70	25100	186.75	140.06	251	198.44	148.83
13.7	11.3	13700	132.03	99.70	137	132.03	99.70	137	132.03	99.70	25200	186.75	140.06	252	198.44	148.83
13.8	11.3	13800	132.03	99.70	138	132.03	99.70	138	132.03	99.70	25300	186.75	140.06	253	198.44	148.83
13.9	11.3	13900	132.03	99.70	139	132.03	99.70	139	132.03	99.70	26000	186.44	148.83	260	198.44	148.83
14.0	11.3	14000	132.03	99.70	140	132.03	99.70	140	132.03	99.70	26100	186.44	148.83	261	198.44	148.83
14.1	11.3	14100	132.03	99.70	141	132.03	99.70	141	132.03	99.70	26200	186.44	148.83	262	198.44	148.83
14.2	11.3	14200	132.03	99.70	142	132.03	99.70	142	132.03	99.70	26300	186.44	148.83	263	198.44	148.83
14.3	11.3	14300	132.03	99.70	143	132.03	99.70	143	132.03	99.70	26400	186.44	148.83	264	198.44	148.83
14.4	11.3	14400	132.03	99.70	144	132.03	99.70	144	132.03	99.70	26500	186.44	148.83	265	198.44	148.83
14.5	11.3	14500	132.03	99.70	145	132.03	99.70	145	132.03	99.70	26600	186.44	148.83	266	198.44	148.83
14.6	11.3	14600	132.03	99.70	146	132.03	99.70	146	132.03	99.70	26700	186.44	148.83	267	198.44	148.83
14.7	11.3	14700	132.03	99.70	147	132.03	99.70	147	132.03	99.70	26800	186.44	148.83	268	198.44	148.83
14.8	11.3	14800	132.03	99.70	148	132.03	99.70	148	132.03	99.70	26900	186.44	148.83	269	198.44	148.83
14.9	11.3	14900	132.03	99.70	149	132.03	99.70	149	132.03	99.70	27000	186.44	148.83	270	198.44	148.83
15.0	11.3	15000	132.03	99.70	150	132.03	99.70	150	132.03	99.70	27100	186.44	148.83	271	198.44	148.83
15.1	11.3	15100	132.03	99.70	151	132.03	99.70	151	132.03	99.70	27200	186.44	148.83	272	198.44	148.83
15.2	11.3	15200	132.03	99.70	152	132.03	99.70	152	132.03	99.70	27300	186.44	148.83	273	198.44	148.83
15.3	11.3	15300	132.03	99.70	153	132.03	99.70	153	132.03	99.70	27400	186.44	148.83	274	198.44	148.83
15.4	11.3	15400	132.03	99.70	154	132.03	99.70	154	132.03	99.70	27500	186.44	148.83	275	198.44	148.83
15.5	11.9	15500	132.03	99.70	155	132.03	99.70	155	132.03	99.70	27600	186.44	148.83	276	198.44	148.83
15.6	11.9	15600	132.03	99.70	156	132.03	99.70	156	132.03	99.70	27700	186.44	148.83	277	198.44	148.83
15.7	11.9	15700	132.03	99.70	157	132.03	99.70	157	132.03	99.70	27800	186.44	148.83	278	198.44	148.83
15.8	11.9	15800	132.03	99.70	158	132.03	99.70	158	132.03	99.70	27900	186.44	148.83	279	198.44	148.8

# INDEXABLE INSERT DRILLING



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

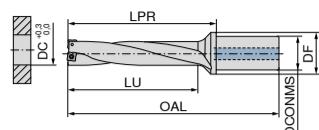


KUB Pentron – high performance problem solver with large selection of drill diameters and lengths, and insert grades – see catalogue for full programme.

## MaxiDrill 900 – Indexable insert drill

### Scope of supply:

Indexable Insert Drill including clamping screws and key



KOMET \ Performance

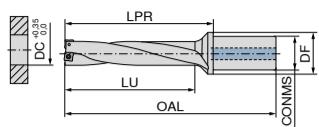
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ...	£	£
MD900.2D.120.R.03-C20	12.0	28	20	90	24	40	SONT 031804	120	244.36	116.00
MD900.2D.125.R.03-C20	12.5	28	20	91	25	41	SONT 031804	125	244.36	116.00
MD900.2D.130.R.03-C20	13.0	28	20	92	26	42	SONT 031804	130	244.36	116.00
MD900.2D.135.R.03-C20	13.5	28	20	93	27	43	SONT 031804	135	244.36	116.00
MD900.2D.140.R.04-C20	14.0	30	20	96	28	46	SONT 042105	140	260.10	124.00
MD900.2D.145.R.04-C20	14.5	30	20	97	29	47	SONT 042105	145	260.10	124.00
MD900.2D.150.R.04-C20	15.0	30	20	98	30	48	SONT 042105	150	260.10	124.00
MD900.2D.155.R.04-C20	15.5	30	20	99	31	49	SONT 042105	155	260.10	124.00
MD900.2D.160.R.05-C20	16.0	30	20	100	32	50	SONT 052306	160	260.10	124.00
MD900.2D.165.R.05-C20	16.5	30	20	101	33	51	SONT 052306	165	260.10	124.00
MD900.2D.170.R.05-C20	17.0	30	20	102	34	52	SONT 052306	170	276.92	132.00
MD900.2D.175.R.05-C20	17.5	30	20	103	35	53	SONT 052306	175	276.92	132.00
MD900.2D.180.R.06-C25	18.0	32	25	111	36	55	SONT 062506	180	276.92	132.00
MD900.2D.185.R.06-C25	18.5	32	25	112	37	56	SONT 062506	185	276.92	132.00
MD900.2D.190.R.06-C25	19.0	32	25	113	38	57	SONT 062506	190	297.48	142.00
MD900.2D.195.R.06-C25	19.5	32	25	114	39	58	SONT 062506	195	297.48	142.00
MD900.2D.200.R.06-C25	20.0	32	25	115	40	59	SONT 062506	200	297.48	142.00
MD900.2D.205.R.06-C25	20.5	32	25	116	41	60	SONT 062506	205	297.48	142.00
MD900.2D.210.R.07-C25	21.0	32	25	118	42	62	SONT 072907	210	297.48	142.00
MD900.2D.220.R.07-C25	22.0	32	25	120	44	64	SONT 072907	220	297.48	142.00
MD900.2D.230.R.07-C25	23.0	32	25	122	46	66	SONT 072907	230	306.79	146.00
MD900.2D.240.R.08-C32	24.0	40	32	132	48	72	SONT 083308	240	306.79	146.00
MD900.2D.250.R.08-C32	25.0	40	32	134	50	74	SONT 083308	250	306.79	146.00
MD900.2D.260.R.08-C32	26.0	40	32	136	52	76	SONT 083308	260	339.66	162.00
MD900.2D.270.R.08-C32	27.0	40	32	138	54	78	SONT 083308	270	339.66	162.00
MD900.2D.280.R.09-C32	28.0	40	32	140	56	80	SONT 093808	280	339.66	162.00
MD900.2D.290.R.09-C32	29.0	40	32	142	58	82	SONT 093808	290	339.66	162.00
MD900.2D.300.R.09-C32	30.0	40	32	144	60	84	SONT 093808	300	339.66	162.00
MD900.2D.310.R.09-C32	31.0	40	32	146	62	86	SONT 093808	310	368.43	175.00
MD900.2D.320.R.09-C32	32.0	40	32	148	64	88	SONT 093808	320	368.43	175.00
MD900.2D.330.R.10-C40	33.0	50	40	163	66	93	SONT 104408	330	368.43	175.00
MD900.2D.340.R.10-C40	34.0	50	40	165	68	95	SONT 104408	340	368.43	175.00

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ...	£	£
MD900.2D.350.R.10-C40	35.0	50	40	167	70	97	SONT 104408	350	376.76	179.00
MD900.2D.360.R.10-C40	36.0	50	40	169	72	99	SONT 104408	360	376.76	179.00
MD900.2D.370.R.12-C40	37.0	56	40	174	74	104	SONT 124810	370	388.98	185.00
MD900.2D.380.R.12-C40	38.0	56	40	176	76	106	SONT 124810	380	388.98	185.00
MD900.2D.390.R.12-C40	39.0	56	40	178	78	108	SONT 124810	390	388.98	185.00
MD900.2D.400.R.12-C40	40.0	56	40	180	80	110	SONT 124810	400	388.98	185.00
MD900.2D.410.R.12-C40	41.0	56	40	182	82	112	SONT 124810	410	388.98	185.00
MD900.2D.420.R.13-C40	42.0	60	40	187	84	117	SONT 135012	420	408.63	195.00
MD900.2D.430.R.13-C40	43.0	60	40	189	86	119	SONT 135012	430	408.63	195.00
MD900.2D.440.R.13-C40	44.0	60	40	191	88	121	SONT 135012	440	408.63	195.00
MD900.2D.450.R.13-C40	45.0	60	40	193	90	123	SONT 135012	450	408.63	195.00
MD900.2D.460.R.13-C40	46.0	60	40	195	92	125	SONT 135012	460	408.63	195.00
MD900.2D.470.R.15-C40	47.0	60	40	198	94	128	SONT 155312	470	429.27	204.00
MD900.2D.480.R.15-C40	48.0	60	40	200	96	130	SONT 155312	480	429.27	204.00
MD900.2D.490.R.15-C40	49.0	60	40	202	98	132	SONT 155312	490	463.14	221.00
MD900.2D.500.R.15-C40	50.0	60	40	204	100	134	SONT 155312	500	463.14	221.00
MD900.2D.510.R.15-C40	52.0	60	40	208	104	138	SONT 155312	520	475.58	226.00
MD900.2D.520.R.15-C40	51.0	60	40	206	102	136	SONT 155312	510	475.58	226.00
MD900.2D.530.R.15-C40	53.0	60	40	210	106	140	SONT 155312	530	475.58	226.00
MD900.2D.540.R.15-C40	54.0	60	40	212	108	142	SONT 155312	540	475.58	226.00
MD900.2D.550.R.17-C40	55.0	60	40	215	110	145	SONT 175612	550	475.58	226.00
MD900.2D.560.R.17-C40	56.0	60	40	217	112	147	SONT 175612	560	493.02	235.00
MD900.2D.570.R.17-C40	57.0	60	40	219	114	149	SONT 175612	570	493.02	235.00
MD900.2D.580.R.17-C40	58.0	60	40	221	116	151	SONT 175612	580	493.02	235.00
MD900.2D.590.R.17-C40	59.0	60	40	223	118	153	SONT 175612			

## MaxiDrill 900 – Indexable insert drill

### Scope of supply:

Indexable Insert Drill including clamping screws and key



KOMET \ Performance

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

10 854 ...			
		£	£
120	359.02	171.00	
130	369.02	171.00	
140	369.43	176.00	
150	369.43	176.00	
160	370.06	180.00	
170	392.29	187.00	
180	392.29	187.00	
190	421.45	201.00	
200	421.45	201.00	
210	421.45	201.00	
220	421.45	201.00	
230	435.49	207.00	
240	435.49	207.00	
250	435.49	207.00	
260	481.00	229.00	
270	481.00	229.00	
280	481.00	229.00	
290	481.00	229.00	
300	481.00	229.00	
310	522.19	249.00	
320	522.19	249.00	
330	522.19	249.00	

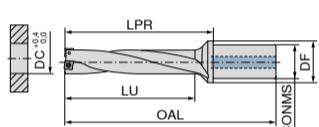
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert
MD900.4D.340.R.10-C40	34	50	40	232	136	162	SONT 104408
MD900.4D.350.R.10-C40	35	50	40	236	140	166	SONT 104408
MD900.4D.360.R.10-C40	36	50	40	240	144	170	SONT 104408
MD900.4D.370.R.12-C40	37	56	40	248	148	178	SONT 124810
MD900.4D.380.R.12-C40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

10 854 ...			
		£	£
340	522.10	249.00	
350	533.12	254.00	
360	533.12	254.00	
370	551.45	263.00	
380	551.45	263.00	
390	551.45	263.00	
400	551.45	263.00	
410	551.45	263.00	
420	578.57	275.00	
430	578.57	275.00	
440	578.57	275.00	
450	578.57	275.00	
460	578.57	275.00	
470	609.98	290.00	
500	609.98	290.00	
510	609.98	290.00	
520	609.98	290.00	
530	609.98	290.00	
540	609.98	290.00	

## MaxiDrill 900 – Indexable insert drill

### Scope of supply:

Indexable Insert Drill including clamping screws and key



KOMET \ Performance

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert
MD900.5D.120.R.03-C20	12	28	20	126	60	76	SONT 031804
MD900.5D.130.R.03-C20	13	28	20	131	65	81	SONT 031804
MD900.5D.140.R.04-C20	14	30	20	137	70	87	SONT 042105
MD900.5D.150.R.0							



# REAMING



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



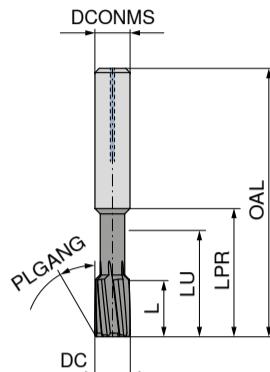
Type N – for all standard low volume applications.

## 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



KOMET \ Performance



Left Hand Helix  
PLGANG 30°  
ASG2210  
Solid carbide  
Through hole

DC <sub>+0,004/+0,005</sub> mm	OAL mm	L mm	LU mm	DCONMS <sub>h6</sub> mm	ZEFP
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

40 489 ...

	£	£
03970	113.06	62.18
03980	113.06	62.18
03990	113.06	62.18
04000	113.06	62.18
04010	113.06	62.18
04020	113.06	62.18
04030	113.06	62.18
04970	115.47	63.51
04980	115.47	63.51
04990	115.47	63.51
05000	115.47	63.51
05010	115.47	63.51
05020	115.47	63.51
05030	115.47	63.51
05970	116.37	64.00
05980	116.37	64.00
05990	116.37	64.00
06000	116.37	64.00
06010	116.37	64.00
06020	116.37	64.00
06030	116.37	64.00
07970	121.08	67.09
07980	121.08	67.09
07990	121.08	67.09
08000	121.08	67.09
08010	121.08	67.09
08020	121.08	67.09
08030	121.08	67.09
09970	173.70	95.54
09980	173.70	95.54
09990	173.70	95.54
10000	173.70	95.54
10010	173.70	95.54
10020	173.70	95.54
10030	173.70	95.54
11970	231.03	127.07
11980	231.03	127.07
11990	231.03	127.07
12000	231.03	127.07
12010	231.03	127.07
12020	231.03	127.07
12030	231.03	127.07

P	●
M	●
K	●
N	○
S	○
H	○
O	○

DC <sub>+0,004/+0,005</sub> mm	OAL mm	L mm	LU mm	DCONMS <sub>h6</sub> mm	ZEFP
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

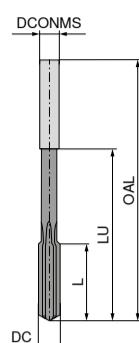
40 488 ...

	£	£
03970	95.34	52.42
03980	95.34	52.42
03990	95.34	52.42
04000	95.34	52.42
04010</		

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

▲ extremely irregular pitch

N

Left Hand Helix  
Solid carbidestraight flute  
Solid carbide

DC H7	OAL	L	LU	DCONMS H7	ZEFP
mm	mm	mm	mm	mm	
2.0	49	11	31	2.0	4
2.1	49	11	31	2.0	4
2.2	53	12	35	2.2	4
2.3	53	12	35	2.2	4
2.4	57	14	34	2.5	4
2.5	57	14	34	2.5	4
2.6	57	14	34	2.5	4
2.7	61	15	36	3.0	4
2.8	61	15	36	3.0	4
2.9	61	15	36	3.0	4
3.0	61	15	36	3.0	4
3.1	61	15	36	3.0	4
3.2	70	18	40	3.5	4
3.3	70	18	40	3.5	4
3.4	70	18	40	3.5	4
3.5	70	18	40	3.5	4
3.6	70	18	40	3.5	4
3.7	70	18	40	3.5	4
3.8	75	19	43	4.0	4
3.9	75	19	43	4.0	4
4.0	75	19	43	4.0	4
4.1	75	19	43	4.0	4
4.2	75	19	43	4.0	4
4.3	75	21	42	4.5	4
4.4	75	21	42	4.5	4
4.5	75	21	42	4.5	4
4.6	75	21	42	4.5	4
4.7	75	21	42	4.5	4
4.8	86	23	52	5.0	4
4.9	86	23	52	5.0	4
5.0	86	23	52	5.0	4
5.1	86	23	52	5.0	4
5.2	86	23	52	5.0	4
5.3	86	23	52	5.0	6
5.4	93	26	57	5.6	6
5.5	93	26	57	5.6	6
5.6	93	26	57	5.6	6
5.7	93	26	57	5.6	6
5.8	93	26	57	5.6	6
5.9	93	26	57	5.6	6
6.0	93	26	57	5.6	6
6.1	93	26	57	5.6	6
6.2	93	26	57	5.6	6
6.3	101	28	63	6.3	6
6.4	101	28	63	6.3	6
6.5	101	28	63	6.3	6
6.6	101	28	63	6.3	6

40 410 ...

40 400 ...

£ £

£ £

DC H7	OAL	L	LU	DCONMS H7	ZEFP	40 410 ...	40 400 ...
mm	mm	mm	mm	mm		£	£
6.7	101	28	63	6.3	6	067	86.75 47.71
6.8	109	31	69	7.1	6	068	86.75 47.71
6.9	109	31	69	7.1	6	069	86.75 47.71
7.0	109	31	69	7.1	6	070	84.23 46.33
7.1	109	31	69	7.1	6	071	96.87 53.28
7.2	109	31	69	7.1	6	072	96.87 53.28
7.3	109	31	69	7.1	6	073	96.87 53.28
7.4	109	31	69	7.1	6	074	96.87 53.28
7.5	109	31	69	7.1	6	075	91.06 50.08
7.6	117	33	75	8.0	6	076	104.69 57.58
7.7	117	33	75	8.0	6	077	104.69 57.58
7.8	117	33	75	8.0	6	078	104.69 57.58
7.9	117	33	75	8.0	6	079	104.69 57.58
8.0	117	33	75	8.0	6	080	96.94 53.32
8.1	117	33	75	8.0	6	081	106.65 58.66
8.2	117	33	75	8.0	6	082	106.65 58.66
8.3	117	33	75	8.0	6	083	106.65 58.66
8.4	117	33	75	8.0	6	084	106.65 58.66
8.5	117	33	75	8.0	6	085	105.12 57.82
8.6	125	36	81	9.0	6	086	115.59 63.57
8.7	125	36	81	9.0	6	087	115.59 63.57
8.8	125	36	81	9.0	6	088	115.59 63.57
8.9	125	36	81	9.0	6	089	115.59 63.57
9.0	125	36	81	9.0	6	090	112.71 61.99
9.1	125	36	81	9.0	6	091	123.93 68.16
9.2	125	36	81	9.0	6	092	123.93 68.16
9.3	125	36	81	9.0	6	093	123.93 68.16
9.4	125	36	81	9.0	6	094	123.93 68.16
9.5	125	36	81	9.0	6	095	120.86 66.47
9.6	133	38	87	10.0	6	096	132.93 73.11
9.7	133	38	87	10.0	6	097	132.93 73.11
9.8	133	38	87	10.0	6	098	132.93 73.11
9.9	133	38	87	10.0	6	099	132.93 73.11
10.0	133	38	87	10.0	6	100	130.05 71.53
10.1	133	38	87	10.0	6	101	143.06 78.68
10.2	133	38	87	10.0	6	102	143.06 78.68
10.3	133	38	87	10.0	6	103	143.06 78.68
10.4	133	38	87	10.0	6	104	143.06 78.68
10.5	133	38	87	10.0	6	105	135.92 74.76
10.6	133	38	87	10.0	6	106	140.54 82.25
10.7	142	41	96	10.0	6	107	140.54 82.25
10.8	142	41	96	10.0	6	108	140.54 82.25
10.9	142	41	96	10.0	6	109	140.54 82.25
11.0	142	41		10.0	6	110	147.32 81.03
11.1	142	41		10.0	6	111	162.04 89.12
11.2	142	41		10.0	6	112	162.04 89.12
11.3	142	41		10.0	6	113	162.04 89.12
11.4	142	41		10.0	6	114	162.04 89.12
11.5	142	41		10.0	6	115	156.27 85.95
11.6	142	41		10.0	6	116	171.98 94.59
11.7	142	41		10.0	6	117	171.98 94.59
11.8	142	41		10.0	6	118	171.98 94.59
11.9	151	44		10.0	6	119	171.98 94.59
12.0	151	44		10.0	6	120	169.40 93.17

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

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TEAM CUTTING TOOLS

CERATIZIT KOMET KLEINK

CUTTING TOOLS BY

CERATIZIT

KOMET



## 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

**M**

WNT \ Standard

**TCS**

		UNI	ISO 2 6H			VA	ISO 2 6H			
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes		
mm	mm	mm	mm	mm	mm	mm	mm			
M2	0.40	45	2.8	2.1	1.6	4	13.5	2	020	<del>10.12</del> 8.60
M3	0.50	56	3.5	2.7	2.5	11	18.0	3	030	<del>12.72</del> 10.81
M4	0.70	63	4.5	3.4	3.3	13	21.0	3	040	<del>11.60</del> 9.86
M5	0.80	70	6.0	4.9	4.2	15	25.0	3	050	<del>12.97</del> 11.02
M6	1.00	80	6.0	4.9	5.0	17	30.0	3	060	<del>15.55</del> 13.22
M8	1.25	90	8.0	6.2	6.8	20	35.0	3	080	<del>17.20</del> 14.67
M10	1.50	100	10.0	8.0	8.5	22	39.0	3	100	<del>22.83</del> 19.41

POWDERSTEEL HSS-PM

POWDERSTEEL HSS-PM

≤ 1000 N/mm<sup>2</sup> ≤ 3xD

≤ 1200 N/mm<sup>2</sup> ≤ 3xD

23 010 ... 23 450 ...

£ £

TD TP OAL DCONMS DRVS PHD THL LU Flutes

mm mm mm mm mm mm mm mm

## Through hole – Machine taps, right hand

**M**

WNT \ Standard

**TCS**

		UNI	ISO 2 6H			VA	ISO 2 6H		
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	
mm	mm	mm	mm	mm	mm	mm	mm		
M12	1.75	110	9	7	10.2	24	3	120	<del>27.27</del> 23.18
M14	2.00	110	11	9	12.0	26	3	140	<del>39.36</del> 33.46
M14	2.00	110	11	9	12.0	20	4	140	<del>41.33</del> 35.13
M16	2.00	110	12	9	14.0	27	3	160	<del>38.38</del> 32.62
M18	2.50	125	14	11	15.5	25	4	180	<del>67.24</del> 57.15
M20	2.50	140	16	12	17.5	32	3	200	<del>69.47</del> 59.05

POWDERSTEEL HSS-PM

POWDERSTEEL HSS-PM

≤ 1000 N/mm<sup>2</sup> ≤ 3xD

≤ 1200 N/mm<sup>2</sup> ≤ 3xD

23 021 ... 23 451 ...

£ £

TD TP OAL DCONMS DRVS PHD THL LU Flutes

mm mm mm mm mm mm mm mm

## Blind hole – Machine taps, right hand

**M**

WNT \ Standard

**TCS**

		UNI	ISO 2 6H			VA	ISO 2 6H			
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes		
mm	mm	mm	mm	mm	mm	mm	mm			
M3	0.50	56	3.5	2.7	2.5	6	18	3	030	<del>14.43</del> 12.27
M4	0.70	63	4.5	3.4	3.3	7	21	3	040	<del>14.43</del> 12.27
M5	0.80	70	6.0	4.9	4.2	8	25	3	050	<del>15.55</del> 13.22
M6	1.00	80	6.0	4.9	5.0	10	30	3	060	<del>18.01</del> 15.31
M8	1.25	90	8.0	6.2	6.8	14	35	3	080	<del>21.36</del> 18.16
M10	1.50	100	10.0	8.0	8.5	16	39	3	100	<del>26.99</del> 22.87

HSS-PM

HSS-PM

≤ 1000 N/mm<sup>2</sup> ≤ 2,5xD

≤ 1200 N/mm<sup>2</sup> ≤ 2,5xD

23 026 ... 23 456 ...

£ £

TD TP OAL DCONMS DRVS PHD THL LU Flutes

mm mm mm mm mm mm mm mm

## Blind hole – Machine taps, right hand

**M**

WNT \ Standard

**TCS**

		UNI	ISO 2 6H			VA	ISO 2 6H		
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	
mm	mm	mm	mm	mm	mm	mm	mm		
M12	1.75	110	9	7	10.2	18	4	120	<del>31.83</del> 27.06
M12	1.75	110	9	7	10.2	18	3	120	<del>43.68</del> 37.13
M14	2.00	110	11	9	12.0	20	4	140	<del>45.78</del> 38.91
M16	2.00	110	12	9	14.0	22	4	160	<del>45.78</del> 38.91
M16	2.00	110	12	9	14.0	22	3	160	<del>54.90</del> 46.67
M20	2.50	140	16	12	17.5	25	3	200	<del>52.45</del> 44.58

HSS-PM

HSS-PM

≤ 1000 N/mm<sup>2</sup> ≤ 2,5xD

≤ 1200 N/mm<sup>2</sup> ≤ 2,5xD

23 027 ... 23 457 ...

£ £

TD TP OAL DCONMS DRVS PHD THL LU Flutes

mm mm mm mm mm mm mm mm

## Machine thread formers

**M**

WNT \ Standard

**TCS**

		UNI	ISO 2 6HX			VA	ISO 2 6HX			
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes		
mm	mm	mm	mm	mm	mm	mm	mm			
M2	0.40	45	2.8	2.1	1.85	7	12		020	<del>43.72</del> 37.16
M2,5	0.45	50	2.8	2.1	2.33	9	14		025	<del>38.94</del> 33.10
M3	0.50	56	3.5	2.7	2.80	11	18		030	<del>28.35</del> 24.10
M4	0.70	63	4.5	3.4	3.70	13	21		040	<del>28.75</del> 24.44
M5	0.80	70	6.0	4.9	4.65	15	25		050	<del>30.82</del> 26.20
M6	1.00	80	6.0	4.9	5.60	17	30		060	<del>37.00</del> 31.45
M8	1.25	90	8.0	6.2	7.45	20	35		080	<del>41.32</del> 35.12
M10	1.50	100	10.0	8.0	9.35	22	39		100	<del>55.10</del> 46.84

POWDERSTEEL HSS-E

POWDERSTEEL HSS-E

≤ 850 N/mm<sup>2</sup> ≤ 3xD

≤ 1000 N/mm<sup>2</sup> ≤ 3xD

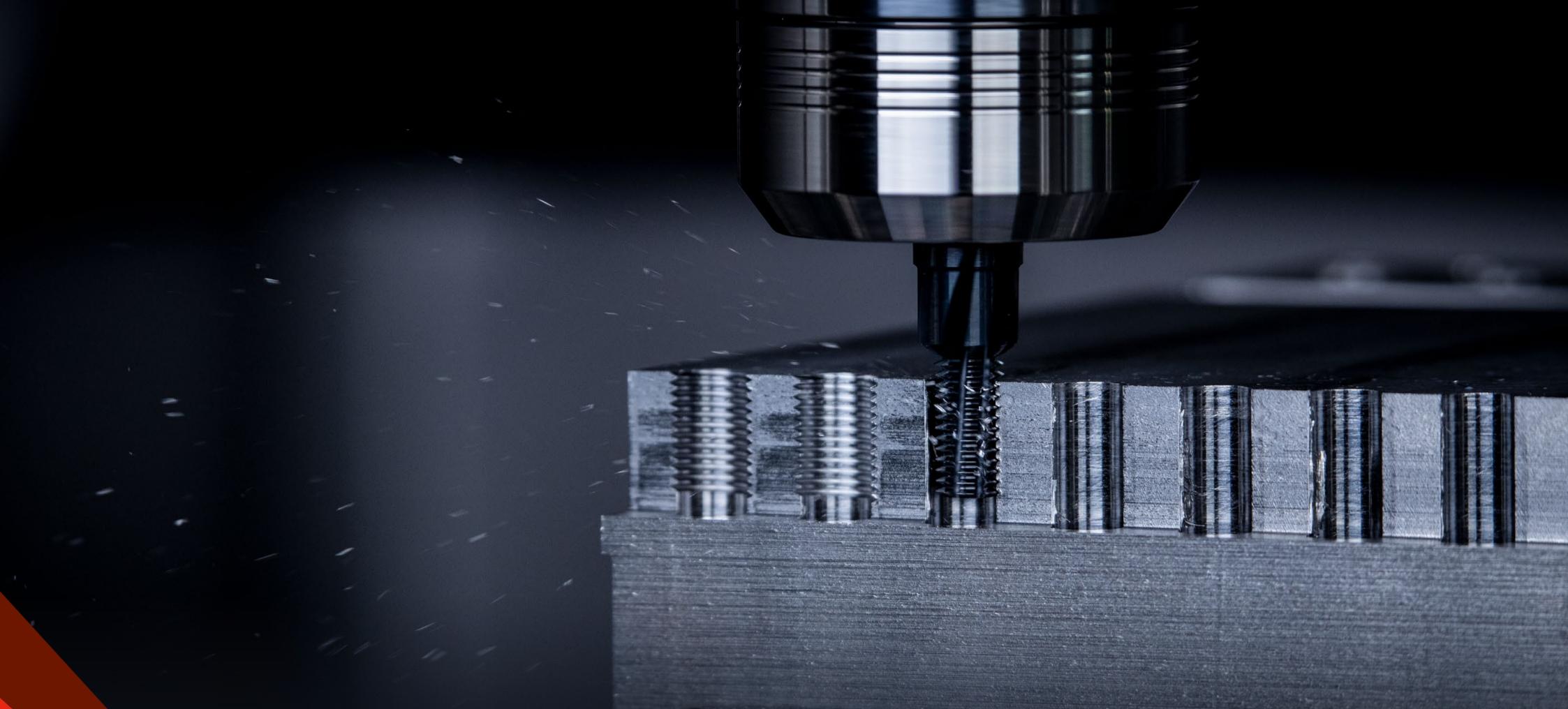
23 810 ...

£ £

TD TP OAL DCONMS DRVS PHD THL LU Flutes

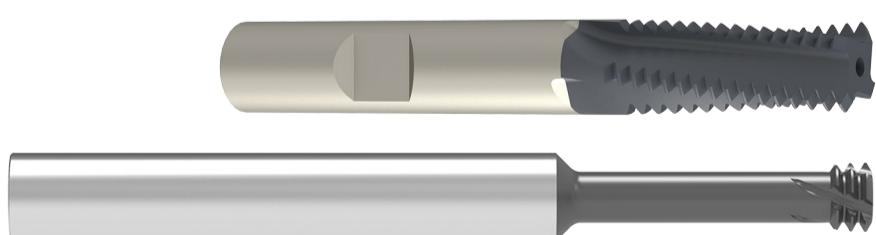
mm mm mm mm mm mm mm mm





# THREAD MILLING CUTTERS

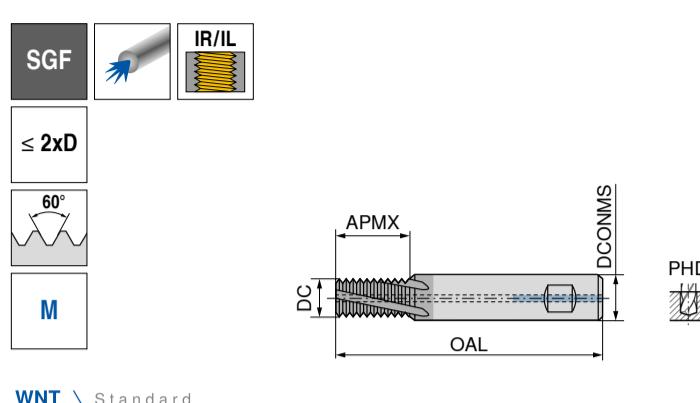
## SGF



- ▲ 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



WNT \ Standard

## Nett Prices

DC mm	Thread	TP mm	APMX mm	DCONMS <sub>h6</sub> 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

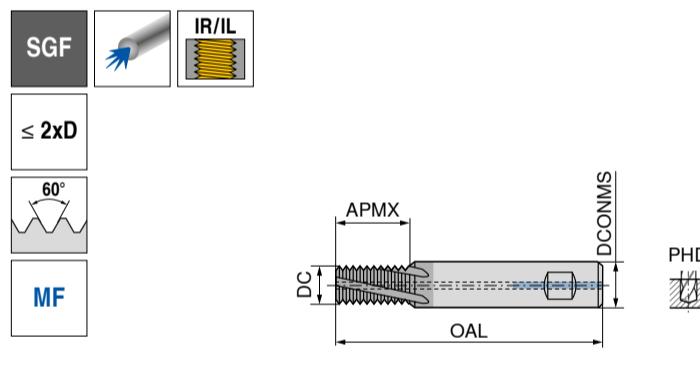
P	•
M	•
K	•
N	•
S	•
H	•
O	•

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



WNT \ Standard

## Nett Prices

DC mm	Thread	TP mm	APMX mm	DCONMS <sub>h6</sub> 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

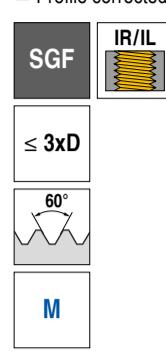
P	•
M	•
K	•
N	•
S	•
H	•
O	•

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

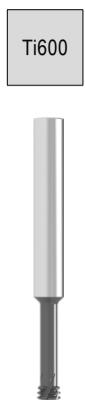
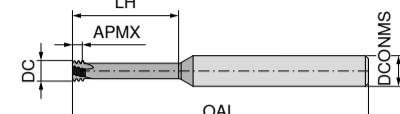
- ▲ Available on request from M1  
▲ Profile corrected



WNT \ Performance

## Nett Prices

DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS <sub>h6</sub> mm	ZEFP	HA	Solid carbide	50 802 ...
1.53	M2	0.40	39	0.80	6.0	3	3			02000 80.23
2.37	M3	0.50	58	1.35	9.5	6	3			03000 80.23
3.10	M4	0.70	58	1.95	12.5	6	3			04000 80.23
3.80	M5	0.80	58	2.30	16.0	6	3			05000 80.23
4.65	M6	1.00	58	2.70	20.0	6	3			06000 80.23
6.00	M8	1.25	58	3.20	24.0	6	3			08000 80.23
7.80	M10	1.50	64	3.80	31.5	8	3			10000 99.97
9.00	M12	1.75	73	4.55	37.8	10	3			12000 112.38



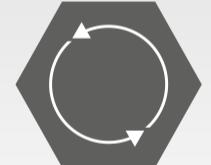
## Nett Prices

DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS <sub>h6</sub> mm	ZEFP	HA	Solid carbide	50 803 ...
1.53	M2	0.40	39	1.00	10.4	3	3			02000 90.30
2.40	M3	0.50	39	1.30	12.5	3	3			03000 86.28
3.10	M4	0.70	58	1.80	16.7	6	3			04000 86.28
4.00	M5	0.80	58	2.10	20.8	6	3			05000 86.28
4.80	M6	1.00	58	2.55	25.0	6	3			06000 86.28
6.40	M8	1.25	64	3.15	33.5	8	3			08000 106.95
8.00	M10	1.50	76	3.85	41.5	8	3			10000 106.95

P	•
M	•
K	•
N	•
S	•
H	•
O	•

## Our recycling service

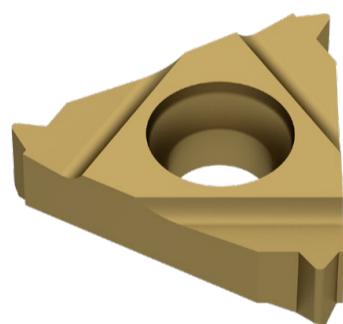
Our joint contribution for the good of the environment:  
we take back your carbide and process it appropriately.  
You receive a credit from us that you can redeem with  
your next tool purchase.



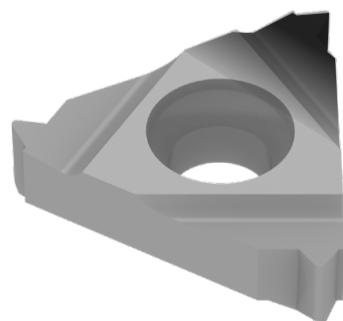
Technical support: 0800 073 2 075

3 time served engineers,  
available from 8:00 am to 6:00 pm, Monday to FridayOrder by 6:00 pm and get your  
guaranteed free express delivery

# 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

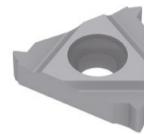
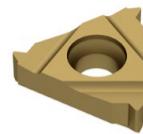
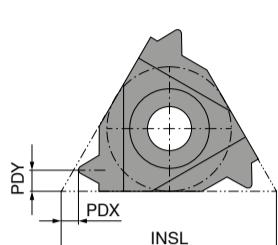
▲ Full profile



CWN1525

**TCS**  
HCN2525

WNT \ Performance



Designation	TP	INSL	PDX	PDY
	mm	mm	mm	mm
16 ER 0,35	0.35	16	0.8	0.4
16 ER 0,4	0.40	16	0.7	0.4
16 ER 0,5	0.50	16	0.6	0.6
16 ER 0,7	0.70	16	0.6	0.6
16 ER 0,75	0.75	16	0.6	0.6
16 ER 0,8	0.80	16	0.6	0.6
16 ER 1,0	1.00	16	0.7	0.7
16 ER 1,25	1.25	16	0.8	0.9
16 ER 1,5	1.50	16	0.8	1.0
16 ER 1,75	1.75	16	0.9	1.2
16 ER 2,0	2.00	16	1.0	1.3
16 ER 2,5	2.50	16	1.1	1.5
16 ER 3,0	3.00	16	1.2	1.6

ER	71 220 ...		ER		71 220 ...	
	£	£		£	£	
140	16.51	11.56	734	24.05	16.84	
141	18.27	12.79	736	24.05	16.84	
142	17.16	12.01	740	18.73	13.11	
143	17.16	12.01	741	19.34	13.54	
144	16.02	11.21	742	18.73	13.11	
146	16.02	11.21	743	18.73	13.11	
148	16.02	11.21	744	18.27	12.79	
150	16.02	11.21	746	18.27	12.79	
152	16.02	11.21	748	18.27	12.79	
154	16.02	11.21	750	18.27	12.79	
156	16.02	11.21	752	18.27	12.79	
			754	18.27	12.79	
			756	18.27	12.79	

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

## Right hand internal thread turning insert

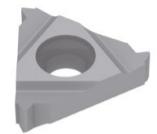
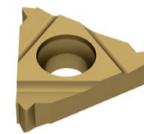
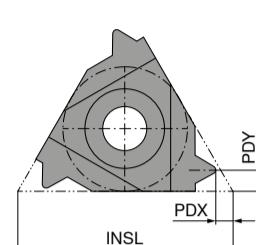
▲ Full profile



CWN1525

**TCS**  
HCN2525

WNT \ Performance



Designation	TP	INSL	PDX	PDY
	mm	mm	mm	mm
16 IR 0,75	0.75	16	0.6	0.6
16 IR 1,0	1.00	16	0.6	0.7
16 IR 1,25	1.25	16	0.8	0.9
16 IR 1,5	1.50	16	0.8	1.0
16 IR 1,75	1.75	16	0.9	1.2
16 IR 2,0	2.00	16	1.0	1.3
16 IR 2,5	2.50	16	1.1	1.5
16 IR 3,0	3.00	16	1.1	1.5

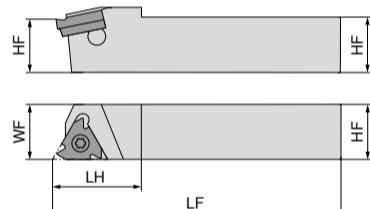
IR	71 224 ...		IR		71 224 ...	
	£	£		£	£	
142	20.12	14.08	742	22.44	15.71	
144	16.02	11.21	744	18.27	12.79	
148	16.02	11.21	746	19.23	13.46	
152	16.02	11.21	748	18.27	12.79	
154	16.02	11.21	750	22.44	15.71	
156	16.02	11.21	752	18.27	12.79	
			754	18.27	12.79	
			756	18.27	12.79	

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



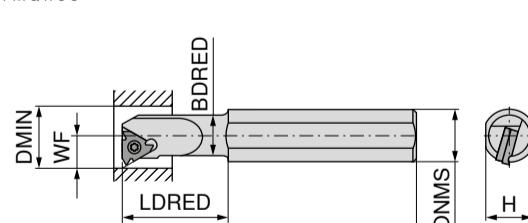
ISO designation	HF	WF	LF	LH	H	Insert	torque moment
	mm	mm	mm	mm	mm		Nm
SE R 12 12 F16	12	16	80	22	12	16 ..	3,5
SE R 16 16 H16	16	16	100	25	16	16 ..	3,5
SE R 20 20 K16	20	20	125	30	20	16 ..	3,5
SE R 25 25 M16	25	25	150	30	25	16 ..	3,5
SE R 32 32 P16	32	32	170	30	32	16 ..	3,5

Right-hand	71 280 ...	
	£	£
012	117.68	47.00
016	144.86	58.00
020	144.86	58.00
025	165.32	66.00
032	181.60	73.00

## Standard Internal Thread Turning Holder

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

WNT \ Performance

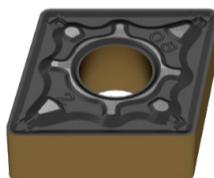


Illustrations show right-hand versions

ISO designation	H	LF	LDRED	DCONMS	BDRED	WF	DMIN	Insert	torque moment
	mm	mm	mm	mm	mm	mm	mm		Nm
SI L 0013 M16	14.0	150	32	16	13.0	10			



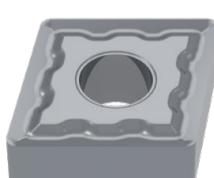
# TURNING TOOLS



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.

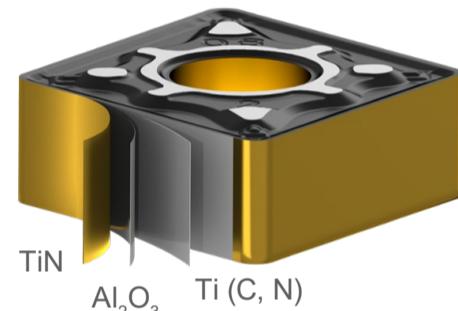
# Steel machining made easy

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:



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

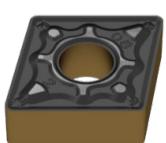
NEW



CTCP135-P

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

DRAGONSKIN



CTCP125-P

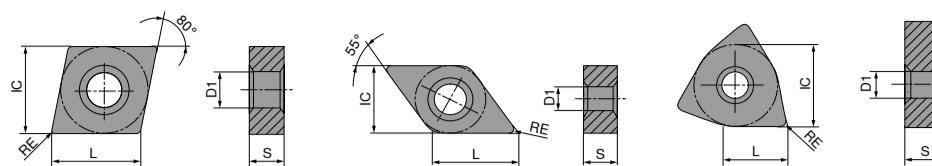
- ▲ ISO-P25
- ▲ Universal carbide grade for steel machining
- ▲ Excellent balance between toughness and elevated-temperature resistance
- ▲ High level of reliability for machining general steel
- ▲ Excellent for fluctuating cutting conditions, from finishing to roughing

DRAGONSKIN

DRAGONSKIN

## CNMG / DNMG / WNMG

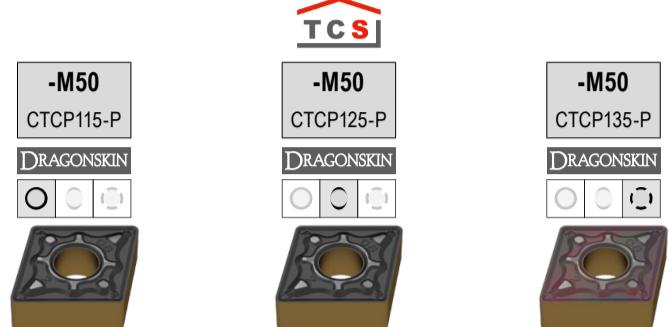
Designation	L mm	S mm	D1 mm	IC mm
CNMG 1204..	12.9	4.76	5.16	12.70
CNMG 1606..	16.1	6.35	6.35	15.87
DNMG 1104..	11.6	4.76	3.81	9.52
DNMG 1504..	15.5	4.76	5.16	12.70
DNMG 1506..	15.5	6.35	5.16	12.70
WNMG 0604..	6.5	4.76	3.81	9.52
WNMG 0804..	8.6	4.76	5.16	12.70



## 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

P  
M  
K  
N  
S  
H  
O

	M	76 135 ...	M	76 135 ...	M	76 135 ...		
32801	11.45	8.59	52801	11.45	8.59	72801	11.45	8.59
33001	11.45	8.59	53001	11.45	8.59	73001	11.45	8.59
32001	11.45	8.59	53201	11.45	8.59	73201	11.45	8.59
33401	11.45	8.59	53401	11.45	8.59	73401	11.45	8.59
34201	18.50	13.88	54201	18.50	13.88	74201	18.50	13.88
34401	18.50	13.88	54401	18.50	13.88	74401	18.50	13.88
34601	18.50	13.88	54601	18.50	13.88	74601	18.50	13.88

## 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

P  
M  
K  
N  
S  
H  
O

	M	76 136 ...	M	76 136 ...	M	76 136 ...		
30401	12.21	9.16	50401	12.21	9.16	70401	12.21	9.16
30601	12.21	9.16	50601	12.21	9.16	70601	12.21	9.16
30801	12.21	9.16	50801	12.21	9.16	70801	12.21	9.16
31601	14.81	11.11	51401	14.81	11.11	71601	14.81	11.11
31801	14.81	11.11	51801	14.81	11.11	71801	14.81	11.11
32001	14.81	11.11	51601	14.81	11.11	72001	14.81	11.11
32201	14.81	11.11	52201	14.81	11.11	72201	14.81	11.11
32801	16.04	12.03	52801	16.04	12.03	72801	16.04	12.03
33001	16.04	12.03	53001	16.04	12.03	73001	16.04	12.03
33201	16.04	12.03	53201	16.04	12.03	73201	16.04	12.03
33401	16.04	12.03	53401	16.04	12.03	73401	16.04	12.03

## 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

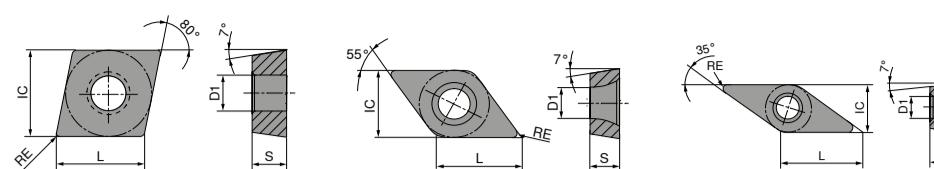
P  
M  
K  
N  
S  
H  
O

	M	76 139 ...	M	76 139 ...	M	76 139 ...		
30401	9.98	7.49	50401	9.98	7.49	70401	9.98	7.49
30601	9.98	7.49	50601	9.98	7.49	70601	9.98	7.49
30801	9.98	7.49	50801	9.98	7.49	70801	9.98	7.49
31601	12.56	9.42	51601	12.56	9.42	71601	12.56	9.42
31801	12.56	9.42	51801	12.56	9.42	71801	12.56	9.42
32001	12.56	9.42	52001	12.56	9.42	72001	12.56	9.42
32201	12.56	9.42	52201	12.56	9.42	72201	12.56	9.42



## CCMT / DCMT / VCMT

Designation	L mm	S mm	D1 mm	IC 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

**TCS**

-SM	-SM	-SM
CTCP115-P	CTCP125-P	CTCP135-P
DRAGOSKIN	DRAGOSKIN	DRAGOSKIN
<b>M</b>	<b>M</b>	<b>M</b>
<b>76 252 ...</b>	<b>76 252 ...</b>	<b>76 252 ...</b>
£	£	£
30401	50401	70401
30601	51601	70601
31601	51801	71601
31801	52801	71801
32801	53001	72801
33001	53201	73001
13.69	13.69	13.69
13.69	10.27	10.27
13.69	10.27	10.27
13.69	10.27	10.27

P M K N S H O

## DCMT

CERATIZIT \ Performance

**TCS**

-SM	-SM	-SM
CTCP115-P	CTCP125-P	CTCP135-P
DRAGOSKIN	DRAGOSKIN	DRAGOSKIN
<b>M</b>	<b>M</b>	<b>M</b>
<b>76 258 ...</b>	<b>76 258 ...</b>	<b>76 258 ...</b>
£	£	£
30401	50401	70401
30601	50601	70601
31601	51601	71601
31801	51801	71801
52001	52001	71801
10.96	10.96	10.96
10.96	8.22	8.22
10.96	8.22	8.22
10.96	8.22	8.22

P M K N S H O

## VCMT

CERATIZIT \ Performance

**TCS**

-SM	-SM	-SM
CTCP115-P	CTCP125-P	CTCP135-P
DRAGOSKIN	DRAGOSKIN	DRAGOSKIN
<b>M</b>	<b>M</b>	<b>M</b>
<b>76 278 ...</b>	<b>76 278 ...</b>	<b>76 278 ...</b>
£	£	£
32801	52801	72801
32901	53001	73001
33001	53201	73201
16.04	16.04	16.04
16.04	12.03	12.03
16.04	12.03	12.03
16.04	12.03	12.03

P M K N S H O



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guaranteed free express delivery

# STAINLESS STEEL MACHINING MADE EASY

## CNMG / DNMG / WNMG

Designation	L mm	S mm	D1 mm	IC mm
CNMG 1204..	12.9	4.76	5.16	12.70
DNMG 1104..	11.6	4.76	3.81	9.52
DNMG 1506..	15.5	6.35	5.16	12.70
WNMG 0604..	6.5	4.76	3.81	9.52
WNMG 0804..	8.6	4.76	5.16	12.70

## Dragonskin – new grades with the high-performance coating technology

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.



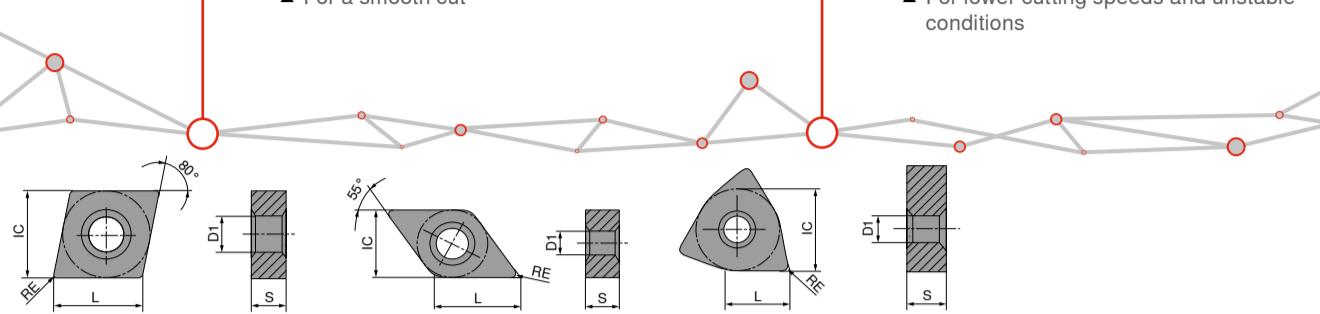
**CTCM120**

- ▲ 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

CERATIZIT \ Performance

ISO	RE mm
120408EN	0.8
120412EN	1.2
120416EN	1.6

P	M	K	N	S	H	O	M	M
							75 011 ...	75 011 ...
							£ 13000	£ 33000
							11.45	11.45
							8.59	8.59
							13200	33200
							11.45	11.45
							8.59	8.59
							13400	33400
							11.45	11.45
							8.59	8.59

**TCS**

-M30	CTCM120
DRAGOSKIN	○ ○ ○



**TCS**

-M30	CTCM130
DRAGOSKIN	○ ○ ○



## 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	M	M
							75 014 ...	75 014 ...
							£ 10600	£ 30600
							12.21	12.21
							9.16	9.16
							10800	30800
							12.21	12.21
							9.16	9.16
							13000	33000
							16.04	16.04
							12.03	12.03
							13200	33200
							16.04	16.04
							12.03	12.03

**TCS**

-M30	CTCM120
DRAGOSKIN	○ ○ ○



**TCS**

-M30	CTCM130
DRAGOSKIN	○ ○ ○



## 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	M	M
							75 025 ...	75 025 ...
							£ 10600	£ 30600
							9.98	9.98
							7.49	7.49
							10800	30800
							9.98	9.98
							7.49	7.49
							11800	31800
							12.56	12.56
							9.42	9.42
							12000	32000
							12.56	12.56
							9.42	9.42

**TCS**

-M30	CTCM120
DRAGOSKIN	○ ○ ○



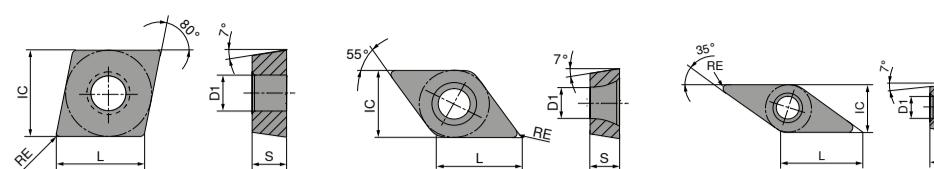
**TCS**

-M30	CTCM130
DRAGOSKIN	○ ○ ○



## CCMT / DCMT / VCMT

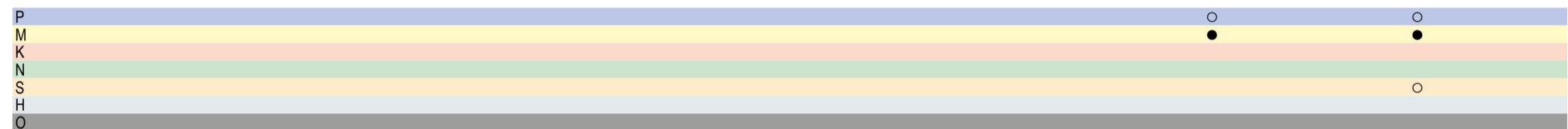
Designation	L mm	S mm	D1 mm	IC mm
CCMT 0602..	6.40	2.38	2.8	6.35
CCMT 09T3..	9.70	3.97	4.4	9.52
DCMT 0702..	7.75	2.38	2.8	6.35
DCMT 11T3..	11.60	3.97	4.4	9.52
VCMT 1604..	16.60	4.76	4.4	9.52



## CCMT

CERATIZIT \ Performance

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



TCS

-M25

CTCM120

DRAGONSKIN

○ ○ ○



TCS

-M25

CTCM130

DRAGONSKIN

○ ○ ○



F

75 210 ...

£ £

10400

7.70

5.84

11600

9.72

7.29

11800

9.72

7.29

F

75 210 ...

£ £

30400

7.70

5.84

31600

9.72

7.29

31800

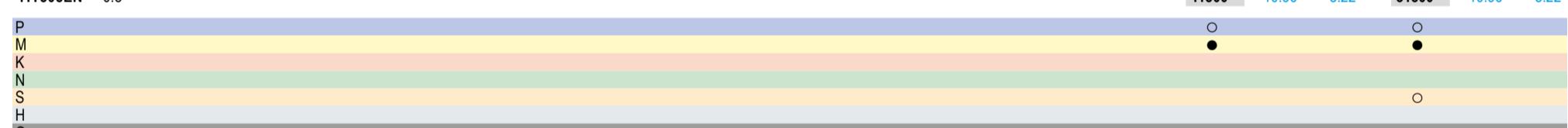
9.72

7.29

## DCMT

CERATIZIT \ Performance

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



TCS

-M25

CTCM120

DRAGONSKIN

○ ○ ○

TCS

-M25

CTCM130

DRAGONSKIN

○ ○ ○

F

75 213 ...

£ £

10200

7.70

5.84

10400

7.70

5.84

11400

10.96

8.22

11600

10.96

8.22

11800

10.96

8.22

F

75 213 ...

£ £

30200

7.70

5.84

30400

7.70

5.84

31400

10.96

8.22

31600

10.96

8.22

31800

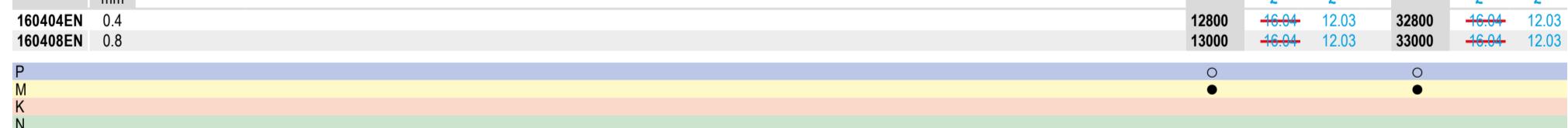
10.96

8.22

## VCMT

CERATIZIT \ Performance

ISO	RE mm
160404EN	0.4
160408EN	0.8



TCS

-M25

CTCM120

DRAGONSKIN

○ ○ ○

TCS

-M25

CTCM130

DRAGONSKIN

○ ○ ○

F

75 219 ...

£ £

12800

16.04

12.03

13000

16.04

12.03

F

75 219 ...

£ £

32800

16.04

12.03

33000

16.04

12.03



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# X7-Line

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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**

### Universal application range

P M K N S

### Application

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

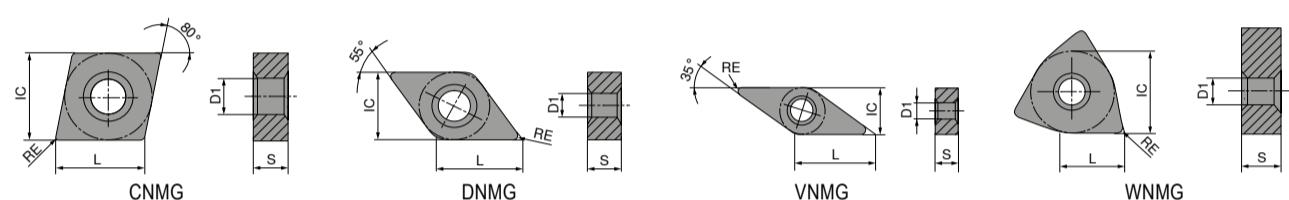
\*In future multiple  
procedures possible  
turning | grooving | milling



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
VNMG 1604..	16.6	4.76	3.81	9.52
WNMG 0804..	8.6	4.76	5.16	12.70

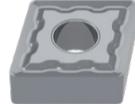
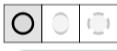


## CNMG

**TCS**

-M34  
CTPX710

DRAGOSKIN



**M**  
**75 003 ...**

ISO	RE mm	£	£
120404EN	0.4	10.77	8.08
120408EN	0.8	10.77	8.08
120412EN	1.2	10.77	8.08
120416EN	1.6	10.77	8.08

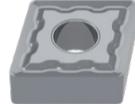
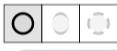
P	•
M	•
K	○
N	○
S	●
H	
O	

## VNMG

**TCS**

-M34  
CTPX710

DRAGOSKIN



**M**  
**75 009 ...**

ISO	RE mm	£	£
160404EN	0.4	10.61	14.71
160408EN	0.8	10.61	14.71
160412EN	1.2	10.61	14.71

P	•
M	•
K	○
N	○
S	●
H	
O	

## DNMG

**TCS**

-M34  
CTPX710

DRAGOSKIN



**M**  
**75 004 ...**

ISO	RE mm	£	£
150404EN	0.4	15.47	11.60
150408EN	0.8	15.47	11.60
150412EN	1.2	15.47	11.60
150608EN	0.8	16.95	12.71
150612EN	1.2	16.95	12.71

P	•
M	•
K	○
N	○
S	●
H	
O	

## WNMG

**TCS**

-M34  
CTPX710

DRAGOSKIN



**M**  
**75 008 ...**

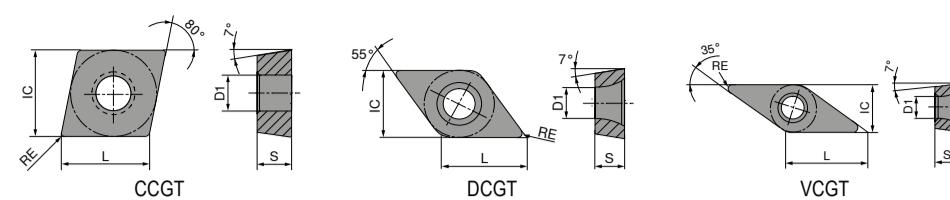
ISO	RE mm	£	£
080408EN	0.8	13.13	9.85
080412EN	1.2	13.13	9.85

P	•
M	•
K	○
N	○
S	●
H	
O	



## CCGT / DCGT / VCGT

Designation	L mm	S mm	D1 mm	IC 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 ...	£	£
060202FN	0.2	70200	13.02	9.77	
060204FN	0.4	70400	13.02	9.77	
09T302FN	0.2	71400	13.34	10.01	
09T304FN	0.4	71600	13.34	10.01	
09T308FN	0.8	71800	13.34	10.01	
120404FN	0.4	72800	17.03	12.77	
120408FN	0.8	73000	17.03	12.77	

P M K N S H O

**TCS****-25P**  
CTPX710

DRAGONSKIN



## VCGT

CERATIZIT \ Performance

ISO	RE mm	M	70 282 ...	£	£
110302FN	0.2	71400	17.38	13.04	
110304FN	0.4	71600	17.38	13.04	
160404FN	0.4	72800	21.54	16.16	
160408FN	0.8	73000	21.54	16.16	
160412FN	1.2	73200	21.54	16.16	
220530FN	3.0	75000	28.70	21.53	

P M K N S H O

**-25P**  
CTPX710

DRAGONSKIN



## DCGT

CERATIZIT \ Performance

ISO	RE mm	M	70 263 ...	£	£
070202FN	0.2	70200	11.79	8.84	
070204FN	0.4	70400	11.79	8.84	
11T302FN	0.2	71400	14.24	10.68	
11T304FN	0.4	71600	14.24	10.68	
11T308FN	0.8	71800	14.24	10.68	

P M K N S H O

**TCS****-25P**  
CTPX710

DRAGONSKIN



**High product availability  
thanks to state-of-the-art  
logistics**

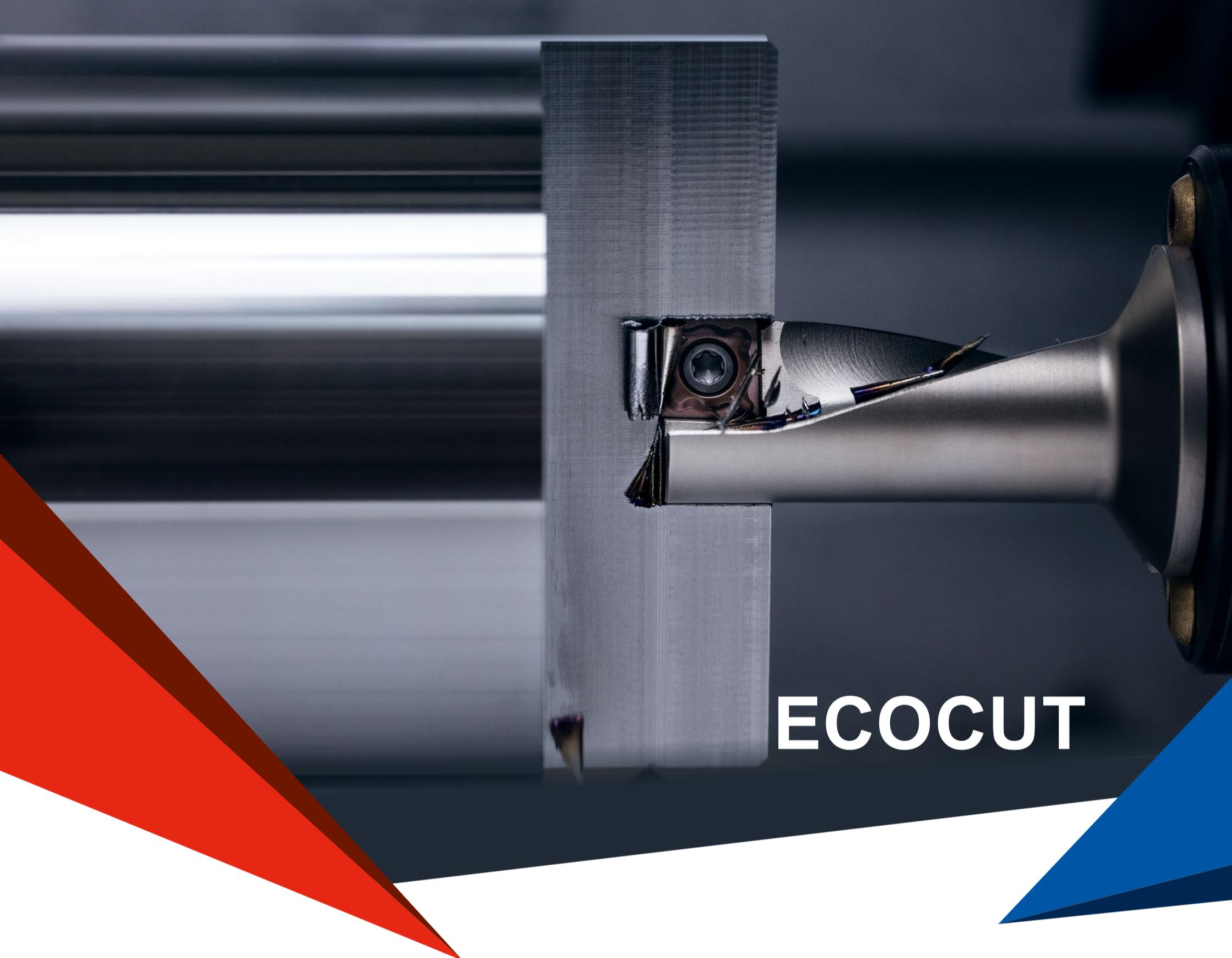
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# ECOCUT



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

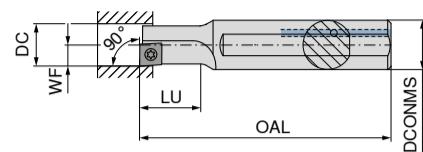
▲ Drilling and turning tool

**Scope of supply:**

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



CERATIZIT \ Performance



Illustrations show right-hand versions



Steel  
Left-hand



Steel  
Right-hand

ISO designation	DC mm	DCONMS mm	OAL mm	LU mm	WF mm	torque moment Nm	Insert
ECC 10 R/L 1,5D 05	10	12	90	15.0	5.0	0,7	XC.T 0502..
ECC 12 R/L 1,5D 06	12	16	100	18.0	6.0	1,0	XC.T 0602..
ECC 14 R/L 1,5D 07	14	16	110	21.0	7.0	1,2	XC.T 0703..
ECC 16 R/L 1,5D 08	16	20	125	24.0	8.0	2,2	XC.T 0803..
ECC 18 R/L 1,5D 09	18	25	135	27.0	9.0	2,2	XC.T 09T3..
ECC 20 R/L 1,5D 10	20	25	150	30.0	10.0	3,2	XC.T 10T3..
ECC 25 R/L 1,5D 13	25	32	180	37.5	12.5	5,0	XC.T 1304..
ECC 32 R/L 1,5D 17	32	40	200	48.0	16.0	5,0	XC.T 1705..

70 805 ...		70 804 ...			
	£	£	£		
010	159.46	61.00	010	159.46	61.00
012	162.07	62.00	012	162.07	62.00
014	165.98	63.00	014	165.98	63.00
016	168.59	64.00	016	168.59	64.00
018	174.44	74.00	018	174.44	74.00
020	219.20	84.00	020	219.20	84.00
025	252.77	96.00	025	252.77	96.00
032	286.56	109.00	032	286.56	109.00

## EcoCut – Classic 2.25xD

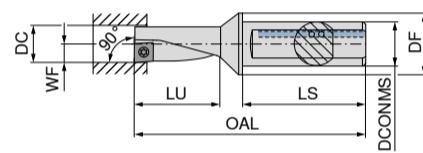
▲ Drilling and turning tool

**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

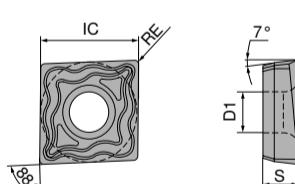
ISO designation	DC mm	DCONMS mm	OAL mm	LU mm	LS mm	WF mm	torque moment Nm	Insert
ECC 10 R/L 2,25D 05	10	12	69.5	22.5	42	5.0	0,7	XC.T 0502..
ECC 12 R/L 2,25D 06	12	16	78.0	27.0	45	6.0	1,0	XC.T 0602..
ECC 14 R/L 2,25D 07	14	16	83.5	31.5	45	7.0	1,2	XC.T 0703..
ECC 16 R/L 2,25D 08	16	20	94.0	36.0	50	8.0	2,2	XC.T 0803..
ECC 18 R/L 2,25D 09	18	25	109.5	40.5	56	9.0	2,2	XC.T 09T3..
ECC 20 R/L 2,25D 10	20	25	111.0	45.0	56	10.0	3,2	XC.T 10T3..
ECC 25 R/L 2,25D 13	25	32	129.0	56.5	60	12.5	5,0	XC.T 1304..
ECC 32 R/L 2,25D 17	32	40	158.0	72.0	70	16.0	5,0	XC.T 1705..

70 805 ...		70 804 ...			
	£	£	£		
110	237.24	90.00	110	237.24	90.00
112	243.75	93.00	112	243.75	93.00
114	249.07	95.00	114	249.07	95.00
116	254.28	97.00	116	254.28	97.00
118	280.13	107.00	118	280.13	107.00
120	304.00	116.00	120	304.00	116.00
125	354.00	135.00	125	354.00	135.00
132	398.00	152.00	132	398.00	152.00

## XCNT



**CERATIZIT \ Performance**



ISO designation	RE mm	S mm	D1 mm	IC mm
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



70 386 ...	
	£
923	15.51
903	15.51
924	15.51
904	15.51
905	15.51
906	15.74
907	15.97
908	16.70
938	16.70
910	19.19
940	19.19
912	20.29

P  
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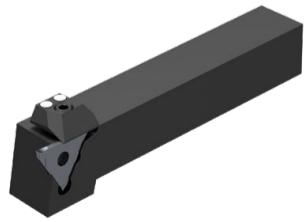
## GROOVING TOOLS



SX System – first choice system for parting off.



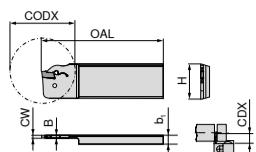
M1 – first choice chipbreaker for parting off.



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

**MonoClamp – Radial Blade SX reinforced**

CERATIZIT \ Performance



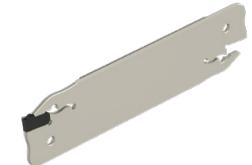
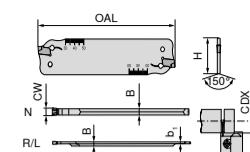
Illustrations show right-hand versions

ISO designation	CW mm	H mm	B mm	OAL mm	b <sub>1</sub> mm	CODX mm	CDX mm	for grooving inserts	70 879 ...	£	£
XLCF R 2608-SX3	3	26	2.5	110	8	44	22	SX .3..	013 <sup>1)</sup>	435.01	52.00
XLCF R 3208-SX3	3	32	2.5	110	8	66	33	SX .3..	003	427.60	49.00
XLCF L 3208-SX3	3	32	2.5	110	8	66	33	SX .3..	203	427.60	49.00
XLCF L 2608-SX3	3	26	2.5	110	8	44	22	SX .3..	213 <sup>1)</sup>	435.01	52.00
XLCF L 3208-SX4	4	32	3.4	110	8	66	33	SX .4..	204	427.60	49.00
XLCF R 3208-SX4	4	32	3.4	110	8	66	33	SX .4..	004	427.60	49.00

1) can be used in both directions

**MonoClamp – Radial Blade SX Standard**

CERATIZIT \ Performance



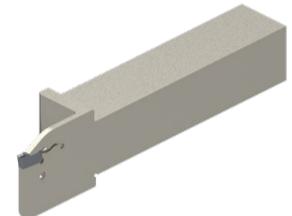
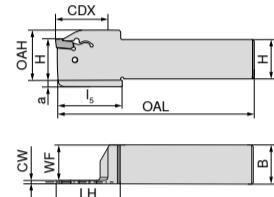
TCS

70 884 ...

ISO designation	CW mm	H mm	B mm	b <sub>1</sub> mm	OAL mm	CDX mm	for grooving inserts	70 884 ...	£	£
XLCF L 2602-SX2	2	26	2.4	1.5	110	25	SX .2..	212	88.60	34.00
XLCF L 3202-SX2	2	32	2.4	1.5	150	25	SX .2..	202	92.80	35.00
XLCF R 2602-SX2	2	26	2.4	1.5	110	25	SX .2..	012	88.60	34.00
XLCF R 3202-SX2	2	32	2.4	1.5	150	25	SX .2..	002	92.80	35.00
XLCF N 2603-SX3	3	26	2.4		110	35	SX .3..	113	88.60	34.00
XLCF N 3203-SX3	3	32	2.4		150	50	SX .3..	103	92.80	35.00
XLCF N 2604-SX4	4	26	3.2		110	40	SX .4..	114	88.60	34.00
XLCF N 3204-SX4	4	32	3.2		150	50	SX .4..	104	92.80	35.00

**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	I <sub>5</sub> mm	OAH mm	CDX mm	a mm
E25 R/L 0026-2525M-K-SX3	25	25	3	23.8	150	33		31	26	
E16 R/L 0026-1616K-K-SX2	16	16	2	15.2	125	32	33	26	26	4
E16 R/L 0026-1616K-K-SX3	16	16	3	14.8	125	32	33	26	26	4
E20 R/L 0026-2020K-K-SX2	20	20	2	19.2	125	32	33	31	26	5
E20 R/L 0026-2020K-K-SX3	20	20	3	18.8	125	32	33	31	26	5
E20 R/L 0033-2020K-K-SX4	20	20	4	18.3	125	39	40	32	33	5
E25 R 0033-2525M-K-SX4	25	25	4	23.3	150	41	42	37	33	5
E25 R/L 0040-2525M-K-SX5	25	25	5	22.9	150	48	49	38	40	6
E25 R/L 0040-2525M-K-SX6	25	25	6	22.4	150	48	49	38	40	6
E25 L 0033-2525M-K-SX4	25	25	4	23.3	150	41	42	36	33	5

Left-hand

70 846 ...

£ £

32501	125.78	48.00	32500	125.78	48.00
21601	101.03	38.00	21600	101.03	38.00
31601	101.03	38.00	31600	101.03	38.00
22001	118.58	45.00	22000	118.58	45.00
32001	118.58	45.00	32000	118.58	45.00
42001	118.58	45.00	42000	118.58	45.00
52501	125.78	48.00	52500	125.78	48.00
62501	125.78	48.00	62500	125.78	48.00
42501	125.78	48.00			

Right-hand

70 846 ...

£ £

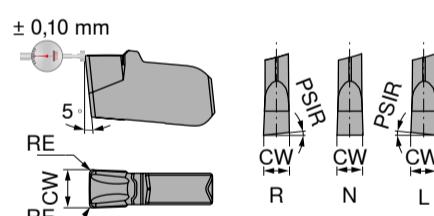
32500	125.78	48.00	32500	125.78	48.00
21600	101.03	38.00	21600	101.03	38.00
31600	101.03	38.00	31600	101.03	38.00
22000	118.58	45.00	22000	118.58	45.00
32000	118.58	45.00	32000	118.58	45.00
42000	118.58	45.00	42000	118.58	45.00
52500	125.78	48.00	52500	125.78	48.00
62500	125.78	48.00	62500	125.78	48.00

**Insert SX**

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



F M R



CERATIZIT \ Performance

TCS

-M1

CTP1340

DRAGONSKIN

○ □ ○



Designation IH CW ±0.05 mm

SX E2.00 L 6	L	2
SX E3.00 L 6	L	3
SX E4.00 L 6	L	4
SX E2.00 N 0.20	N	2
SX E3.00 N 0.20	N	3
SX E4.00 N 0.30	N	4
SX E2.00 R 6	R	2
SX E3.00 R 6	R	3
SX E4.00 R 6	R	4

P

M

K

N

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612	12.11	9.08

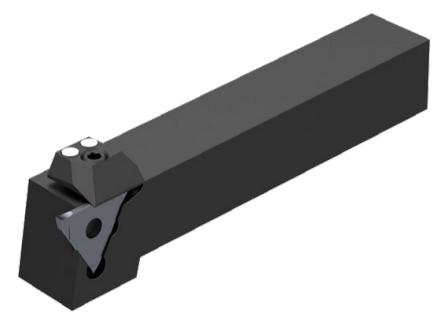
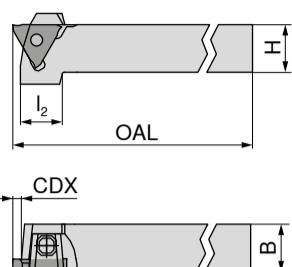


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**MonoClamp – Radial/Axial TX Grooving Holder 0°, 6 mm cutting depth**

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

CERATIZIT \ Performance

**TCS**

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

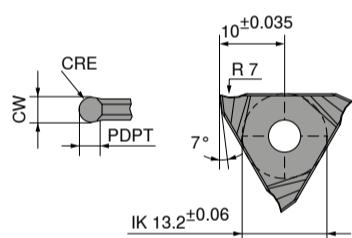
73 500 ...	£	£
112	213.64	81.00
116	190.68	73.00
120	147.87	56.00
125	155.61	59.00
212	213.64	81.00
216	190.68	73.00
220	147.87	56.00
225	155.61	59.00
312	213.64	81.00
316	190.68	73.00
320	147.87	56.00
325	155.61	59.00
332	180.86	69.00

**Radial TX insert for corner recessing**

- ▲ Full radius for cutting width 0.5–5.0 mm

CERATIZIT \ Performance

CWX500



Neutral

Designation	CRE mm	CW $\pm 0.05$ mm	PDPT mm
TX N 0010.20.2	1.0	2	0.7
TX N 0015.30.3	1.5	3	1.0

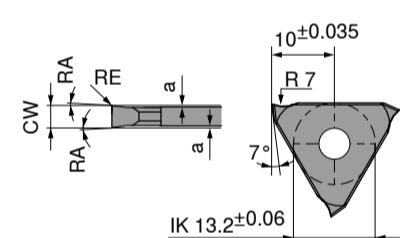
73 304 ...	£	£
204	51.25	28.19
206	54.19	29.80

**TX insert for circlip grooves**

- ▲ For circlip grooves according to DIN 471 / 472

CERATIZIT \ Performance

CWX500



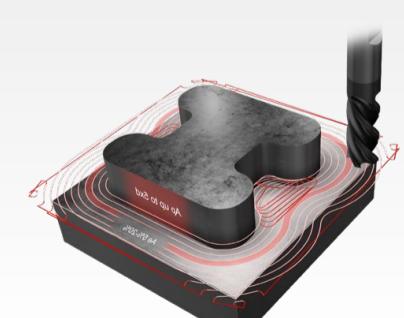
Neutral

Designation	CW $\pm 0.05$ mm	a $\pm 0.02$ mm
TX N 0050.00.1	0.57	0.07
TX N 0060.00.1	0.67	0.07
TX N 0070.00.1	0.77	0.08
TX N 0080.00.1	0.87	0.08
TX N 0090.00.1	0.97	0.08
TX N 0100.00.1	1.07	0.09
TX N 0110.00.1	1.24	0.15
TX N 0130.00.1	1.44	0.15
TX N 0160.00.1	1.74	0.20
TX N 0185.00.1	1.99	0.20
TX N 0215.00.2	2.29	0.20
TX N 0265.00.2	2.79	0.20
TX N 0315.00.3	3.29	0.20

**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.



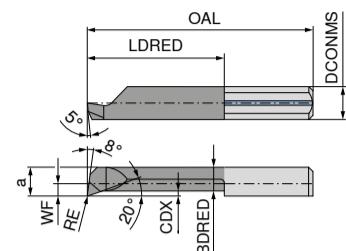
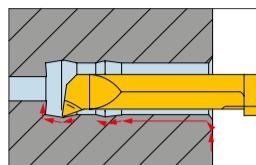
MiniCut system – for small diameter internal features from 8 mm onwards.

## UltraMini – Inserts for internal turning and profiling

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance



ISO designation	DCONMS <sub>h6</sub>	WF	DMIN	a	OAL	LDRED	CDX	BDRED	RE
	mm	mm	mm	mm	mm	mm	mm	mm	mm
R 050.2-5	4	2.0	1.7	19	5	0.1	1.5	0.05	
R 050.2-10	4	2.0	1.7	24	10	0.1	1.5	0.05	
R 050.2-15	4	2.0	1.7	29	15	0.1	1.5	0.05	
R 050.3-10	4	0.6	2.8	2.6	24	10	0.2	2.3	0.10
R 050.3-16	4	0.6	2.8	2.6	30	16	0.2	2.3	0.10
R 050.3-20	4	0.6	2.8	2.6	34	20	0.2	2.3	0.10
R 050.4-10	4	1.5	4.0	3.5	24	10	0.3	3.0	0.10
R 050.4-16	4	1.5	4.0	3.5	30	16	0.3	3.0	0.10
R 050.4-20	4	1.5	4.0	3.5	34	20	0.3	3.0	0.10
R 050.4-24	4	1.5	4.0	3.5	38	24	0.3	3.0	0.10
R 050.4-28	4	1.5	4.0	3.5	42	28	0.3	3.0	0.10
R 050.5-10	5	1.9	5.0	4.4	25	10	0.5	3.8	0.15
R 050.5-15	5	1.9	5.0	4.4	30	15	0.5	3.8	0.15
R 050.5-20	5	1.9	5.0	4.4	35	20	0.5	3.8	0.15
R 050.5-25	5	1.9	5.0	4.4	40	25	0.5	3.8	0.15
R 050.5-30	5	1.9	5.0	4.4	45	30	0.5	3.8	0.15
R 050.5-35	5	1.9	5.0	4.4	50	35	0.5	3.8	0.15
R 050.6-15	6	2.3	6.0	5.3	30	15	0.5	4.5	0.15
R 050.6-22	6	2.3	6.0	5.3	37	22	0.5	4.5	0.15
R 050.6-25	6	2.3	6.0	5.3	40	25	0.5	4.5	0.15
R 050.6-30	6	2.3	6.0	5.3	45	30	0.5	4.5	0.15
R 050.6-35	6	2.3	6.0	5.3	50	35	0.5	4.5	0.15
R 050.6-42	6	2.3	6.0	5.3	57	42	0.5	4.5	0.15
R 050.7-20	7	2.8	6.8	6.3	35	20	0.6	5.5	0.15
R 050.7-25	7	2.8	6.8	6.3	40	25	0.6	5.5	0.15
R 050.7-30	7	2.8	6.8	6.3	45	30	0.6	5.5	0.15
R 050.7-35	7	2.8	7.0	6.3	50	35	0.6	5.5	0.15
R 050.7-40	7	2.8	7.0	6.3	55	40	0.6	5.5	0.15
R 050.7-45	7	2.8	7.0	6.3	60	45	0.6	5.5	0.15
R 050.7-50	7	2.8	7.0	6.3	65	50	0.6	5.5	0.15

Right-hand	
73 004 ...	£
520	50.59 27.82
521	55.16 30.33
522	54.68 30.07
531	58.16 31.98
530	63.79 35.08
532	63.70 35.04
541	57.34 31.54
540	57.34 31.54
542	61.12 33.62
545	71.61 39.40
546	78.16 43.15
551	54.25 29.84
552	57.80 31.79
550	59.34 32.64
553	67.03 36.87
554	73.69 40.53
556	85.54 47.05
561	56.73 31.20
560	61.76 33.97
562	65.68 36.12
563	71.61 41.05
564	85.54 47.05
565	97.27 53.50
572	63.02 34.66
573	77.92 42.86
574	79.02 43.46
575	91.11 50.11
576	101.49 55.82
577	105.58 58.07
578	115.78 63.68

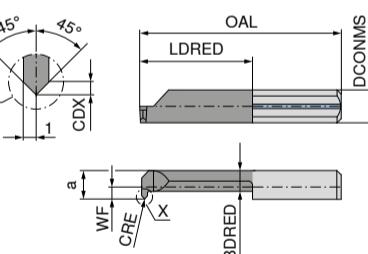
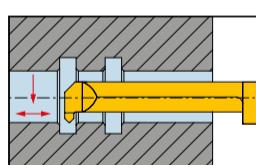
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## UltraMini – Inserts for internal turning and chamfering

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance



ISO designation	DCONMS <sub>h6</sub>	WF	DMIN	a	OAL	LDRED	CDX	BDRED	CRE
	mm	mm	mm	mm	mm	mm	mm	mm	mm
R 060.5-15	5	1.9	5.0	4.4	30	15	0.7	3.3	0.2
R 060.5-20	5	1.9	5.0	4.4	35	20	0.7	3.3	0.2
R 060.7-20	7	2.7	6.8	6.3	35	20	0.7	3.8	0.2

Right-hand	
73 006 ...	£
551	51.83 28.51
550	57.00 31.73
570	60.10 33.10

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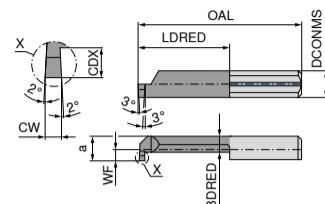
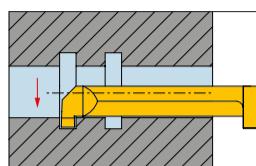


**UltraMini – Inserts for Internal Grooving**

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance

**TCS**

TiN



Right-hand

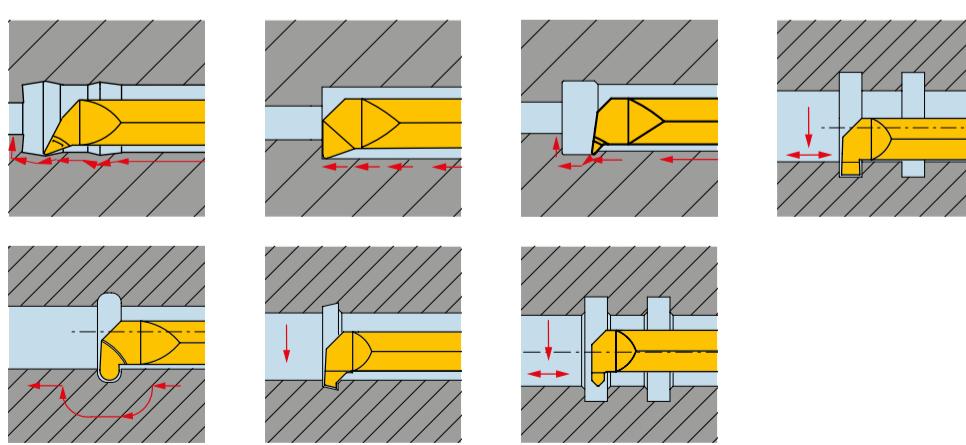
**73 002 ...**

ISO designation	DCONMS <sub>g6</sub>	WF	DMIN	a	OAL	LDRED	CDX	BDRED	CW	£	£
R 004.0100-10	4	1.5	4.0	3.5	24	10	0.8	2.4	1.0	540	51.08 28.09
R 004.0100-16	4	1.5	4.0	3.5	30	16	0.8	2.4	1.0	541	62.38 34.31
R 004.0100-20	4	1.5	4.0	3.5	34	20	0.8	2.4	1.0	542	67.24 36.98
R 005.0100-10	5	1.9	5.0	4.4	25	10	1.0	3.3	1.0	650	50.25 27.64
R 005.0150-10	5	1.9	5.0	4.4	25	10	1.0	3.3	1.5	654	52.02 28.61
R 005.0200-10	5	1.9	5.0	4.4	25	10	1.0	3.3	2.0	658	52.02 28.61
R 005.0100-15	5	1.9	5.0	4.4	30	15	1.0	3.3	1.0	651	58.07 32.38
R 005.0150-15	5	1.9	5.0	4.4	30	15	1.0	3.3	1.5	655	58.07 32.38
R 005.0200-15	5	1.9	5.0	4.4	30	15	1.0	3.3	2.0	659	58.07 32.38
R 005.0150-20	5	1.9	5.0	4.4	35	20	1.0	3.3	1.5	552	66.64 36.65
R 005.0100-20	5	1.9	5.0	4.4	35	20	1.0	3.3	1.0	551	66.64 36.65
R 005.0200-20	5	1.9	5.0	4.4	35	20	1.0	3.3	2.0	553	66.64 36.65
R 005.0100-25	5	1.9	5.0	4.4	40	25	1.0	3.3	1.0	652	73.84 40.61
R 005.0150-25	5	1.9	5.0	4.4	40	25	1.0	3.3	1.5	656	73.84 40.61
R 005.0200-25	5	1.9	5.0	4.4	40	25	1.0	3.3	2.0	750	74.32 40.88
R 005.0100-30	5	1.9	5.0	4.4	45	30	1.0	3.3	1.0	653	82.18 45.20
R 005.0150-30	5	1.9	5.0	4.4	45	30	1.0	3.3	1.5	657	82.18 45.20
R 005.0200-30	5	1.9	5.0	4.4	45	30	1.0	3.3	2.0	751	82.81 45.55
R 005.0100-35	5	1.9	5.0	4.4	50	35	1.0	3.3	1.0	680	89.70 49.34
R 006.0100-10	6	2.3	6.0	5.3	25	10	1.8	3.4	1.0	660	51.18 28.15
R 006.0150-10	6	2.3	6.0	5.3	25	10	1.8	3.4	1.5	664	49.01 26.96
R 006.0200-10	6	2.3	6.0	5.3	25	10	1.8	3.4	2.0	668	51.18 28.15
R 006.0100-15	6	2.3	6.0	5.3	30	15	1.8	3.4	1.0	661	59.34 32.64
R 006.0150-15	6	2.3	6.0	5.3	30	15	1.8	3.4	1.5	665	59.34 32.64
R 006.0200-15	6	2.3	6.0	5.3	30	15	1.8	3.4	2.0	669	59.34 32.64
R 006.0150-22	6	2.3	6.0	5.3	37	22	1.8	3.4	1.5	562	67.11 36.91
R 006.0100-22	6	2.3	6.0	5.3	37	22	1.8	3.4	1.0	561	67.11 36.91
R 006.0200-22	6	2.3	6.0	5.3	37	22	1.8	3.4	2.0	563	67.11 36.91
R 006.0100-25	6	2.3	6.0	5.3	40	25	1.8	3.4	1.0	662	74.32 40.88
R 006.0150-25	6	2.3	6.0	5.3	40	25	1.8	3.4	1.5	666	74.32 40.88
R 006.0200-25	6	2.3	6.0	5.3	40	25	1.8	3.4	2.0	760	74.32 40.88
R 006.0150-30	6	2.3	6.0	5.3	45	30	1.8	3.4	1.5	667	82.81 45.55
R 006.0100-30	6	2.3	6.0	5.3	45	30	1.8	3.4	1.0	663	82.81 45.55
R 006.0200-30	6	2.3	6.0	5.3	45	30	1.8	3.4	2.0	761	82.81 45.55
R 006.0150-35	6	2.3	6.0	5.3	50	35	1.8	3.4	1.5	684	89.70 49.34
R 006.0100-35	6	2.3	6.0	5.3	50	35	1.8	3.4	1.0	682	89.70 49.34
R 006.0100-42	6	2.3	6.0	5.3	57	42	1.8	3.4	1.0	685	100.72 55.40
R 007.0200-10	7	2.7	6.8	6.3	25	10	2.5	3.8	2.0	670	52.02 28.61
R 007.0100-10	7	2.7	6.8	6.3	25	10	2.5	3.8	1.0	570	52.02 28.61
R 007.0150-10	7	2.7	6.8	6.3	25	10	2.5	3.8	1.5	575	52.02 28.61
R 007.0150-15	7	2.7	6.8	6.3	30	15	2.5	3.8	1.5	576	59.37 32.98
R 007.0100-15	7	2.7	6.8	6.3	30	15	2.5	3.8	1.0	571	59.37 32.98
R 007.0200-15	7	2.7	6.8	6.3	30	15	2.5	3.8	2.0	671	57.35 31.54
R 007.0200-22	7	2.7	6.8	6.3	37	22	2.5	3.8	2.0	672	60.50 37.68
R 007.0100-22	7	2.7	6.8	6.3	37	22	2.5	3.8	1.0	572	60.50 37.68
R 007.0150-22	7	2.7	6.8	6.3	37	22	2.5	3.8	1.5	577	60.50 37.68
R 007.0150-25	7	2.7	6.8	6.3	40	25	2.5	3.8	1.5	578	75.11 41.31
R 007.0100-25	7	2.7	6.8	6.3	40	25	2.5	3.8	1.0	573	75.11 41.31
R 007.0200-25	7	2.7	6.8	6.3	40	25	2.5	3.8	2.0	673	74.01 40.71
R 007.0150-30	7	2.7	6.8	6.3	45	30	2.5	3.8	1.5	579	81.52 44.84
R 007.0100-30	7	2.7	6.8	6.3	45	30	2.5	3.8	1.0	574	84.21 46.32
R 007.0200-30	7	2.7	6.8	6.3	45	30	2.5	3.8	2.0	674	70.02 43.46
R 007.0100-35	7	2.7	7.0	6.3	50	35	2.5	3.8	1.0	688	92.23 50.73
R 007.0150-35	7	2.7	7.0	6.3	50	35	2.5	3.8	1.5	690	92.23 50.73
R 007.0200-35	7	2.7	7.0	6.3	50	35	2.5	3.8	2.0	692	92.23 50.73
R 007.0150-40	7	2.7	7.0	6.3	55	40	2.5	3.8	1.5	702	102.28 56.25
R 007.0100-40	7	2.7	7.0	6.3	55	40	2.5	3.8	1.0	700	102.28 56.25
R 007.0100-45	7	2.7	7.0	6.3	60	45	2.5	3.8	1.0	712	111.10 61.11
R 007.0100-50	7	2.7	7.0	6.3	65	50	2.5	3.8	1.0	714	140.78 65.33

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## Internal turning and profiling, grooving and chamfering

From Diameter 2.0 mm onwards



Minature turning tools guide (Main catalogue 2021)

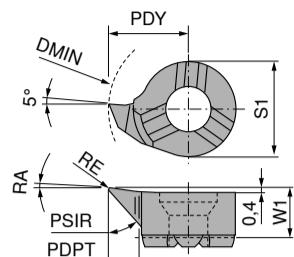
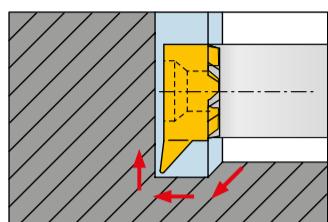
Cutting Data

**MiniCut – Internal undercut insert**▲ CDX =  $a_{p\max}$  (material dependant)

WNT \ Performance



CWX500



Size	ISO designation	DMIN mm	PDPT mm	W1 mm	PDY mm	S1 mm	RE mm	CDX mm	PSIR °	RA °
08	8,00. R. 30°.1,0	7.8	1.0	3.5	4.65	6	0.2	0.4	30	3
	8,00. R. 47°.1,2	7.8	1.2	3.5	4.65	6	0.2	0.4	47	3
11	11,00. R. 30°.2,3	11.0	2.3	4.2	6.70	8	0.2	0.6	30	3
	11,00. R. 47°.2,3	11.0	2.3	4.2	6.70	8	0.2	0.6	47	3
14	13,70. R. 47°.3,0	13.7	3.0	5.3	8.70	9	0.2	0.8	47	3
	13,70. R. 30°.4,0	13.7	4.0	5.3	8.70	9	0.2	0.8	30	3

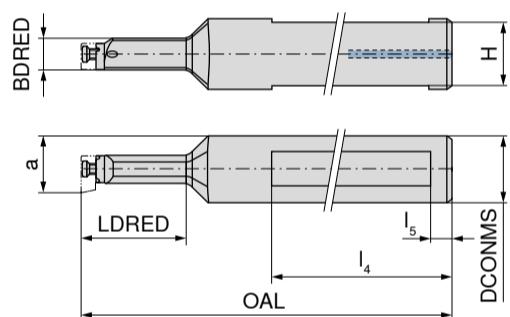
Right-hand

	73 326 ...	£	£
010	47.10	25.95	
012	40.99	22.54	
423	46.00	25.34	
323	39.00	21.95	
530	40.99	22.54	
540	47.10	25.95	

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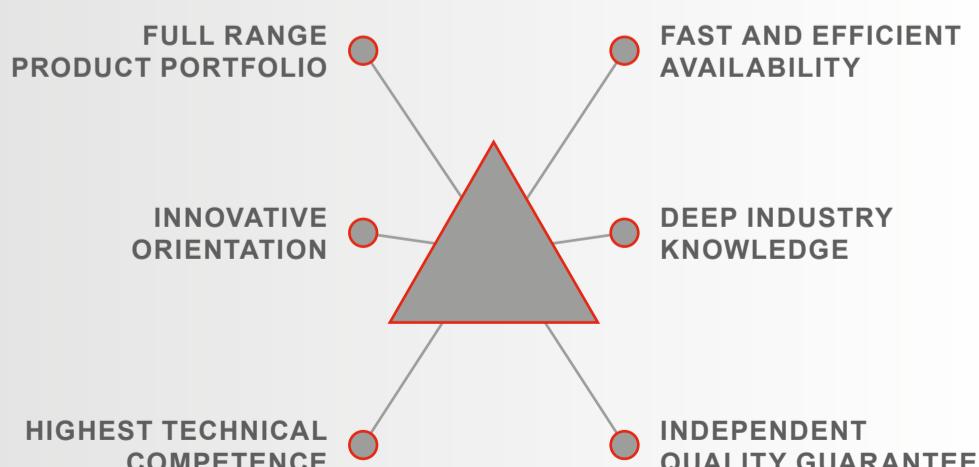
**MiniCut – Steel Tool holder**

WNT \ Performance



Designation	a mm	DCONMS mm	OAL mm	I <sub>4</sub> mm	LDRED mm	BDRED mm	H mm	I <sub>5</sub> mm
8,00/16.N.12.1,0	7.8	16	80	60	12	6	15.0	5
8,00/16.N.22.1,0	7.8	16	90	60	22	6	15.0	5
11,00/16.N.16.2,3	10.7	16	97	60	16	8	14.5	5
11,00/16.N.29.2,3	10.7	16	110	60	29	8	14.5	5
14,00/16.N.18.4,0	13.8	16	100	60	18	11	14.5	5
14,00/16.N.38.4,0	13.8	16	120	60	38	11	14.5	5

	73 522 ...	£	£
012	241.13	80.00	
122	242.27	92.00	
016	241.13	80.00	
129	242.27	92.00	
018	242.27	92.00	
138	242.27	92.00	

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## Optimised core geometry

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

## Latest Dragonskin coating

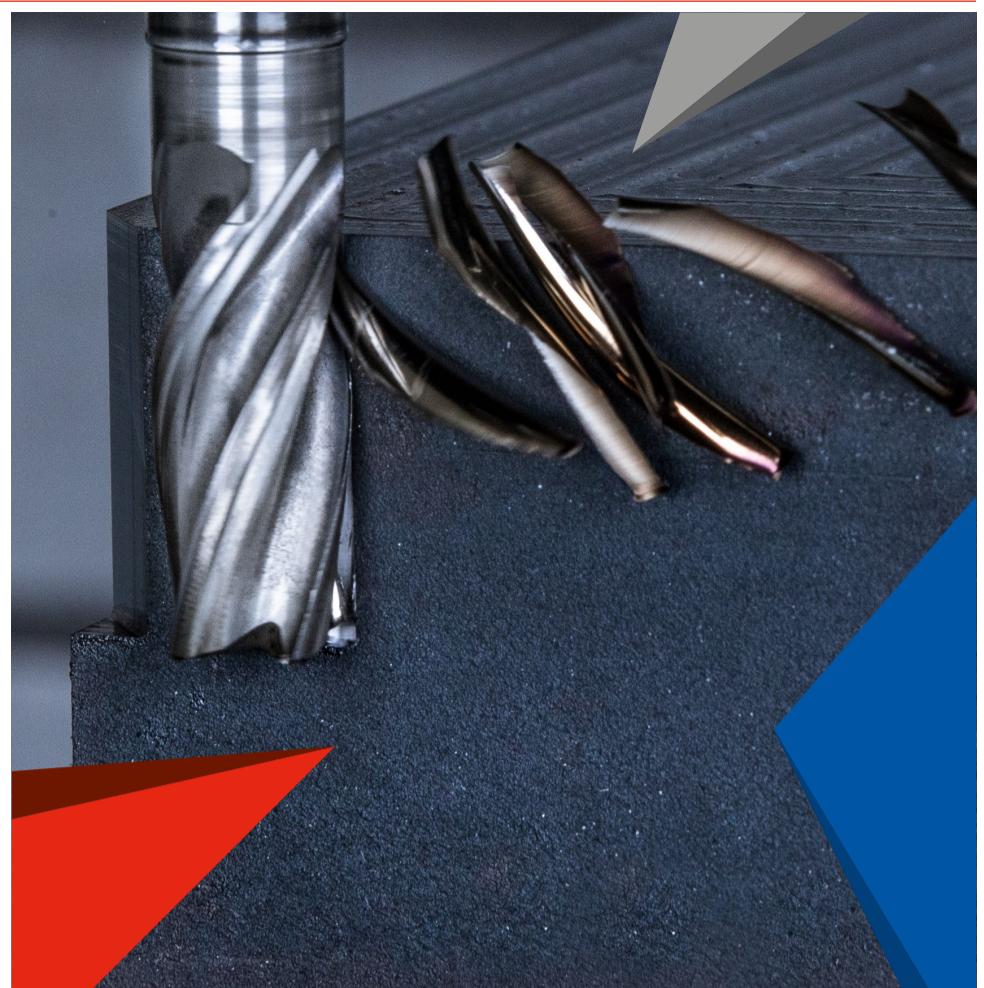
- ▲ Processing of almost all materials
- ▲ Increased temperature resistance
- ▲ Wet and dry machining

## Improved chip clearance

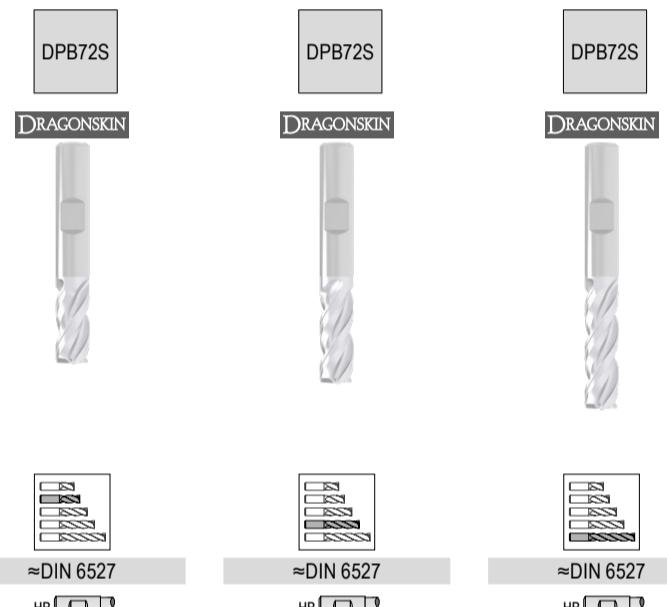
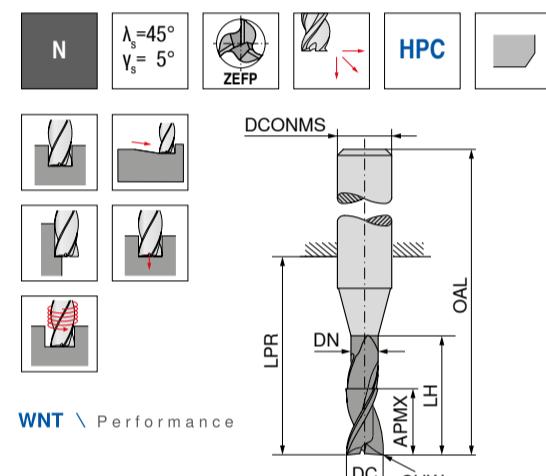
- ▲ Smoother processing
- ▲ Lower forces during chip formation
- ▲ Reduced heat generation

## Expanded product range

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



## SilverLine – End milling cutter

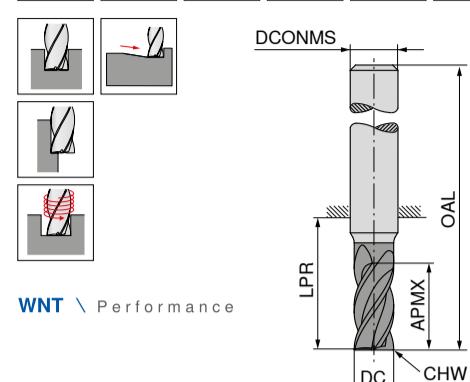


DC <sub>f8</sub> mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> mm	CHW mm	ZEFP
3.0	8	2.9	15	21	57	6	0.1	3
3.5	11	3.4	16	21	57	6	0.1	3
4.0	8	3.9	15	18	54	6	0.1	3
4.0	11	3.9	16	21	57	6	0.1	3
4.0	16		26	62	6	0.1	3	
4.5	13	4.4	19	21	57	6	0.1	3
5.0	9	4.9	16	18	54	6	0.1	3
5.0	13	4.9	19	21	57	6	0.1	3
5.0	17		26	62	6	0.1	3	
5.5	13	5.4	19	21	57	6	0.1	3
6.0	10	5.9	17	18	54	6	0.2	3
6.0	13	5.9	19	21	57	6	0.2	3
6.0	18		26	62	6	0.2	3	
6.5	19	6.3	25	27	63	8	0.2	3
7.0	19	6.8	25	27	63	8	0.2	3
7.5	19	7.3	25	27	63	8	0.2	3
8.0	12	7.8	20	22	58	8	0.2	3
8.0	19	7.8	25	27	63	8	0.2	3
8.0	24		32	68	8	0.2	3	
8.5	22	8.2	30	32	72	10	0.2	3
9.0	22	8.7	30	32	72	10	0.2	3
9.5	22	9.2	30	32	72	10	0.2	3
10.0	14	9.7	24	26	66	10	0.2	3
10.0	22	9.7	30	32	72	10	0.2	3
10.0	30		40	80	10	0.2	3	
12.0	16	11.7	26	28	73	12	0.2	3
12.0	26	11.7	36	38	83	12	0.2	3
12.0	36		48	93	12	0.2	3	
14.0	18	13.7	28	30	75	14	0.2	3
14.0	26	13.7	36	38	83	14	0.2	3
14.0	42		54	99	14	0.2	3	
16.0	22	15.5	32	34	82	16	0.2	3
16.0	32	15.5	42	44	92	16	0.2	3
16.0	48		60	108	16	0.2	3	
18.0	24	17.5	34	36	84	18	0.2	3
18.0	32	17.5	42	44	92	18	0.2	3
18.0	54		66	114	18	0.2	3	
20.0	26	19.5	40	42	92	20	0.2	3
20.0	38	19.5	52	54	104	20	0.2	3
20.0	60		76	126	20	0.2	3	

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



## SilverLine – End milling cutter



DC <sub>fs</sub>	APMX	LPR	OAL	DCONMS <sub>h6</sub>	CHW	ZEFP
mm	mm	mm	mm	mm	mm	
3.0	5	14	50	6	0.1	4
3.0	8	21	57	6	0.1	4
3.5	8	18	54	6	0.1	4
3.5	11	21	57	6	0.1	4
4.0	8	18	54	6	0.1	4
4.0	11	21	57	6	0.1	4
4.5	9	18	54	6	0.1	4
4.5	13	21	57	6	0.1	4
5.0	9	18	54	6	0.1	4
5.0	13	21	57	6	0.1	4
5.5	10	18	54	6	0.1	4
5.5	13	21	57	6	0.1	4
6.0	10	18	54	6	0.1	4
6.0	13	21	57	6	0.1	4
7.0	12	22	58	8	0.2	4
7.0	21	27	63	8	0.2	4
8.0	12	22	58	8	0.2	4
8.0	21	27	63	8	0.2	4
9.0	14	26	66	10	0.2	4
9.0	22	32	72	10	0.2	4
10.0	14	26	66	10	0.2	4
10.0	22	32	72	10	0.2	4
11.0	16	28	73	12	0.3	4
11.0	26	38	83	12	0.3	4
12.0	16	28	73	12	0.3	4
12.0	26	38	83	12	0.3	4
14.0	16	28	73	14	0.3	4
14.0	26	38	83	14	0.3	4
15.0	22	34	82	16	0.3	4
15.0	36	44	92	16	0.3	4
16.0	22	34	82	16	0.3	4
16.0	36	44	92	16	0.3	4
17.0	22	34	82	18	0.3	4
17.0	36	44	92	18	0.3	4
18.0	22	34	82	18	0.3	4
18.0	36	44	92	18	0.3	4
19.0	26	42	92	20	0.3	4
19.0	41	54	104	20	0.3	4
20.0	26	42	92	20	0.3	4
20.0	41	54	104	20	0.3	4

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

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## CB-CERATIZIT

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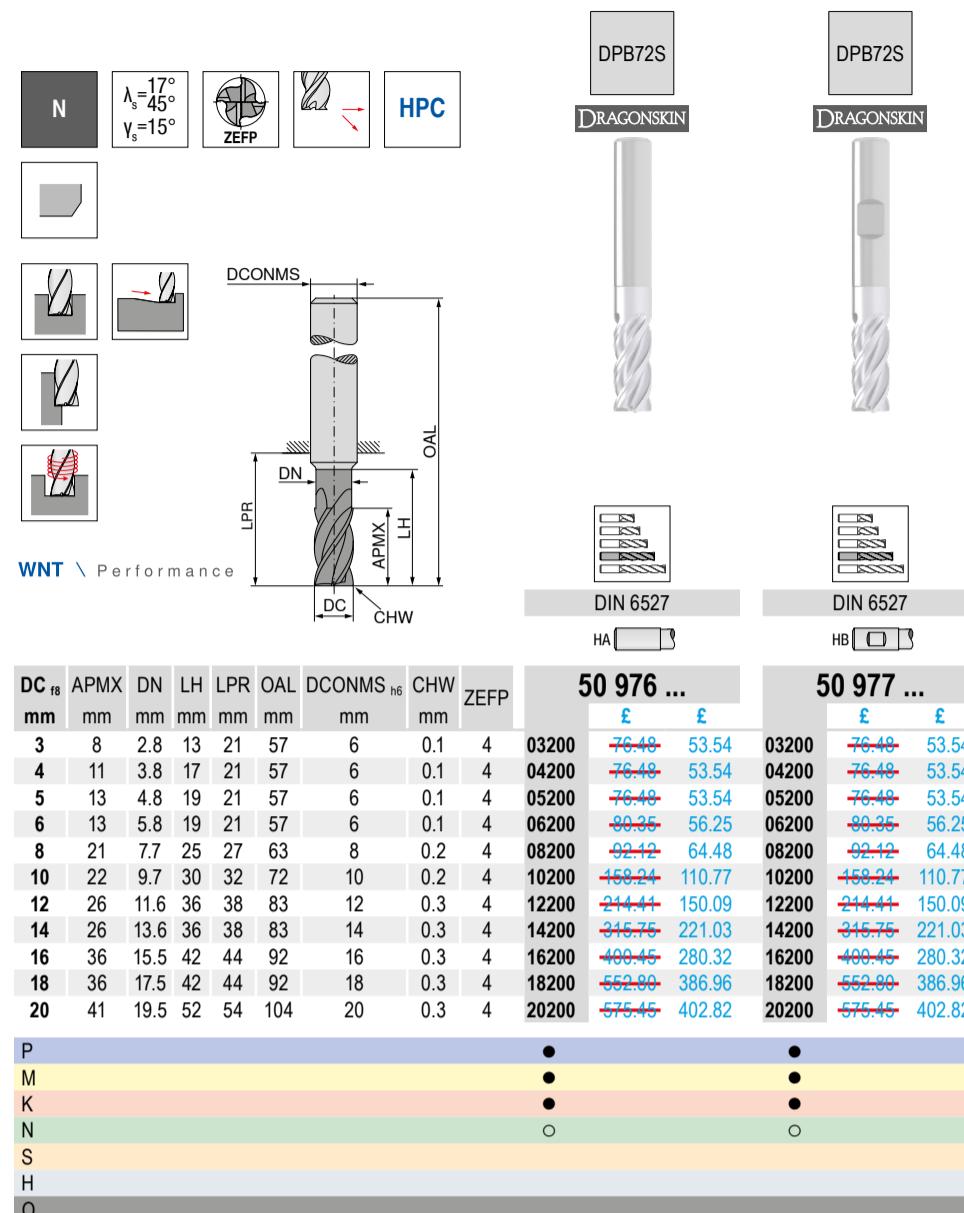
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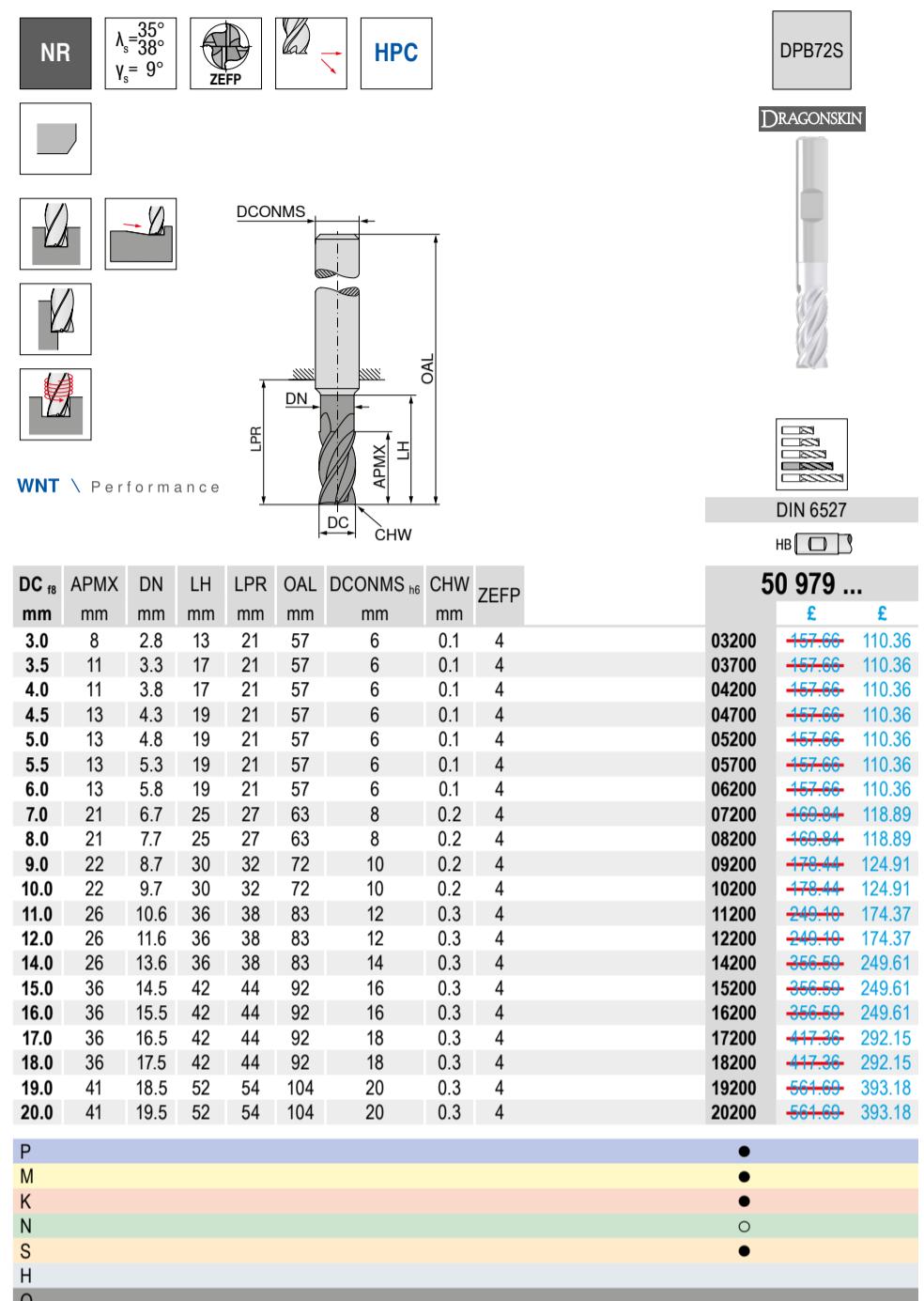
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**SilverLine – End milling cutter**

▲ Especially for high-volume milling

**SilverLine – Rough milling cutter**

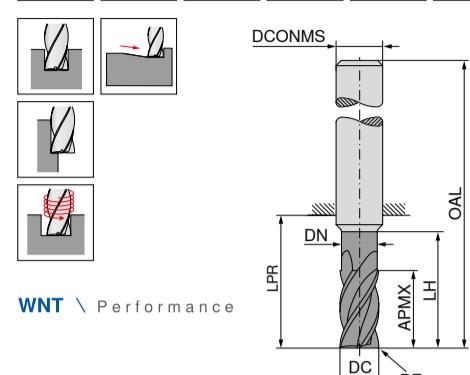
▲ With roughing profile



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→ see page 72



## SilverLine – End milling cutter with corner radius



DPB72S

DRAGONSKIN

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DRAGONSKIN

DC mm	RE mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS h6	ZEFP
3	0.10	8.0	2.8	13	21	57	6	4
3	0.40	8.0	2.8	13	21	57	6	4
3	0.50	8.0	2.8	13	21	57	6	4
3	1.00	8.0	2.8	13	21	57	6	4
3	0.50	6.5	2.8	15	22	58	6	4
3	0.30	6.5	2.8	15	22	58	6	4
3	0.80	6.5	2.8	15	22	58	6	4
4	0.40	11.0	3.8	17	21	57	6	4
4	0.10	11.0	3.8	17	21	57	6	4
4	0.50	11.0	3.8	17	21	57	6	4
4	1.00	11.0	3.8	17	21	57	6	4
4	0.50	8.5	3.8	20	26	62	6	4
4	0.40	8.5	3.8	20	26	62	6	4
4	0.80	8.5	3.8	20	26	62	6	4
5	1.00	13.0	4.8	19	21	57	6	4
5	0.10	13.0	4.8	19	21	57	6	4
5	0.50	13.0	4.8	19	21	57	6	4
5	0.80	10.5	4.8	25	34	70	6	4
5	0.50	10.5	4.8	25	34	70	6	4
6	1.00	13.0	5.8	19	21	57	6	4
6	0.10	13.0	5.8	19	21	57	6	4
6	0.50	13.0	5.8	19	21	57	6	4
6	1.50	13.0	5.8	19	21	57	6	4
6	0.80	13.0	5.8	30	34	70	6	4
6	0.60	13.0	5.8	30	34	70	6	4
6	1.00	13.0	5.8	30	34	70	6	4
8	0.50	21.0	7.7	25	27	63	8	4
8	0.15	21.0	7.7	25	27	63	8	4
8	1.00	21.0	7.7	25	27	63	8	4
8	1.50	21.0	7.7	25	27	63	8	4
8	2.00	21.0	7.7	25	27	63	8	4
8	1.50	17.0	7.7	40	44	80	8	4
8	0.80	17.0	7.7	40	44	80	8	4
8	1.00	17.0	7.7	40	44	80	8	4
8	2.00	17.0	7.7	40	44	80	8	4
10	0.15	22.0	9.7	30	32	72	10	4
10	0.50	22.0	9.7	30	32	72	10	4
10	1.00	22.0	9.7	30	32	72	10	4
10	1.50	22.0	9.7	30	32	72	10	4
10	2.00	22.0	9.7	30	32	72	10	4
10	1.50	21.0	9.7	50	54	94	10	4
10	0.50	21.0	9.7	50	54	94	10	4
10	1.00	21.0	9.7	50	54	94	10	4
10	2.00	21.0	9.7	50	54	94	10	4
12	0.20	26.0	11.6	36	38	83	12	4
12	0.50	26.0	11.6	36	38	83	12	4
12	1.00	26.0	11.6	36	38	83	12	4
12	1.50	26.0	11.6	36	38	83	12	4
12	2.00	26.0	11.6	36	38	83	12	4
12	3.00	26.0	11.6	36	38	83	12	4
12	4.00	26.0	11.6	36	38	83	12	4
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				



Technical support: 0800 073 2 075

3 time served engineers,

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



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## SilverLine – End milling cutter

**N**  $\lambda_s = 37^\circ$   $\lambda_s = 38^\circ$   $\gamma_s = 9^\circ$  **ZEFP** **HPC**

**WNT \ Performance**

DC $\text{ø}_8$	APMX	LPR	OAL	DCONMS $h_6$	$\alpha^\circ$	ZEFP
mm	mm	mm	mm	mm		
6	10	18	54	6	45	5
8	12	22	58	8	45	5
10	14	26	66	10	45	5
12	16	28	73	12	45	5
16	22	34	82	16	45	5
20	26	42	92	20	45	5

**50 993 ...** **50 995 ...**

06100	£ 44.88	£ 31.42	06100	£ 44.88	£ 31.42
08100	59.65	41.76	08100	59.65	41.76
10100	77.84	54.49	10100	77.84	54.49
12100	123.04	86.13	12100	123.04	86.13
16100	195.26	136.68	16100	195.26	136.68
20100	201.20	210.84	20100	201.20	210.84

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

## SilverLine – End milling cutter

**N**  $\lambda_s = 37^\circ$   $\lambda_s = 38^\circ$   $\gamma_s = 9^\circ$  **ZEFP** **HPC**

**WNT \ Performance**

DC $\text{ø}_8$	APMX	DN	LH	LPR	OAL	DCONMS $h_6$	$\alpha^\circ$	ZEFP
mm	mm	mm	mm	mm	mm	mm		
6	13	5.8	19	21	57	6	45	5
8	21	7.7	25	27	63	8	45	5
10	22	9.7	30	32	72	10	45	5
12	26	11.6	36	38	83	12	45	5
16	36	15.5	42	44	92	16	45	5
20	41	19.5	52	54	104	20	45	5

**50 994 ...** **50 996 ...**

06200	£ 44.44	£ 31.11	06200	£ 44.44	£ 31.11
08200	60.61	42.45	08200	60.61	42.45
10200	88.76	62.13	10200	88.76	62.13
12200	108.08	75.64	12200	108.08	75.64
16200	251.04	175.73	16200	251.04	175.73
20200	343.43	240.40	20200	343.43	240.40

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

## SilverLine – End milling cutter with corner radius

**N**  $\lambda_s = 37^\circ$   $\lambda_s = 38^\circ$   $\gamma_s = 9^\circ$  **ZEFP** **HPC**

**WNT \ Performance**

DC $\text{ø}_8$	RE $\pm 0.01$	APMX	LPR	OAL	DCONMS $h_6$	$\alpha^\circ$	ZEFP
mm	mm	mm	mm	mm	mm		
6	0.2	13	21	57	6	5	
6	0.5	13	21	57	6	5	
6	1.0	13	21	57	6	5	
8	0.2	21	27	63	8	5	
8	0.5	21	27	63	8	5	
8	1.0	21	27	63	8	5	
8	1.5	21	27	63	8	5	
10	0.2	22	32	72	10	5	
10	0.5	22	32	72	10	5	
10	1.0	22	32	72	10	5	
10	1.5	22	32	72	10	5	
10	2.0	22	32	72	10	5	
12	0.3	26	38	83	12	5	
12	0.5	26	38	83	12	5	
12	1.0	26	38	83	12	5	
12	1.5	26	38	83	12	5	
12	2.0	26	38	83	12	5	
12	2.5	26	38	83	12	5	
16	0.3	36	44	92	16	5	
16	0.5	36	44	92	16	5	
16	1.0	36	44	92	16	5	
16	1.5	36	44	92	16	5	
16	2.0	36	44	92	16	5	
16	2.5	36	44	92	16	5	
16	3.0	36	44	92	16	5	
20	0.3	41	54	104	20	5	
20	0.5	41	54	104	20	5	
20	1.0	41	54	104	20	5	
20	1.5	41	54	104	20	5	
20	1.6	41	54	104	20	5	
20	2.0	41	54	104	20	5	
20	2.5	41	54	104	20	5	
20	3.0	41	54	104	20	5	
20	4.0	41	54	104	20	5	

**50 997 ...** **50 998 ...**

06202	£ 63.95	£ 44.77	06202	£ 63.95	£ 44.77
06205	63.95	44.77	06205	63.95	44.77
06210	63.95	44.77	06210	63.95	44.77
08202	80.26	56.18	08202	80.26	56.18
08205	80.26	56.18	08205	80.26	56.18
08210	80.26	56.18	08210	80.26	56.18
08215	80.26	56.18	08215	80.26	56.18
10202	100.22	70.15	10202	100.22	70.15
10205	100.22	70.15	10205	100.22	70.15
10210	100.22	70.15	10210	100.22	70.15
10215	100.22	70.15	10215	100.22	70.15
10220	100.22	70.15	10220	100.22	70.15
12203	151.79	108.35	12203	151.79	108.35
12205	151.79	108.35	12205	151.79	108.35
12210	151.79	108.35	12210	151.79	108.35
12215	151.79	108.35	12215	151.79	108.35
12220	151.79	108.35	12220	151.79	108.35
12225	151.79	108.35	12225	151.79	108.35
12230	151.79	108.35	12230	151.79	108.35
12235	151.79	108.35	12235	151.79	108.35
16203	231.17	163.92	16203	231.17	163.92
16205	231.17	163.92	16205	231.17	163.92
16210	231.17	163.92	16210	231.17	163.92
16215	231.17	163.92	16215	231.17	163.92
16220	231.17	163.92	16220	231.17	163.92
16225	231.17	163.92	16225	231.17	163.92
16230	231.17	163.92	16230	231.17	163.92
20203	350.71	245.50	20203	350.71	245.50
20205	350.71	245.50	20205	350.71	245.50
20210	350.71	245.50	20210	350.71	245.50
20215	350.71	245.50	20215	350.71	245.50
20216	350.71	245.50	20216	350.71	245.50
20220	350.71	245.50	20220	350.71	245.50
20225	350.71	245.50	20225	350.71	245.50
20230	350.71	245.50	20230	350.71	245.50
20240	350.71	245.50	20240	350.71	245.50

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

## SilverLine – High Accuracy Finish Milling Cutter

$\Delta$  max. taper of 0.005 mm for high precision and parallelism of vertical walls  
 $\Delta$  Tool with cutting edge correction

**N**  $\lambda_s = 48^\circ$   $\lambda_s = 50^\circ$   $\gamma_s = 13^\circ$  **ZEFP**

**WNT \ Performance**

DC $\text{ø}_8$	APMX	DN	LH	LPR	OAL	DCONMS $h_5$	$\alpha^\circ$	ZEFP
mm	mm	mm	mm	mm	mm	mm		
6	13	5.6	19	21				

## SilverLine – Ball Nosed Cutter

**N**  $\lambda_s = 30^\circ$   $\gamma_s = 6^\circ$  ZEFP

WNT \ Performance

DPB72S DRAGOSKIN DRAGOSKIN

Factory standard							Factory standard														
DC <sub>fs</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	ZEFP	HA	DC <sub>fs</sub>	APMX	LPR	OAL	DCONMS <sub>h6</sub>	ZEFP	HA						
3	4	2.8	10.0	14	50	6	2	03115	4	11	21	57	6	4	03415	5	13	21	57	6	4
3	7	3.0	8.8	24	60	6	2	04120	4	11	21	57	6	4	04420	6	13	21	57	6	4
4	8	3.8	12.0	18	54	6	2	05125	4	11	21	57	6	4	05425	8	19	36	72	8	4
4	10	4.0	12.5	39	75	6	2	06130	4	11	21	57	6	4	06430	10	22	32	72	10	4
5	9	4.8	16.0	18	54	6	2	07135	4	11	21	57	6	4	07440	12	26	38	83	12	4
5	12	5.0	15.0	39	75	6	2	08140	4	11	21	57	6	4	08440	16	32	44	92	16	4
6	10	5.7	16.0	18	54	6	2	10150	4	11	21	57	6	4	10450	20	38	54	104	20	4
6	12	6.0	15.0	64	100	6	2	12160	4	11	21	57	6	4	12460	10	22	32	72	10	4
7	11	6.6	20.0	22	58	8	2	14170	4	11	21	57	6	4	14470	14	18	28.0	75	14	2
8	12	7.6	20.0	22	58	8	2	16180	4	11	21	57	6	4	16480	16	22	32.0	75	14	2
8	14	8.0	17.5	64	100	8	2	18190	4	11	21	57	6	4	18490	20	26	34.0	84	18	2
10	14	9.6	24.0	26	66	10	2	20110	4	11	21	57	6	4	20410	20	38	40.0	92	20	2
10	18	10.0	22.5	60	100	10	2														
12	16	11.5	26.0	28	73	12	2														
12	22	12.0	27.5	55	100	12	2														
14	18	13.3	28.0	30	75	14	2														
14	26	14.0	32.5	75	120	14	2														
16	22	15.2	32.0	34	82	16	2														
16	30	16.0	37.5	102	150	16	2														
18	24	17.1	34.0	36	84	18	2														
20	26	19.0	40.0	42	92	20	2														
20	38	20.0	47.5	100	150	20	2														

P M K N S H O

## SilverLine – Ball Nosed Cutter

**N**  $\lambda_s = 35^\circ$   $\gamma_s = 7^\circ$  ZEFP

WNT \ Performance

DPB72S DRAGOSKIN DRAGOSKIN DRAGOSKIN DRAGOSKIN

Factory standard							Factory standard												
DC	APMX	LPR	OAL	DCONMS	ZEFP	HA	DC	APMX	LPR	OAL	DCONMS	ZEFP	HA						
4	11	21	57	6	4	03415	5	13	21	57	6	4	04220	6	11	21	57	6	4
5	13	21	57	6	4	04420	6	13	21	57	6	4	05225	7	13	21	57	6	4
6	13	21	57	6	4	05425	8	19	36	72	8	4	06230	8	19	36	72	8	4
8	19	36	72	8	4	06430	10	22	32	72	10	4	08280	10	22	32	72	10	4
10	22	32	72	10	4	07440	12	26	38	83	12	4	10250	12	26	38	83	12	4
12	26	38	83	12	4	08440	16	32	44	92	16	4	12260	16	32	44	92	16	4
16	32	44	92	16	4	16480	20	38	54	104	20	4	16280	20	38	54	104	20	4
20	38	54	104	20	4	20410	20	38	54	104	20	4	20210	20	38	54	104	20	4

P M K N S H O

## SilverLine – NC deburring cutter

▲ High performance 5 flute chamfering tool

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

WNT \ Performance

DPB72S DRAGOSKIN DRAGOSKIN DRAGOSKIN DRAGOSKIN

Factory standard					Factory standard																	
DC <sub>fs</sub>	OAL	LPR	DCONMS <sub>h6</sub>	ZEFP	HA	DC <sub>fs</sub>	OAL	LPR	DCONMS <sub>h6</sub>	ZEFP	HA											
4	50	22	4	5	04000	4	55	22	4	5	04000	4	55	22	4	5	06000	6	55	22	4	6
6	55	19	6	5	06000	6	55	22	4	6	06000	6	55	22	4	6	08000	8	55	22	4	8
8	58	22	8	5	08000	8	55	22	4	8	08000	8	55	22	4	8	10000	10	55	22	4	10
10	60	20	10	5	10000	10	55	22	4	10	10000	10	55	22	4	10	12000	12	55	22	4	12
12	70	25	12	5	12000	12	55	22	4	12	12000	12	55	22	4	12	16000	16	55	22	4	16
16	80	32	16	5	16000	16	55	22	4	16	16000	16	55	22	4	16	20000	20	55	22	4	20

P M K N S H O

$\alpha = 60^\circ$		$\alpha = 60^\circ$		$\alpha = 90^\circ$		$\alpha = 90^\circ$	
Factory standard	HA	Factory standard	HB	Factory standard	HA	Factory standard	HB
50 562 ...	£ 25.55	50 563 ...	£ 28.09	50 560 ...	£ 25.55	50 561 ...	£ 28.09
04000	39.31	06000	43.21	04000	39.31	06000	43.21
06000	43.21	08000	46.29	06000	43.21	08000	46.29
08000	46.29	10000	46.93	08000	46.29	10000	46.93
10000	46.93	12000	45.51	10000	46.93	12000	45.51
12000	45.51	16000	43.13	12000	45.51	16000	43.13
16000	43.13	16000	43.13	16000	43.13	16000	43.13

# AluLine

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



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

Product Manager CERATIZIT, Michael Wucher



## First Choice for high performance Aluminium Milling

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

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

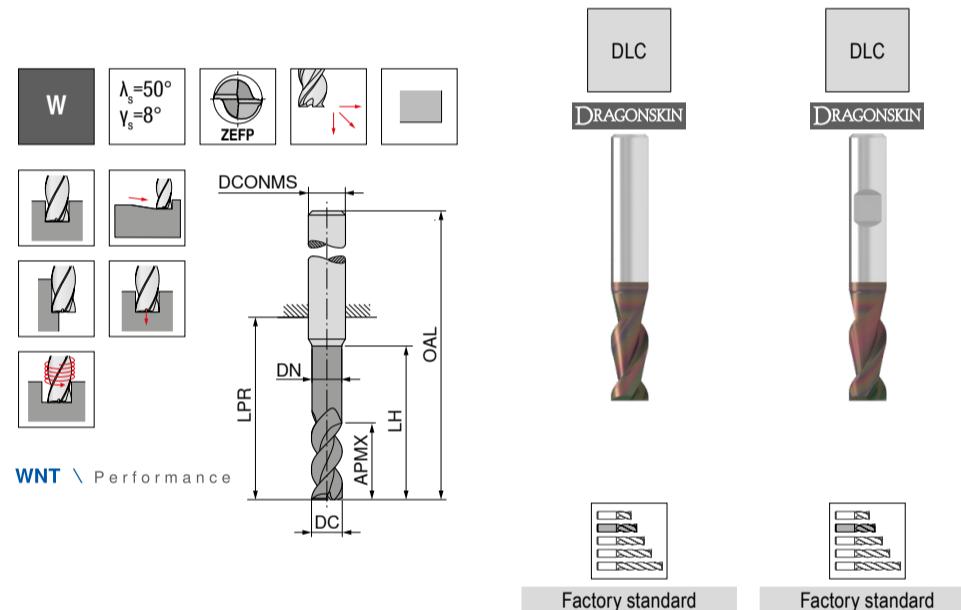
### Advantages/benefits

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

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

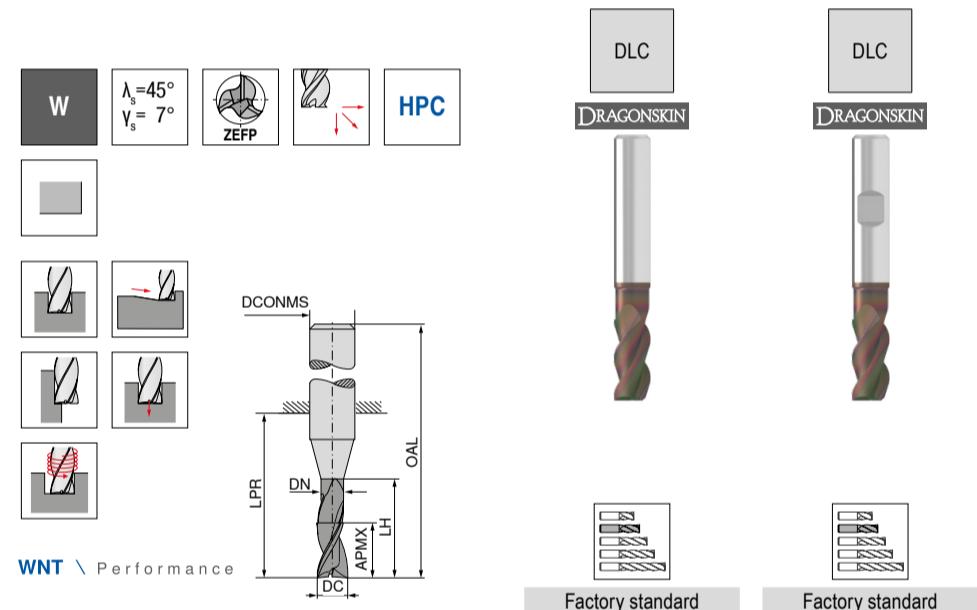
### AluLine – End milling cutter

▲ With polished chip flutes



### AluLine – End milling cutter

▲ With polished chip flutes



## AluLine – End milling cutter

▲ With polished chip flutes

**W**  $\lambda_s = 45^\circ$   $\gamma_s = 7^\circ$  ZEFP

DC  $\text{h}^6$ : 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.5, 14.0, 14.5, 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5, 19.0, 19.5, 20.0 mm

APMX: 5.5, 6.5, 8.0, 10.5, 13.0, 16.0, 19.0, 21.0, 26.0, 33.0, 40.0, 45.0, 50.0, 55.0, 60.0, 65.0, 70.0, 75.0, 80.0, 85.0, 90.0, 95.0, 100.0 mm

DN: 1.8, 2.3, 2.8, 3.3, 4.3, 4.8, 5.3, 5.8, 6.2, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.5, 14.0, 14.5, 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5, 19.0, 19.5, 20.0 mm

LH: 10.0, 12.5, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0, 45.0, 50.0, 55.0, 60.0, 65.0, 70.0, 75.0, 80.0, 85.0, 90.0, 95.0, 100.0 mm

LPR: 19, 22, 26, 34, 44, 54, 64, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200 mm

OAL: 55, 58, 62, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200 mm

DCONMS  $\text{h}^6$ : 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200 mm

ZEFP: 02200, 03200, 04200, 05200, 06200, 07200, 08200, 09200, 09700, 10200, 10700, 11200, 11700, 12200, 12700, 13200, 13700, 14200, 14700, 15200, 15700, 16200, 16700, 17200, 17700, 18200, 18700, 19200, 19700, 20200

53 617 ... 53 618 ... 53 710 ... 53 711 ...

DC $\text{h}^6$	RE $\pm 0.05$	APMX	DN	LH	LPR	OAL	DCONMS $\text{h}^6$	ZEFP	53 617 ...	53 618 ...	53 710 ...	53 711 ...
mm	mm	mm	mm	mm	mm	mm	mm		£	£	£	£
2.0	0.5	4.5	1.8	6	14	50	6	3	02105	52.08	33.85	02105
2.0	0.3	4.5	1.8	6	14	50	6	3	02103	52.08	33.85	02103
3.0	1.0	6.5	2.7	9	19	55	6	3	03110	53.24	34.61	03110
3.0	0.3	6.5	2.7	9	19	55	6	3	03103	53.24	34.61	03103
4.0	0.5	8.5	3.7	12	19	55	6	3	04105	56.71	36.86	04105
4.0	0.3	8.5	3.7	12	19	55	6	3	04103	56.71	36.86	04103
4.0	1.0	8.5	3.7	12	19	55	6	3	04110	56.71	36.86	04110
5.0	1.0	10.5	4.7	15	22	58	6	3	05110	62.59	40.63	05110
5.0	0.3	10.5	4.7	15	22	58	6	3	05103	62.59	40.63	05103
5.0	0.5	10.5	4.7	15	22	58	6	3	05105	62.59	40.63	05105
6.0	1.0	13.0	5.7	18	22	58	6	3	06110	64.82	42.13	06110
6.0	0.3	13.0	5.7	18	22	58	6	3	06103	64.82	42.13	06103
6.0	0.5	13.0	5.7	18	22	58	6	3	06105	64.82	42.13	06105
6.0	1.5	13.0	5.7	18	22	58	6	3	06115	64.82	42.13	06115
8.0	0.3	17.0	7.4	24	28	64	8	3	08103	70.69	45.89	08103
8.0	0.5	17.0	7.4	24	28	64	8	3	08105	70.69	45.89	08105
8.0	1.0	17.0	7.4	24	28	64	8	3	08110	70.69	45.89	08110
8.0	1.5	17.0	7.4	24	28	64	8	3	08115	70.69	45.89	08115
8.0	2.0	17.0	7.4	24	28	64	8	3	08120	70.69	45.89	08120
10.0	1.5	21.0	9.2	30	34	74	10	3	10115	103.01	66.96	10115
10.0	0.3	21.0	9.2	30	34	74	10	3	10103	103.01	66.96	10103
10.0	0.5	21.0	9.2	30	34	74	10	3	10105	103.01	66.96	10105
10.0	1.0	21.0	9.2	30	34	74	10	3	10110	103.01	66.96	10110
10.0	2.0	21.0	9.2	30	34	74	10	3	10120	103.01	66.96	10120
10.0	3.0	21.0	9.2	30	34	74	10	3	10130	103.01	66.96	10130
12.0	1.5	25.0	11.0	36	40	85	12	3	12115	145.82	94.78	12115
12.0	0.3	25.0	11.0	36	40	85	12	3	12103	145.82	94.78	12103
12.0	0.5	25.0	11.0	36	40	85	12	3	12105	145.82	94.78	12105
12.0	1.0	25.0	11.0	36	40	85	12	3	12110	145.82	94.78	12110
12.0	2.0	25.0	11.0	36	40	85	12	3	12120	145.82	94.78	12120
12.0	3.0	25.0	11.0	36	40	85	12	3	12130	145.82	94.78	12130
12.0	4.0	25.0	11.0	36	40	85	12	3	12140	145.82	94.78	12140
16.0	1.5	33.0	15.0	48	52	100	16	3	16115	232.64	151.22	16115
16.0	0.3	33.0	15.0	48	52	100	16	3	16103	232.64	151.22	16103
16.0	0.5	33.0	15.0	48	52	100	16	3	16105	232.64	151.22	16105
16.0	1.0	33.0	15.0	48	52	100	16	3	16110	232.64	151.22	16110
16.0	2.0	33.0	15.0	48	52	100	16	3	16120	232.64	151.22	16120
16.0	3.0	33.0	15.0	48	52	100	16	3	16130	232.64	151.22	16130
16.0	4.0	33.0	15.0	48	52	100	16	3	16140	232.64	151.22	16140
20.0	2.0	42.0	19.0	60	64	114	20	3	20120	359.95	233.97	20120
20.0	0.5	42.0	19.0	60	64	114	20	3	20105	359.95	233.97	20105
20.0	1.0	42.0	19.0	60	64	114	20	3	20115	359.95	233.97	20115
20.0	1.5	42.0	19.0	60	64	114	20	3	20130	359.95	233.97	20130
20.0	3.0	42.0	19.0	60	64	114	20	3	20140	359.95	233.97	20140

P M K N S H O

## AluLine – End milling cutter with corner radius

▲ With polished chip flutes

**W**  $\lambda_s = 45^\circ$   $\gamma_s = 7^\circ$  ZEFP

DC  $\text{h}^6$ : 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.5, 14.0, 14.5, 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5, 19.0, 19.5, 20.0 mm

APMX: 5.5, 6.5, 8.0, 10.5, 13.0, 16.0, 19.0, 21.0, 26.0, 33.0, 40.0, 45.0, 50.0, 55.0, 60.0, 65.0, 70.0, 75.0, 80.0, 85.0, 90.0, 95.0, 100.0 mm

DN: 1.8, 2.3, 2.8, 3.3, 4.3, 4.8, 5.3, 5.8, 6.2, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.5, 14.0, 14.5, 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5, 19.0, 19.5, 20.0

## CircularLine

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



DRAGONSKIN

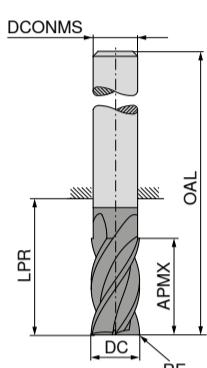


### CircularLine – End milling cutter

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



WNT \ Performance



DPX72S

DRAGONSKIN



Factory standard

HB

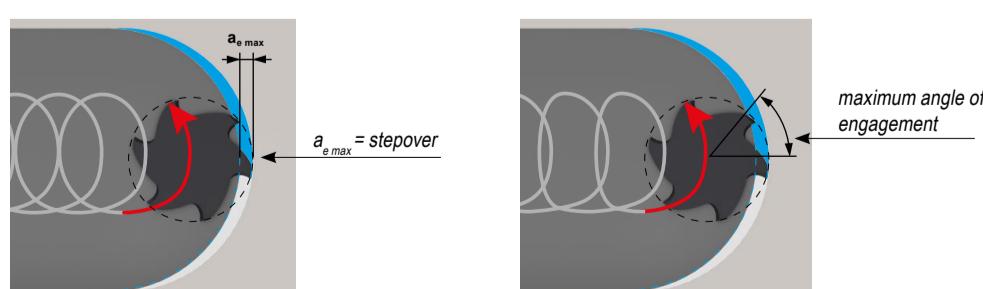
53 593 ...

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

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

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

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

$a_e$  = 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**  $\lambda_s = 30^\circ$   $\lambda_s = 31^\circ$   $\gamma_s = 8^\circ$  ZEFP HPC

**DPX72S** **DRAGONSKIN**

**WNT \ Performance**

DC <sub>e8</sub>	OAL	APMX	DN	LH	LPR	DCONMS <sub>h6</sub>	CHW	ZEFP	53 585 ...		53 587 ...			
									mm	mm	mm	mm	mm	mm
6	57	13	5.8	19	21	6	0.2	6	060	59.17	38.46	060	58.00	37.70
6	63	19	5.8	25	27	6	0.2	6	080	77.16	50.15	080	75.26	48.92
8	63	21	7.7	25	27	8	0.2	6	100	99.14	64.44	100	106.11	68.97
10	72	22	9.7	30	32	10	0.2	6	120	127.49	82.87	120	124.62	81.00
10	83	31	9.7	41	43	10	0.2	6	160	254.31	165.30	160	257.89	167.63
12	83	26	11.6	36	38	12	0.2	6	200	365.63	237.66	200	361.54	235.00
12	94	37	11.6	47	49	12	0.2	6						
16	92	36	15.5	42	44	16	0.2	6						
16	111	49	15.5	61	63	16	0.2	6						
20	104	41	19.5	52	54	20	0.2	6						
20	127	61	19.5	75	77	20	0.2	6						

P M K N S H O

**CircularLine – End milling cutter**

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

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

**DPX72S** **DRAGONSKIN**

**WNT \ Performance**

**Factory standard**

DC <sub>e8</sub>	OAL	APMX	DN	LH	LPR	DCONMS <sub>h6</sub>	CHW	ZEFP	53 589 ...		
									mm	mm	mm
6	67	25	5.8	29	31	6	0.2	5	060	60.46	39.30
8	76	33	7.7	38	40	8	0.2	5	080	77.75	50.54
10	89	41	9.7	47	49	10	0.2	5	100	107.35	69.78
12	102	49	11.6	55	57	12	0.2	5	120	130.70	85.01
16	123	65	15.5	73	75	16	0.2	5	160	262.82	170.83
20	143	82	19.5	91	93	20	0.2	5	200	370.17	240.61

P M K N S H O

**CircularLine – End milling cutter**

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

**CCR UNI**  $\lambda_s = 30^\circ$   $\lambda_s = 31^\circ$   $\gamma_s = 8^\circ$  ZEFP HPC

**DPX72S** **DRAGONSKIN**

**WNT \ Performance**

**Factory standard**

DC <sub>e8</sub>	OAL	RE <sub>±0,05</sub>	APMX	DN	LH	LPR	DCONMS <sub>h6</sub>	ZEFP	53 586 ...		
									mm	mm	mm
6	57	1.0	13	5.8	19	21	6	6	06010	50.49	38.67
6	57	0.2	13	5.8	19	21	6	6	06002	55.12	38.46
6	57	1.5	13	5.8	19	21	6	6	06015	53.49	38.67
8	63	1.5	21	7.7	25	27	8	6	08015	79.00	51.35
8	63	0.2	21	7.7	25	27	8	6	08002	77.16	50.15
8	63	1.0	21	7.7	25	27	8	6	08010	70.99	51.35
8	63	2.0	21	7.7	25	27	8	6	08020	75.99	51.35
10	72	1.5	22	9.7	30	32	10	6	10015	101.86	66.21
10	72	0.2	22	9.7	30	32	10	6	10002	99.14	64.44
10	72	1.0	22	9.7	30	32	10	6	10010	101.86	66.21
10	72	1.6	22	9.7	30	32	10	6	10016	101.86	66.21
10	72	2.0	25	9.7	30	32	10	6	10020	104.86	66.21
12	83	1.5	26	11.6	36	38	12	6	12015	120.88	83.25
12	83	0.2	26	11.6	36	38	12	6	12002	127.49	82.87
12	83	1.0	26	11.6	36	38	12	6	12010	128.08	83.25
12	83	1.6	26	11.6	36	38	12	6	12016	128.08	83.25
12	83	2.0	26	11.6	36	38	12	6	12020	128.08	83.25
12	83	3.0	26	11.6	36	38	12	6	12030	128.08	83.25
16	92	4.0	36	15.5	42	44	16	6	16040	263.01	172.26
16	92	0.2	36	15.5	42	44	16	6	16002	254.11	165.30
16	92	1.0	36	15.5	42	44	16	6	16010	274.20	178.23
16	92	1.5	36	15.5	42	44	16	6	16015	266.01	172.26
16	92	1.6	36	15.5	42	44	16	6	16016	265.01	172.26
16	92	2.0	36	15.5	42	44	16	6	16020	265.01	172.26
16	92	3.0	36	15.5	42	44	16	6	16030	265.01	172.26
20	104	1.6	41	19.5	52	54	20	6	20016	369.33	240.06
20	104	0.2	41	19.5	52	54	20	6	20002	365.63	237.66
20	104	1.0	41	19.5	52	54	20	6	20010	369.33	240.06
20	104	1.5	41	19.5	52	54	20	6	20015	369.33	240.06
20	104	2.0	41	19.5	52	54	20	6	20020	369.33	240.06
20	104	3.0	41	19.5	52	54	20	6	20030	369.33	240.06
20	104	4.0	41	19.5	52	54	20	6	20040	369.33	240.06

P M K N S H O

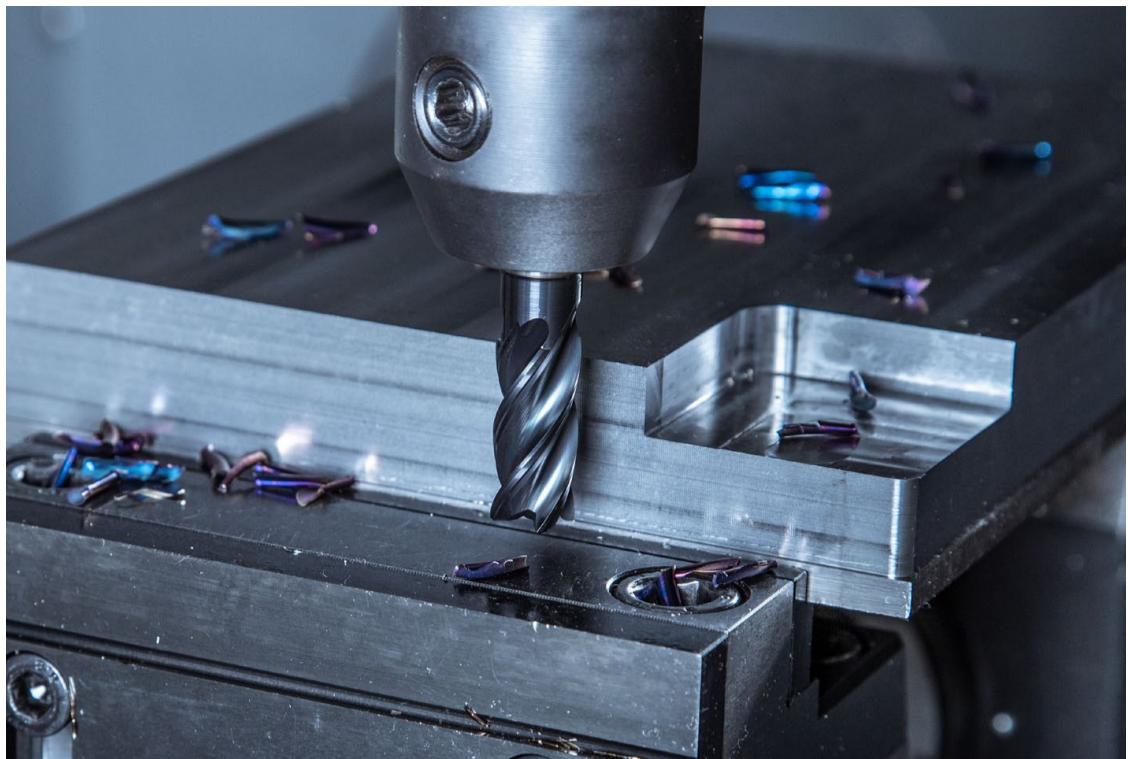
**CCR UNI**  $\lambda_s = 35^\circ$   $\lambda_s = 36^\circ$   $\gamma_s = 9^\circ$  ZEFP HPC

**DPX72S** **DRAGONSKIN**

**WNT \ Performance**

**Factory standard**

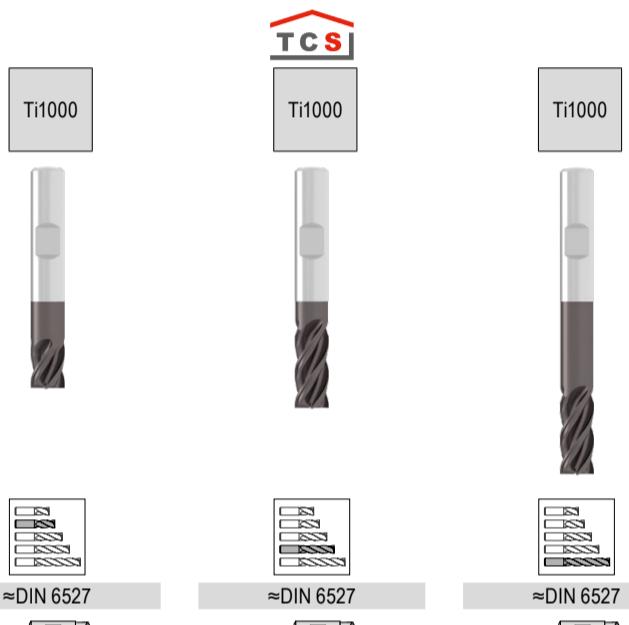
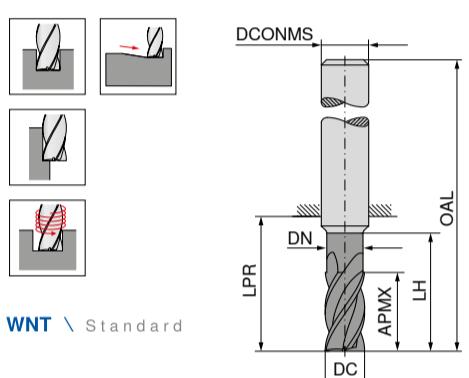
DC <sub>e8</sub>	OAL	RE <sub>±0,05</sub>	APMX	DN	LH	LPR	DCONMS <sub>h6</sub>	ZEFP	53 593 ...		
									mm	mm	mm
6	67	1.5	25	5.8	29	31	6	5	06015	61.69	40.10
6	67	1.0	25	5.8	29	31	6	5	06010	61.69	40.10
6	67	0.2	25	5.8	29	31	6	5	06002	60.46	39.30
8	76	1.5	33	7.7	38	40	8	5	08015	78.97	51.33
8	76	0.2	33	7.7	38	40	8	5	08010	78.97	51.33
10	89	1.5	41	9.7	47	49	10	5	10015	109.82	71.38
10	89	1.0	41	9.7	47	49	10	5	10010	109.82	71.38
10	89	1.6	41	9.7	47	49	10	5	10016	109.82	71.38
10	89	2.0	41	9.7	47	49	10	5</			



## TI 1000 STANDARD LINE



End milling cutter



### Nett Prices

DC <sub>h10</sub> mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> 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

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

 CERATIZIT  
GROUP

DRAGOSKIN  
by CERATIZIT



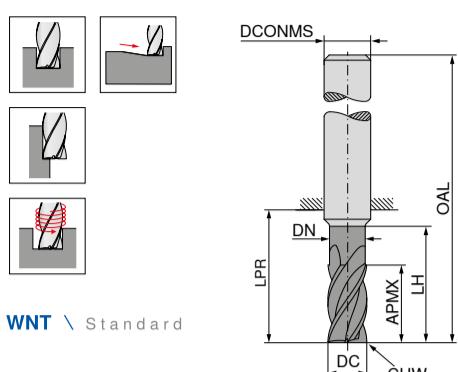
For more information  
[cutting.tools/en/dragoskin](http://cutting.tools/en/dragoskin)

TEAM CUTTING TOOLS

 CUTTING SOLUTIONS BY  
CERATIZIT  KOMET  KLENK



## End milling cutter



## Nett Prices

DC <sub>h10</sub> mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> mm	CHW mm	ZEFP
3	5			14	50	6	0.1	4
3	8	2.8	13	21	57	6	0.1	4
3	8	2.8	15	22	69	6	0.1	4
4	8			18	54	6	0.1	4
4	11	3.8	17	21	57	6	0.1	4
4	11	3.8	20	26	69	6	0.1	4
5	9			18	54	6	0.1	4
5	13	4.8	19	21	57	6	0.1	4
5	13	4.8	25	34	69	6	0.1	4
6	10			18	54	6	0.1	4
6	13	5.8	19	21	57	6	0.1	4
6	13	5.8	30	34	69	6	0.1	4
8	12			22	58	8	0.2	4
8	21	7.7	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			



	54 071 ...	54 071 ...	54 071 ...		
03100	£ 13.65	£ 13.65	03200	£ 13.65	£ 13.65
04100	£ 13.65	£ 13.65	04200	£ 13.65	£ 13.65
05100	£ 13.65	£ 13.65	05200	£ 13.65	£ 13.65
06100	£ 13.65	£ 13.65	06200	£ 16.80	£ 16.80
08100	£ 19.95	£ 19.95	08200	£ 21.00	£ 21.00
10100	£ 25.20	£ 25.20	10200	£ 28.35	£ 28.35
12100	£ 36.75	£ 36.75	12200	£ 44.10	£ 44.10
16100	£ 64.05	£ 64.05	16200	£ 68.25	£ 68.25
20100	£ 95.55	£ 95.55	20200	£ 102.90	£ 102.90
			20400	£ 139.65	£ 139.65

**CERATIZIT GROUP**

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Always the ideal cutting tool solution for every metal cutting application

**TEAM CUTTING TOOLS**

**CUTTING SOLUTIONS BY CERATIZIT** KOMET KLENK

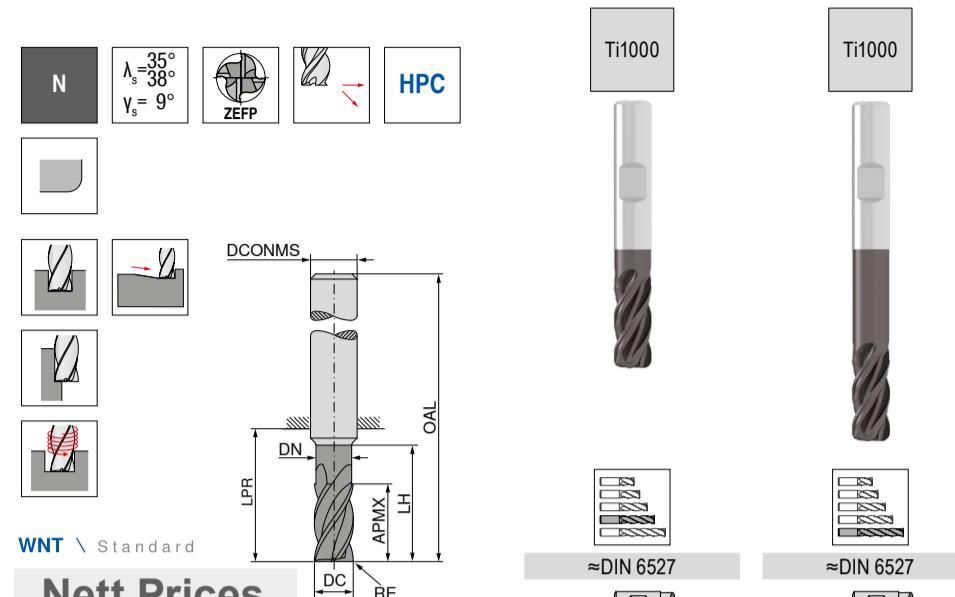


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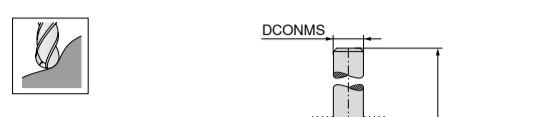


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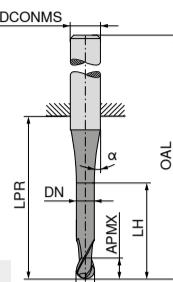
## End milling cutter with corner radius



## Ball Nosed Cutter

▲ Radius accuracy:  $\pm 0,01$  mm

WNT \ Standard



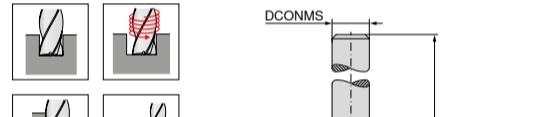
## Nett Prices

DC <sub>h10</sub> mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> mm	α°	ZEFP
3	5	2.9	9	14	50	6	15	2
4	8	3.9	12	18	54	6	45	2
5	9	4.9	15	18	54	6	45	2
6	10	5.9	17	18	54	6	45	2
8	12	7.8	20	22	58	8	45	2
10	14	9.8	26	26	66	10	45	2
12	16	11.8	28	28	73	12	45	2
16	22	15.7	32	34	82	16	45	2
20	26	19.7	40	42	92	20	45	2

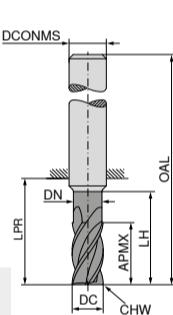
P	●
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K	●
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H	
O	

## Rough milling cutter

▲ With roughing profile



WNT \ Standard



## Nett Prices

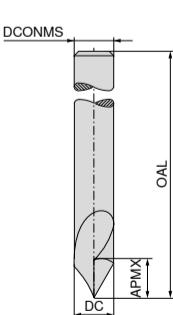
DC <sub>f8</sub> mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> mm	CHW mm	ZEFP
4	11	3.8	17	21	57	6	0.1	4
5	13	4.8	19	21	57	6	0.1	4
6	13	5.8	19	21	57	6	0.1	4
8	21	7.7	25	27	63	8	0.2	4
10	22	9.7	30	32	72	10	0.2	4
12	26	11.6	36	38	83	12	0.3	4
16	36	15.5	42	44	92	16	0.3	4
20	41	19.5	52	54	104	20	0.3	4

P	●
M	●
K	●
N	○
S	○
H	
O	

## Engraving cutter 60°



WNT \ Standard



DC <sub>h6</sub> mm	APMX mm	OAL mm	DCONMS <sub>h6</sub> mm	ZEFP
3	15	50	3	1
4	18	50	4	1
6	20	54	6	1

P	○
M	○
K	○
N	●
S	○
H	
O	●

## Ball Nosed Cutter

▲ Radius accuracy:  $\pm 0,01$  mm

WNT \ Standard



## Nett Prices

≈DIN 6527  
HB [ ]

54 073 ...

	£	£
03115	16.80	16.80
04120	16.80	16.80
05125	16.80	16.80
06130	17.85	17.85
08140	23.10	23.10
10150	29.40	29.40
12160	42.00	42.00
16180	69.30	69.30
20110	98.70	98.70

20110

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# MILLING TOOLS WITH INDEXABLE INSERTS

## 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.

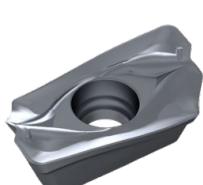
## GRADES



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.

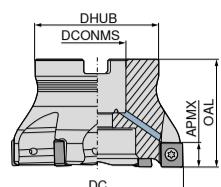


CTC5240 – first choice for titanium and heat resistant super alloys.

## MaxiMill – Shell mill A 491



CERATIZIT ▾ Performance



ISO designation	DC mm	OAL mm	DHUB mm	DCONMS H6 mm	APMX mm	Insert	ZNF
A491.40.R.03-09	40	40	38	16	6	SNHU 09T3	3
A491.40.R.05-09	40	40	38	16	6	SNHU 09T3	5
A491.50.R.04-09	50	40	43	22	6	SNHU 09T3	4
A491.50.R.06-09	50	40	43	22	6	SNHU 09T3	6
A491.63.R.05-09	63	40	48	22	6	SNHU 09T3	5
A491.63.R.08-09	63	40	48	22	6	SNHU 09T3	8
A491.80.R.06-09	80	50	58	27	6	SNHU 09T3	6
A491.80.R.10-09	80	50	58	27	6	SNHU 09T3	10

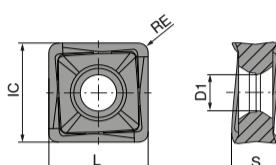


	50 775 ...	£	£
240	388.78	56.00	
250	430.88	62.00	
263	514.96	74.00	
280	546.55	78.00	

	50 776 ...	£	£
240	451.93	65.00	
250	493.92	71.00	
263	609.48	87.00	
280	672.62	96.00	

## SNHU

Designation	IC mm	L mm	S mm	D1 mm
SNHU 09T3..	9.15	9.15	3.70	3.85



## SNHU

CERATIZIT ▾ Performance



SNHU



SNHU



SNHU



SNHU

ISO	RE mm	51 120 ...	£	£	51 120 ...	£	£	51 118 ...	£	£	51 126 ...	£	£
09T308ER	0.8				408	22.00	16.50	108	22.00	16.50	358	22.00	16.50
09T308FR	0.8				41200	22.00	16.50	11200	22.00	16.50	36200	22.00	16.50
09T308SR	0.8				41600	22.00	16.50	11600	22.00	16.50	36600	22.00	16.50
09T312FR	1.2												
09T312SR	1.2												
09T316FR	1.6												
09T316SR	1.6												
P			○			●							
M			●			○							
K						○							
N							●						
S								●					
H									●				
O										○			



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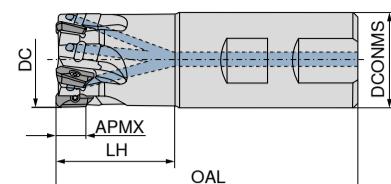
[www.just-our-thing.uk](http://www.just-our-thing.uk)

**MaxiMill – End milling cutter C 211-11**

▲ Insert radius &gt;1,6 mm: Modify cutter body



CERATIZIT \ Performance

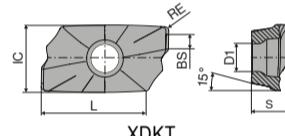


ISO designation	DC mm	OAL mm	LH mm	DCONMS mm	APMX mm	RPMX 1/min.	Insert	ZNF
C211.16.R.02-11-A-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-B-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-A15-32-165	16	165	32	15	10	14800	XD.T 11T3	2
C211.16.R.02-11-A-32-165	16	165	32	16	10	14800	XD.T 11T3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

50 737 ...		50 737 ...			
	£	£	£		
116	231.03	33.00	016	231.03	33.00
316	231.03	33.00	216	231.03	33.00
120	262.30	37.00	020	262.30	37.00
12002	243.56	37.00	320	262.30	37.00
620	243.56	35.00	420	243.56	35.00
625	274.82	39.00	025	293.56	42.00
125	293.56	42.00	325	293.56	42.00
425	274.82	39.00	825	274.82	39.00
02502	256.18	38.00	432	306.00	44.00
13204	306.00	46.00	032	324.84	46.00

**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

**-F20**  
CTWN215**-F40**  
CTC5240**-M50**  
CTPP235**-M50**  
CTPM240

ISO	50 478 ...		50 463 ...		51 037 ...		51 037 ...	
	£	£	£	£	£	£	£	£
502	17.70	13.28	504	18.13	15.41	104	44.00	10.57
504	17.70	13.28	500	18.13	15.41	108	44.00	10.57
508	17.70	13.28	512	18.13	15.41	112	44.00	10.57
520 <sup>1)</sup>	17.70	13.28	516	18.13	15.41	120 <sup>1)</sup>	44.00	10.57
525 <sup>1)</sup>	17.70	13.28	520 <sup>1)</sup>	18.13	15.41	125 <sup>1)</sup>	44.00	10.57
532 <sup>1)</sup>	17.70	13.28	532 <sup>1)</sup>	18.13	15.41	432 <sup>1)</sup>	44.00	10.57
540 <sup>1)</sup>	17.70	13.28	540 <sup>1)</sup>	18.13	15.41			

1) Insert radius &gt;1.6 mm: Modify cutter body

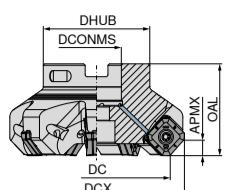


**MaxiMill – A 271-12 Face mill**

▲ 8 cutting edges per insert



CERATIZIT \ Performance



ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS <sub>H6</sub> mm	RPMX 1/min.	torque moment Nm	Insert
A271.40.R.04-12	40	53	4	6.8	40	38	16	17900	3,2	SOHU 1204.. / XOHU 1204..
A271.50.R.05-12	50	63	5	6.8	40	43	22	15200	3,2	SOHU 1204.. / XOHU 1204..
A271.63.R.07-12	63	76	7	6.8	40	48	22	13100	3,2	SOHU 1204.. / XOHU 1204..
A271.80.R.06-12	80	93	6	6.8	50	58	27	11300	3,2	SOHU 1204.. / XOHU 1204..
A271.80.R.08-12	80	93	8	6.8	50	58	27	11300	3,2	SOHU 1204.. / XOHU 1204..
A271.100.R.07-12	100	113	7	6.8	63	78	32	9900	3,2	SOHU 1204.. / XOHU 1204..
A271.100.R.10-12	100	113	10	6.8	63	78	32	9900	3,2	SOHU 1204.. / XOHU 1204..

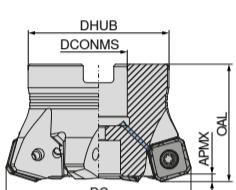


	50 787 ...	£	£
04004	408.53	58.00	
05005	418.75	60.00	
06307	531.11	76.00	
08008	612.79	88.00	
10010	766.04	109.00	

	50 787 ...	£	£
04004	408.53	58.00	
05005	418.75	60.00	
06307	531.11	76.00	
08006	612.79	88.00	
10007	764.03	96.00	

**MaxiMill – A 271-12 HFC Face mill**

CERATIZIT \ Performance

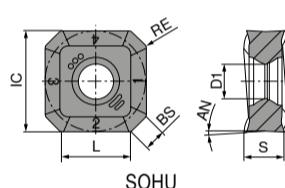


ISO designation	DC mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS <sub>H6</sub> mm	RPMX 1/min.	torque moment Nm	Insert
A271.50.R.04-12-HFC	50	4	2.6	40	43	22	14600	3,2	SOHU 1204..
A271.63.R.06-12-HFC	63	6	2.6	40	48	22	12500	3,2	SOHU 1204..
A271.80.R.07-12-HFC	80	7	2.6	50	58	27	10800	3,2	SOHU 1204..

	50 788 ...	£	£
05004	418.75	60.00	
06306	531.11	76.00	
08007	612.79	88.00	

**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

**-F50**  
CTC5240

DRAGOSKIN

**-M50**  
CTPP235

DRAGOSKIN

**-M50**  
CTPM240

DRAGOSKIN



ISO	RE mm
1204ABSR	0.8

51 140 ...  
£ £  
17000 31.77 27.0051 138 ...  
£ £  
12000 25.84 19.3851 138 ...  
£ £  
42000 25.84 19.38

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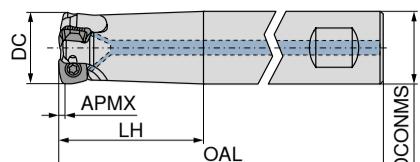


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## MaxiMill – End milling cutter C HFC

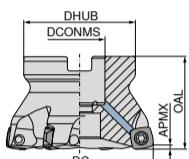


ISO designation	DC mm	OAL mm	LH mm	DCONMS <sub>H6</sub> mm	APMX mm	RPMX 1/min.	Insert	ZNF
CHFC.16.R.02-06-A-40-200	16	200	40	16	0.8	4600	XPLX 0603..	2
CHFC.16.R.02-06-B-40	16	89	40	16	0.8	17300	XPLX 0603..	2
CHFC.20.R.03-06-A-50-225	20	225	50	20	0.8	4200	XPLX 0603..	3
CHFC.20.R.03-06-B-50	20	101	50	20	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



A	50 681 ...	50 681 ...
716	£ 231.03	£ 35.00
720	£ 262.30	£ 39.00
025	£ 276.63	£ 40.00
125	£ 299.97	£ 42.00
725	£ 293.56	£ 44.00
032	£ 310.20	£ 44.00
132	£ 300.16	£ 41.00
732	£ 324.84	£ 49.00
035	£ 310.20	£ 44.00
632	£ 324.84	£ 49.00

## MaxiMill – Shell mill A HFC

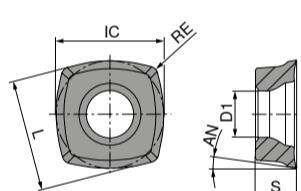


ISO designation	DC mm	OAL mm	DCONMS <sub>H6</sub> mm	DHUB mm	APMX mm	RPMX 1/min.	Insert	ZNF
AHFC.32.R.03-09	32	40	16	38	1	27700	XDLX 09T3..	3
AHFC.35.R.04-09	35	40	16	38	1	26700	XDLX 09T3..	4
AHFC.40.R.04-09	40	40	16	38	1	26400	XDLX 09T3..	4
AHFC.42.R.05-09	42	40	16	38	1	26100	XDLX 09T3..	5
AHFC.50.R.05-09	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 ...
032 £ 310.20 44.00
035 £ 330.46 47.00
140 £ 343.98 49.00
142 £ 364.12 52.00
150 £ 404.71 58.00
152 £ 424.96 61.00
163 £ 465.35 66.00
16600 £ 485.59 73.00
040 £ 223.84 46.00
042 £ 243.09 49.00
050 £ 284.37 55.00
052 £ 304.71 58.00
063 £ 445.01 64.00
066 £ 465.35 66.00

## XPLX

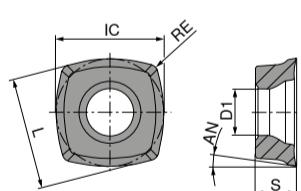


ISO	RE mm	IC mm	D1 mm	L mm	AN °	S mm
060305ER	0.5	6.35	2.8	6	11	2.75
060305SR	0.5	6.35	2.8	6	11	2.75



50 518 ...	51 019 ...	51 019 ...
558 £ 15.09 12.83	105 £ 12.37 9.28	405 £ 12.37 9.28
558 £ 15.09 12.83	105 £ 12.37 9.28	405 £ 12.37 9.28
558 £ 15.09 12.83	105 £ 12.37 9.28	405 £ 12.37 9.28

## XDLX

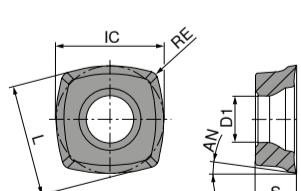


ISO	RE mm	IC mm	D1 mm	L mm	AN °	S mm
09T308ER	0.8	9.52	4.4	9	15	3.97
09T308SR	0.8	9.52	4.4	9	15	3.97



50 503 ...	51 016 ...	51 016 ...
558 £ 15.39 13.08	108 £ 12.75 9.56	408 £ 12.75 9.56
558 £ 15.39 13.08	108 £ 12.75 9.56	408 £ 12.75 9.56
558 £ 15.39 13.08	108 £ 12.75 9.56	408 £ 12.75 9.56

## 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



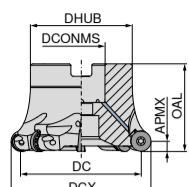
51 124 ...	51 017 ...	51 017 ...

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## MaxiMill – Shell mill A 251 RS



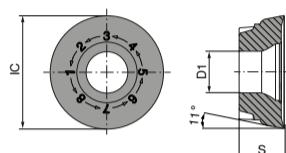
CERATIZIT \ Performance



ISO designation	DCX mm	DC mm	OAL mm	APMX mm	DHUB mm	DCONMS <sub>H6</sub> 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	356.51	51.00
A251.42.R.06-10-RS	42	32	40	5	38	16	16000	RP.X 10T3..	6	142	409.73	59.00
A251.50.R.06-10-RS	50	40	40	5	43	22	12500	RP.X 10T3..	6	150	423.97	61.00
A251.52.R.06-10-RS	52	42	40	5	43	22	12500	RP.X 10T3..	6	152	423.97	61.00
A251.40.R.04-12-RS	40	28	40	6	38	16	15900	RP.X 1204..	4	340	327.94	47.00
A251.50.R.05-12-RS	50	38	40	6	43	22	12500	RP.X 1204..	5	050	398.00	57.00
A251.52.R.05-12-RS	52	40	40	6	43	22	12500	RP.X 1204..	5	052	417.45	63.00
A251.63.R.06-12-RS	63	51	40	6	48	22	10000	RP.X 1204..	6	063	491.42	70.00
A251.66.R.07-12-RS	66	54	40	6	48	22	9000	RP.X 1204..	7	166	518.08	78.00
A251.80.R.07-12-RS	80	68	50	6	58	27	8000	RP.X 1204..	7	080	554.36	79.00

## 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

-M31  
CTC5240

DRAGOSKIN



RPHX

-M50  
CTPP235

DRAGOSKIN



RPNX

-F50  
CTPP235

DRAGOSKIN



RPHX

-M50  
CTPM240

DRAGOSKIN



RPHX

ISO	50 493 ...	51 054 ...	51 051 ...	51 050 ...
10T3M4EN	550 <sup>1)</sup> 16.23 13.80			
10T3M8EN	551 <sup>1)</sup> 16.23 13.80			
10T3M8SN		12000 0.79 7.34	12000 42.85 9.64	420 42.85 9.64
1204M4EN	552 <sup>1)</sup> 17.88 15.20			
1204M6EN	56200 17.88 15.20			
1204M8EN	582 17.88 15.20	125 11.25 8.44	125 44.09 10.57	425 44.09 10.57
1204M8SN				
P		●	●	○
M		○	○	○
K		○	○	●
N				
S				
H				
O		●	●	●

1) Insert with 4 indexes

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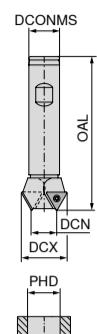
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## Indexable chamfer milling 90°

## Scope of supply:

Indexable insert countersink including clamping screws

KOMET \ Performance



WPS



DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert
19	7	9.5	2	16	100	TOHX 090204
23	11	12.0	2	16	100	TOHX 090204
26	11	12.0	1	16	100	TOHX 090204
30	12	13.0	2	20	100	TOHX 140305
34	16	17.0	2	20	100	TOHX 140305
37	19	20.0	2	20	100	TOHX 140305

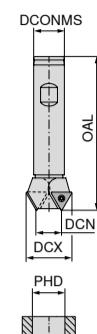
30 196 ...	£	£
19000	404.93	50.00
23000	410.58	50.00
26000	414.39	50.00
30000	420.21	50.00
34000	440.78	50.00
37000	440.78	50.00

## Indexable chamfer milling 60°

## Scope of supply:

Indexable insert countersink including clamping screws

KOMET \ Performance



WPS

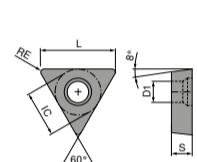
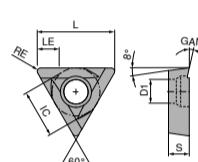


DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert
16.5	8.1	8.5	1	16	100	TOHX 090204
20.0	11.6	12.0	2	16	100	TOHX 090204
22.0	13.6	14.0	2	16	100	TOHX 090204
23.5	15.1	15.5	2	16	100	TOHX 090204
25.5	17.1	17.5	2	16	100	TOHX 090204

30 197 ...	£	£
16500	410.58	50.00
20000	414.39	50.00
22000	433.31	50.00
23500	440.78	50.00
25500	440.78	50.00

## TOHX

Designation	L mm	S mm	D1 mm	IC mm
TOHX 06T1..	6.50	1.80	2.2	4.0
TOHX 0902..	9.12	2.50	2.8	5.6
TOHX 1403..	13.62	3.00	3.8	8.2



## TOHX

KOMET \ Performance

ISO	RE mm
06T103EL	0.3
090204EL	0.4
090204EN	0.4
140304EL	0.4

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

-G12  
BK8425-G12  
BK8425

62 603 ...	£	£
30200	18.97	14.23
31800	21.46	16.10
32600	24.19	18.14

62 603 ...	£	£
31400	22.10	16.58

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- ▲ Sales





## ADAPTERS AND ACCESSORIES



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



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



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

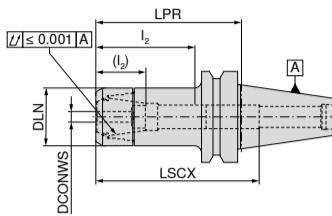
## ER Precision Collet chuck – Centro-P

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

### Scope of supply:

Holder without nut, without backstop

Centro-P WNT \ Performance



G 2,5 n<sub>max</sub> 25000

Adapter	DCONWS	LPR	DLN	LSCX	$I_2 (I_2)$	for collet	84 524 ...
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	210 452.05 59.00
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	310 482.13 69.00
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	410 248.41 95.00
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	510 267.91 102.00
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	116 174.67 67.00
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	216 182.33 59.00
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	316 182.33 69.00
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	416 267.91 102.00
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	516 287.92 109.00
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	616 329.00 126.00
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	120 172.67 67.00
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	220 153.55 59.00
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	320 182.43 69.00
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	420 267.91 102.00
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	520 287.22 109.00

LSCX = clamping depth without back stop screw for shanks

$I_2$  = with back stop screw 1, dimension in brackets () = with back stop screw 2  
dimension LPR when using tightening nuts with seals 4 mm longer

## Roll key

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

WNT \ Performance



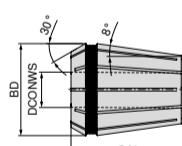
for lock nut	DLN	84 950 ...
	mm	
426E / ER 16 CP	30	027 120.75 46.00
430E / ER 25 CP	40	054 143.55 54.00
470E / ER 32 CP + STD / OZ 462E CP	50	056 132.71 51.00

## ER precision collet for precision collet chucks – Centro-P

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

ER-B  
2 µm

WNT \ Performance



DCONWS	BD = 17	BD = 26	BD = 33	84 596 ...	84 597 ...	84 598 ...
mm	OAL = 27.5	OAL = 34	OAL = 40			
1.0	426 E / ER16	430 E / ER25	470 E / ER32	£ 98.94 38.00	£ 176.97 67.00	£ 176.97 67.00
1.1				010 98.94 38.00	020 176.97 67.00	020 176.97 67.00
1.2				011 176.97 67.00	025 87.49 33.00	025 87.49 33.00
1.4				012 176.97 67.00	030 73.58 28.00	030 73.58 28.00
1.5				014 176.97 67.00	035 91.13 35.00	035 91.13 35.00
1.6				015 98.94 38.00	040 73.58 28.00	040 73.58 28.00
1.8				016 176.97 67.00	045 91.13 35.00	045 91.13 35.00
2.0				018 176.97 67.00	050 73.58 28.00	050 73.58 28.00
2.2				020 84.54 32.00	055 91.13 35.00	055 91.13 35.00
2.4				022 157.98 60.00	060 73.58 28.00	060 73.58 28.00
2.5				024 157.98 60.00	065 91.13 35.00	065 91.13 35.00
2.6				025 84.54 32.00	070 73.58 28.00	070 73.58 28.00
2.8				026 157.98 60.00	075 91.13 35.00	075 91.13 35.00
3.0				028 157.98 60.00	080 73.58 28.00	080 73.58 28.00
3.2				030 157.98 60.00	085 91.13 35.00	085 91.13 35.00
3.4				032 157.98 53.00	090 73.58 28.00	090 73.58 28.00
3.5				034 123.24 47.00	095 91.13 35.00	095 91.13 35.00
3.6				035 91.13 35.00	100 73.58 28.00	100 73.58 28.00
3.8				036 129.26 53.00	105 91.13 35.00	105 91.13 35.00
4.0				038 129.26 53.00	110 73.58 28.00	110 73.58 28.00
4.5				040 71.58 27.00	115 91.13 35.00	115 91.13 35.00
5.0				045 91.13 35.00	120 73.58 28.00	120 73.58 28.00
5.5				050 71.58 27.00	125 91.13 35.00	125 91.13 35.00
5.6				055 91.13 35.00	130 73.58 28.00	130 73.58 28.00
6.0				060 71.58 27.00	135 91.13 35.00	135 91.13 35.00
6.3				063 139.26 53.00	140 73.58 28.00	140 73.58 28.00
6.5				065 91.13 35.00	145 91.13 35.00	145 91.13 35.00

Clamping range covered: H10 corresponding to shank Ø DCONWS

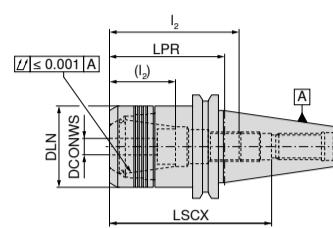
## ER Precision Collet chuck – Centro-P

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

### Scope of supply:

Holder without nut, without backstop

Centro-P WNT \ Performance



AD

AD/B

AD/B

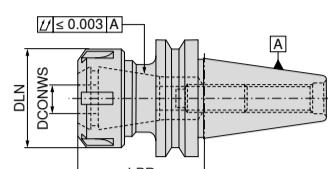
G 2,5 n<sub>max</sub> 25000

Adapter	DCONWS	LPR	DLN	LSCX	$I_2 (I_2)$	for collet	84 414 ...
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)	510 252.32 96.00
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)	910 278.17 106.00
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)	816 229.14 87.00
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)	516 274.22 104.00
SK 40	2 - 20	160	50	114	50 - 74 (36 - 55)	470E (ER32)	916 288.89 110.00
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)	620 274.22 104.00
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)	520 269.35 179.00
SK 50	2 - 20	160	50				

**ER-Collet chuck**▲ also available with Balluff chip **on request****Scope of supply:**

Holder with lock nut and adjustable back stop

WNT \ Standard

G 2,5 n<sub>max</sub> 18000

AD/B

82 509 ...

Adapter	DCONWS	LPR	DLN	TQX	for collet	£	£
BT 40	1 - 10	60	32	56	426E (ER16)	110	35.00
BT 40	1 - 16	70	42	104	430E (ER25)	116	37.00
BT 40	2 - 20	70	50	136	470E (ER32)	120	37.00
BT 40	3 - 26	70	63	176	472E (ER40)	126	39.00

short	BT 40	1 - 10	120	32	56	426E (ER16)	410	40.00
medium length	BT 40	1 - 16	120	42	104	430E (ER25)	416	40.00
medium length	BT 40	2 - 20	120	50	136	470E (ER32)	420	40.00

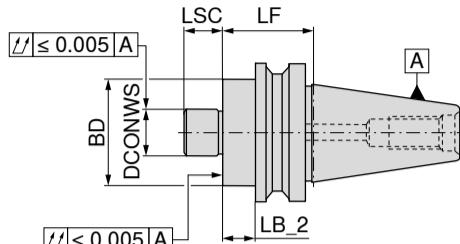
**Shell mill adapter**

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

▲ also available with Balluff chip **on request****Scope of supply:**

Toolholder with clamping screw

WNT \ Standard

G 2,5 n<sub>max</sub> 18000

AD/B

82 514 ...

Adapter	DCONWS	LB_2	LF	BD	LSC	£	£
BT 40	16	25	52	38	17	116	46.00
BT 40	22	25	52	48	19	122	50.00
BT 40	27	25	52	58	21	127	50.00
BT 40	32	23	50	78	24	132	53.00
BT 40	40	23	50	88	27	140 <sup>1)</sup>	58.00

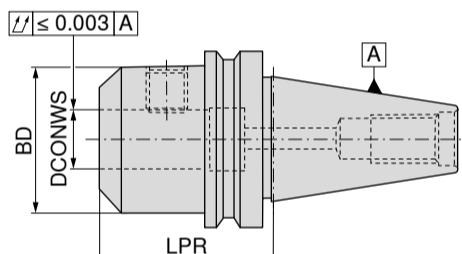
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

**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



short	Adapter	DCONWS	LPR	BD
short	BT 40	6	50	25
short	BT 40	8	50	28
short	BT 40	10	63	35
short	BT 40	12	63	42
short	BT 40	14	63	44
short	BT 40	16	63	48
short	BT 40	18	63	50
short	BT 40	20	63	52
short	BT 40	25	100	65
short	BT 40	32	100	72

medium length	BT 40	6	100	25
medium length	BT 40	8	100	28
medium length	BT 40	10	100	35
medium length	BT 40	12	100	42
medium length	BT 40	14	100	44
medium length	BT 40	16	100	48
medium length	BT 40	18	100	50
medium length	BT 40	20	100	52

extra-long	BT 40	6	160	25
extra-long	BT 40	8	160	28
extra-long	BT 40	10	160	35
extra-long	BT 40	12	160	42
extra-long	BT 40	14	160	44
extra-long	BT 40	16	160	48
extra-long	BT 40	18	160	50
extra-long	BT 40	20	160	52
extra-long	BT 40	25	160	65

G 2,5 n<sub>max</sub> 18000

AD/B

82 501 ...

BT 40	106	35.00
BT 40	108	35.00
BT 40	110	35.00
BT 40	112	35.00
BT 40	114	35.00
BT 40	116	35.00
BT 40	118	35.00
BT 40	120	35.00
BT 40	125	35.00
BT 40	132 <sup>1)</sup>	40.00

G 2,5 n<sub>max</sub> 18000

AD/Be

82 504 ...

BT 40	106	50.00
BT 40	108	50.00
BT 40	110	50.00
BT 40	112	50.00
BT 40	114	50.00
BT 40	116	50.00
BT 40	118	50.00
BT 40	120	50.00

1) Version with two Grubscrews



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



Technical support: 0800 073 2 075

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

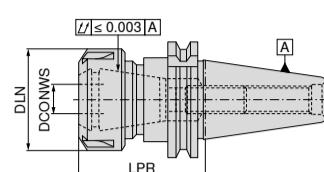


Order by 6:00 pm and get your guaranteed free express delivery

**ER Collet chuck**▲ also available with Balluff chip **on request****Scope of supply:**

Holder with lock nut and adjustable back stop

WNT \ Standard

G 2,5 n<sub>max</sub> 18000  
AD/B

82 415 ...

Adapter	DCONWS	LPR	DLN	TQX	for collet		£	£
	mm	mm	mm	Nm				
short	SK 40	1 - 10	60	32	56	426E (ER16)	110	92.60 35.00
	SK 40	1 - 16	70	42	104	430E (ER25)	116	97.20 37.00
	SK 40	2 - 20	70	50	136	470E (ER32)	120	97.20 37.00
	SK 40	3 - 26	70	63	176	472E (ER40)	126	102.60 39.00
medium length	SK 40	1 - 10	120	32	56	426E (ER16)	410	105.96 40.00
	SK 40	1 - 16	120	42	104	430E (ER25)	416	105.96 40.00
	SK 40	2 - 20	120	50	136	470E (ER32)	420	105.96 40.00

Adapter	DCONWS	LPR	DLN	TQX	for collet		£	£
	mm	mm	mm	Nm				
SK 40	1 - 10	120	32	56	426E (ER16)	410	105.96 40.00	
SK 40	1 - 16	120	42	104	430E (ER25)	416	105.96 40.00	
SK 40	2 - 20	120	50	136	470E (ER32)	420	105.96 40.00	

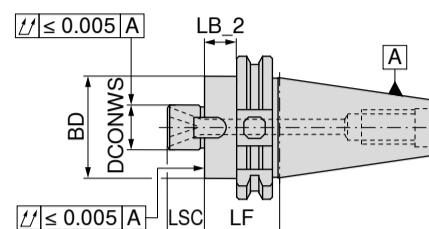
**Shell mill adapter**

▲ Screwed drive dogs

▲ also available with Balluff chip **on request****Scope of supply:**

Toolholder with clamping screw

WNT \ Standard

G 2,5 n<sub>max</sub> 18000

82 428 ...

Adapter	DCONWS	LB_2	LF	BD	LSC		£	£
	mm	mm	mm	mm	mm			
short	SK 40	16	25	44	38	17	116	120.32 46.00
	SK 40	22	25	44	48	19	122	130.92 50.00
	SK 40	27	36	55	58	21	127	132.12 50.00
	SK 40	32	31	50	78	24	132	139.71 53.00
	SK 40	40	31	50	88	27	140 <sup>1)</sup>	151.83 58.00

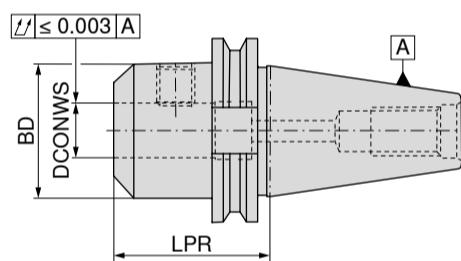
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

**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

G 2,5 n<sub>max</sub> 18000G 2,5 n<sub>max</sub> 18000

82 401 ...

82 404 ...

Adapter	DCONWS	LPR	BD		£	£
	mm	mm	mm			
short	SK 40	6	50	25	106	92.60 35.00
	SK 40	8	50	28	108	92.60 35.00
	SK 40	10	50	35	110	92.60 35.00
	SK 40	12	50	42	112	92.60 35.00
	SK 40	14	50	44	114	92.60 35.00
	SK 40	16	63	48	116	92.60 35.00
	SK 40	18	63	50	118	92.60 35.00
	SK 40	20	63	52	120	92.60 35.00
	SK 40	25	100	65	125 <sup>1)</sup>	92.60 35.00
	SK 40	32	100	72	132 <sup>1)</sup>	105.96 40.00
medium length	SK 40	6	100	25	506	99.31 38.00
	SK 40	8	100	28	508	99.31 38.00
	SK 40	10	100	35	510	99.31 38.00
	SK 40	12	100	42	512	99.31 38.00
	SK 40	14	100	44	514	99.31 38.00
	SK 40	16	100	48	516	136.12 52.00
	SK 40	18	100	50	518	99.31 38.00
	SK 40	20	100	52	520	136.12 52.00
extra-long	SK 40	6	160	25	606	105.96 40.00
	SK 40	8	160	28	608	105.96 40.00
	SK 40	10	160	35	610	105.96 40.00
	SK 40	12	160	42	612	105.96 40.00
	SK 40	14	160	44	614	105.96 40.00
	SK 40	16	160	48	616	105.96 40.00
	SK 40	18	160	50	618	105.96 40.00
	SK 40	20	160	52	620	105.96 40.00
	SK 40	25	160	65	625 <sup>1)</sup>	105.96 40.00

1) Version with two Grubscrews



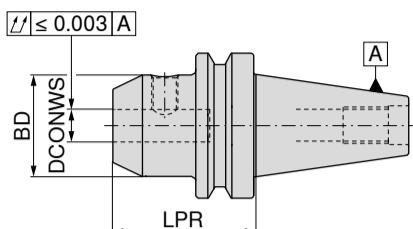
Spare parts can be found in → Chapter 16 Adapters and accessories in the clamping technology catalogue.



**Cylindrical shank adapter (Weldon) – BT-FC**

- ▲ with face contact
- ▲ for shanks according to DIN 6535 / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip on request

WNT \ Standard



Adapter	DCONWS mm	LPR mm	BD mm	84 552 ...	
				£	£
BT-FC 30	6	50	25	006	44.00
BT-FC 30	8	50	28	008	44.00
BT-FC 30	10	50	35	010	44.00
BT-FC 30	12	50	42	012	44.00
BT-FC 30	16	63	48	016	47.00
BT-FC 30	20	63	52	020	47.00
BT-FC 40	6	50	25	106	56.00
BT-FC 40	8	50	28	108	54.00
BT-FC 40	10	63	35	110	54.00
BT-FC 40	12	63	42	112	54.00
BT-FC 40	16	63	48	116	54.00
BT-FC 40	20	63	52	120	54.00
BT-FC 40	25	90	65	125 <sup>1)</sup>	72.00
BT-FC 40	32	100	72	132 <sup>1)</sup>	72.00
BT-FC 50	6	63	25	306	83.00
BT-FC 50	8	63	28	308	81.00
BT-FC 50	10	63	35	310	81.00
BT-FC 50	12	80	42	312	81.00
BT-FC 50	16	80	48	316	81.00
BT-FC 50	20	80	52	320	81.00
BT-FC 50	25	100	65	325 <sup>1)</sup>	92.00
BT-FC 50	32	105	72	332 <sup>1)</sup>	92.00

1) Version with two Grubscrews

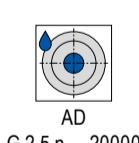
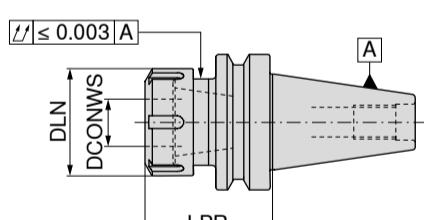
**ER Collet chuck – BT-FC**

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

**Scope of supply:**

Toolholder including nut

WNT \ Standard



Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	84 557 ...	
						£	£
BT-FC 30	1 - 10	63	28	56	426E (ER16)	010 <sup>1)</sup>	50.00
BT-FC 30	1 - 16	60	42	104	430E (ER25)	016	50.00
BT-FC 30	2 - 20	60	50	136	470E (ER32)	020	50.00
BT-FC 40	1 - 10	63	28	56	426E (ER16)	110 <sup>1)</sup>	63.00
BT-FC 40	1 - 16	60	42	104	430E (ER25)	116	63.00
BT-FC 40	2 - 20	60	50	136	470E (ER32)	120	63.00
BT-FC 50	1 - 16	70	42	104	430E (ER25)	316	86.00
BT-FC 50	2 - 20	70	50	136	470E (ER32)	320	86.00

medium length BT-FC 50 1 - 10 100 28 56 426E (ER16) 310<sup>1)</sup> 86.00

1) with 6 position lock nut

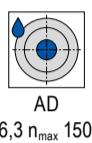
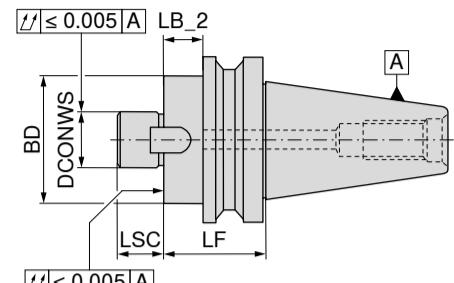


Spare parts can be found in → Chapter 16 Adapters and accessories in the clamping technology catalogue.

**Shell mill adapter – BT-FC**

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

WNT \ Standard



Adapter	DCONWS	LB_2	LF	BD	LSC	84 562 ...	
	mm	mm	mm	mm	mm	£	£
BT-FC 30	16	18	39.0	40	17	016	49.00
BT-FC 30	22	18	39.0	50	19	022	49.00
BT-FC 30	27	18	39.0	60	21	027	49.00
BT-FC 30	32	28	49.0	80	24	032	49.00
BT-FC 40	16	8	34.0	40	17	116	58.00
BT-FC 40	22	8	34.0	50	19	122	58.00
BT-FC 40	27	8	34.0	60	21	127	58.00
BT-FC 40	32	23	49.0	80	24	132	58.00
BT-FC 50	22	12	48.5	50	19	322	68.00
BT-FC 50	27	12	48.5	60	21	327	68.00
BT-FC 50	32	12	48.5	80	24	332	72.00
BT-FC 50	40	17	53.5	89	27	340	72.00

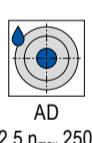
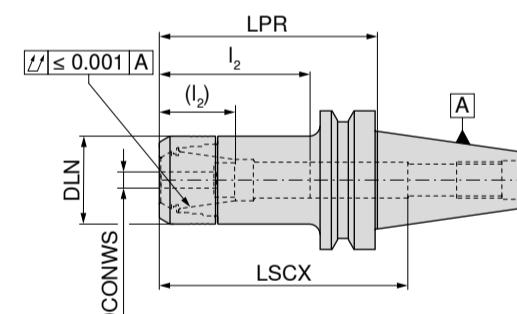
**ER Precision Collet chuck – Centro-P – BT-FC**

- ▲ with face contact
- ▲ for standard or sealed nuts
- ▲ maximum clamping range covered according to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ p<sub>max</sub> = 80 bar
- ▲ also available with Balluff chip on request

**Scope of supply:**

Holder without nut, without backstop

Centro-P WNT \ Performance



Adapter	DCONWS	LPR	BD	LSCX	I <sub>2</sub> (I <sub>2</sub> )	for collet	84 525 ...	
	mm	mm	mm	mm	mm		£	£
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	002	102.00
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	012	103.00
BT-FC 30	2 - 20	75	45	84	42 - 62 (24 - 45)	470E (ER32)	022	103.00
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	102	113.00
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	112	115.00
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	122	115.00

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

medium length BT-FC 50 1 - 10 100 28 56 426E (ER16) 310<sup>1)</sup> 86.00

1) with 6 position lock nut



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



Technical support: 0800 073 2 075

3 time served engineers,

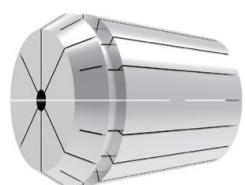
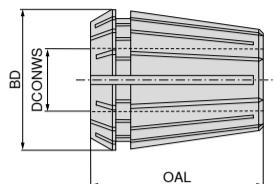
available from 8:00 am to 6:00 pm, Monday to Friday

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

## ER precision collet

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

**ER-B**  
20 µm    WNT \ Standard



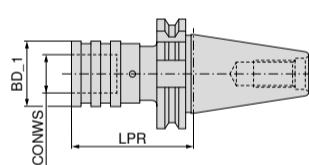
DCONWS mm	BD = 17 OAL = 27.5 426 E / ER16		BD = 21 OAL = 31.5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40							
	82 673 ...	£	82 674 ...	£	82 675 ...	£	82 676 ...	£	82 677 ...	£						
1	01000	28.00	11.00	01000 1)	27.44	10.00	02000	28.30	11.00	03000	21.15	8.00				
2	02000	28.00	11.00	02000	27.44	10.00	04000	19.54	7.00	04000	21.15	8.00				
3	03000	23.05	9.00	03000	18.57	7.00	05000	19.54	7.00	05000	21.15	8.00				
4	04000	23.05	9.00	04000	18.57	7.00	06000	19.54	7.00	06000	21.15	8.00				
5	05000	23.05	9.00	05000	18.57	7.00	07000	19.54	7.00	07000	21.15	8.00				
6	06000	23.05	9.00	06000	18.57	7.00	08000	19.54	7.00	08000	21.15	8.00				
7	07000	23.05	9.00	07000	18.57	7.00	09000	19.54	7.00	09000	21.15	8.00				
8	08000	23.05	9.00	08000	18.57	7.00	10000	19.54	7.00	10000	21.15	8.00				
9	09000	23.05	9.00	09000	18.57	7.00	11000	19.54	7.00	11000	21.15	8.00				
10	10000	23.05	9.00	10000	18.57	7.00	12000	18.57	7.00	12000	21.15	8.00				
11				13000	18.57	7.00	13000	19.54	7.00	13000	21.15	8.00				
12							14000	19.54	7.00	14000	21.15	8.00				
13							15000	19.54	7.00	15000	21.15	8.00				
14							16000	19.54	7.00	16000	21.15	8.00				
15							17000	21.15	8.00	17000	26.71	10.00				
16							18000	21.15	8.00	18000	26.71	10.00				
17							19000	21.15	8.00	19000	26.71	10.00				
18							20000	21.15	8.00	20000	26.71	10.00				
19										21000	26.71	10.00				
20										22000	26.71	10.00				
21										23000	26.71	10.00				
22										24000	26.71	10.00				
23										25000	26.71	10.00				
24										26000	26.71	10.00				
25																
26																
Set in wooden box		99900	369.00	141.00	99900	369.00	141.00	99900	369.00	141.00	99900	395.55	150.00	99900	622.13	240.00

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



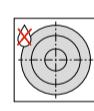
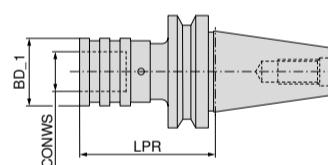
A

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 428 ...	£	£
SK 30	M6 - M20	02	101	55	31	15	320	577.70	220.00
SK 30	M3 - M12	01	60	38	19	9	312	508.40	194.00
SK 40	M6 - M20	02	100	55	31	15	420	425.54	162.00
SK 40	M3 - M12	01	60	38	19	9	412	392.74	150.00
SK 50	M6 - M20	02	83	55	31	15	520	635.32	242.00
SK 50	M3 - M12	01	62	38	19	9	512	586.51	223.00

## Quick change tap chuck with length compensation

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

WNT \ Standard



A

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS	LZD± mm	83 528 ...	£	£
BT 30	M3 - M12	01	63	38	19	9	312	511.20	195.00
BT 30	M6 - M20	02	96	55	31	15	320	541.00	244.00
BT 40	M3 - M12	01	68	38	19	9	412	410.17	156.00
BT 40	M6 - M20	02	93	55	31	15	420	425.54	162.00
BT 50	M3 - M12	01	80	38	19	9	512	607.37	262.00
BT 50	M6 - M20	02	102	55	31	15	520	701.32	301.00

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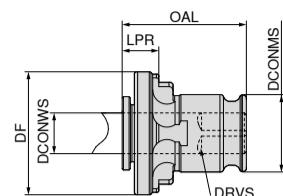
cutting tools by CERATIZIT KOMET Klenk



## 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		83 610 ...
	mm	mm			mm	mm	mm	mm	£	£
01	11.0	9.0		M14	30	19	28.5	7	110	42.29 16.00
01	3.5	2.7	M3		30	19	28.5	7	100	42.29 16.00
01	4.5	3.4	M4		30	19	28.5	7	101	42.29 16.00
01	4.0	3.0	M3.5		30	19	28.5	7	102	42.29 16.00
01	2.8	2.1	M2 - M2.6		30	19	28.5	7	103	42.29 16.00
01	5.5	4.3		M7	30	19	28.5	7	104	42.29 16.00
01	6.0	4.9	M4.5 - M6	M8	30	19	28.5	7	105	42.29 16.00
01	7.0	5.5	M7	M10	30	19	28.5	7	106	42.29 16.00
01	8.0	6.2	M8	M11	30	19	28.5	7	107	42.29 16.00
01	9.0	7.0	M9	M12	30	19	28.5	7	108	42.29 16.00
01	10.0	8.0	M10		30	19	28.5	7	109	42.29 16.00
02	6.0	4.9	M4.5 - M6		46	31	46.0	11	200	58.16 22.00
02	7.0	5.5	M7		46	31	46.0	11	201	58.16 22.00
02	8.0	6.2	M8		46	31	46.0	11	202	58.16 22.00
02	9.0	7.0	M9		46	31	46.0	11	203	58.16 22.00
02	10.0	8.0	M10		46	31	46.0	11	204	58.16 22.00
02	11.0	9.0		M14	46	31	46.0	11	205	58.16 22.00
02	12.0	9.0		M16	46	31	46.0	11	206	58.16 22.00
02	14.0	11.0		M18	46	31	46.0	11	207	58.16 22.00
02	16.0	12.0		M20	46	31	46.0	11	208	58.16 22.00
02	18.0	14.5		M22 - M24	46	31	46.0	11	209	58.16 22.00

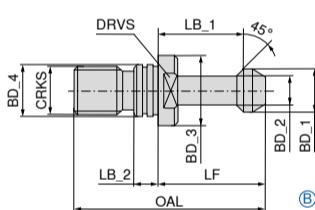
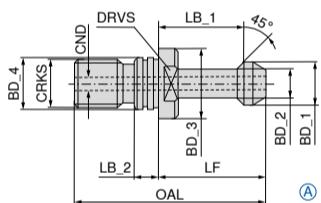
## Pull stud for tool holders according to ISO 7388-2

- ▲ 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	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	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	30	145	

	82 530 ...	82 534 ...	
	£	£	
030	19.00 7.00	030	19.00 7.00
040	46.35 6.00	040	46.35 7.00
050	23.10 9.00	050	24.56 9.00

## Pull studs for tool holders according to ISO 7388-1

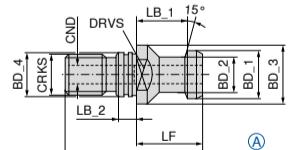
- ▲ DIN 69872 form A and B

- ▲ 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 ...
	£
030	15.56 6.00
040	13.24 5.00
050	19.66 7.00



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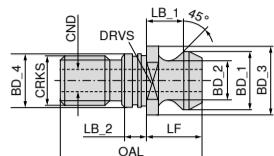
## Pull studs for tool holders according to ISO 7388-1

▲ 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 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX 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

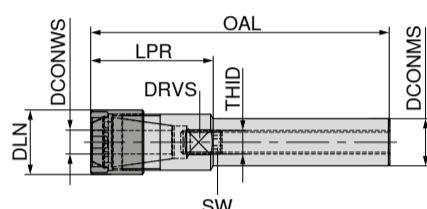
**82 487 ...**

040	13.24	5.00
050	20.77	8.00

## ER collet chuck with mini clamping nut

▲ with cylindrical shank

**WNT** \ Standard



DCONMS h6 mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	for collet
8	1 - 5	81	26	12	M5x0,8	9	4004E (ER08)
12	1 - 5	157	20	12	M5x0,5	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 ...**

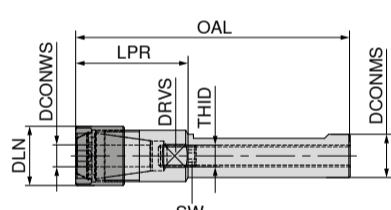
081	136.23	52.00
122	288.14	110.00
163	283.09	108.00
164	288.14	110.00
165	283.09	108.00
204	203.04	77.00
254	234.90	89.00
256	295.91	113.00

1) without coolant supply (form A)

## ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat

**WNT** \ Standard



DCONMS h6 mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	for collet
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)

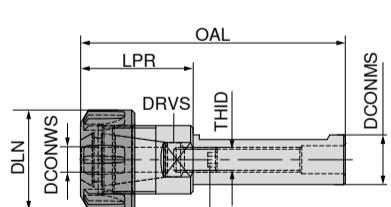
**83 454 ...**

204	203.04	77.00
206	145.98	56.00
208	170.22	65.00
254	234.90	89.00
256	295.91	113.00

## ER Collet Chuck

▲ with cylindrical shank and clamping flat

**WNT** \ Standard



DCONMS h6 mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	for collet
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 ...**

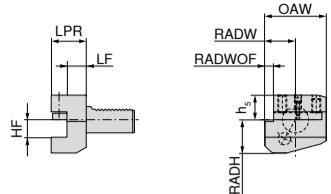
401	172.96	66.00
402	213.56	81.00
405	198.28	76.00

Note: Spanner to be ordered separately.

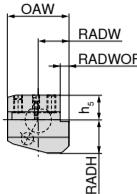


## Radial tool holders, short

WNT \ Performance



B2



B1

B2

B1

DCONMS	$h_6$	HF $0/-0.1$	OAW	RADW	RADWOF	$h_5$	RADH	LF $0/+0.5$	LPR
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
16	12	42	23.0	5.0	20.0	22	13.0	24	
20	16	55	30.0	7.0	25.0	30	16.0	30	
20	16	55	30.0	7.0	25.0	30	26.0	40	
30	20	70	35.0	10.0	28.0	38	18.5	40	
30	20	70	35.0	10.0	28.0	38	42.0	60	
40	25	85	42.5	12.5	32.5	48	18.5	44	
50	32	100	50.0	16.0	35.0	60	30.0	55	

Left-hand

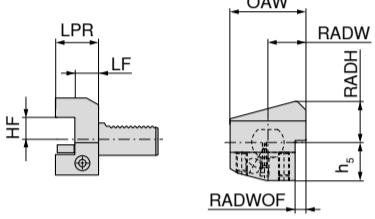
82 189 ...	£	£
200	166.25	63.00
201	216.70	83.00
300	180.02	69.00
301	234.61	108.00
400	182.42	69.00
500	282.84	108.00

Right-hand

82 185 ...	£	£
160	194.74	74.00
200	177.47	68.00
201	204.77	78.00
300	163.21	62.00
301	270.12	103.00
400	166.55	63.00
500	278.20	106.00

## Radial tool holders, overhead, short

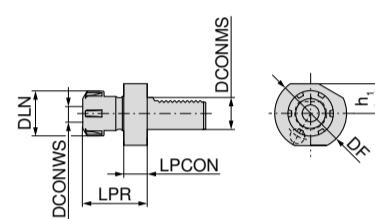
WNT \ Performance



B3

## ER Collet chucks

WNT \ Performance



E4

DCONMS	$h_6$	HF $0/-0.1$	OAW	RADW	RADWOF	$h_5$	RADH	LF $0/+0.5$	LPR
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
16	12	42	23.0	5.0	20.0	22	13.0	24	
20	16	55	30.0	7.0	25.0	30	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	

Right-hand

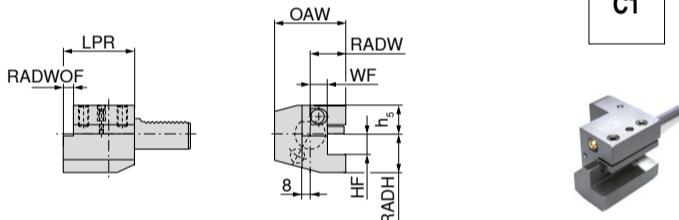
82 193 ...	£	£
160	205.29	78.00
201	257.64	98.00
300	160.17	64.00
400	177.85	68.00
500	282.84	108.00

DCONMS	$h_6$	DCONWS	DF	DLN	$h_1$	LPR	LPCON	for collet
mm	mm	mm	mm	mm	mm	mm	mm	
16	1 - 10	40	28	18.0	45.5	14	426E (ER16)	
16	1 - 13	40	34	18.0	44.0	14	428E (ER20)	
20	1 - 16	50	42	23.0	57.0	18	430E (ER25)	
20	2 - 20	50	50	23.0	62.0	18	470E (ER32)	
30	1 - 16	68	42	28.0	57.0	22	430E (ER25)	
30	2 - 20	68	50	28.0	75.0	22	470E (ER32)	
40	1 - 16	83	42	32.5	63.0	22	430E (ER25)	
40	2 - 20	83	50	32.5	75.0	22	470E (ER32)	
40	3 - 26	83	63	32.5	75.0	22	472E (ER40)	
50	2 - 20	94	50	35.0	75.0	30	470E (ER32)	
50	3 - 26	94	63	35.0	63.0	30	472E (ER40)	

82 286 ...	£	£
160	280.77	107.00
161	277.84	106.00
202	228.77	87.00
203	239.12	91.00
300	225.76	86.00
301	225.07	86.00
400	244.70	93.00
401	244.70	93.00
402	240.40	92.00
402	356.52	136.00
500	356.52	136.00
501	356.52	136.00

## Axial tool holders

WNT \ Performance

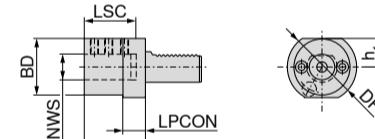


C1

## Boring bar holder

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

WNT \ Performance



E2

DCONMS	$h_6$	HF $0/-0.1$	OAW	RADW	WF $0/+0.3$	$h_5$	RADH	LPR	RADWOF
mm	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	

Right-hand

82 211 ...	£	£


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