



It couldn't be easier  
**Ordering via the  
 Online Shop**  
<http://cuttingtools.ceratizit.com>



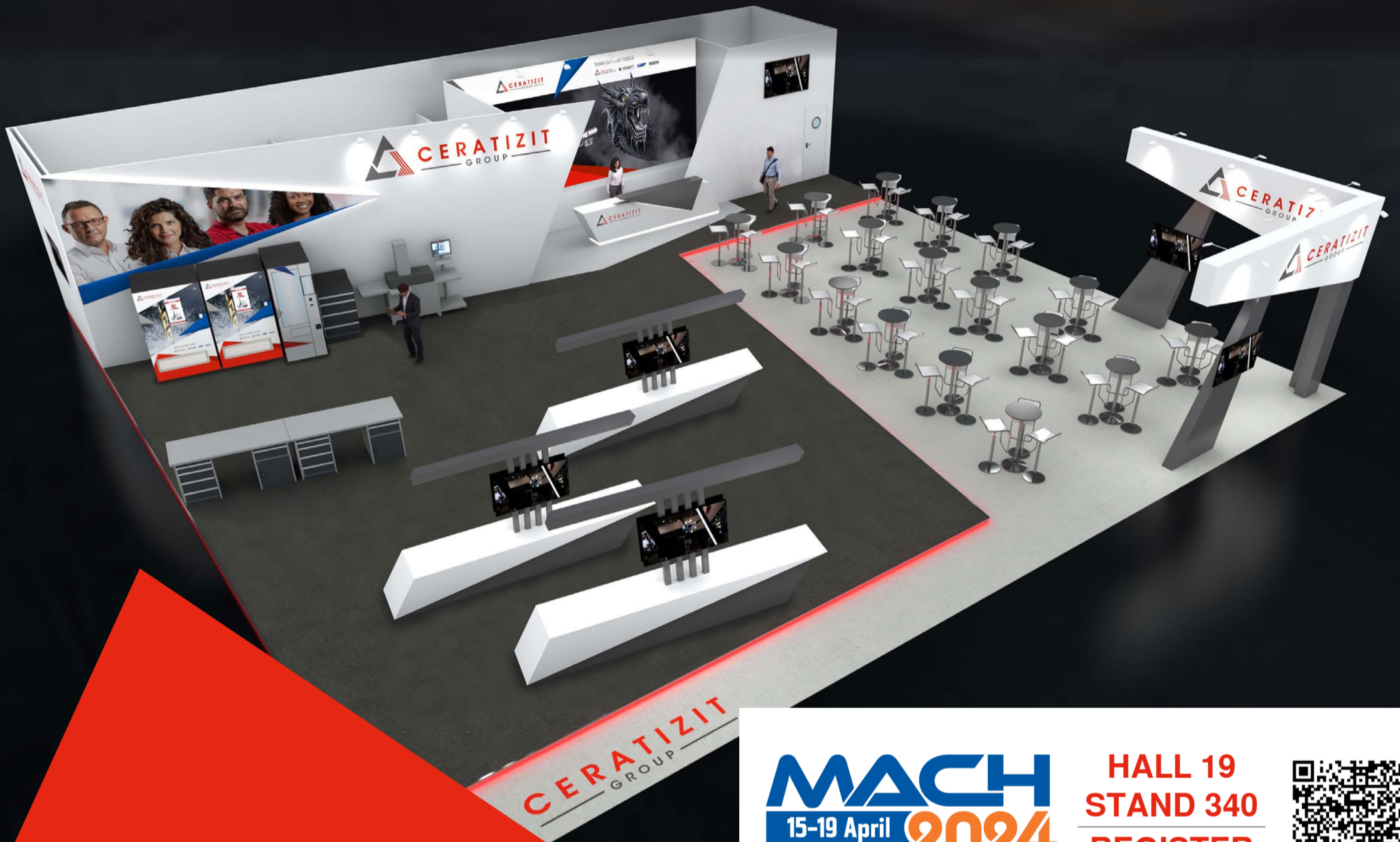
Competent advice also available on call  
**Application engineers  
 with know-how**  
 Monday to Friday from 8:00 am – 6:00 pm  
 Freephone Number: 0800 073 2075  
 Email: [techsupport.uk@ceratizit.com](mailto:techsupport.uk@ceratizit.com)



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**COME AND SEE US AT**

**MACH 2024**



**MACH**  
 15-19 April  
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**HALL 19  
 STAND 340  
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**SPECIAL  
 SELECTION**

VALID: 01.03.2024 – 31.05.2024

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

**Tooling a Sustainable Future**

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



**CERATIZIT**  
 GROUP





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15-19 April 2024  
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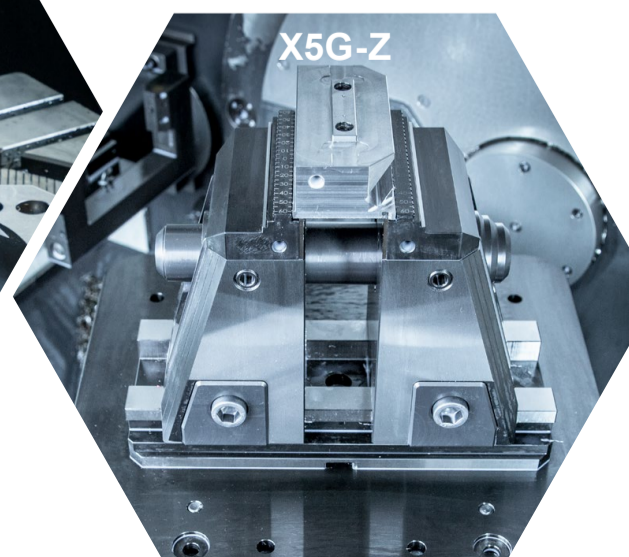
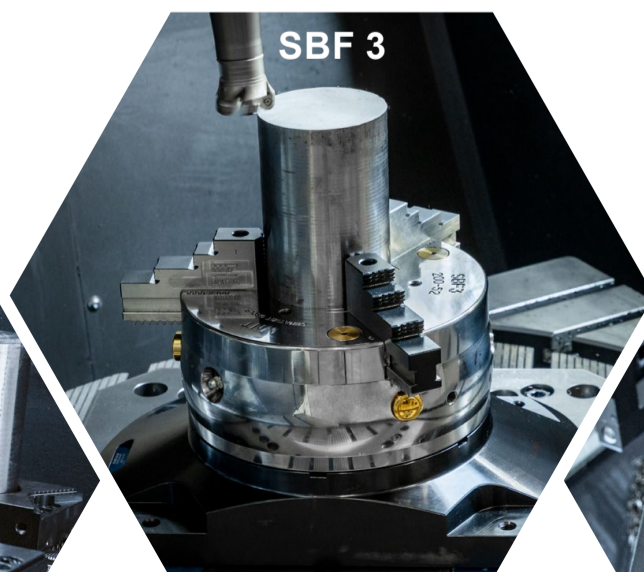
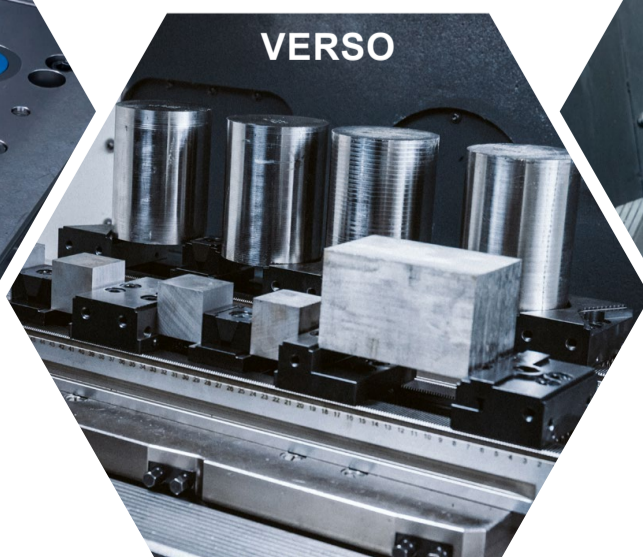
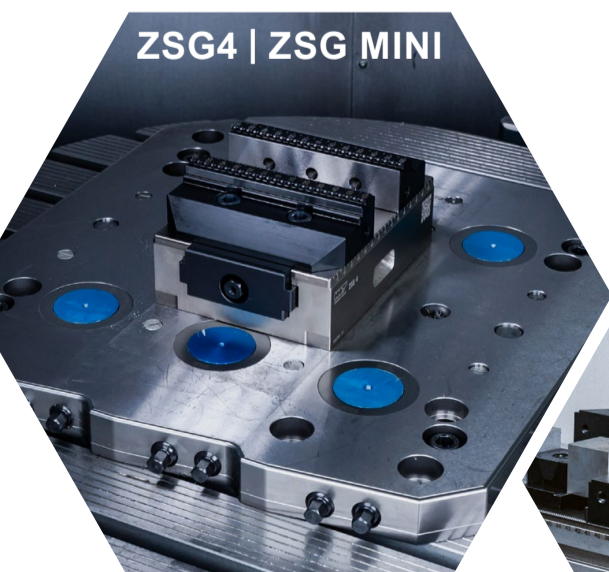
## FULL RANGE OF HIGHLIGHT AND PERFORMANCE CUTTING TOOLS AND WORK HOLDING ON SHOW

### Including:

- ▲ ISO-P Turning Inserts with wear detection layer
- ▲ WPC Change – performance drill for low CPP
- ▲ SX Slot milling – new generation Indexable slot milling system
- ▲ NCR solid carbide milling – Performance HRSA solid carbide milling tool range
- ▲ Hypower chucks – Performance hydraulic tool holding
- ▲ MaxiMill273-08 – 16 edge face milling system
- ▲ EcoCut Classic – now with PSC and HSK-T direct connections
- ▲ ZSG 4 – New generation version of our best selling centric vice
- ▲ PolyClamp Verso – multiple component clamping solution
- ▲ MNG Zero Point – quick change set ups, with less than 10 micron repeatability
- ▲ BMT – extended range of turning tool holders
- ▲ MaxiLock Direct Cooling – External and Internal tooling with direct cooling
- ▲ MaxiChange – Exchangeable head system, with vibration dampened boring bars

## INTERACTIVE VICE DISPLAY

Our latest clamping technology and developments





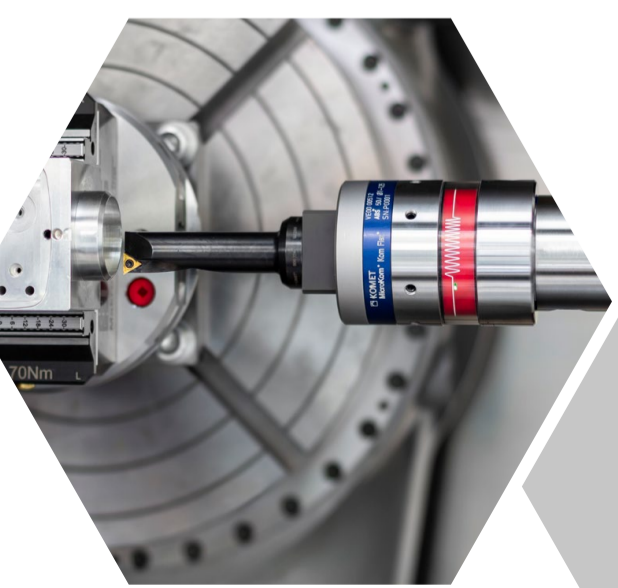


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## COME AND SEE OUR LATEST TOOLS



## TECHNOLOGY IN FOCUS

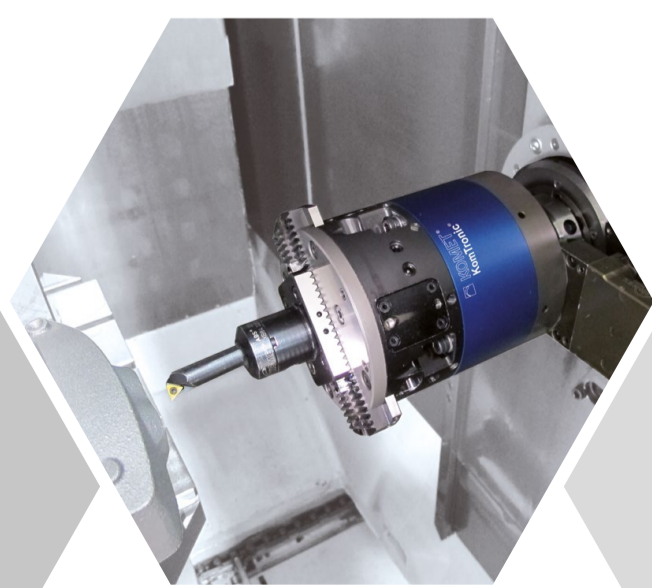


### KOMflex

Combined system with precision adjustment head and BLUM measuring probe technology  
 Closed loop automatic diameter correction



[cuttingtools.ceratizit.com/gb/en/komflex](http://cuttingtools.ceratizit.com/gb/en/komflex)



### KOMtronic U-axis system

Efficient actuating tool systems for turning contours with a stationary workpiece for machining centres and special-purpose machines



[cuttingtools.ceratizit.com/gb/en/komtronic](http://cuttingtools.ceratizit.com/gb/en/komtronic)



# TECHNICAL CENTRE SHEFFIELD



WHERE TO FIND US



## COME AND SEE US AND DISCUSS HOW WE CAN MANAGE YOUR PROJECTS

Projects managed from drawing to final completion and approval. With full process documentation – including CAD illustrated operation, cutting data, cutting strategies, strategy information, full tool build ups and supporting quote.

## COME AND SEE OUR FULL RANGE OF VENDING SOLUTIONS IN OPERATION AT OUR TECH CENTRE

### ToolSupply

#### TOOL-O-MAT / CONSIGNMENT STOCK

#### TOM840

In conjunction with TOM840 Vending Solutions, you can now easily manage your regrinds yourself through our vending system.



#### myTOM

#### OWN-ARTICLE MANAGEMENT

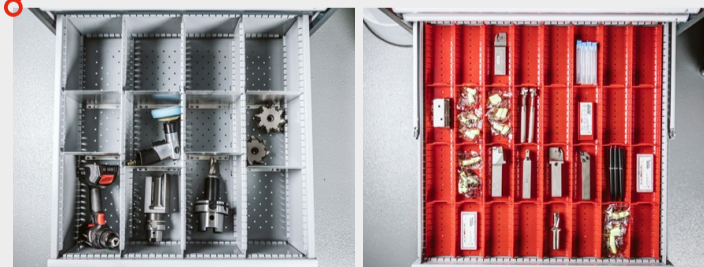
- ▲ Simple self-administration via your own portal
- ▲ Possibility to store and manage any of your own items
- ▲ Direct link to the interface of your Tool-O-Mat



Intuitive operation thanks to the proven ToolSupply user interface



Drawers can be individually adapted to your needs



Full transparency and control







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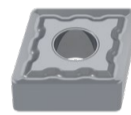
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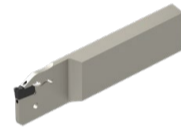
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## Colour code information

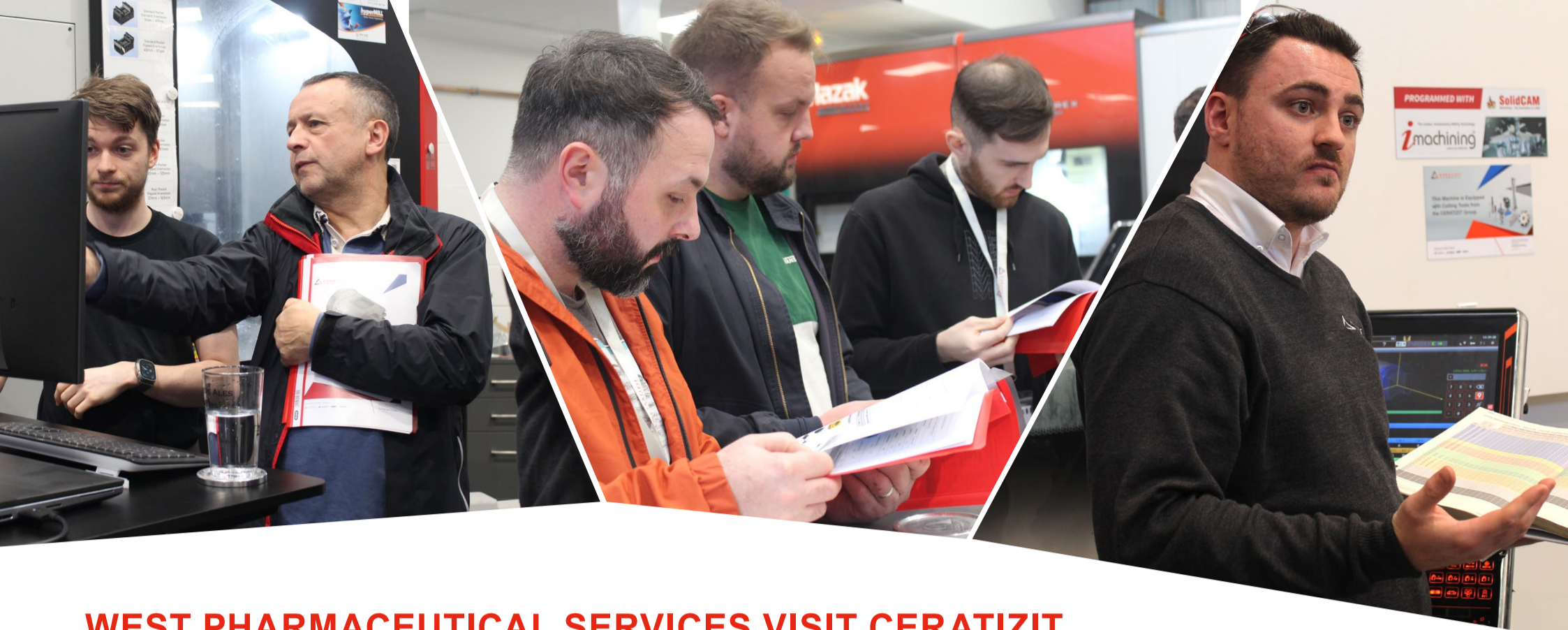
P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	Heat-resistant
H	Tempered steel
O	Non metal materials

**SEE THE NEW  
SPECIAL SELECTION E-CATALOGUE**

Download your e-Catalogue here

[cts.ceratzit.com/gb/en/specialselection03-24](https://cts.ceratzit.com/gb/en/specialselection03-24)





## WEST PHARMACEUTICAL SERVICES VISIT CERATIZIT FOR TECHNICAL TRAINING AT THE TECH CENTRE

CERATIZIT recently invited West Pharmaceutical Services to their Technical Centre on the Advanced Manufacturing Park for one of their technical training days. These allow customers to receive in depth cutting tool training and benefit from CERATIZIT's technical expertise.

West Pharmaceutical Services have been valued customers of CERATIZIT's for several years and were invited to the technical training day, by Iain Tattersall, Technical Sales Engineer for CERATIZIT UK & Ireland Ltd., who regularly visits the company, along with CERATIZIT Application Sales Engineer Vince Witham, to provide technical and tooling support. The invitation was extended, not only as a gesture of appreciation for being long-standing customers, but also so that they could be brought up to speed on CERATIZIT's latest innovations, their advancements in tooling and be shown the latest and most advanced machine techniques and metal cutting skills which can then be used back on the shopfloor in Cornwall.

More importantly, training days, such as the ones CERATIZIT run on a weekly basis, help to fill the gap that is present in the engineering industry. Realising the importance of passing on the knowledge that they have learned from years of industry experience, younger generations are encouraged to take part in these training days so that these technical skills are not lost in the future. Sharing innovative machining techniques, practises and skills, CERATIZIT training ensures that customers get the most from the CERATIZIT tooling.

For West Pharmaceutical Services, the day started off with a morning of in-depth theoretical training which was delivered by Shaun Thornton, Technical Manager for CERATIZIT UK & Ire Ltd. Covering everything from materials, tools and sustainability, to speeds, feeds and cutting data, this extensive training equips customers with a solid foundation of background knowledge that will be useful in maximising the performance and profitability of machines. Taking time to answer questions and ensure that everyone has followed everything covered in the theoretical training, Shaun then led the customers downstairs to the workshop where they could put all this theoretical knowledge to the test.

With a passion for passing on specialised technical skills, the latest machine techniques and the most up to date practises, the engineers at the Tech Centre planned an afternoon of practical learning whereby guests could incorporate the morning's theory with some engineer-led machine demonstrations. After lunch and a chance to recharge, the afternoon's practical training began with an interactive cutting tool demonstration on the MAZAK Integrex I-250H. Allowing the customers to input the cutting data, the guests could see how each operation ran and which values of cutting data worked best for the specified machine conditions. Immersing guests in hands-on, interactive training, is at the heart of CERATIZIT training days. Furthermore, live video feeds from the machines, played on large screens throughout the workshop, meant that everyone could get a detailed view of how the operations were running and whether their cutting data had been calculated correctly.

After the demonstration on the MAZAK, it was time for more interactive demonstrations on the XYZ machines. On the XYZ 800HD and the XYZ UMC 5X, the visitors once again were encouraged to work out the cutting data for themselves, before putting their knowledge to the test and running the specified programs. On the XYZ UMC 5X, guests took part in a machine demonstration whereby they were shown how their free aluminium pen pots, given out to customers at training days, were made. This machine demonstration also showcased CERATIZIT's latest cutting tool technology; KOMflex and ToolScope. ToolScope is a process monitoring control system that can be retrofitted to most CNC machines. Monitoring spindle torque and live cutting data, this information can then be used to optimise things like tool wear and prevention of tool breakages and collisions. Pairing this with KOMflex, an actuated closed loop boring and probing system, the engineers demonstrated how these technologies streamline machining processes and prevent damages which occur thanks to the advanced monitoring they allow with ToolScope, while reducing the risk of scrapping costly components, with KomFlex.

Once everyone had finished their demonstrations and all questions had been answered, customers were given fully documented training booklets containing information on the tooling, machine demonstrations and cutting data that they had used throughout the day. After that, the customers headed home. Following on from the training day, Vince helped West Pharmaceutical Services to implement changes to the current tooling and cutting data back on-site in Cornwall. These changes, influenced by the training day, had an immediate positive effect on productivity, cycle times and tool life. Continuing their strong working relationship with both Vince and Iain, West Pharmaceutical Services are regularly visited by both CERATIZIT engineers for unmatched technical support and tooling recommendations.

Do you think that you would benefit from taking part in a CERATIZIT training day? Speak to your CERATIZIT Technical Sales Engineer to ask about availability and booking.

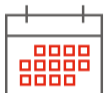




# CERATIZIT TECH CENTRE



## CUSTOMER TRAINING DAYS 2024



### DATES

8th May  
12th June  
9th October



### AGENDA

Arrive 9.30am Company  
Overview  
Theoretical 10.am  
12. noon lunch provided  
Practical 12.45 – 3pm

## PRODUCTS METHODS COVERED IN TECH CENTRE TRAINING DAYS

### Customer training

- ▲ Basic cutting tool training
- ▲ 9.45am – 12.15pm
  - ▲ Carbide grades composition and application
  - ▲ Chip breaker grades and application
  - ▲ Coating technology and application
  - ▲ Recognising wear and correct remedy
  - ▲ Modern milling techniques
  - ▲ Average chip thickness correct application
  - ▲ Catalogue tooling – things to know
  - ▲ Catalogue highlights
- ▲ This standard presentation is included on the USB stick



### Tooling highlighted

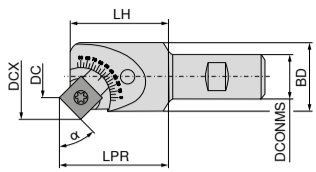
- ▲ Interactive demonstrations 1pm – 3.30pm
- ▲ Materials:  
C45, Stainless steel (316L) (316Ti),  
EN24, S.G.Iron, Aluminium
- ▲ Trochoidal milling  
SilverLine, CCR UNI & VA, StandardLine
- ▲ Indexable drilling  
KUB Pentron & MaxiDrill900
- ▲ Indexable milling  
A271, A491, HFC, A251, SlotSX
- ▲ Turning  
CTCM120+130, ISO-P wear detection
- ▲ Centro-P, Heat shrink
- ▲ ZSG 4, Zero Point.
- ▲ And a lot more tools from  
our main catalogue...



**PLEASE CONTACT YOUR  
LOCAL TECHNICAL SALES  
ENGINEER FOR FURTHER  
DETAILS**



### Adjustable single angle milling cutter C 4500



Designation	DCONMS	DC	DCX	LH	BD	LPR	50 690 ...	PG 2B/40
	mm	mm	mm	mm	mm	mm	£	£
C490.20.R.01	16.0	1.6-11.1	20.1-23.6	32.0	18.65	23.9-34.6	01600	<del>473.48</del> 100.00
C490.26.R.01	20.0	1.1-14.1	26.6-31.5	37.0	25.00	38.2-40.6	02000	<del>283.59</del> 120.00

### Solid Carbide HPC End milling cutter Set

▲ Set consists of article numbers:  
5407006200, 5407008200, 5407010200 and 5407012200



95 070 ...	PG Y5
£	£
99900	<del>120.00</del> 59.00

Set

### UltraMini – Set

▲ internal turning, grooving and chamfering



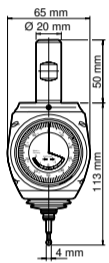
73 085 ...	PG Y5
£	£
999	<del>1,210.40</del> 280.00

Set

### Universal 3D-tester

- ▲ Quick and accurate positioning
- ▲ For locating and/or setting the zero point of the workpiece
- ▲ with adjustable concentricity
- ▲ Usable in all 3 axes (x, y, z)
- ▲ For all CNC and erosion machines (insulation between stylus and case)
- ▲ Reading of actual dimensions is independent of direction
- ▲ Reading precision 0.01 mm

Scope of supply  
3D tester including tracer insert and Allen key



85 290 ...	PG XX
£	£
100	<del>400.39</del> 270.00

Universal 3D-Tester HQ

### Zero height setting gauge



Designation	Height mm	85 900 ...	PG Y7
		£	£
Zero height setting gauge	100	018	<del>267.08</del> 75.00

### Assembly device for ISO adapters

▲ Aluminium



Collet chuck	80 720 ...	PG Y7
	£	£
SK 30	030	<del>253.35</del> 55.00
SK 40	040	<del>253.35</del> 60.00
SK 50	050	<del>421.48</del> 65.00

### Twist drill sets DIN 338 – Type N short

- ▲ In metal box
- ▲ In 0.1 mm steps



	Ø mm	10 158 ...	PG T2
		£	£
0.1 mm steps	1.0–5.9	050	<del>92.41</del> 55.00
0.1 mm steps	6.0–10	100	<del>191.96</del> 163.17

### Set: MiniCut size 9

- ▲ 1 grooving insert – 73 310 210 hole Ø 9 mm
- ▲ 1 NC fine turning insert – 73 314 120 hole Ø 9 mm
- ▲ 2 inserts for copy turning – 73 386 136 hole Ø 9 mm – 73 322 236 hole Ø 9 mm
- ▲ 1 insert for chamfering and profiling – 73 334 110 hole Ø 9 mm
- ▲ 1 tool holder – 73 522 125
- ▲ 1 clamping key – 70 950 105



73 528 ...	PG U1
£	£
125	<del>330.08</del> 100.00

Set

### Countersink 90°, DIN 335-C

- ▲ included in the set:  
6.3 mm, 8.3 mm, 10.4 mm, 12.4 mm, 16.5 mm and 20.5 mm



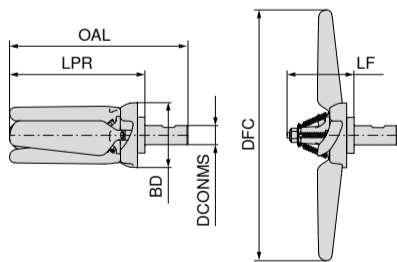
30 100 ...	PG U1
£	£
999	<del>149.42</del> 30.00

Set

### Cleaning propeller

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

WNT \ Standard



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



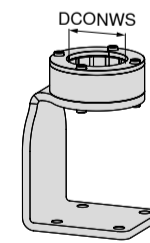
80 399 ...	PG Y7
£	£
02000	<del>544.45</del> 135.00

IK central

### Assembly fixture for tool holders

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

WNT \ Standard



Adapter	DCONWS	80 722 ...	PG Y7
	mm	£	£
HSK 32, PSC 32	32.0	032	<del>365.74</del> 120.00
HSK 40, PSC 40	40.0	040	<del>365.74</del> 120.00
MAS-BT 30	46.0	046	<del>324.17</del> 100.00
DIN 69871 / DIN 2080 - SK 30, HSK 50, PSC 50	50.0	050	<del>324.17</del> 100.00
DIN 69871 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63.0	063	<del>324.17</del> 100.00
DIN 69871 - SK 50	97.5	097	<del>639.42</del> 200.00
HSK 100, MAS-BT 50, ANSI-CAT 50	100.0	100	<del>639.42</del> 200.00

**SPECIAL OFFER**  
TWIST DRILL SETS  
**SAVE 70%**  
**ONLY £10**  
PER SET



Art. Nr.: 10 107 999







# HSS DRILLING



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



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

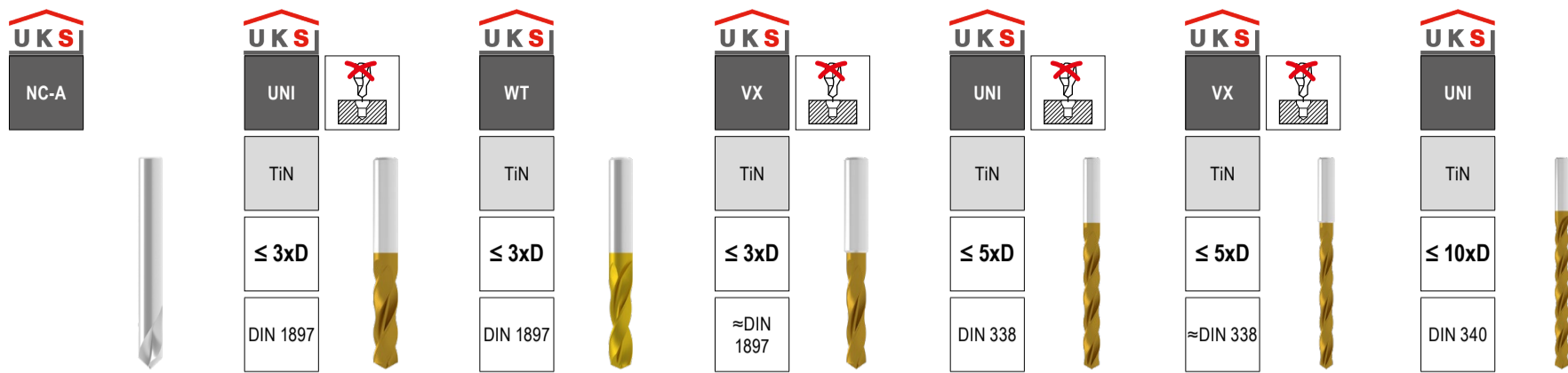


VX – high performance drill for all applications – nominal shank.





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



DC <sub>h8/h6</sub> mm	10 520 ... PG T2		10 107 ... PG T2		10 110 ... PG T2		10 122 ... PG T2		10 171 ... PG T2		10 124 ... PG T2		10 270 ... PG T2					
	£	£	£	£	£	£	£	£	£	£	£	£	£					
0.90																		
1.00			010	6.14	5.22	010	6.35	5.40	009	5.28	4.49		010	9.57	8.13			
1.10			011	6.14	5.22	011	6.60	5.69	011	5.28	4.49		011	10.67	9.07			
1.20			012	5.81	4.94	012	6.35	5.40	012	5.08	5.08		012	11.02	10.13			
1.25									125	5.62	4.78							
1.30			013	6.14	5.22	013	6.60	5.69	013	5.62	4.78		013	11.75	9.99			
1.40			014	5.98	5.08	014	6.60	5.69	014	5.28	4.49		014	11.61	9.87			
1.45									145	5.28	4.49							
1.50			015	5.57	4.73	015	6.35	5.40	015	4.92	4.18		015	10.10	8.59			
1.55									155	5.28	4.49							
1.60			016	5.57	4.73	016	6.35	5.40	016	5.28	4.49		016	11.02	10.13			
1.65									165	5.45	4.63							
1.70			017	5.26	4.47	017	5.98	5.08	017	5.45	4.63		017	13.02	11.07			
1.80			018	5.57	4.73	018	6.35	5.40	018	5.28	4.49		018	12.43	10.57			
1.90			019	5.57	4.73	019	6.35	5.40	019	5.45	4.63		019	13.20	11.31			
2.00			020	4.89	4.16	020	5.57	4.73	020	4.90	4.16	020	15.51	13.18				
2.10			021	5.26	4.47	021	5.98	5.08	021	5.98	5.08	021	17.75	15.09				
2.20			022	5.81	4.94	022	6.35	5.40	022	5.98	5.08	022	17.75	15.09				
2.30			023	5.62	4.78	023	6.35	5.40	023	5.98	5.08	023	17.75	15.09				
2.38			238	5.62	4.78				238	5.98	5.08							
2.40			024	5.81	4.94	024	6.60	5.69	024	15.28	12.99	024	17.75	15.09				
2.50			025	5.26	4.47	025	6.01	4.94	025	13.36	11.36	025	17.75	15.09				
2.55									255	5.98	5.08							
2.60			026	5.81	4.94	026	6.60	5.69	026	5.98	5.08	026	17.75	15.09				
2.70			027	6.14	5.22	027	7.06	6.00	027	5.98	5.08	027	17.75	15.09				
2.78			278	6.14	5.22				278	7.06	6.00							
2.80			028	6.14	5.22	028	7.06	6.00	028	15.84	13.44	028	17.75	15.09				
2.90			029	6.14	5.22	029	7.06	6.00	029	15.84	13.44	029	17.75	15.09				
3.00	030	9.43	8.02	030	5.57	4.73	030	6.98	5.87	030	6.06	4.30	030	16.80	14.35			
3.10			031	5.98	5.08	031	6.98	5.87	031	6.14	5.22	031	19.34	16.44				
3.17			317	5.81	4.94				317	5.81	4.94							
3.20			032	5.62	4.78	032	6.53	5.55	032	14.60	12.41	032	19.34	16.44				
3.25									325	5.57	4.73							
3.30			033	6.14	5.22	033	7.06	6.00	033	14.60	12.41	033	19.34	16.44				
3.40			034	6.35	5.40	034	7.06	6.00	034	14.60	12.41	034	19.34	16.44				
3.50			035	6.14	5.22	035	6.35	5.40	035	13.80	11.80	035	19.34	16.44				
3.57			357	6.35	5.40				357	6.68	5.68							
3.60			036	6.35	5.40	036	7.06	6.00	036	15.54	13.18	036	21.53	18.30				
3.70			037	6.68	5.68	037	7.65	6.50	037	15.84	13.44	037	21.53	18.30				
3.80			038	6.53	5.55	038	7.06	6.00	038	15.49	13.16	038	21.53	18.30				
3.90			039	7.29	6.28	039	7.65	6.50	039	15.84	13.44	039	21.53	18.30				
3.97			397	7.03	5.98				397	7.75	6.59							
4.00	040	9.61	8.17	040	6.53	5.55	040	6.53	5.55	040	12.85	10.92	040	21.53	18.30			
4.10			041	6.98	5.87	041	7.06	6.00	041	12.85	10.92	041	24.95	21.21				
4.20			042	6.68	5.68	042	7.06	6.00	042	13.55	11.52	042	26.37	22.41				
4.25									425	7.42	6.31							
4.30			043	7.06	6.00	043	7.97	6.77	043	14.24	12.10	043	24.95	21.21				
4.37			437	9.43	8.02				437	7.92	6.73							
4.40			044	7.97	6.77	044	8.16	6.94	044	16.17	13.74	044	24.95	21.21				
4.50			045	7.06	6.00	045	6.60	5.69	045	13.36	11.36	045	24.95	21.21				
4.60			046	7.75	6.59	046	8.97	7.54	046	16.80	14.35	046	28.30	24.06				
4.65			465	9.21	7.83				465	8.98	6.87		465	28.30	24.06			
4.70			047	8.16	6.94	047	9.21	7.83	047	17.22	14.64	047	28.30	24.06				
4.76			476	8.16	6.94				476	8.98	6.87							
4.80			048	8.27	7.03	048	9.21	7.83	048	17.22	14.64	048	28.30	24.06				
4.90			049	9.15	7.78	049	9.21	7.83	049	17.22	14.64	049	28.30	24.06				
4.95									495	8.98	6.87							
5.00	050	10.15	8.63	050	7.22	6.14	050	7.42	6.31	050	14.60	12.41	050	30.77	26.15			
5.05									505	7.06	6.00							
5.10			051	9.66	8.21				505	8.98	6.87	051	30.77	26.15	051	17.44	14.82	
5.16			051	12.50	10.63				516	8.97	7.54							
5.20			052	11.96	10.17	052	9.21	7.83	052	17.40	14.79	052	30.77	26.15	052	17.44	14.82	
5.30			053	12.66	10.76	053	9.61	8.17	053	17.59	14.95	053	33.95	28.86	053	18.92	16.00	
5.40			054	12.50	10.63	054	8.97	7.54	054	19.51	16.58	054	33.95	28.86	054	20.55	17.47	
5.50			055	9.33	7.93	055	7.97	6.77	055	15.49	13.16	055	30.77	26.15	055	16.39	13.93	
5.55						055	10.15	8.63	055	19.54	16.58	055	35.34	30.01				
5.56			556	10.30	8.83				556	11.02	9.37							
5.60			056	15.28	12.99	056	10.15	8.63	056	19.54	16.58	056	35.34	30.01	056	21.42	18.21	
5.70			057	15.48	13.16	057	10.15	8.63	057	19.54	16.58	057	35.34	30.01	057	23.66	20.11	
5.75									575	9.61	8.17							
5.80			058	16.35	13.90	058	10.15	8.63	058	19.54	16.58	058	35.34	30.01	058	20.77	17.65	
5.90			059	16.54	14.06	059	10.50	8.93	059	19.54	16.58	059	35.34	30.01	059	23.47	19.69	
5.95			595	18.13	15.41				595	12.20	10.45							
6.00	060	10.15	8.63	060	9.33	7.93	060	8.60	7.39	060	16.35	13.90	060	33.57	28.53	060	19.69	16.74
6.10			061	17.59	14.95	061	25.32	21.52	061	25.32	21.52	061	41.46	35.24	061	23.35	19.85	
6.20			062	17.92	15.23	062	25.32	21.52	062	25.32	21.52	062	41.46	35.24	062	20.94	17.80	
6.30			063	19.54	16.58	063	30.23	25.70	063	30.23	25.70	063	41.46	35.24	063	23.35	19.85	
6.35			635	19.34	16.44				635	11.41	9.70							
6.40			064	19.85	16.87	064	14.21	12.08	064	26.25	22.31	064	41.46	35.24	064	21.24	18.05	
6.50			065	19.99	9.27	065	10.15	8.63	065	19.18	16.30	065	41.46	35.24	065	20.40	17.34	
6.60			066	20.55	17.47	066	30.77	26.15	066	30.77	26.15	066	44.47	37.80	066	23.52	19.99	
6.70			067	20.93	17.79	067	30.77	26.15	067	30.77	26.15	067	44.47	37.80	067	24.43	20.51	
6.75			675	16.02	13.62				675	15.65	13.30							
6.80			068	21.44	18.22	068	14.92	12.60	068	33.66	28.61	068	44.47	37.80	068	25.89	22.01	
6.90			069	21.61	18.37	069	33.21	28.23	069	33.21	28.23	069	44.47	37.80	069	26.84	22.81	
7.00			070	12.50	10.63	070	12.20	10.45	070	11.02	9.37	070	44.47	37.80	070	24.26	20.71	

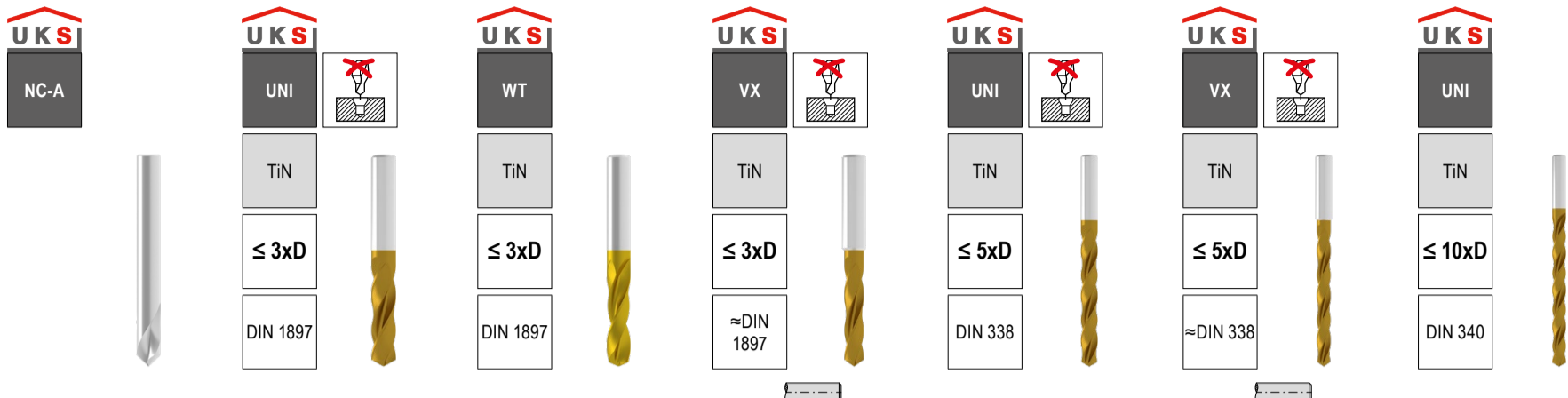
1) self-centering

Ø DC<sub>h8</sub> for Type UNI, WT and VX / Ø DC<sub>h6</sub> for Type NC-A





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



DC <sub>h8/h6</sub> mm	10 520 ... PG T2		10 107 ... PG T2		10 110 ... PG T2		10 122 ... PG T2		10 171 ... PG T2		10 124 ... PG T2		10 270 ... PG T2		
	£	£	£	£	£	£	£	£	£	£	£	£	£		
7.10			071 <sup>1)</sup>	<del>22.50</del> 19.13			071	<del>37.24</del> 31.65	071 <sup>1)</sup>	<del>44.67</del> 12.47	071	<del>46.20</del> 39.35	071	<del>23.52</del> 19.99	
7.14			072 <sup>1)</sup>	<del>22.02</del> 19.58			072	<del>37.82</del> 32.15	072 <sup>1)</sup>	<del>44.67</del> 12.47	072	<del>46.20</del> 39.35	072	<del>26.88</del> 22.89	
7.20			073 <sup>1)</sup>	<del>22.70</del> 19.30		072	<del>46.66</del> 14.16	073	<del>44.67</del> 12.47	073 <sup>1)</sup>	<del>46.20</del> 39.35	073	<del>28.45</del> 23.93		
7.30			074 <sup>1)</sup>	<del>22.84</del> 19.41		074	<del>46.84</del> 14.31	074	<del>44.67</del> 12.47	074 <sup>1)</sup>	<del>46.20</del> 39.35	074	<del>29.47</del> 24.79		
7.40			075 <sup>1)</sup>	<del>22.70</del> 19.30		075	<del>42.86</del> 10.93	075	<del>37.82</del> 32.15	075 <sup>1)</sup>	<del>44.78</del> 10.01	075	<del>29.68</del> 25.23		
7.45								076	<del>37.82</del> 32.15			076	<del>46.20</del> 39.35		
7.50								077	<del>37.82</del> 32.15			077	<del>46.20</del> 39.35		
7.55								078	<del>37.82</del> 32.15			078	<del>46.20</del> 39.35		
7.60								079	<del>37.82</del> 32.15			079	<del>46.20</del> 39.35		
7.70			076 <sup>1)</sup>	<del>21.26</del> 18.07		076	<del>49.28</del> 15.54	076	<del>38.38</del> 32.62	076 <sup>1)</sup>	<del>47.22</del> 14.64	076	<del>46.20</del> 39.35	076	<del>31.84</del> 27.06
7.70			077 <sup>1)</sup>	<del>26.37</del> 22.41		077	<del>49.28</del> 15.54	077	<del>41.34</del> 35.11	077 <sup>1)</sup>	<del>47.22</del> 15.06	077	<del>46.20</del> 39.35	077	<del>30.87</del> 25.56
7.80			078 <sup>1)</sup>	<del>25.47</del> 21.65		078	<del>49.28</del> 15.54	078	<del>41.34</del> 35.11	078 <sup>1)</sup>	<del>47.22</del> 14.64	078	<del>46.20</del> 39.35	078	<del>33.45</del> 28.18
7.90			079 <sup>1)</sup>	<del>27.94</del> 23.75		079	<del>49.28</del> 15.54	079	<del>41.34</del> 35.11	079 <sup>1)</sup>	<del>47.22</del> 15.06	079	<del>46.20</del> 39.35	079	<del>34.96</del> 27.17
7.94			080 <sup>1)</sup>	<del>44.44</del> 12.25		080	<del>49.28</del> 15.54	080	<del>41.34</del> 35.11	080 <sup>1)</sup>	<del>47.22</del> 14.64	080	<del>46.20</del> 39.35	080	<del>31.84</del> 27.06
8.00	080	<del>47.35</del> 14.75	081 <sup>1)</sup>	<del>13.76</del> 11.70		081	<del>49.28</del> 15.54	081	<del>47.42</del> 23.31	081 <sup>1)</sup>	<del>44.36</del> 12.16	081	<del>46.20</del> 39.35	081	<del>27.43</del> 23.06
8.10			082 <sup>1)</sup>	<del>28.67</del> 24.37		082	<del>49.28</del> 15.54	082	<del>46.87</del> 39.84	082 <sup>1)</sup>	<del>48.44</del> 15.67	082	<del>51.77</del> 44.00	082	<del>29.94</del> 25.42
8.20			083 <sup>1)</sup>	<del>29.90</del> 25.42		083	<del>49.28</del> 15.54	083	<del>46.87</del> 39.84	083 <sup>1)</sup>	<del>48.44</del> 15.67	083	<del>51.77</del> 44.00	083	<del>32.62</del> 27.73
8.30			084 <sup>1)</sup>	<del>32.15</del> 27.33		084	<del>49.28</del> 15.54	084	<del>46.87</del> 39.84	084 <sup>1)</sup>	<del>48.44</del> 15.67	084	<del>51.77</del> 44.00	084	<del>34.58</del> 29.39
8.40			085 <sup>1)</sup>	<del>33.04</del> 28.08		085	<del>49.28</del> 15.54	085	<del>46.87</del> 39.84	085 <sup>1)</sup>	<del>48.44</del> 15.67	085	<del>51.77</del> 44.00	085	<del>37.47</del> 31.59
8.50			086 <sup>1)</sup>	<del>16.35</del> 13.90		086	<del>49.28</del> 15.54	086	<del>41.10</del> 26.44	086 <sup>1)</sup>	<del>44.42</del> 12.00	086	<del>52.21</del> 44.38	086	<del>34.84</del> 27.06
8.60			087 <sup>1)</sup>	<del>19.64</del> 16.69		087	<del>49.28</del> 15.54	087	<del>48.70</del> 41.40	087 <sup>1)</sup>	<del>34.57</del> 26.83	087	<del>48.17</del> 40.94	087	<del>31.63</del> 26.89
8.70			088 <sup>1)</sup>	<del>22.60</del> 19.21		088	<del>49.28</del> 15.54	088	<del>48.70</del> 41.40	088 <sup>1)</sup>	<del>34.57</del> 26.83	088	<del>48.17</del> 40.94	088	<del>34.96</del> 27.17
8.73			089 <sup>1)</sup>	<del>25.89</del> 22.01		089	<del>49.28</del> 15.54	089	<del>40.74</del> 17.63	089 <sup>1)</sup>	<del>29.74</del> 17.63	089	<del>48.17</del> 40.94	089	<del>32.47</del> 27.60
8.80			090 <sup>1)</sup>	<del>21.26</del> 18.07		090	<del>49.28</del> 15.54	090	<del>48.70</del> 41.40	090 <sup>1)</sup>	<del>21.97</del> 18.67	090	<del>48.17</del> 40.94	090	<del>32.89</del> 28.04
8.90			091 <sup>1)</sup>	<del>27.96</del> 23.77		091	<del>49.28</del> 15.54	091	<del>48.70</del> 41.40	091 <sup>1)</sup>	<del>27.42</del> 23.05	091	<del>48.17</del> 40.94	091	<del>33.46</del> 28.44
9.00			092 <sup>1)</sup>	<del>17.22</del> 14.64		092	<del>49.28</del> 15.54	092	<del>33.93</del> 28.84	092 <sup>1)</sup>	<del>17.75</del> 15.09	092	<del>48.17</del> 40.94	092	<del>39.70</del> 33.75
9.10			093 <sup>1)</sup>	<del>23.55</del> 20.02		093	<del>49.28</del> 15.54	093	<del>61.06</del> 51.90	093 <sup>1)</sup>	<del>29.40</del> 25.07	093	<del>51.77</del> 44.00	093	<del>43.46</del> 36.68
9.20			094 <sup>1)</sup>	<del>23.72</del> 20.16		094	<del>49.28</del> 15.54	094	<del>61.06</del> 51.90	094 <sup>1)</sup>	<del>30.97</del> 25.73	094	<del>51.77</del> 44.00	094	<del>46.65</del> 39.65
9.30			095 <sup>1)</sup>	<del>41.82</del> 35.55		095	<del>49.28</del> 15.54	095	<del>61.06</del> 51.90	095 <sup>1)</sup>	<del>26.88</del> 22.85	095	<del>51.77</del> 44.00	095	<del>50.83</del> 43.32
9.35								935	<del>61.06</del> 51.90			935 <sup>1)</sup>	<del>20.93</del> 17.79		
9.40			096 <sup>1)</sup>	<del>27.50</del> 23.38		096	<del>49.28</del> 15.54	096	<del>61.06</del> 51.90	096 <sup>1)</sup>	<del>39.24</del> 28.23	096	<del>51.77</del> 44.00	096	<del>33.46</del> 28.44
9.50			097 <sup>1)</sup>	<del>18.44</del> 15.67		097	<del>49.28</del> 15.54	097	<del>42.40</del> 36.04	097 <sup>1)</sup>	<del>28.93</del> 17.79	097	<del>51.77</del> 44.00	097	<del>33.46</del> 28.44
9.55								955	<del>61.06</del> 51.90			955 <sup>1)</sup>	<del>56.46</del> 47.99		
9.60			098 <sup>1)</sup>	<del>28.76</del> 24.45		098	<del>49.28</del> 15.54	098	<del>45.75</del> 38.89	098 <sup>1)</sup>	<del>30.94</del> 25.53	098	<del>56.46</del> 47.99	098	<del>35.44</del> 30.12
9.70			099 <sup>1)</sup>	<del>27.96</del> 23.77		099	<del>49.28</del> 15.54	099	<del>45.75</del> 38.89	099 <sup>1)</sup>	<del>35.29</del> 30.00	099	<del>56.46</del> 47.99	099	<del>37.47</del> 31.59
9.80			100 <sup>1)</sup>	<del>43.06</del> 36.60		100	<del>49.28</del> 15.54	100	<del>45.75</del> 38.89	100 <sup>1)</sup>	<del>30.94</del> 25.53	100	<del>56.46</del> 47.99	100	<del>39.70</del> 33.75
9.90			101 <sup>1)</sup>	<del>20.88</del> 25.40		101	<del>49.28</del> 15.54	101	<del>45.75</del> 38.89	101 <sup>1)</sup>	<del>27.66</del> 23.51	101	<del>56.46</del> 47.99	101	<del>43.46</del> 36.68
10.00	100	<del>48.43</del> 15.41	102 <sup>1)</sup>	<del>21.44</del> 18.22		102	<del>49.28</del> 15.54	102	<del>40.79</del> 34.67	102 <sup>1)</sup>	<del>21.95</del> 17.89	102	<del>56.46</del> 47.99	102	<del>46.65</del> 39.65
10.10			103 <sup>1)</sup>	<del>28.76</del> 24.45		103	<del>49.28</del> 15.54	103	<del>60.36</del> 51.31	103 <sup>1)</sup>	<del>27.46</del> 23.09	103	<del>74.58</del> 60.85	103	<del>50.87</del> 43.32
10.20			104 <sup>1)</sup>	<del>34.08</del> 28.97		104	<del>49.28</del> 15.54	104	<del>60.36</del> 51.31	104 <sup>1)</sup>	<del>29.46</del> 24.19	104	<del>74.58</del> 60.85	104	<del>54.44</del> 46.27
10.30			105 <sup>1)</sup>	<del>26.71</del> 22.70		105	<del>49.28</del> 15.54	105	<del>61.41</del> 52.20	105 <sup>1)</sup>	<del>29.72</del> 20.16	105	<del>74.58</del> 60.85	105	<del>58.73</del> 49.92
10.40								107	<del>64.09</del> 54.48			107	<del>78.62</del> 66.83		
10.50								108	<del>61.64</del> 52.37			108	<del>78.62</del> 66.83		
10.55								109	<del>58.63</del> 49.84			109	<del>66.26</del> 56.32		
10.70								110	<del>57.35</del> 48.75			110	<del>62.99</del> 53.03		
10.80								111				111	<del>62.99</del> 53.03		
11.00			110 <sup>1)</sup>	<del>30.35</del> 33.45		110	<del>50.24</del> 50.35	110		110 <sup>1)</sup>	<del>32.36</del> 27.51	110	<del>70.94</del> 60.30	110	<del>70.94</del> 60.30
11.10			111 <sup>1)</sup>	<del>46.39</del> 39.43		111	<del>26.57</del> 22.58	111		111 <sup>1)</sup>	<del>62.99</del> 53.03	111	<del>70.94</del> 60.30	111	<del>70.94</del> 60.30
11.20								112		112 <sup>1)</sup>	<del>62.99</del> 53.03	112	<del>70.94</del> 60.30	112	<del>70.94</del> 60.30
11.30								113		113 <sup>1)</sup>	<del>62.99</del> 53.03	113	<del>70.94</del> 60.30	113	<del>70.94</del> 60.30
11.40								114		114 <sup>1)</sup>	<del>62.99</del> 53.03	114	<del>70.94</del> 60.30	114	<del>70.94</del> 60.30
11.50			115 <sup>1)</sup>	<del>44.66</del> 37.96		115	<del>27.70</del> 23.55	115	<del>61.06</del> 51.90	115 <sup>1)</sup>	<del>44.34</del> 35.11	115	<del>70.94</del> 60.30	115	<del>71.69</del> 60.94
11.60								117	<del>68.65</del> 58.35			117	<del>78.22</del> 66.49		
11.70								118	<del>71.68</del> 60.93			118	<del>78.22</del> 66.49		
11.80								119	<del>60.65</del> 77.05			119	<del>78.22</del> 66.49		
11.90								120	<del>70.42</del> 59.60			120	<del>78.22</del> 66.49		
12.00	120	<del>27.88</del> 23.70	120 <sup>1)</sup>	<del>52.53</del> 44.65		120	<del>31.60</del> 26.94	120	<del>54.07</del> 43.41	120 <sup>1)</sup>	<del>46.04</del> 39.13	120	<del>78.22</del> 66.49	120	<del>72.53</del> 61.65
12.10								121		121 <sup>1)</sup>	<del>47.26</del> 40.17	121			
12.15								122		122 <sup>1)</sup>	<del>48.86</del> 41.53	122	<del>89.87</del> 76.39	122	<del>89.87</del> 76.39
12.20								123	<del>93.47</del> 79.45	123 <sup>1)</sup>	<del>48.86</del> 41.53	123	<del>89.87</del> 76.39	123	<del>89.87</del> 76.39
12.30			123 <sup>1)</sup>	<del>48.86</del> 41.53		123	<del>49.70</del> 41.40	123	<del>72.23</del> 61.40	123 <sup>1)</sup>	<del>47.26</del> 40.17	123	<del>89.87</del> 76.39	123	<del>70.44</del> 67.52
12.50			125 <sup>1)</sup>	<del>52.90</del> 44.97		125	<del>33.24</del> 28.23	125	<del>160.25</del> 136.21	125 <sup>1)</sup>	<del>37.07</del> 31.51	125	<del>84.65</del> 80.45	125	<del>84.65</del> 80.45
12.70			127 <sup>1)</sup>	<del>40.36</del> 34.31		127	<del>61.37</del> 52.16	127	<del>76.09</del> 64.68	127 <sup>1)</sup>	<del>50.41</del> 42.85	127	<del>84.65</del> 80.45	127	<del>84.65</del> 80.45
12.80								128	<del>77.64</del> 65.99	128 <sup>1)</sup>	<del>50.41</del> 42.85	128	<del>104.40</del> 88.74	128	<del>86.40</del> 73.44
13.00			130 <sup>1)</sup>	<del>52.90</del> 44.97		130	<del>33.48</del> 28.46	130	<del>77.64</del> 65.99	130 <sup>1)</sup>	<del>63.77</del> 54.20	130	<del>135.30</del> 115.08	130	<del>88.08</del> 74.87
13.10								131		131 <sup>1)</sup>	<del>63.77</del> 54.20	13			





# SOLID CARBIDE DRILLING



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



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



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



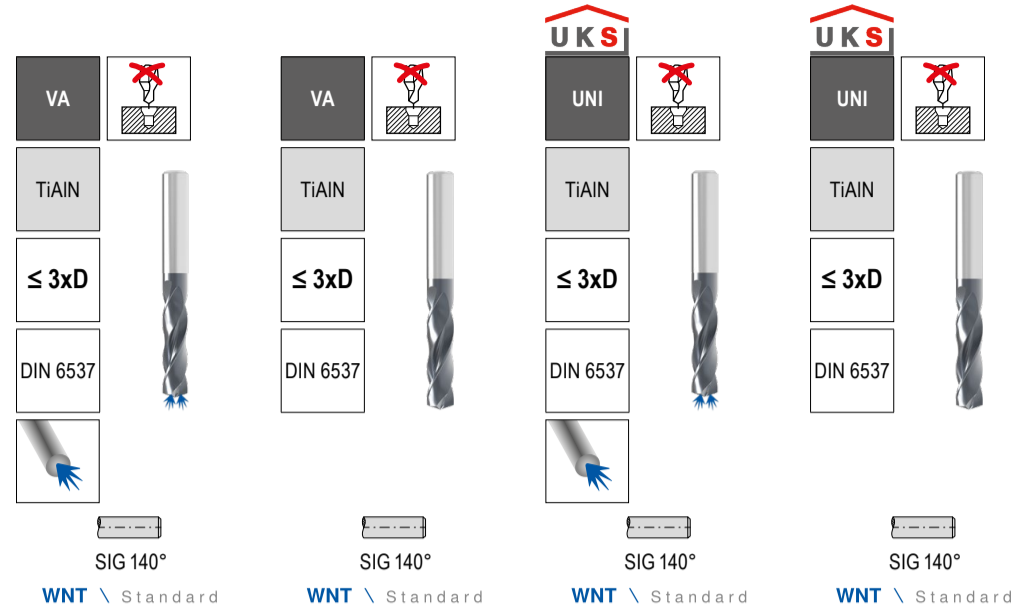
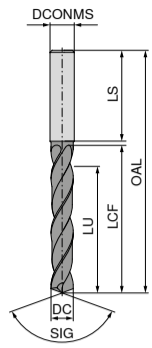
WTC Change – good solution for lathes with mis-alignment and lower powered machines. Cost effective solution in larger diameters above  $\text{\O} 20$  mm in 0.1 mm increments.



WPC Change Uni – High performance with low cost per hole in normal materials



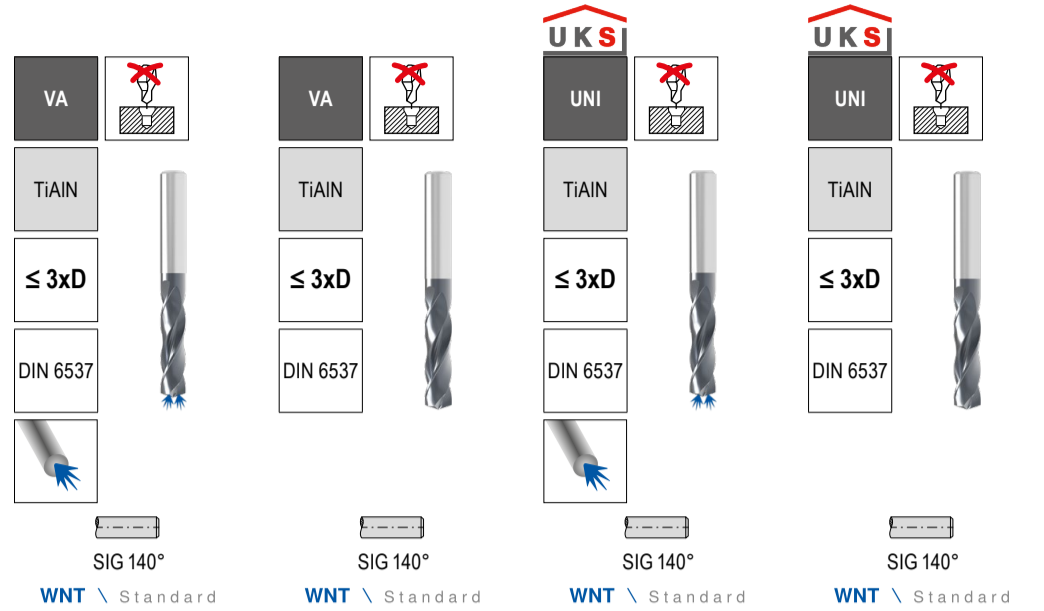
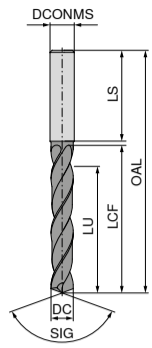
High Performance Drill, DIN 6537



DC <sub>h7/m7</sub>	DCONMS <sub>h6</sub>	OAL	LCF	LU	LS	11 713 ...	PG T1/9C	11 711 ...	PG T1/9C	11 700 ...	PG T1/9C	11 706 ...	PG T1/9C
mm	mm	mm	mm	mm	mm	£	£	£	£	£	£	£	£
1.00	4	45	7	5.5	28	01000	<del>36.04</del> 36.00	01000	<del>31.04</del> 31.00	01000	<del>31.45</del> 31.00	01000	<del>27.81</del> 27.00
1.10	4	45	7	5.3	28	01100	<del>36.04</del> 36.00	01100	<del>31.84</del> 31.00	01100	<del>31.45</del> 31.00	01100	<del>27.81</del> 27.00
1.20	4	45	7	5.2	28	01200	<del>36.04</del> 36.00	01200	<del>31.84</del> 31.00	01200	<del>31.45</del> 31.00	01200	<del>27.81</del> 27.00
1.30	4	45	7	5.0	28	01300	<del>36.04</del> 36.00	01300	<del>31.84</del> 31.00	01300	<del>31.45</del> 31.00	01300	<del>27.81</del> 27.00
1.40	4	45	7	4.9	28	01400	<del>36.04</del> 36.00	01400	<del>31.84</del> 31.00	01400	<del>31.45</del> 31.00	01400	<del>27.81</del> 27.00
1.50	4	55	14	11.7	28	01500	<del>36.04</del> 36.00	01500	<del>31.84</del> 31.00	01500	<del>31.45</del> 31.00	01500	<del>27.81</del> 27.00
1.60	4	55	14	11.6	28	01600	<del>36.04</del> 36.00	01600	<del>31.84</del> 31.00	01600	<del>31.45</del> 31.00	01600	<del>27.81</del> 27.00
1.70	4	55	14	11.4	28	01700	<del>36.04</del> 36.00	01700	<del>31.84</del> 31.00	01700	<del>31.45</del> 31.00	01700	<del>27.81</del> 27.00
1.80	4	55	14	11.3	28	01800	<del>36.04</del> 36.00	01800	<del>31.84</del> 31.00	01800	<del>31.45</del> 31.00	01800	<del>27.81</del> 27.00
1.90	4	55	14	11.1	28	01900	<del>36.04</del> 36.00	01900	<del>31.84</del> 31.00	01900	<del>31.45</del> 31.00	01900	<del>27.81</del> 27.00
2.00	4	55	20	17.0	28	02000	<del>36.04</del> 36.00	02000	<del>29.04</del> 29.00	02000	<del>31.45</del> 31.00	02000	<del>25.40</del> 25.00
2.10	4	55	20	16.8	28	02100	<del>36.04</del> 36.00	02100	<del>29.04</del> 29.00	02100	<del>31.45</del> 31.00	02100	<del>25.40</del> 25.00
2.20	4	55	20	16.7	28	02200	<del>36.04</del> 36.00	02200	<del>29.04</del> 29.00	02200	<del>31.45</del> 31.00	02200	<del>25.40</del> 25.00
2.30	4	55	20	16.5	28	02300	<del>36.04</del> 36.00	02300	<del>29.04</del> 29.00	02300	<del>31.45</del> 31.00	02300	<del>25.40</del> 25.00
2.40	4	55	20	16.4	28	02400	<del>36.04</del> 36.00	02400	<del>29.04</del> 29.00	02400	<del>31.45</del> 31.00	02400	<del>25.40</del> 25.00
2.50	4	55	20	16.2	28	02500	<del>36.04</del> 36.00	02500	<del>29.04</del> 29.00	02500	<del>31.45</del> 31.00	02500	<del>25.40</del> 25.00
2.60	4	55	20	16.1	28	02600	<del>36.04</del> 36.00	02600	<del>29.04</del> 29.00	02600	<del>31.45</del> 31.00	02600	<del>25.40</del> 25.00
2.70	4	55	20	15.9	28	02700	<del>36.04</del> 36.00	02700	<del>29.04</del> 29.00	02700	<del>31.45</del> 31.00	02700	<del>25.40</del> 25.00
2.80	4	55	20	15.8	28	02800	<del>36.04</del> 36.00	02800	<del>29.04</del> 29.00	02800	<del>31.45</del> 31.00	02800	<del>25.40</del> 25.00
2.90	4	55	20	15.6	28	02900	<del>36.04</del> 36.00	02900	<del>29.04</del> 29.00	02900	<del>31.45</del> 31.00	02900	<del>25.40</del> 25.00
3.00	6	62	20	15.5	36	03000	<del>32.12</del> 32.00	03000	<del>28.12</del> 28.00	03000	<del>26.60</del> 26.00	03000	<del>24.10</del> 24.00
3.10	6	62	20	15.3	36	03100	<del>32.12</del> 32.00	03100	<del>28.12</del> 28.00	03100	<del>26.60</del> 26.00	03100	<del>24.10</del> 24.00
3.20	6	62	20	15.2	36	03200	<del>32.12</del> 32.00	03200	<del>28.12</del> 28.00	03200	<del>26.60</del> 26.00	03200	<del>24.10</del> 24.00
3.25	6	62	20	15.1	36			03250	<del>26.60</del> 26.00	03250	<del>26.60</del> 26.00	03250	<del>24.10</del> 24.00
3.30	6	62	20	15.0	36	03300	<del>32.12</del> 32.00	03300	<del>28.12</del> 28.00	03300	<del>26.60</del> 26.00	03300	<del>24.10</del> 24.00
3.40	6	62	20	14.9	36	03400	<del>32.12</del> 32.00	03400	<del>28.12</del> 28.00	03400	<del>26.60</del> 26.00	03400	<del>24.10</del> 24.00
3.50	6	62	20	14.7	36	03500	<del>32.12</del> 32.00	03500	<del>28.12</del> 28.00	03500	<del>26.60</del> 26.00	03500	<del>24.10</del> 24.00
3.60	6	62	20	14.6	36	03600	<del>32.12</del> 32.00	03600	<del>28.12</del> 28.00	03600	<del>26.60</del> 26.00	03600	<del>24.10</del> 24.00
3.70	6	62	20	14.4	36	03700	<del>32.12</del> 32.00	03700	<del>28.12</del> 28.00	03700	<del>26.60</del> 26.00	03700	<del>24.10</del> 24.00
3.80	6	66	24	18.3	36	03800	<del>32.12</del> 32.00	03800	<del>28.12</del> 28.00	03800	<del>26.60</del> 26.00	03800	<del>24.10</del> 24.00
3.90	6	66	24	18.1	36	03900	<del>32.12</del> 32.00	03900	<del>28.12</del> 28.00	03900	<del>26.60</del> 26.00	03900	<del>24.10</del> 24.00
4.00	6	66	24	18.0	36	04000	<del>32.12</del> 32.00	04000	<del>28.12</del> 28.00	04000	<del>26.60</del> 26.00	04000	<del>24.10</del> 24.00
4.10	6	66	24	17.8	36	04100	<del>32.12</del> 32.00	04100	<del>28.12</del> 28.00	04100	<del>26.60</del> 26.00	04100	<del>24.10</del> 24.00
4.20	6	66	24	17.7	36	04200	<del>32.12</del> 32.00	04200	<del>28.12</del> 28.00	04200	<del>26.60</del> 26.00	04200	<del>24.10</del> 24.00
4.30	6	66	24	17.5	36	04300	<del>32.12</del> 32.00	04300	<del>28.12</del> 28.00	04300	<del>26.60</del> 26.00	04300	<del>24.10</del> 24.00
4.40	6	66	24	17.4	36	04400	<del>32.12</del> 32.00	04400	<del>28.12</del> 28.00	04400	<del>26.60</del> 26.00	04400	<del>24.10</del> 24.00
4.50	6	66	24	17.2	36	04500	<del>32.12</del> 32.00	04500	<del>28.12</del> 28.00	04500	<del>26.60</del> 26.00	04500	<del>24.10</del> 24.00
4.60	6	66	24	17.1	36	04600	<del>32.12</del> 32.00	04600	<del>28.12</del> 28.00	04600	<del>26.60</del> 26.00	04600	<del>24.10</del> 24.00
4.65	6	66	24	17.0	36			04650	<del>26.60</del> 26.00	04650	<del>26.60</del> 26.00	04650	<del>24.10</del> 24.00
4.70	6	66	24	16.9	36	04700	<del>32.12</del> 32.00	04700	<del>28.12</del> 28.00	04700	<del>26.60</del> 26.00	04700	<del>24.10</del> 24.00
4.80	6	66	28	20.8	36	04800	<del>32.12</del> 32.00	04800	<del>28.12</del> 28.00	04800	<del>26.60</del> 26.00	04800	<del>24.10</del> 24.00
4.90	6	66	28	20.6	36	04900	<del>32.12</del> 32.00	04900	<del>28.12</del> 28.00	04900	<del>26.60</del> 26.00	04900	<del>24.10</del> 24.00
5.00	6	66	28	20.5	36	05000	<del>32.12</del> 32.00	05000	<del>28.12</del> 28.00	05000	<del>26.60</del> 26.00	05000	<del>24.10</del> 24.00
5.10	6	66	28	20.3	36	05100	<del>32.12</del> 32.00	05100	<del>28.12</del> 28.00	05100	<del>26.60</del> 26.00	05100	<del>24.10</del> 24.00
5.20	6	66	28	20.2	36	05200	<del>32.12</del> 32.00	05200	<del>28.12</del> 28.00	05200	<del>26.60</del> 26.00	05200	<del>24.10</del> 24.00
5.30	6	66	28	20.0	36	05300	<del>32.12</del> 32.00	05300	<del>28.12</del> 28.00	05300	<del>26.60</del> 26.00	05300	<del>24.10</del> 24.00
5.40	6	66	28	19.9	36	05400	<del>32.12</del> 32.00	05400	<del>28.12</del> 28.00	05400	<del>26.60</del> 26.00	05400	<del>24.10</del> 24.00
5.50	6	66	28	19.7	36	05500	<del>32.12</del> 32.00	05500	<del>28.12</del> 28.00	05500	<del>26.60</del> 26.00	05500	<del>24.10</del> 24.00
5.55	6	66	28	19.6	36			05550	<del>26.60</del> 26.00	05550	<del>26.60</del> 26.00	05550	<del>24.10</del> 24.00
5.60	6	66	28	19.6	36	05600	<del>32.12</del> 32.00	05600	<del>28.12</del> 28.00	05600	<del>26.60</del> 26.00	05600	<del>24.10</del> 24.00
5.65	6	66	28	19.5	36			05650	<del>26.60</del> 26.00	05650	<del>26.60</del> 26.00	05650	<del>24.10</del> 24.00
5.70	6	66	28	19.4	36	05700	<del>32.12</del> 32.00	05700	<del>28.12</del> 28.00	05700	<del>26.60</del> 26.00	05700	<del>24.10</del> 24.00
5.80	6	66	28	19.3	36	05800	<del>32.12</del> 32.00	05800	<del>28.12</del> 28.00	05800	<del>26.60</del> 26.00	05800	<del>24.10</del> 24.00
5.90	6	66	28	19.1	36	05900	<del>32.12</del> 32.00	05900	<del>28.12</del> 28.00	05900	<del>26.60</del> 26.00	05900	<del>24.10</del> 24.00
6.00	6	66	28	19.0	36	06000	<del>32.12</del> 32.00	06000	<del>28.12</del> 28.00	06000	<del>26.60</del> 26.00	06000	<del>24.10</del> 24.00
6.10	8	79	34	24.8	36	06100	<del>43.88</del> 43.00	06100	<del>28.22</del> 28.00	06100	<del>37.49</del> 37.00	06100	<del>24.19</del> 24.00
6.20	8	79	34	24.7	36	06200	<del>43.88</del> 43.00	06200	<del>28.22</del> 28.00	06200	<del>37.49</del> 37.00	06200	<del>24.19</del> 24.00
6.30	8	79	34	24.5	36	06300	<del>43.88</del> 43.00	06300	<del>28.22</del> 28.00	06300	<del>37.49</del> 37.00	06300	<del>24.19</del> 24.00
6.40	8	79	34	24.4	36	06400	<del>43.88</del> 43.00	06400	<del>28.22</del> 28.00	06400	<del>37.49</del> 37.00	06400	<del>24.19</del> 24.00
6.50	8	79	34	24.2	36	06500	<del>43.88</del> 43.00	06500	<del>28.22</del> 28.00	06500	<del>37.49</del> 37.00	06500	<del>24.19</del> 24.00
6.60	8	79	34	24.1	36	06600	<del>43.88</del> 43.00	06600	<del>28.22</del> 28.00	06600	<del>37.49</del> 37.00	06600	<del>24.19</del> 24.00
6.70	8	79	34	23.9	36	06700	<del>43.88</del> 43.00	06700	<del>28.22</del> 28.00	06700	<del>37.49</del> 37.00	06700	<del>24.19</del> 24.00
6.80	8	79	34	23.8	36	06800	<del>43.88</del> 43.00	06800	<del>28.22</del> 28.00	06800	<del>37.49</del> 37.00	06800	<del>24.19</del> 24.00
6.90	8	79	34	23.6	36	06900	<del>43.88</del> 43.00	06900	<del>28.22</del> 28.00	06900	<del>37.49</del> 37.00	06900	<del>24.19</del> 24.00
7.00	8	79	34	23.5	36	07000	<del>43.88</del> 43.00	07000	<del>28.22</del> 28.00	07000	<del>37.49</del> 37.00	07000	<del>24.19</del> 24.00
7.10	8	79	41	30.3	36	07100	<del>43.88</del> 43.00	07100	<del>28.22</del> 28.00	07100	<del>37.49</del> 37.00	07100	<del>24.19</del> 24.00
7.20	8	79	41	30.2	36	07200	<del>43.88</del> 43.00	07200	<del>28.22</del> 28.00	07200	<del>37.49</del> 37.00	07200	<del>24.19</del> 24.00
7.30	8	79	41	30.0	36	07300	<del>43.88</del> 43.00	07300	<del>28.22</del> 28.00	07300	<del>37.49</del> 37.00	07300	<del>24.19</del> 24.00
7.40	8	79	41	29.9	36								



High Performance Drill, DIN 6537

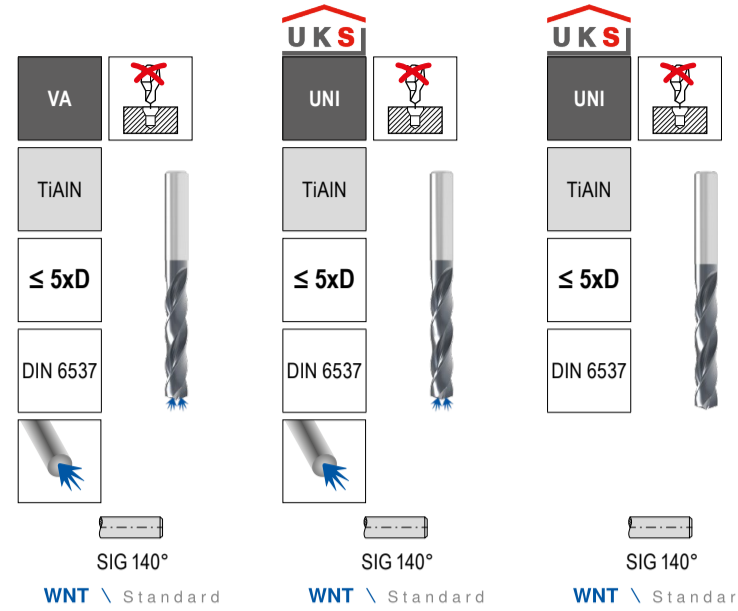
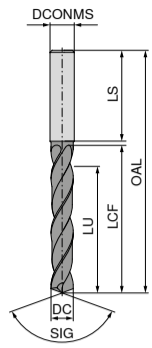


DC <sub>h7/m7</sub>	DCONMS <sub>h6</sub>	OAL	LCF	LU	LS
mm	mm	mm	mm	mm	mm
7.8	8	79	41	29.3	36
7.9	8	79	41	29.1	36
8.0	8	79	41	29.0	36
8.1	10	89	47	34.8	40
8.2	10	89	47	34.7	40
8.3	10	89	47	34.5	40
8.4	10	89	47	34.4	40
8.5	10	89	47	34.2	40
8.6	10	89	47	34.1	40
8.7	10	89	47	33.9	40
8.8	10	89	47	33.8	40
8.9	10	89	47	33.6	40
9.0	10	89	47	33.5	40
9.1	10	89	47	33.3	40
9.2	10	89	47	33.2	40
9.3	10	89	47	33.0	40
9.4	10	89	47	32.9	40
9.5	10	89	47	32.7	40
9.6	10	89	47	32.6	40
9.7	10	89	47	32.4	40
9.8	10	89	47	32.3	40
9.9	10	89	47	32.1	40
10.0	10	89	47	32.0	40
10.1	12	102	55	39.8	45
10.2	12	102	55	39.7	45
10.3	12	102	55	39.5	45
10.4	12	102	55	39.4	45
10.5	12	102	55	39.2	45
10.6	12	102	55	39.1	45
10.7	12	102	55	38.9	45
10.8	12	102	55	38.8	45
10.9	12	102	55	38.6	45
11.0	12	102	55	38.5	45
11.1	12	102	55	38.3	45
11.2	12	102	55	38.2	45
11.3	12	102	55	38.0	45
11.4	12	102	55	37.9	45
11.5	12	102	55	37.7	45
11.6	12	102	55	37.6	45
11.7	12	102	55	37.4	45
11.8	12	102	55	37.3	45
11.9	12	102	55	37.1	45
12.0	12	102	55	37.0	45
12.2	14	107	60	41.7	45
12.3	14	107	60	41.5	45
12.5	14	107	60	41.2	45
12.7	14	107	60	40.9	45
12.8	14	107	60	40.8	45
12.9	14	107	60	40.6	45
13.0	14	107	60	40.5	45
13.1	14	107	60	40.3	45
13.5	14	107	60	39.7	45
13.7	14	107	60	39.4	45
13.8	14	107	60	39.3	45
14.0	14	107	60	39.0	45
14.2	16	115	65	43.7	48
14.4	16	115	65	43.4	48
14.5	16	115	65	43.2	48
14.7	16	115	65	42.9	48
14.8	16	115	65	42.8	48
15.0	16	115	65	42.5	48
15.1	16	115	65	42.3	48
15.2	16	115	65	42.2	48
15.5	16	115	65	41.7	48
15.7	16	115	65	41.4	48
15.8	16	115	65	41.3	48
16.0	16	115	65	41.0	48
16.5	18	123	73	48.2	48
17.0	18	123	73	47.5	48
17.5	18	123	73	46.7	48
18.0	18	123	73	46.0	48
18.5	20	131	79	51.2	50
18.9	20	131	79	50.6	50
19.0	20	131	79	50.5	50
19.3	20	131	79	50.0	50
19.5	20	131	79	49.7	50
20.0	20	131	79	49.0	50

11 713 ... PG T1/9C		11 711 ... PG T1/9C		11 700 ... PG T1/9C		11 706 ... PG T1/9C	
£	£	£	£	£	£	£	£
07800	<del>43.88</del> 43.00	07800	<del>28.22</del> 28.00	07800	<del>37.49</del> 37.00	07800	<del>24.19</del> 24.00
07900	<del>43.88</del> 43.00	07900	<del>28.22</del> 28.00	07900	<del>37.49</del> 37.00	07900	<del>24.19</del> 24.00
08000	<del>43.88</del> 43.00	08000	<del>28.22</del> 28.00	08000	<del>37.49</del> 37.00	08000	<del>24.19</del> 24.00
08100	<del>49.73</del> 49.00	08100	<del>31.58</del> 31.00	08100	<del>42.33</del> 42.00	08100	<del>27.81</del> 27.00
08200	<del>49.73</del> 49.00	08200	<del>31.58</del> 31.00	08200	<del>42.33</del> 42.00	08200	<del>27.81</del> 27.00
08300	<del>49.73</del> 49.00	08300	<del>31.58</del> 31.00	08300	<del>42.33</del> 42.00	08300	<del>27.81</del> 27.00
08400	<del>49.73</del> 49.00	08400	<del>31.58</del> 31.00	08400	<del>42.33</del> 42.00	08400	<del>27.81</del> 27.00
08500	<del>49.73</del> 49.00	08500	<del>31.58</del> 31.00	08500	<del>42.33</del> 42.00	08500	<del>27.81</del> 27.00
08600	<del>49.73</del> 49.00	08600	<del>31.58</del> 31.00	08600	<del>42.33</del> 42.00	08600	<del>27.81</del> 27.00
08700	<del>49.73</del> 49.00	08700	<del>31.58</del> 31.00	08700	<del>42.33</del> 42.00	08700	<del>27.81</del> 27.00
08800	<del>49.73</del> 49.00	08800	<del>31.58</del> 31.00	08800	<del>42.33</del> 42.00	08800	<del>27.81</del> 27.00
08900	<del>49.73</del> 49.00	08900	<del>31.58</del> 31.00	08900	<del>42.33</del> 42.00	08900	<del>27.81</del> 27.00
09000	<del>49.73</del> 49.00	09000	<del>31.58</del> 31.00	09000	<del>42.33</del> 42.00	09000	<del>27.81</del> 27.00
09100	<del>49.73</del> 49.00	09100	<del>31.58</del> 31.00	09100	<del>42.33</del> 42.00	09100	<del>27.81</del> 27.00
09200	<del>49.73</del> 49.00	09200	<del>31.58</del> 31.00	09200	<del>42.33</del> 42.00	09200	<del>27.81</del> 27.00
09300	<del>49.73</del> 49.00	09300	<del>31.58</del> 31.00	09300	<del>42.33</del> 42.00	09300	<del>27.81</del> 27.00
09400	<del>49.73</del> 49.00	09400	<del>31.58</del> 31.00	09400	<del>42.33</del> 42.00	09400	<del>27.81</del> 27.00
09500	<del>49.73</del> 49.00	09500	<del>31.58</del> 31.00	09500	<del>42.33</del> 42.00	09500	<del>27.81</del> 27.00
09600	<del>49.73</del> 49.00	09600	<del>31.58</del> 31.00	09600	<del>42.33</del> 42.00	09600	<del>27.81</del> 27.00
09700	<del>49.73</del> 49.00	09700	<del>31.58</del> 31.00	09700	<del>42.33</del> 42.00	09700	<del>27.81</del> 27.00
09800	<del>49.73</del> 49.00	09800	<del>31.58</del> 31.00	09800	<del>42.33</del> 42.00	09800	<del>27.81</del> 27.00
09900	<del>49.73</del> 49.00	09900	<del>31.58</del> 31.00	09900	<del>42.33</del> 42.00	09900	<del>27.81</del> 27.00
10000	<del>49.73</del> 49.00	10000	<del>31.58</del> 31.00	10000	<del>42.33</del> 42.00	10000	<del>27.81</del> 27.00
10100	<del>71.66</del> 71.00	10100	<del>47.64</del> 47.00	10100	<del>60.47</del> 60.00	10100	<del>42.33</del> 42.00
10200	<del>71.66</del> 71.00	10200	<del>47.64</del> 47.00	10200	<del>60.47</del> 60.00	10200	<del>42.33</del> 42.00
10300	<del>71.66</del> 71.00	10300	<del>47.64</del> 47.00	10300	<del>60.47</del> 60.00	10300	<del>42.33</del> 42.00
10400	<del>71.66</del> 71.00	10400	<del>47.64</del> 47.00	10400	<del>60.47</del> 60.00	10400	<del>42.33</del> 42.00
10500	<del>71.66</del> 71.00	10500	<del>47.64</del> 47.00	10500	<del>60.47</del> 60.00	10500	<del>42.33</del> 42.00
10600	<del>71.66</del> 71.00	10600	<del>47.64</del> 47.00	10600	<del>60.47</del> 60.00	10600	<del>42.33</del> 42.00
10700	<del>71.66</del> 71.00	10700	<del>47.64</del> 47.00	10700	<del>60.47</del> 60.00	10700	<del>42.33</del> 42.00
10800	<del>71.66</del> 71.00	10800	<del>47.64</del> 47.00	10800	<del>60.47</del> 60.00	10800	<del>42.33</del> 42.00
10900	<del>71.66</del> 71.00	10900	<del>47.64</del> 47.00	10900	<del>60.47</del> 60.00	10900	<del>42.33</del> 42.00
11000	<del>71.66</del> 71.00	11000	<del>47.64</del> 47.00	11000	<del>60.47</del> 60.00	11000	<del>42.33</del> 42.00
11100	<del>71.66</del> 71.00	11100	<del>47.64</del> 47.00	11100	<del>60.47</del> 60.00	11100	<del>42.33</del> 42.00
11200	<del>71.66</del> 71.00	11200	<del>47.64</del> 47.00	11200	<del>60.47</del> 60.00	11200	<del>42.33</del> 42.00
11300	<del>71.66</del> 71.00	11300	<del>47.64</del> 47.00	11300	<del>60.47</del> 60.00	11300	<del>42.33</del> 42.00
11400	<del>71.66</del> 71.00	11400	<del>47.64</del> 47.00	11400	<del>60.47</del> 60.00	11400	<del>42.33</del> 42.00
11500	<del>71.66</del> 71.00	11500	<del>47.64</del> 47.00	11500	<del>60.47</del> 60.00	11500	<del>42.33</del> 42.00
11600	<del>71.66</del> 71.00	11600	<del>47.64</del> 47.00	11600	<del>60.47</del> 60.00	11600	<del>42.33</del> 42.00
11700	<del>71.66</del> 71.00	11700	<del>47.64</del> 47.00	11700	<del>60.47</del> 60.00	11700	<del>42.33</del> 42.00
11800	<del>71.66</del> 71.00	11800	<del>47.64</del> 47.00	11800	<del>60.47</del> 60.00	11800	<del>42.33</del> 42.00
11900	<del>71.66</del> 71.00	11900	<del>47.64</del> 47.00	11900	<del>60.47</del> 60.00	11900	<del>42.33</del> 42.00
12000	<del>71.66</del> 71.00	12000	<del>47.64</del> 47.00	12000	<del>60.47</del> 60.00	12000	<del>42.33</del> 42.00
12200	<del>96.04</del> 96.00	12200	<del>63.82</del> 63.00	12200	<del>81.03</del> 81.00	12200	<del>56.84</del> 56.00
12300	<del>96.04</del> 96.00	12300	<del>63.82</del> 63.00	12300	<del>81.03</del> 81.00	12300	<del>56.84</del> 56.00
12500	<del>96.04</del> 96.00	12500	<del>63.82</del> 63.00	12500	<del>81.03</del> 81.00	12500	<del>56.84</del> 56.00
12700	<del>96.04</del> 96.00	12700	<del>63.82</del> 63.00	12700	<del>81.03</del> 81.00	12700	<del>56.84</del> 56.00
12800	<del>96.04</del> 96.00	12800	<del>63.82</del> 63.00	12800	<del>81.03</del> 81.00	12800	<del>56.84</del> 56.00
12900	<del>96.04</del> 96.00	12900	<del>63.82</del> 63.00	12900	<del>81.03</del> 81.00	12900	<del>56.84</del> 56.00
13000	<del>96.04</del> 96.00	13000	<del>63.82</del> 63.00	13000	<del>81.03</del> 81.00	13000	<del>56.84</del> 56.00
13100	<del>96.04</del> 96.00	13100	<del>63.82</del> 63.00	13100	<del>81.03</del> 81.00	13100	<del>56.84</del> 56.00
13500	<del>96.04</del> 96.00	13500	<del>63.82</del> 63.00	13500	<del>81.03</del> 81.00	13500	<del>56.84</del> 56.00
13700	<del>96.04</del> 96.00	13700	<del>63.82</del> 63.00	13700	<del>63.82</del> 63.00	13700	<del>56.84</del> 56.00
13800	<del>96.04</del> 96.00	13800	<del>63.82</del> 63.00	13800	<del>63.82</del> 63.00	13800	<del>56.84</del> 56.00
14000	<del>96.04</del> 96.00	14000	<del>63.82</del> 63.00	14000	<del>63.82</del> 63.00	14000	<del>56.84</del> 56.00
14200	<del>123.08</del> 123.00	14200	<del>82.05</del> 82.00	14200	<del>105.22</del> 105.00	14200	<del>72.57</del> 72.00
14400	<del>123.08</del> 123.00	14400	<del>82.05</del> 82.00	14400	<del>105.22</del> 105.00	14400	<del>72.57</del> 72.00
14500	<del>123.08</del> 123.00	14500	<del>82.05</del> 82.00	14500	<del>105.22</del> 105.00	14500	<del>72.57</del> 72.00
14700	<del>123.08</del> 123.00	14700	<del>82.05</del> 82.00	14700	<del>105.22</del> 105.00	14700	<del>72.57</del> 72.00
14800	<del>123.08</del> 123.00	14800	<del>82.05</del> 82.00	14800	<del>105.22</del> 105.00	14800	<del>72.57</del> 72.00
15000							



High Performance Drill, DIN 6537



DC <sub>h7/m7</sub>	DCONMS <sub>h6</sub>	OAL	LCF	LU	LS
mm	mm	mm	mm	mm	mm
1.00	4	55	8	6.5	28
1.10	4	55	12	10.3	28
1.20	4	55	12	10.2	28
1.30	4	55	12	10.0	28
1.40	4	55	12	9.9	28
1.50	4	55	12	9.7	28
1.60	4	55	16	13.6	28
1.70	4	55	16	13.4	28
1.80	4	55	16	13.3	28
1.90	4	55	16	13.1	28
2.00	4	57	21	18.0	28
2.10	4	57	21	17.8	28
2.20	4	57	21	17.7	28
2.30	4	57	21	17.5	28
2.40	4	57	21	17.4	28
2.50	4	57	21	17.2	28
2.60	4	57	21	17.1	28
2.70	4	57	21	16.9	28
2.80	4	57	21	16.8	28
2.90	4	57	21	16.6	28
3.00	6	66	28	23.5	36
3.10	6	66	28	23.3	36
3.20	6	66	28	23.2	36
3.25	6	66	28	23.1	36
3.30	6	66	28	23.0	36
3.40	6	66	28	22.9	36
3.50	6	66	28	22.7	36
3.60	6	66	28	22.6	36
3.70	6	66	28	22.4	36
3.80	6	74	36	30.3	36
3.85	6	74	36	30.2	36
3.90	6	74	36	30.1	36
4.00	6	74	36	30.0	36
4.10	6	74	36	29.8	36
4.20	6	74	36	29.7	36
4.30	6	74	36	29.5	36
4.40	6	74	36	29.4	36
4.50	6	74	36	29.2	36
4.60	6	74	36	29.1	36
4.65	6	74	36	29.0	36
4.70	6	74	36	28.9	36
4.80	6	82	44	36.8	36
4.90	6	82	44	36.6	36
5.00	6	82	44	36.5	36
5.10	6	82	44	36.3	36
5.20	6	82	44	36.2	36
5.30	6	82	44	36.0	36
5.40	6	82	44	35.9	36
5.50	6	82	44	35.7	36
5.55	6	82	44	35.6	36
5.60	6	82	44	35.6	36
5.65	6	82	44	35.5	36
5.70	6	82	44	35.4	36
5.80	6	82	44	35.3	36
5.90	6	82	44	35.1	36
6.00	6	82	44	35.0	36
6.10	8	91	53	43.8	36
6.20	8	91	53	43.7	36
6.30	8	91	53	43.5	36
6.40	8	91	53	43.4	36
6.50	8	91	53	43.2	36
6.60	8	91	53	43.1	36
6.70	8	91	53	42.9	36
6.80	8	91	53	42.8	36
6.90	8	91	53	42.6	36
7.00	8	91	53	42.5	36
7.10	8	91	53	42.3	36
7.20	8	91	53	42.2	36
7.30	8	91	53	42.0	36
7.40	8	91	53	41.9	36
7.45	8	91	53	41.8	36
7.50	8	91	53	41.7	36
7.55	8	91	53	41.6	36
7.60	8	91	53	41.6	36
7.65	8	91	53	41.5	36
7.70	8	91	53	41.4	36
7.80	8	91	53	41.3	36
7.90	8	91	53	41.1	36
8.00	8	91	53	41.0	36
8.10	10	103	61	48.8	40
8.20	10	103	61	48.7	40
8.30	10	103	61	48.5	40

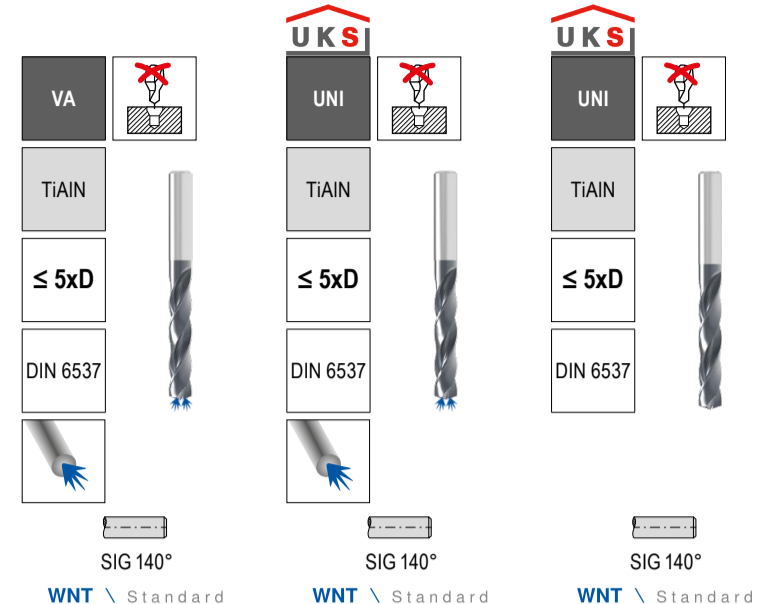
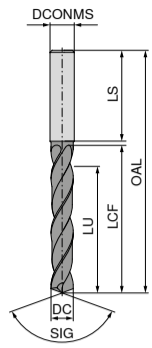
11 715 ... PG T1/9C		11 702 ... PG T1/9C		11 710 ... PG T1/9C	
£	£	£	£	£	£
01000	<del>43.04</del> 43.00	01000	<del>36.28</del> 36.00		
01100	<del>43.04</del> 43.00	01100	<del>36.28</del> 36.00		
01200	<del>43.04</del> 43.00	01200	<del>36.28</del> 36.00		
01300	<del>43.04</del> 43.00	01300	<del>36.28</del> 36.00		
01400	<del>43.04</del> 43.00	01400	<del>36.28</del> 36.00		
01500	<del>43.04</del> 43.00	01500	<del>36.28</del> 36.00		
01600	<del>43.04</del> 43.00	01600	<del>36.28</del> 36.00		
01700	<del>43.04</del> 43.00	01700	<del>36.28</del> 36.00		
01800	<del>43.04</del> 43.00	01800	<del>36.28</del> 36.00		
01900	<del>43.04</del> 43.00	01900	<del>36.28</del> 36.00		
02000	<del>43.04</del> 43.00	02000	<del>36.28</del> 36.00		
02100	<del>43.04</del> 43.00	02100	<del>36.28</del> 36.00		
02200	<del>43.04</del> 43.00	02200	<del>36.28</del> 36.00		
02300	<del>43.04</del> 43.00	02300	<del>36.28</del> 36.00		
02400	<del>43.04</del> 43.00	02400	<del>36.28</del> 36.00		
02500	<del>43.04</del> 43.00	02500	<del>36.28</del> 36.00		
02600	<del>43.04</del> 43.00	02600	<del>36.28</del> 36.00		
02700	<del>43.04</del> 43.00	02700	<del>36.28</del> 36.00		
02800	<del>43.04</del> 43.00	02800	<del>36.28</del> 36.00		
02900	<del>43.04</del> 43.00	02900	<del>36.28</del> 36.00		
03000	<del>42.34</del> 42.00	03000	<del>36.28</del> 36.00	03000	<del>30.24</del> 30.00
03100	<del>42.34</del> 42.00	03100	<del>36.28</del> 36.00	03100	<del>30.24</del> 30.00
03200	<del>42.34</del> 42.00	03200	<del>36.28</del> 36.00	03200	<del>30.24</del> 30.00
03300	<del>42.34</del> 42.00	03250	<del>36.28</del> 36.00	03250	<del>30.24</del> 30.00
03400	<del>42.34</del> 42.00	03300	<del>36.28</del> 36.00	03300	<del>30.24</del> 30.00
03500	<del>42.34</del> 42.00	03400	<del>36.28</del> 36.00	03400	<del>30.24</del> 30.00
03600	<del>42.34</del> 42.00	03500	<del>36.28</del> 36.00	03500	<del>30.24</del> 30.00
03700	<del>42.34</del> 42.00	03600	<del>36.28</del> 36.00	03600	<del>30.24</del> 30.00
03800	<del>42.34</del> 42.00	03700	<del>36.28</del> 36.00	03700	<del>30.24</del> 30.00
		03800	<del>36.28</del> 36.00	03800	<del>30.24</del> 30.00
		03850	<del>36.28</del> 36.00		
03900	<del>42.34</del> 42.00	03900	<del>36.28</del> 36.00	03900	<del>30.24</del> 30.00
04000	<del>42.34</del> 42.00	04000	<del>36.28</del> 36.00	04000	<del>30.24</del> 30.00
04100	<del>42.34</del> 42.00	04100	<del>36.28</del> 36.00	04100	<del>30.24</del> 30.00
04200	<del>42.34</del> 42.00	04200	<del>36.28</del> 36.00	04200	<del>30.24</del> 30.00
04300	<del>42.34</del> 42.00	04300	<del>36.28</del> 36.00	04300	<del>30.24</del> 30.00
04400	<del>42.34</del> 42.00	04400	<del>36.28</del> 36.00	04400	<del>30.24</del> 30.00
04500	<del>42.34</del> 42.00	04500	<del>36.28</del> 36.00	04500	<del>30.24</del> 30.00
04600	<del>42.34</del> 42.00	04600	<del>36.28</del> 36.00	04600	<del>30.24</del> 30.00
		04650	<del>36.28</del> 36.00	04650	<del>30.24</del> 30.00
04700	<del>42.34</del> 42.00	04700	<del>36.28</del> 36.00	04700	<del>30.24</del> 30.00
04800	<del>42.34</del> 42.00	04800	<del>36.28</del> 36.00	04800	<del>30.24</del> 30.00
04900	<del>42.34</del> 42.00	04900	<del>36.28</del> 36.00	04900	<del>30.24</del> 30.00
05000	<del>42.34</del> 42.00	05000	<del>36.28</del> 36.00	05000	<del>30.24</del> 30.00
05100	<del>42.34</del> 42.00	05100	<del>36.28</del> 36.00	05100	<del>30.24</del> 30.00
05200	<del>42.34</del> 42.00	05200	<del>36.28</del> 36.00	05200	<del>30.24</del> 30.00
05300	<del>42.34</del> 42.00	05300	<del>36.28</del> 36.00	05300	<del>30.24</del> 30.00
05400	<del>42.34</del> 42.00	05400	<del>36.28</del> 36.00	05400	<del>30.24</del> 30.00
05500	<del>42.34</del> 42.00	05500	<del>36.28</del> 36.00	05500	<del>30.24</del> 30.00
		05550	<del>36.28</del> 36.00	05550	<del>30.24</del> 30.00
05600	<del>42.34</del> 42.00	05600	<del>36.28</del> 36.00	05600	<del>30.24</del> 30.00
		05650	<del>36.28</del> 36.00	05650	<del>30.24</del> 30.00
05700	<del>42.34</del> 42.00	05700	<del>36.28</del> 36.00	05700	<del>30.24</del> 30.00
05800	<del>42.34</del> 42.00	05800	<del>36.28</del> 36.00	05800	<del>30.24</del> 30.00
05900	<del>42.34</del> 42.00	05900	<del>36.28</del> 36.00	05900	<del>30.24</del> 30.00
06000	<del>42.34</del> 42.00	06000	<del>36.28</del> 36.00	06000	<del>30.24</del> 30.00
06100	<del>48.65</del> 48.00	06100	<del>41.12</del> 41.00	06100	<del>30.24</del> 30.00
06200	<del>48.65</del> 48.00	06200	<del>41.12</del> 41.00	06200	<del>30.24</del> 30.00
06300	<del>48.65</del> 48.00	06300	<del>41.12</del> 41.00	06300	<del>30.24</del> 30.00
06400	<del>48.65</del> 48.00	06400	<del>41.12</del> 41.00	06400	<del>30.24</del> 30.00
06500	<del>48.65</del> 48.00	06500	<del>41.12</del> 41.00	06500	<del>30.24</del> 30.00
06600	<del>48.65</del> 48.00	06600	<del>41.12</del> 41.00	06600	<del>30.24</del> 30.00
06700	<del>48.65</del> 48.00	06700	<del>41.12</del> 41.00	06700	<del>30.24</del> 30.00
06800	<del>48.65</del> 48.00	06800	<del>41.12</del> 41.00	06800	<del>30.24</del> 30.00
06900	<del>48.65</del> 48.00	06900	<del>41.12</del> 41.00	06900	<del>30.24</del> 30.00
07000	<del>48.65</del> 48.00	07000	<del>41.12</del> 41.00	07000	<del>30.24</del> 30.00
07100	<del>48.65</del> 48.00	07100	<del>41.12</del> 41.00	07100	<del>30.24</del> 30.00
07200	<del>48.65</del> 48.00	07200	<del>41.12</del> 41.00	07200	<del>30.24</del> 30.00
07300	<del>48.65</del> 48.00	07300	<del>41.12</del> 41.00	07300	<del>30.24</del> 30.00
07400	<del>48.65</del> 48.00	07400	<del>41.12</del> 41.00	07400	<del>30.24</del> 30.00
07450	<del>48.65</del> 48.00				
07500	<del>48.65</del> 48.00	07500	<del>41.12</del> 41.00	07500	<del>30.24</del> 30.00
07550	<del>48.65</del> 48.00	07550	<del>41.12</del> 41.00	07550	<del>30.24</del> 30.00
07600	<del>48.65</del> 48.00	07600	<del>41.12</del> 41.00	07600	<del>30.24</del> 30.00
		07650	<del>41.12</del> 41.00	07650	<del>30.24</del> 30.00
07700	<del>48.65</del> 48.00	07700	<del>41.12</del> 41.00	07700	<del>30.24</del> 30.00
07800	<del>48.65</del> 48.00	07800	<del>41.12</del> 41.00	07800	<del>30.24</del> 30.00
07900	<del>48.65</del> 48.00	07900	<del>41.12</del> 41.00	07900	<del>30.24</del> 30.00
08000	<del>48.65</del> 48.00	08000	<del>41.12</del> 41.00	08000	<del>30.24</del> 30.00
08100	<del>55.62</del> 55.00	08100	<del>47.17</del> 47.00	08100	<del>32.65</del> 32.00
08200	<del>55.62</del> 55.00	08200	<del>47.17</del> 47.00	08200	<del>32.65</del> 32.00
08300	<del>55.62</del> 55.00	08300	<del>47.17</del> 47.00	08300	<del>32.65</del> 32.00

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





High Performance Drill, DIN 6537

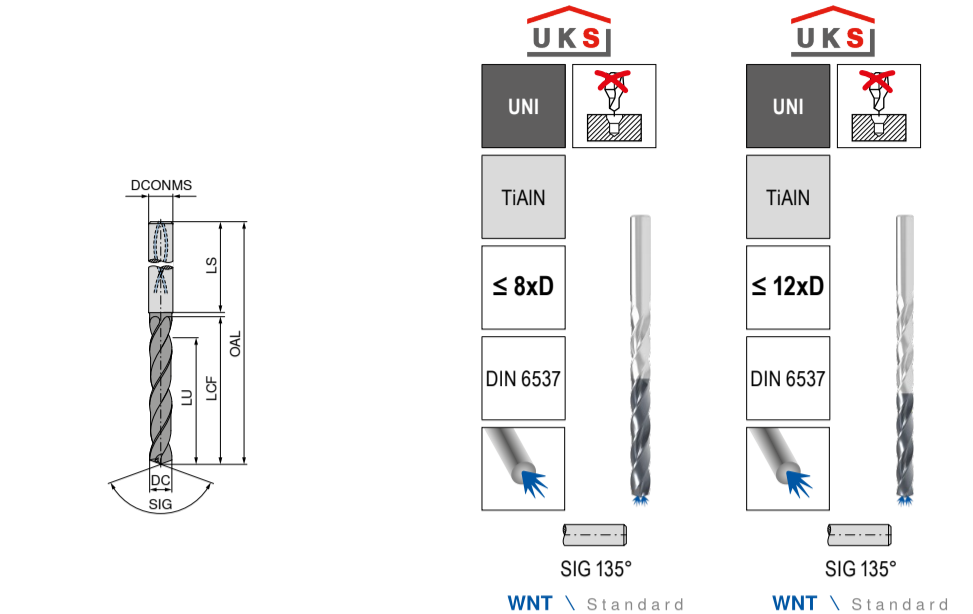


DC <sub>h7/m7</sub>	DCONMS <sub>h6</sub>	OAL	LCF	LU	LS
mm	mm	mm	mm	mm	mm
8.40	10	103	61	48.4	40
8.50	10	103	61	48.2	40
8.60	10	103	61	48.1	40
8.70	10	103	61	47.9	40
8.80	10	103	61	47.8	40
8.90	10	103	61	47.6	40
9.00	10	103	61	47.5	40
9.10	10	103	61	47.3	40
9.20	10	103	61	47.2	40
9.30	10	103	61	47.0	40
9.40	10	103	61	46.9	40
9.50	10	103	61	46.7	40
9.55	10	103	61	46.6	40
9.60	10	103	61	46.6	40
9.70	10	103	61	46.4	40
9.80	10	103	61	46.3	40
9.90	10	103	61	46.1	40
10.00	10	103	61	46.0	40
10.10	12	118	71	55.8	45
10.20	12	118	71	55.7	45
10.30	12	118	71	55.5	45
10.40	12	118	71	55.4	45
10.50	12	118	71	55.2	45
10.60	12	118	71	55.1	45
10.70	12	118	71	54.9	45
10.80	12	118	71	54.8	45
10.90	12	118	71	54.6	45
11.00	12	118	71	54.5	45
11.10	12	118	71	54.3	45
11.20	12	118	71	54.2	45
11.30	12	118	71	54.0	45
11.40	12	118	71	53.9	45
11.50	12	118	71	53.7	45
11.60	12	118	71	53.6	45
11.70	12	118	71	53.4	45
11.80	12	118	71	53.3	45
11.90	12	118	71	53.1	45
12.00	12	118	71	53.0	45
12.10	14	124	77	58.8	45
12.20	14	124	77	58.7	45
12.40	14	124	77	58.4	45
12.50	14	124	77	58.2	45
12.60	14	124	77	58.1	45
12.70	14	124	77	57.9	45
12.80	14	124	77	57.8	45
13.00	14	124	77	57.5	45
13.10	14	124	77	57.3	45
13.20	14	124	77	57.2	45
13.30	14	124	77	57.0	45
13.50	14	124	77	56.7	45
13.70	14	124	77	56.4	45
13.80	14	124	77	56.3	45
14.00	14	124	77	56.0	45
14.20	16	133	83	61.7	48
14.30	16	133	83	61.5	48
14.40	16	133	83	61.4	48
14.50	16	133	83	61.2	48
14.70	16	133	83	60.9	48
14.80	16	133	83	60.8	48
15.00	16	133	83	60.5	48
15.10	16	133	83	60.3	48
15.20	16	133	83	60.2	48
15.25	16	133	83	60.1	48
15.30	16	133	83	60.0	48
15.50	16	133	83	59.7	48
15.70	16	133	83	59.4	48
15.80	16	133	83	59.3	48
16.00	16	133	83	59.0	48
16.20	18	143	93	68.7	48
16.30	18	143	93	68.5	48
16.50	18	143	93	68.2	48
16.80	18	143	93	67.8	48
17.00	18	143	93	67.5	48
17.30	18	143	93	67.0	48
17.50	18	143	93	66.7	48
18.00	18	143	93	66.0	48
18.50	20	153	101	73.2	50
18.90	20	153	101	72.6	50
19.00	20	153	101	72.5	50
19.20	20	153	101	72.2	50
19.30	20	153	101	72.0	50
19.50	20	153	101	71.7	50
19.70	20	153	101	71.4	50
20.00	20	153	101	71.0	50

11 715 ... PG T1/9C		11 702 ... PG T1/9C		11 710 ... PG T1/9C	
£	£	£	£	£	£
08400	<del>55.62</del> 55.00	08400	<del>47.17</del> 47.00	08400	<del>32.65</del> 32.00
08500	<del>55.62</del> 55.00	08500	<del>47.17</del> 47.00	08500	<del>32.65</del> 32.00
08600	<del>55.62</del> 55.00	08600	<del>47.17</del> 47.00	08600	<del>32.65</del> 32.00
08700	<del>55.62</del> 55.00	08700	<del>47.17</del> 47.00	08700	<del>32.65</del> 32.00
08800	<del>55.62</del> 55.00	08800	<del>47.17</del> 47.00	08800	<del>32.65</del> 32.00
08900	<del>55.62</del> 55.00	08900	<del>47.17</del> 47.00	08900	<del>32.65</del> 32.00
09000	<del>55.62</del> 55.00	09000	<del>47.17</del> 47.00	09000	<del>32.65</del> 32.00
09100	<del>55.62</del> 55.00	09100	<del>47.17</del> 47.00	09100	<del>32.65</del> 32.00
09200	<del>55.62</del> 55.00	09200	<del>47.17</del> 47.00	09200	<del>32.65</del> 32.00
09300	<del>55.62</del> 55.00	09300	<del>47.17</del> 47.00	09300	<del>32.65</del> 32.00
09400	<del>55.62</del> 55.00	09400	<del>47.17</del> 47.00	09400	<del>32.65</del> 32.00
09500	<del>55.62</del> 55.00	09500	<del>47.17</del> 47.00	09500	<del>32.65</del> 32.00
09550		09550	<del>47.17</del> 47.00		
09600	<del>55.62</del> 55.00	09600	<del>47.17</del> 47.00	09600	<del>32.65</del> 32.00
09700	<del>55.62</del> 55.00	09700	<del>47.17</del> 47.00	09700	<del>32.65</del> 32.00
09800	<del>55.62</del> 55.00	09800	<del>47.17</del> 47.00	09800	<del>32.65</del> 32.00
09900	<del>55.62</del> 55.00	09900	<del>47.17</del> 47.00	09900	<del>32.65</del> 32.00
10000	<del>55.62</del> 55.00	10000	<del>47.17</del> 47.00	10000	<del>32.65</del> 32.00
10100	<del>82.76</del> 82.00	10100	<del>70.14</del> 70.00	10100	<del>49.59</del> 49.00
10200	<del>82.76</del> 82.00	10200	<del>70.14</del> 70.00	10200	<del>49.59</del> 49.00
10300	<del>82.76</del> 82.00	10300	<del>70.14</del> 70.00	10300	<del>49.59</del> 49.00
10400	<del>82.76</del> 82.00	10400	<del>70.14</del> 70.00	10400	<del>49.59</del> 49.00
10500	<del>82.76</del> 82.00	10500	<del>70.14</del> 70.00	10500	<del>49.59</del> 49.00
10600	<del>82.76</del> 82.00	10600	<del>70.14</del> 70.00	10600	<del>49.59</del> 49.00
10700	<del>82.76</del> 82.00	10700	<del>70.14</del> 70.00	10700	<del>49.59</del> 49.00
10800	<del>82.76</del> 82.00	10800	<del>70.14</del> 70.00	10800	<del>49.59</del> 49.00
10900	<del>82.76</del> 82.00	10900	<del>70.14</del> 70.00	10900	<del>49.59</del> 49.00
11000	<del>82.76</del> 82.00	11000	<del>70.14</del> 70.00	11000	<del>49.59</del> 49.00
11100	<del>82.76</del> 82.00	11100	<del>70.14</del> 70.00	11100	<del>49.59</del> 49.00
11200	<del>82.76</del> 82.00	11200	<del>70.14</del> 70.00	11200	<del>49.59</del> 49.00
11300	<del>82.76</del> 82.00	11300	<del>70.14</del> 70.00	11300	<del>49.59</del> 49.00
11400	<del>82.76</del> 82.00	11400	<del>70.14</del> 70.00	11400	<del>49.59</del> 49.00
11500	<del>82.76</del> 82.00	11500	<del>70.14</del> 70.00	11500	<del>49.59</del> 49.00
11600	<del>82.76</del> 82.00	11600	<del>70.14</del> 70.00	11600	<del>49.59</del> 49.00
11700	<del>82.76</del> 82.00	11700	<del>70.14</del> 70.00	11700	<del>49.59</del> 49.00
11800	<del>82.76</del> 82.00	11800	<del>70.14</del> 70.00	11800	<del>49.59</del> 49.00
11900	<del>82.76</del> 82.00	11900	<del>70.14</del> 70.00	11900	<del>49.59</del> 49.00
12000	<del>82.76</del> 82.00	12000	<del>70.14</del> 70.00	12000	<del>49.59</del> 49.00
12100	<del>105.52</del> 105.00	12100	<del>89.50</del> 89.00	12100	<del>65.34</del> 65.00
12200	<del>105.52</del> 105.00	12200	<del>89.50</del> 89.00	12200	<del>65.34</del> 65.00
12400	<del>105.52</del> 105.00	12400	<del>89.50</del> 89.00		
12500	<del>105.52</del> 105.00	12500	<del>89.50</del> 89.00	12500	<del>65.34</del> 65.00
12600	<del>105.52</del> 105.00	12600	<del>89.50</del> 89.00		
12700	<del>105.52</del> 105.00	12700	<del>103.34</del> 87.84	12700	<del>79.23</del> 61.40
12800	<del>105.52</del> 105.00	12800	<del>89.50</del> 89.00	12800	<del>65.34</del> 65.00
13000	<del>105.52</del> 105.00	13000	<del>89.50</del> 89.00	13000	<del>65.34</del> 65.00
13100	<del>105.52</del> 105.00	13100	<del>89.50</del> 89.00		
13200	<del>105.52</del> 105.00	13200	<del>89.50</del> 89.00	13200	<del>65.34</del> 65.00
13300	<del>105.52</del> 105.00	13300	<del>89.50</del> 89.00		
13500	<del>105.52</del> 105.00	13500	<del>89.50</del> 89.00	13500	<del>65.34</del> 65.00
13700	<del>105.52</del> 105.00				
13800	<del>105.52</del> 105.00	13800	<del>89.50</del> 89.00	13800	<del>65.34</del> 65.00
14000	<del>105.52</del> 105.00	14000	<del>89.50</del> 89.00	14000	<del>65.34</del> 65.00
14200	<del>135.35</del> 135.00	14200	<del>114.89</del> 114.00	14200	<del>84.66</del> 84.00
14300	<del>135.35</del> 135.00	14300	<del>114.89</del> 114.00		
14400	<del>135.35</del> 135.00	14400	<del>114.89</del> 114.00	14400	<del>84.66</del> 84.00
14500	<del>135.35</del> 135.00	14500	<del>114.89</del> 114.00	14500	<del>84.66</del> 84.00
14700	<del>135.35</del> 135.00				
14800	<del>135.35</del> 135.00	14800	<del>114.89</del> 114.00	14800	<del>84.66</del> 84.00
15000	<del>135.35</del> 135.00	15000	<del>114.89</del> 114.00	15000	<del>84.66</del> 84.00
15100	<del>135.35</del> 135.00	15100	<del>114.89</del> 114.00		
15200	<del>135.35</del> 135.00	15200	<del>114.89</del> 114.00	15200	<del>84.66</del> 84.00
15250		15250	<del>114.89</del> 114.00		
15300	<del>135.35</del> 135.00	15300	<del>114.89</del> 114.00		
15500	<del>135.35</del> 135.00	15500	<del>114.89</del> 114.00	15500	<del>84.66</del> 84.00
15700	<del>135.35</del> 135.00				
15800	<del>135.35</del> 135.00	15800	<del>114.89</del> 114.00	15800	<del>84.66</del> 84.00
16000	<del>135.35</del> 135.00	16000	<del>114.89</del> 114.00	16000	<del>84.66</del> 84.00
16200	<del>209.32</del> 209.00	16200	<del>176.57</del> 176.00		
16300	<del>209.32</del> 209.00	16300	<del>176.57</del> 176.00		
16500	<del>209.32</del> 209.00	16500	<del>176.57</del> 176.00	16500	<del>137.88</del> 137.00
16800	<del>209.32</del> 209.00	16800	<del>176.57</del> 176.00		
17000	<del>209.32</del> 209.00	17000	<del>176.57</del> 176.00	17000	<del>137.88</del> 137.00
17300	<del>209.32</del> 209.00	17300	<del>176.57</del> 176.00		
17500	<del>209.32</del> 209.00	17500	<del>176.57</del> 176.00	17500	<del>137.88</del> 137.00
18000	<del>209.32</del> 209.00	18000	<del>176.57</del> 176.00	18000	<del>137.88</del> 137.00
18500	<del>227.70</del> 227.00	18500	<del>192.20</del> 192.00	18500	<del>147.55</del> 147.00
18900	<del>227.70</del> 227.00	18900	<del>192.20</del> 192.00	18900	<del>147.55</del> 147.0



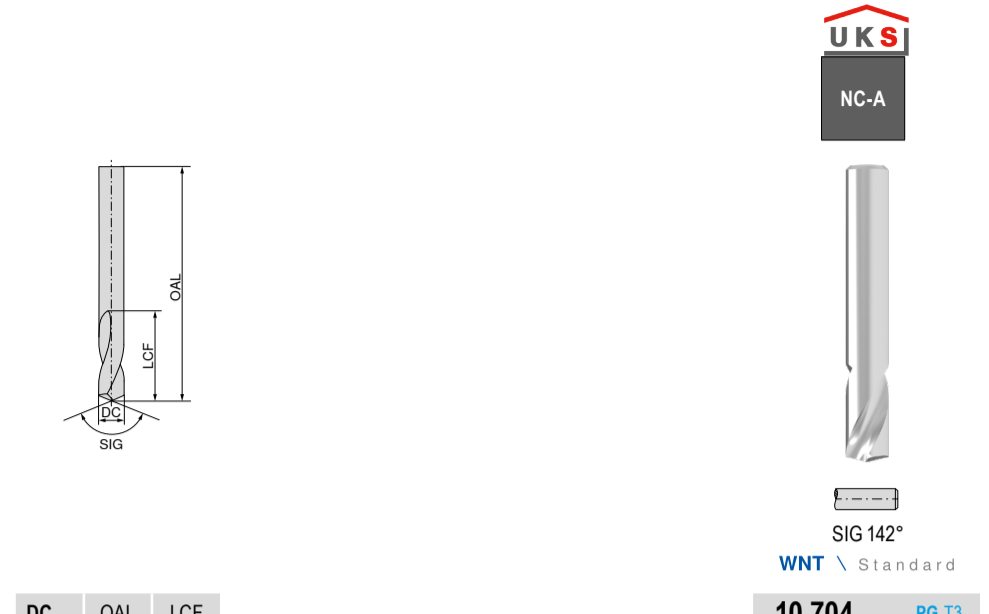
High Performance Drill, factory standard



DC <sub>N7</sub> mm	11 704 ... PG T1/9C		11 705 ... PG T1/9C	
	£	£	£	£
3.0	71.36	71.00	95.54	95.00
3.1	71.36	71.00	95.54	95.00
3.2	71.36	71.00	95.54	95.00
3.3	71.36	71.00	95.54	95.00
3.4	71.36	71.00	95.54	95.00
3.5	71.36	71.00	95.54	95.00
3.6	71.36	71.00	95.54	95.00
3.7	71.36	71.00	95.54	95.00
3.8	71.36	71.00	95.54	95.00
3.9	71.36	71.00	95.54	95.00
4.0	71.36	71.00	95.54	95.00
4.1	71.36	71.00	95.54	95.00
4.2	71.36	71.00	95.54	95.00
4.3	71.36	71.00	95.54	95.00
4.4	71.36	71.00	95.54	95.00
4.5	71.36	71.00	95.54	95.00
4.6	71.36	71.00	95.54	95.00
4.7	71.36	71.00	95.54	95.00
4.8	71.36	71.00	95.54	95.00
4.9	71.36	71.00	95.54	95.00
5.0	71.36	71.00	95.54	95.00
5.1	71.36	71.00	95.54	95.00
5.2	71.36	71.00	95.54	95.00
5.3	71.36	71.00	95.54	95.00
5.4	71.36	71.00	95.54	95.00
5.5	71.36	71.00	95.54	95.00
5.6	71.36	71.00	95.54	95.00
5.7	71.36	71.00	95.54	95.00
5.8	71.36	71.00	95.54	95.00
5.9	71.36	71.00	95.54	95.00
6.0	71.36	71.00	95.54	95.00
6.1	88.29	88.00	106.43	106.00
6.2	88.29	88.00	106.43	106.00
6.3	88.29	88.00	106.43	106.00
6.4	88.29	88.00	106.43	106.00
6.5	88.29	88.00	106.43	106.00
6.6	88.29	88.00	106.43	106.00
6.7	88.29	88.00	106.43	106.00
6.8	88.29	88.00	106.43	106.00
6.9	88.29	88.00	106.43	106.00
7.0	88.29	88.00	106.43	106.00
7.1	88.29	88.00	106.43	106.00
7.2	88.29	88.00	106.43	106.00
7.3	88.29	88.00	106.43	106.00
7.4	88.29	88.00	106.43	106.00
7.5	88.29	88.00	106.43	106.00
7.6	88.29	88.00	106.43	106.00
7.7	88.29	88.00	106.43	106.00
7.8	88.29	88.00	106.43	106.00
7.9	88.29	88.00	106.43	106.00
8.0	88.29	88.00	106.43	106.00
8.1	107.61	107.00	148.76	148.00
8.2	107.61	107.00	148.76	148.00
8.3	107.61	107.00	148.76	148.00
8.4	107.61	107.00	148.76	148.00
8.5	107.61	107.00	148.76	148.00
8.6	107.61	107.00	148.76	148.00
8.7	107.61	107.00	148.76	148.00
8.8	107.61	107.00	148.76	148.00
8.9	107.61	107.00	148.76	148.00
9.0	107.61	107.00	148.76	148.00
9.1	107.61	107.00	148.76	148.00
9.2	107.61	107.00	148.76	148.00
9.3	107.61	107.00	148.76	148.00
9.4	107.61	107.00	148.76	148.00
9.5	107.61	107.00	148.76	148.00
9.6	107.61	107.00	148.76	148.00
9.7	107.61	107.00	148.76	148.00
9.8	107.61	107.00	148.76	148.00
9.9	107.61	107.00	148.76	148.00
10.0	107.61	107.00	148.76	148.00
10.2	143.01	143.00	205.60	205.00
10.5	143.01	143.00	205.60	205.00
10.8	143.01	143.00	205.60	205.00
11.0	143.01	143.00	205.60	205.00
11.5	143.01	143.00	205.60	205.00
11.8	143.01	143.00	205.60	205.00
12.0	143.01	143.00	205.60	205.00
12.2	215.21	215.00	264.96	264.00
12.5	215.21	215.00	264.96	264.00
12.7	249.60	212.16	264.96	264.00
12.8	264.96	264.00	264.96	264.00
13.0	215.21	215.00	264.96	264.00
13.5	215.21	215.00	264.96	264.00
13.8	264.96	264.00	264.96	264.00
14.0	215.21	215.00	264.96	264.00
14.5	281.79	281.00	349.52	349.00
14.8	281.79	281.00	349.52	349.00
15.0	281.79	281.00	349.52	349.00
15.5	281.79	281.00	349.52	349.00
15.8	281.79	281.00	349.52	349.00
16.0	281.79	281.00	349.52	349.00
16.5	364.03	364.00	417.24	417.00
17.0	364.03	364.00	417.24	417.00
17.5	364.03	364.00	417.24	417.00
18.0	364.03	364.00	417.24	417.00
18.5	405.15	405.00	417.24	417.00
19.0	405.15	405.00	417.24	417.00
19.5	405.15	405.00	417.24	417.00
20.0	405.15	405.00	417.24	417.00



NC Spot Drill, factory standard



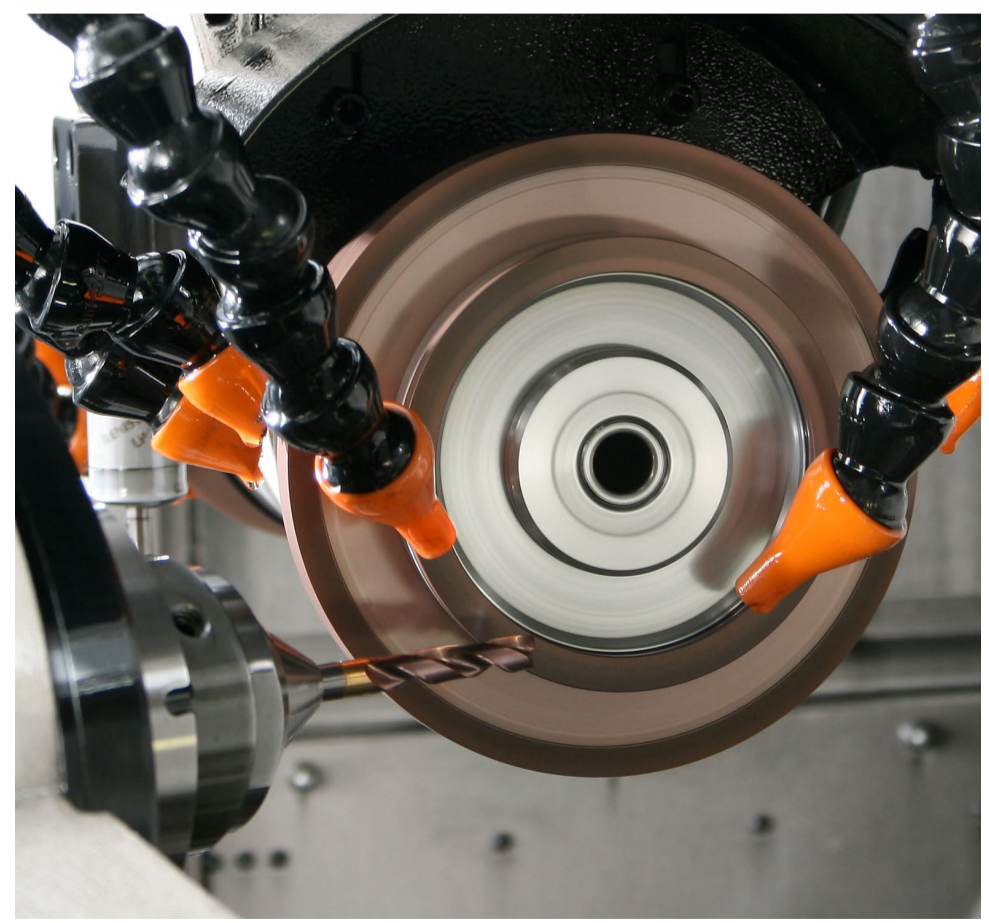
DC <sub>js8</sub> mm	OAL mm	LCF mm	10 704 ...	PG T3
2	32	6	002	27.94 19.56
3	32	8	003	27.94 19.56
4	40	10	004	24.91 15.34
5	50	13	005	25.17 17.62
6	50	13	006	28.08 19.66
8	60	23	008	43.45 30.21
10	70	24	010	60.51 42.36
12	70	24	012	87.28 61.10
14	75	26	014	100.36 70.25
16	75	29	016	146.48 102.54
18	100	35	018	284.11 198.88
20	100	35	020	288.51 166.96

**New for old**

Regrind instead of buying new



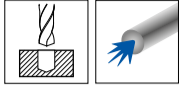
Your used precision tool is in the best possible hands with us. We return your tool to you with the original finish, coating and geometry – as good as new and ready for use back in the machine.



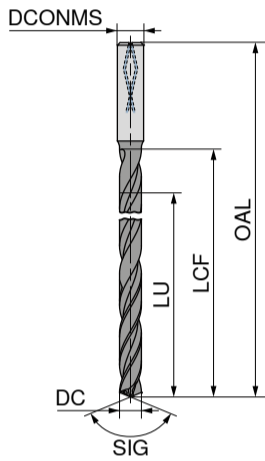


### WTX – High performance deep hole drills

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



WNT \ Performance



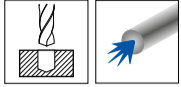
DC <sub>N7</sub> mm	11 016 ... PG T7		11 017 ... PG T7		11 020 ... PG T7		11 021 ... PG T7	
	£	£	£	£	£	£	£	£
2.0	<del>127.36</del>	127.00	<del>127.36</del>	127.00	<del>134.75</del>	134.00	<del>134.75</del>	134.00
2.2	<del>127.36</del>	127.00	<del>127.36</del>	127.00	<del>130.40</del>	130.00	<del>134.75</del>	134.00
2.3	<del>127.36</del>	127.00	<del>127.36</del>	127.00	<del>134.75</del>	134.00	<del>134.75</del>	134.00
2.4	<del>142.17</del>	142.00	<del>142.17</del>	142.00	<del>145.94</del>	145.00	<del>151.04</del>	151.00
2.5	<del>142.17</del>	142.00	<del>142.17</del>	142.00	<del>151.04</del>	151.00	<del>151.04</del>	151.00
2.7	<del>142.17</del>	142.00	<del>142.17</del>	142.00	<del>145.94</del>	145.00	<del>151.04</del>	151.00
2.8	<del>142.17</del>	142.00	<del>142.17</del>	142.00	<del>151.04</del>	151.00	<del>151.04</del>	151.00
3.0	<del>180.66</del>	180.00	<del>180.66</del>	180.00	<del>194.59</del>	194.00	<del>201.40</del>	201.00
3.2	<del>180.66</del>	180.00	<del>180.66</del>	180.00	<del>201.40</del>	201.00	<del>201.40</del>	201.00
3.3	<del>180.66</del>	180.00	<del>180.66</del>	180.00	<del>194.59</del>	194.00	<del>201.40</del>	201.00
3.5	<del>180.66</del>	180.00	<del>180.66</del>	180.00	<del>201.40</del>	201.00	<del>201.40</del>	201.00
3.8	<del>188.08</del>	188.00	<del>188.08</del>	188.00	<del>203.16</del>	203.00	<del>210.26</del>	210.00
4.0	<del>188.08</del>	188.00	<del>188.08</del>	188.00	<del>210.26</del>	210.00	<del>210.26</del>	210.00
4.2	<del>202.88</del>	202.00	<del>202.88</del>	202.00	<del>217.46</del>	217.00	<del>225.09</del>	225.00
4.5	<del>202.88</del>	202.00	<del>202.88</del>	202.00	<del>225.09</del>	225.00	<del>225.09</del>	225.00
4.8	<del>214.74</del>	214.00	<del>214.74</del>	214.00	<del>230.34</del>	230.00	<del>238.42</del>	238.00
5.0	<del>214.74</del>	214.00	<del>214.74</del>	214.00	<del>238.42</del>	238.00	<del>238.42</del>	238.00
5.5	<del>223.60</del>	223.00	<del>223.60</del>	223.00	<del>240.37</del>	240.00	<del>248.80</del>	248.00
5.8	<del>223.60</del>	223.00	<del>223.60</del>	223.00	<del>248.80</del>	248.00	<del>248.80</del>	248.00
6.0	<del>223.60</del>	223.00	<del>223.60</del>	223.00	<del>248.80</del>	248.00	<del>248.80</del>	248.00
6.5	<del>238.42</del>	238.00	<del>238.42</del>	238.00	<del>265.08</del>	265.00	<del>265.08</del>	265.00
6.8	<del>256.20</del>	256.00	<del>256.20</del>	256.00	<del>285.84</del>	285.00	<del>285.84</del>	285.00
7.0	<del>256.20</del>	256.00	<del>256.20</del>	256.00	<del>285.84</del>	285.00	<del>285.84</del>	285.00
7.5	<del>287.20</del>	287.00	<del>287.20</del>	287.00	<del>318.30</del>	318.00	<del>318.30</del>	318.00
7.8	<del>287.20</del>	287.00	<del>287.20</del>	287.00	<del>318.30</del>	318.00	<del>318.30</del>	318.00
8.0	<del>287.20</del>	287.00	<del>287.20</del>	287.00	<del>318.30</del>	318.00	<del>318.30</del>	318.00
8.5	<del>316.89</del>	316.00	<del>316.89</del>	316.00	<del>350.95</del>	350.00	<del>350.95</del>	350.00
8.8	<del>352.45</del>	352.00	<del>352.45</del>	352.00	<del>393.94</del>	393.00	<del>393.94</del>	393.00
9.0	<del>352.45</del>	352.00	<del>352.45</del>	352.00	<del>393.94</del>	393.00	<del>393.94</del>	393.00
9.8	<del>352.45</del>	352.00	<del>352.45</del>	352.00	<del>393.94</del>	393.00	<del>393.94</del>	393.00
10.0	<del>352.45</del>	352.00	<del>352.45</del>	352.00	<del>393.94</del>	393.00	<del>393.94</del>	393.00
10.2	<del>393.94</del>	393.00	<del>393.94</del>	393.00	<del>432.44</del>	432.00	<del>432.44</del>	432.00
10.8	<del>393.94</del>	393.00	<del>393.94</del>	393.00	<del>432.44</del>	432.00	<del>432.44</del>	432.00
11.8	<del>393.94</del>	393.00	<del>393.94</del>	393.00	<del>432.44</del>	432.00	<del>432.44</del>	432.00
12.0	<del>393.94</del>	393.00	<del>393.94</del>	393.00	<del>432.44</del>	432.00	<del>432.44</del>	432.00
P		●		●		●		●
M		●		●		●		●
K		●		●		●		●
N								
S		○		○		○		○
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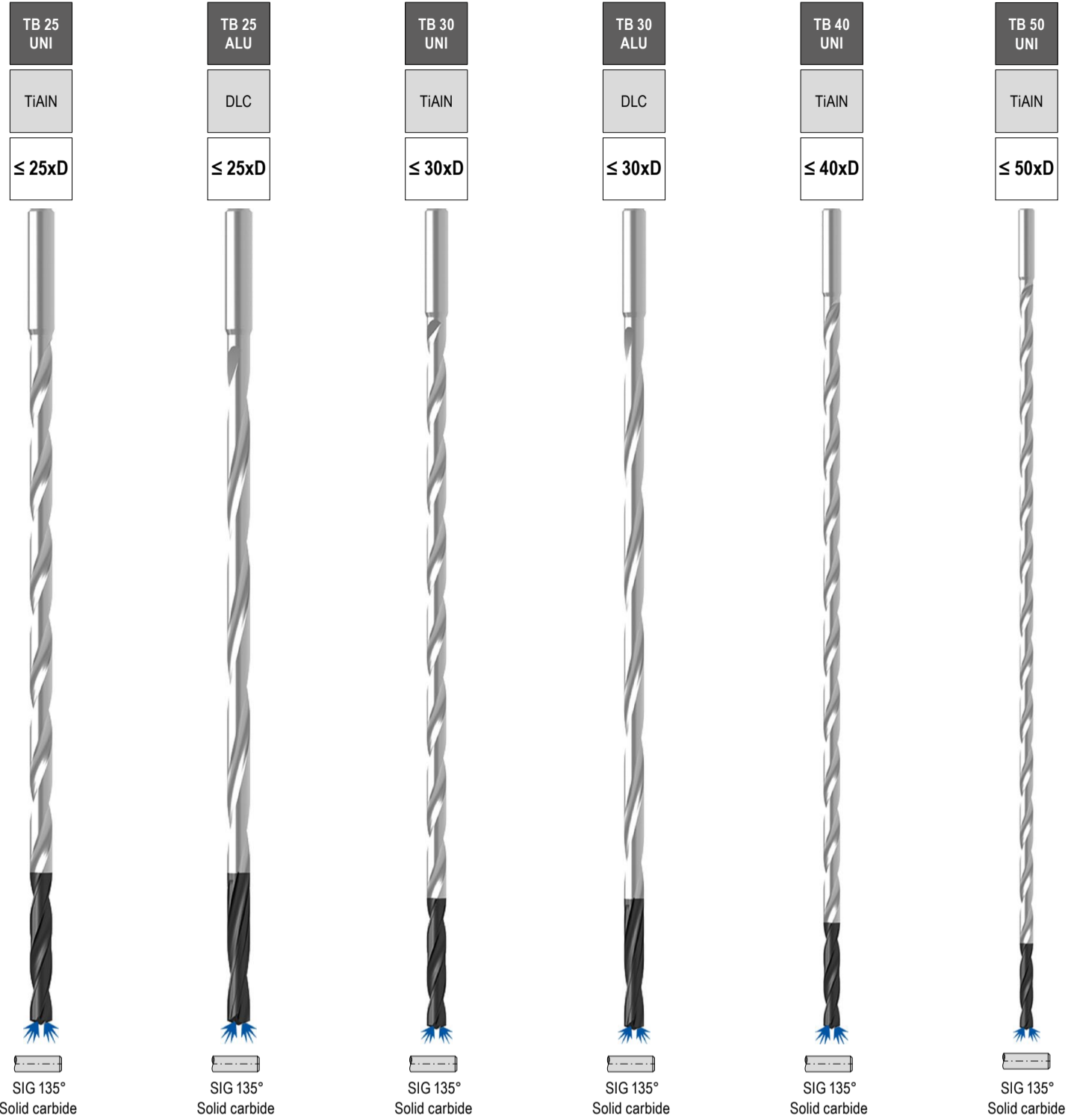


WTX – High performance deep hole drills

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



WNT \ Performance



DC mm	11 025 ... PG T7		11 026 ... PG T7		11 030 ... PG T7		11 031 ... PG T7		11 040 ... PG T7		11 050 ... PG T7			
	£	£	£	£	£	£	£	£	£	£	£	£		
2.0	<del>143.65</del>	143.00	<del>143.65</del>	143.00	<del>152.55</del>	152.00	<del>152.55</del>	152.00						
2.2	<del>143.65</del>	143.00	<del>143.65</del>	143.00	<del>152.55</del>	152.00	<del>152.55</del>	152.00						
2.3	<del>143.65</del>	143.00	<del>143.65</del>	143.00	<del>152.55</del>	152.00	<del>152.55</del>	152.00						
2.4	<del>162.89</del>	162.00	<del>162.89</del>	162.00	<del>177.74</del>	177.00	<del>177.74</del>	177.00						
2.5	<del>162.89</del>	162.00	<del>162.89</del>	162.00	<del>177.74</del>	177.00	<del>177.74</del>	177.00						
2.7	<del>162.89</del>	162.00	<del>162.89</del>	162.00	<del>177.74</del>	177.00	<del>177.74</del>	177.00						
2.8	<del>162.89</del>	162.00	<del>162.89</del>	162.00	<del>177.74</del>	177.00	<del>177.74</del>	177.00						
3.0	<del>233.06</del>	233.00	<del>233.06</del>	233.00	<del>299.14</del>	299.00	<del>299.14</del>	299.00	030	<del>380.56</del>	380.00	030	<del>516.83</del>	516.00
3.2	<del>233.06</del>	233.00	<del>233.06</del>	233.00	<del>299.14</del>	299.00	<del>299.14</del>	299.00						
3.3	<del>259.13</del>	259.00	<del>259.13</del>	259.00	<del>308.03</del>	308.00	<del>308.03</del>	308.00						
3.5	<del>259.13</del>	259.00	<del>259.13</del>	259.00	<del>308.03</del>	308.00	<del>308.03</del>	308.00						
3.8	<del>266.55</del>	266.00	<del>266.55</del>	266.00	<del>308.03</del>	308.00	<del>308.03</del>	308.00						
4.0	<del>266.55</del>	266.00	<del>266.55</del>	266.00	<del>308.03</del>	308.00	<del>308.03</del>	308.00	040	<del>380.56</del>	380.00	040	<del>516.83</del>	516.00
4.2	<del>266.55</del>	266.00	<del>266.55</del>	266.00	<del>308.03</del>	308.00	<del>308.03</del>	308.00	042	<del>420.57</del>	420.00	042	<del>574.55</del>	574.00
4.5	<del>278.40</del>	278.00	<del>278.40</del>	278.00	<del>316.89</del>	316.00	<del>316.89</del>	316.00	045	<del>420.57</del>	420.00	045	<del>574.55</del>	574.00
4.8	<del>278.40</del>	278.00	<del>278.40</del>	278.00	<del>316.89</del>	316.00	<del>316.89</del>	316.00	048	<del>448.70</del>	448.00	048	<del>648.61</del>	648.00
5.0	<del>278.40</del>	278.00	<del>278.40</del>	278.00	<del>316.89</del>	316.00	<del>316.89</del>	316.00	050	<del>448.70</del>	448.00	050	<del>648.61</del>	648.00
5.5	<del>299.14</del>	299.00	<del>299.14</del>	299.00	<del>331.74</del>	331.00	<del>331.74</del>	331.00	055	<del>482.76</del>	482.00	055	<del>730.96</del>	730.00
5.8	<del>299.14</del>	299.00	<del>299.14</del>	299.00	<del>331.74</del>	331.00	<del>331.74</del>	331.00	058	<del>482.76</del>	482.00	058	<del>740.43</del>	740.00
6.0	<del>299.14</del>	299.00	<del>299.14</del>	299.00	<del>331.74</del>	331.00	<del>331.74</del>	331.00	060	<del>482.76</del>	482.00	060	<del>740.43</del>	740.00
6.5	<del>333.21</del>	333.00	<del>333.21</del>	333.00	<del>364.28</del>	364.00	<del>364.28</del>	364.00	065	<del>519.78</del>	519.00	065	<del>823.26</del>	823.00
6.8	<del>333.21</del>	333.00	<del>333.21</del>	333.00	<del>380.56</del>	380.00	<del>380.56</del>	380.00	068	<del>519.78</del>	519.00	068	<del>892.96</del>	892.00
7.0	<del>333.21</del>	333.00	<del>333.21</del>	333.00	<del>380.56</del>	380.00	<del>380.56</del>	380.00	070	<del>519.78</del>	519.00			
7.5	<del>370.22</del>	370.00	<del>370.22</del>	370.00	<del>380.56</del>	380.00	<del>380.56</del>	380.00	075	<del>577.53</del>	577.00			
7.8	<del>370.22</del>	370.00	<del>370.22</del>	370.00	<del>423.52</del>	423.00	<del>423.52</del>	423.00	078	<del>577.53</del>	577.00			
8.0	<del>370.22</del>	370.00	<del>370.22</del>	370.00	<del>423.52</del>	423.00	<del>423.52</del>	423.00	080	<del>577.53</del>	577.00			
8.5	<del>417.57</del>	417.00	<del>417.57</del>	417.00	<del>488.69</del>	488.00	<del>488.69</del>	488.00	085	<del>636.76</del>	636.00			
8.8	<del>453.13</del>	453.00	<del>453.13</del>	453.00	<del>513.84</del>	513.00	<del>513.84</del>	513.00	088	<del>636.76</del>	636.00			
9.0	<del>453.13</del>	453.00	<del>453.13</del>	453.00	<del>513.84</del>	513.00	<del>513.84</del>	513.00	090	<del>636.76</del>	636.00			
9.8	<del>453.13</del>	453.00	<del>453.13</del>	453.00	<del>513.84</del>	513.00	<del>513.84</del>	513.00	098	<del>636.76</del>	636.00			
10.0	<del>453.13</del>	453.00	<del>453.13</del>	453.00	<del>513.84</del>	513.00	<del>513.84</del>	513.00	100	<del>636.76</del>	636.00			
10.2	<del>544.96</del>	544.00	<del>544.96</del>	544.00	<del>556.02</del>	556.00	<del>556.02</del>	556.00	102	<del>556.02</del>	556.00			
10.8	<del>544.96</del>	544.00	<del>544.96</del>	544.00	<del>556.02</del>	556.00	<del>556.02</del>	556.00	108	<del>556.02</del>	556.00			
11.8	<del>544.96</del>	544.00	<del>544.96</del>	544.00	<del>556.02</del>	556.00	<del>556.02</del>	556.00	118	<del>556.02</del>	556.00			
12.0	<del>544.96</del>	544.00	<del>544.96</del>	544.00	<del>556.02</del>	556.00	<del>556.02</del>	556.00	120	<del>556.02</del>	556.00			

P	●													
M	●													
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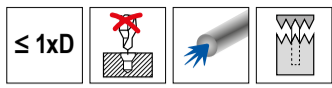


When you see this logo it's  
 in stock in Sheffield

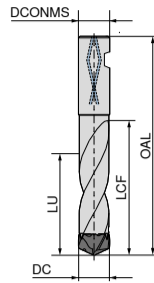


### WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



Change

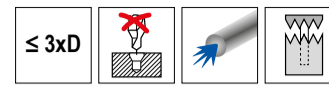


DC mm	DCONMS <sub>h6</sub> mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	81	29	12.5
12,50 - 12,99	14	81	29	13.0
13,00 - 13,49	14	81	31	13.5
13,50 - 13,99	16	86	32	14.0
14,00 - 14,49	16	86	33	14.5
14,50 - 14,99	16	91	34	15.0
15,00 - 15,49	16	91	36	15.5
15,50 - 16,49	20	97	38	16.5
15,50 - 16,49	18	92	38	16.5
16,50 - 17,49	20	99	40	17.5
16,50 - 17,49	18	94	40	17.5
17,50 - 18,49	20	104	43	18.5
17,50 - 18,49	18	99	43	18.5
18,50 - 19,49	20	99	45	19.5
19,50 - 20,49	20	104	47	20.5
20,50 - 21,49	25	111	49	21.5
21,50 - 22,49	25	116	52	22.5
22,50 - 23,49	25	116	54	23.5
23,50 - 24,49	25	121	56	24.5
24,50 - 25,49	25	123	59	25.5
25,50 - 26,49	25	123	61	26.5
26,50 - 27,49	25	128	63	27.5
27,50 - 28,49	25	128	66	28.5
28,50 - 29,49	32	134	68	29.5
29,50 - 30,49	32	139	70	30.5
30,50 - 31,49	32	139	75	31.5
31,50 - 32,49	32	139	75	32.5
32,50 - 33,49	32	150	78	33.5
33,50 - 34,49	32	150	79	34.5
34,50 - 35,49	32	150	82	35.5
35,50 - 37,49	32	152	86	37.5
37,50 - 39,49	32	157	91	39.5
39,50 - 41,00	32	167	95	41.5

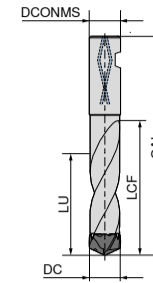
10 911 ...	PG W1
£	£
120	<del>298.56</del> 173.00
125	<del>298.56</del> 173.00
130	<del>298.56</del> 173.00
135	<del>298.56</del> 173.00
140	<del>298.56</del> 173.00
145	<del>298.56</del> 173.00
150	<del>298.56</del> 173.00
161	<del>388.47</del> 179.00
160	<del>388.47</del> 179.00
166	<del>388.47</del> 179.00
165	<del>388.47</del> 179.00
176	<del>388.47</del> 179.00
175	<del>388.47</del> 179.00
185	<del>364.56</del> 211.00
195	<del>364.56</del> 211.00
205	<del>404.44</del> 234.00
215	<del>404.44</del> 234.00
225	<del>442.41</del> 256.00
235	<del>442.41</del> 256.00
245	<del>480.02</del> 278.00
255	<del>480.02</del> 278.00
265	<del>480.02</del> 278.00
275	<del>480.02</del> 278.00
285	<del>557.55</del> 323.00
295	<del>557.55</del> 323.00
305	<del>645.29</del> 356.00
315	<del>645.29</del> 356.00
325	<del>663.43</del> 384.00
335	<del>663.43</del> 384.00
345	<del>663.43</del> 384.00
355	<del>763.75</del> 442.00
375	<del>791.91</del> 458.00
395	<del>844.66</del> 470.00

### WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



Change

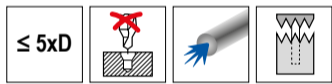


DC mm	DCONMS <sub>h6</sub> mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	100	53	38.0
12,50 - 12,99	14	105	55	39.0
13,00 - 13,49	14	105	57	40.0
13,50 - 13,99	16	110	59	42.0
14,00 - 14,49	16	115	61	43.0
14,50 - 14,99	16	115	63	45.0
15,00 - 15,49	16	115	65	46.0
15,50 - 16,49	20	125	70	50.0
15,50 - 16,49	18	120	70	50.0
16,50 - 17,49	20	130	74	50.0
16,50 - 17,49	18	125	74	53.0
17,50 - 18,49	20	135	78	50.0
17,50 - 18,49	18	130	78	55.0
18,50 - 19,49	20	135	82	58.0
19,50 - 20,49	20	140	87	62.0
20,50 - 21,49	25	150	91	65.0
21,50 - 22,49	25	155	95	67.0
22,50 - 23,49	25	160	99	70.0
23,50 - 24,49	25	165	103	73.0
24,50 - 25,49	25	165	108	77.0
25,50 - 26,49	25	175	112	80.0
26,50 - 27,49	25	175	116	82.0
27,50 - 28,49	25	180	120	85.0
28,50 - 29,49	32	190	124	88.0
29,50 - 30,49	32	195	129	92.0
30,50 - 31,49	32	195	133	94.0
31,50 - 32,49	32	200	137	97.0
32,50 - 33,49	32	210	144	100.5
33,50 - 34,49	32	215	148	103.5
34,50 - 35,49	32	220	153	106.5
35,50 - 37,49	32	227	161	112.5
37,50 - 39,49	32	237	170	118.5
39,50 - 41,00	32	247	178	124.5

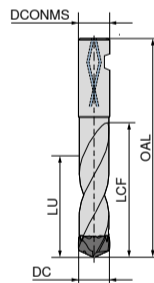
10 913 ...	PG W1
£	£
120	<del>337.58</del> 195.00
125	<del>337.58</del> 195.00
130	<del>337.58</del> 195.00
135	<del>337.58</del> 195.00
140	<del>337.58</del> 195.00
145	<del>337.58</del> 195.00
150	<del>337.58</del> 195.00
161	<del>329.29</del> 191.00
160	<del>329.29</del> 191.00
166	<del>329.29</del> 191.00
165	<del>329.29</del> 191.00
176	<del>329.29</del> 191.00
175	<del>329.29</del> 191.00
185	<del>389.42</del> 225.00
195	<del>389.42</del> 225.00
205	<del>430.04</del> 249.00
215	<del>430.04</del> 249.00
225	<del>470.77</del> 272.00
235	<del>470.77</del> 272.00
245	<del>544.32</del> 296.00
255	<del>544.32</del> 296.00
265	<del>544.32</del> 296.00
275	<del>544.32</del> 296.00
285	<del>592.70</del> 343.00
295	<del>592.70</del> 343.00
305	<del>654.68</del> 379.00
315	<del>654.68</del> 379.00
325	<del>772.00</del> 447.00
335	<del>772.00</del> 447.00
345	<del>772.00</del> 447.00
355	<del>887.47</del> 514.00
375	<del>929.48</del> 533.00
395	<del>943.57</del> 546.00

### WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



Change



DC mm	DCONMS <sub>h6</sub> mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	125	78	62.0
12,50 - 12,99	14	130	81	65.0
13,00 - 13,49	14	130	84	67.0
13,50 - 13,99	16	140	88	70.0
14,00 - 14,49	16	140	90	72.0
14,50 - 14,99	16	145	94	75.0
15,00 - 15,49	16	145	96	77.0
15,50 - 16,49	20	160	103	82.0
15,50 - 16,49	18	155	103	82.0
16,50 - 17,49	20	165	109	87.0
16,50 - 17,49	18	160	109	87.0
17,50 - 18,49	20	170	115	92.0
17,50 - 18,49	18	165	115	92.0
18,50 - 19,49	20	175	121	97.0
19,50 - 20,49	20	180	128	102.0
20,50 - 21,49	25	195	134	107.0
21,50 - 22,49	25	200	140	112.0
22,50 - 23,49	25	205	146	117.0
23,50 - 24,49	25	210	152	122.0
24,50 - 25,49	25	220	159	127.0
25,50 - 26,49	25	225	165	132.0
26,50 - 27,49	25	230	171	137.0
27,50 - 28,49	25	240	177	142.0
28,50 - 29,49	32	250	183	146.0
29,50 - 30,49	32	255	190	152.0
30,50 - 31,49	32	260	196	157.0
31,50 - 32,49	32	265	202	162.0
32,50 - 33,49	32	275	210	167.5
33,50 - 34,49	32	285	217	172.5
34,50 - 35,49	32	290	224	177.5
35,50 - 37,49	32	302	236	187.5
37,50 - 39,49	32	317	249	197.5
39,50 - 41,00	32	327	261	207.5

10 915 ...	PG W1
£	£
120	<del>380.02</del> 220.00
125	<del>380.02</del> 220.00
130	<del>380.02</del> 220.00
135	<del>380.02</del> 220.00
140	<del>380.02</del> 220.00
145	<del>380.02</del> 220.00
150	<del>380.02</del> 220.00
161	<del>389.42</del> 225.00
160	<del>389.42</del> 225.00
166	<del>389.42</del> 225.00
165	<del>389.42</del> 225.00
176	<del>389.42</del> 225.00
175	<del>389.42</del> 225.00
185	<del>451.39</del> 261.00
195	<del>451.39</del> 261.00
205	<del>490.44</del> 284.00
215	<del>490.44</del> 284.00
225	<del>532.74</del> 308.00
235	<del>532.74</del> 308.00
245	<del>573.34</del> 332.00
255	<del>573.34</del> 332.00
265	<del>573.34</del> 332.00
275	<del>573.34</del> 332.00
285	<del>654.68</del> 379.00
295	<del>654.68</del> 379.00
305	<del>744.79</del> 414.00
315	<del>744.79</del> 414.00
325	<del>872.62</del> 505.00
335	<del>872.62</del> 505.00
345	<del>872.62</del> 505.00
355	<del>981.48</del> 568.00
375	<del>1,047.91</del> 589.00
395	<del>1,049.86</del> 602.00

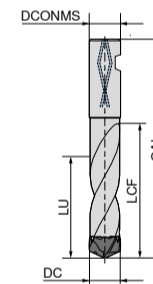
### WTX – Holder for Exchangeable drills

▲ Pilot hole is recommended

▲ With radial teeth



WNT \ Performance



Change



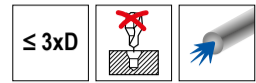
DC mm	DCONMS <sub>h6</sub> mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	165	116	100
12,50 - 12,99	14	170	121	104
13,00 - 13,49	14	175	126	108
13,50 - 13,99	16	180	129	111
14,00 - 14,49	16	185	134	115
14,50 - 14,99	16	190	139	120
15,00 - 15,49	16	195	144	124
15,50 - 16,49	20	210	152	131
15,50 - 16,49	18	205	152	131
16,50 - 17,49	20	220	161	138
16,50 - 17,49	18	215	161	138
17,50 - 18,49	20	225	171	147
17,50 - 18,49	18	220	171	147
18,50 - 19,49	20	235	180	155
19,50 - 20,49	20	240	189	163
20,50 - 21,49	25	260	198	170
21,50 - 22,49	25	270	207	178
22,50 - 23,49	25	275	217	



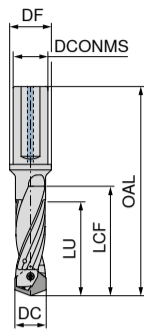


### WPC – Holder for indexable insert drill

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



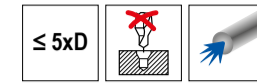
WNT \ Standard



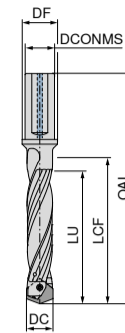
DC mm	DCONMS mm	OAL mm	LCF mm	LU mm	DF mm	torque moment Nm	11 903 ... PG TT	
							£	£
14,00 - 14,49	16	108.9	50.8	43.5	20	0.9	14000	<del>251.18</del> 126.00
14,50 - 14,99	16	111.0	52.5	45.0	20	0.9	14500	<del>251.18</del> 126.00
15,00 - 15,49	20	115.1	54.3	46.5	25	0.9	15000	<del>251.18</del> 126.00
15,50 - 15,99	20	117.2	56.0	48.0	25	0.9	15500	<del>251.18</del> 126.00
16,00 - 16,49	20	119.3	57.8	49.5	25	1.2	16000	<del>275.60</del> 138.00
16,50 - 16,99	20	121.4	59.5	51.0	25	1.2	16500	<del>275.60</del> 138.00
17,00 - 17,49	20	123.5	61.3	52.5	25	1.2	17000	<del>275.60</del> 138.00
17,50 - 17,99	20	125.6	63.0	54.0	25	1.2	17500	<del>275.60</del> 138.00
18,00 - 18,49	20	127.7	64.8	55.5	25	2.2	18000	<del>299.82</del> 147.00
18,50 - 18,99	20	129.8	66.5	57.0	25	2.2	18500	<del>299.82</del> 147.00
19,00 - 19,49	25	137.9	68.3	58.5	30	2.2	19000	<del>299.82</del> 147.00
19,50 - 19,99	25	140.0	70.0	60.0	30	2.2	19500	<del>299.82</del> 147.00
20,00 - 20,49	25	142.1	71.8	61.5	30	2.2	20000	<del>312.04</del> 156.00
20,50 - 20,99	25	144.2	73.5	63.0	30	2.2	20500	<del>312.04</del> 156.00
21,00 - 21,49	25	146.3	75.3	64.5	30	2.2	21000	<del>339.38</del> 170.00
21,50 - 21,99	25	148.4	77.0	66.0	30	2.2	21500	<del>344.29</del> 172.00
22,00 - 22,49	25	150.5	78.8	67.5	30	3.2	22000	<del>349.09</del> 175.00
22,50 - 22,99	25	152.6	80.5	69.0	30	3.2	22500	<del>353.87</del> 177.00
23,00 - 23,49	25	154.7	82.3	70.5	30	3.2	23000	<del>358.69</del> 179.00
23,50 - 23,99	25	156.8	84.0	72.0	30	3.2	23500	<del>363.69</del> 182.00
24,00 - 24,49	32	162.9	85.8	73.5	39	5	24000	<del>368.48</del> 184.00
24,50 - 24,99	32	165.0	87.5	75.0	39	5	24500	<del>373.37</del> 187.00
25,00 - 25,49	32	167.1	89.3	76.5	39	5	25000	<del>378.16</del> 189.00
25,50 - 25,99	32	169.2	91.0	78.0	39	5	25500	<del>383.08</del> 192.00
26,00 - 26,49	32	171.3	92.8	79.5	39	6	26000	<del>387.97</del> 194.00
26,50 - 26,99	32	173.4	94.5	81.0	39	6	26500	<del>392.77</del> 196.00
27,00 - 27,49	32	175.5	96.3	82.5	39	6	27000	<del>397.56</del> 199.00
27,50 - 27,99	32	177.6	98.0	84.0	39	6	27500	<del>402.35</del> 201.00
28,00 - 28,49	32	179.7	99.8	85.5	39	6	28000	<del>407.37</del> 204.00
28,50 - 28,99	32	181.8	101.5	87.0	39	6	28500	<del>412.17</del> 206.00
29,00 - 29,49	32	183.9	103.3	88.5	39	6	29000	<del>416.95</del> 208.00
29,50 - 30,00	32	186.0	105.0	90.0	39	6	29500	<del>421.86</del> 211.00

### WPC – Holder for indexable insert drill

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



WNT \ Standard



DC mm	DCONMS mm	OAL mm	LCF mm	LU mm	DF mm	torque moment Nm	11 905 ... PG TT	
							£	£
14,00 - 14,49	16	137.9	79.8	72.5	20	0.9	14000	<del>272.24</del> 136.00
14,50 - 14,99	16	141.0	82.5	75.0	20	0.9	14500	<del>272.24</del> 136.00
15,00 - 15,49	20	146.1	85.3	77.5	25	0.9	15000	<del>272.24</del> 136.00
15,50 - 15,99	20	149.2	88.0	80.0	25	0.9	15500	<del>272.24</del> 136.00
16,00 - 16,49	20	152.3	90.8	82.5	25	1.2	16000	<del>296.38</del> 148.00
16,50 - 16,99	20	155.4	93.5	85.0	25	1.2	16500	<del>296.38</del> 148.00
17,00 - 17,49	20	158.5	96.3	87.5	25	1.2	17000	<del>296.38</del> 148.00
17,50 - 17,99	20	161.6	99.0	90.0	25	1.2	17500	<del>296.38</del> 148.00
18,00 - 18,49	20	164.7	101.8	92.5	25	2.2	18000	<del>315.32</del> 158.00
18,50 - 18,99	20	167.8	104.5	95.0	25	2.2	18500	<del>315.32</del> 158.00
19,00 - 19,49	25	176.9	107.3	97.5	30	2.2	19000	<del>315.32</del> 158.00
19,50 - 19,99	25	180.0	110.0	100.0	30	2.2	19500	<del>315.32</del> 158.00
20,00 - 20,49	25	183.1	112.8	102.5	30	2.2	20000	<del>333.07</del> 167.00
21,00 - 21,49	25	189.3	118.3	107.5	30	2.2	21000	<del>361.46</del> 181.00
21,50 - 21,99	25	192.4	121.0	110.0	30	2.2	21500	<del>366.25</del> 183.00
22,00 - 22,49	25	195.5	123.8	112.5	30	3.2	22000	<del>371.04</del> 186.00
22,50 - 22,99	25	198.6	126.5	115.0	30	3.2	22500	<del>375.96</del> 188.00
23,00 - 23,49	25	201.7	129.3	117.5	30	3.2	23000	<del>380.85</del> 190.00
23,50 - 23,99	25	204.8	132.0	120.0	30	3.2	23500	<del>385.64</del> 193.00
24,00 - 24,49	32	211.9	134.8	122.5	39	5	24000	<del>390.56</del> 195.00
24,50 - 24,99	32	215.0	137.5	125.0	39	5	24500	<del>395.35</del> 198.00
25,00 - 25,49	32	218.1	140.3	127.5	39	5	25000	<del>400.24</del> 200.00
25,50 - 25,99	32	221.2	143.0	130.0	39	5	25500	<del>405.16</del> 203.00
26,00 - 26,49	32	224.3	145.8	132.5	39	6	26000	<del>409.95</del> 205.00
26,50 - 26,99	32	227.4	148.5	135.0	39	6	26500	<del>414.74</del> 207.00
27,00 - 27,49	32	230.5	151.3	137.5	39	6	27000	<del>419.64</del> 210.00
27,50 - 27,99	32	233.6	154.0	140.0	39	6	27500	<del>424.55</del> 212.00
28,00 - 28,49	32	236.7	156.8	142.5	39	6	28000	<del>429.34</del> 215.00
28,50 - 28,99	32	239.8	159.5	145.0	39	6	28500	<del>434.13</del> 217.00
29,00 - 29,49	32	242.9	162.3	147.5	39	6	29000	<del>438.95</del> 220.00
29,50 - 30,00	32	246.0	165.0	150.0	39	6	29500	<del>443.83</del> 222.00



**UK LOGISTICS**  
WHEN YOU SEE THIS LOGO  
IT'S IN STOCK IN SHEFFIELD

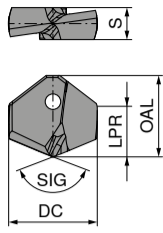




## WPC – Indexable insert for indexable insert drill

### Scope of supply:

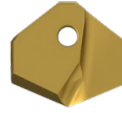
Indexable insert (clamping screws can be ordered separately, if necessary)



NEW

Change UNI

TPX74S



SIG 135°  
HM

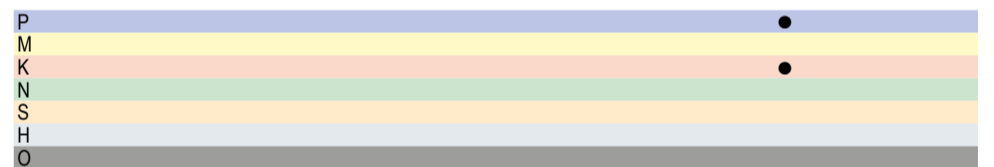
WNT \ Standard

DC <sub>m7</sub>	OAL	LPR	S
mm	mm	mm	mm
14.0	12.8	7.73	5.00
14.1	12.8	7.73	5.00
14.2	12.8	7.73	5.00
14.3	12.8	7.73	5.00
14.4	12.8	7.73	5.00
14.5	13.1	7.84	5.00
14.6	13.1	7.84	5.00
14.7	13.1	7.84	5.00
14.8	13.1	7.84	5.00
14.9	13.1	7.84	5.00
15.0	13.4	7.95	5.00
15.1	13.4	7.95	5.00
15.2	13.4	7.95	5.00
15.3	13.4	7.95	5.00
15.4	13.4	7.95	5.00
15.5	13.7	8.05	5.00
15.6	13.7	8.05	5.00
15.7	13.7	8.05	5.00
15.8	13.7	8.05	5.00
15.9	13.7	8.05	5.00
16.0	14.4	9.06	5.80
16.1	14.4	9.06	5.80
16.2	14.4	9.06	5.80
16.3	14.4	9.06	5.80
16.4	14.4	9.06	5.80
16.5	14.7	9.17	5.80
16.6	14.7	9.17	5.80
16.7	14.7	9.17	5.80
16.8	14.7	9.17	5.80
16.9	14.7	9.17	5.80
17.0	15.0	9.28	5.80
17.1	15.0	9.28	5.80
17.2	15.0	9.28	5.80
17.3	15.0	9.28	5.80
17.4	15.0	9.28	5.80
17.5	15.3	9.39	5.80
17.6	15.3	9.39	5.80
17.7	15.3	9.39	5.80
17.8	15.3	9.39	5.80
17.9	15.3	9.39	5.80
18.0	16.3	10.19	6.50
18.1	16.3	10.19	6.50
18.2	16.3	10.19	6.50
18.3	16.3	10.19	6.50
18.4	16.3	10.19	6.50
18.5	16.6	10.30	6.50
18.6	16.6	10.30	6.50
18.7	16.6	10.30	6.50
18.8	16.6	10.30	6.50
18.9	16.6	10.30	6.50
19.0	16.9	10.41	6.50
19.1	16.9	10.41	6.50
19.2	16.9	10.41	6.50
19.3	16.9	10.41	6.50
19.4	16.9	10.41	6.50
19.5	17.2	10.52	6.50
19.6	17.2	10.52	6.50
19.7	17.2	10.52	6.50
19.8	17.2	10.52	6.50

11 910 ...	PG TS	£	£
14000		85.26	77.00
14100		85.26	77.00
14200		85.26	77.00
14300		85.26	77.00
14400		85.26	77.00
14500		85.26	77.00
14600		85.26	77.00
14700		85.26	77.00
14800		86.58	78.00
14900		86.58	78.00
15000		86.58	78.00
15100		86.58	78.00
15200		86.58	78.00
15300		86.58	78.00
15400		86.58	78.00
15500		86.58	78.00
15600		86.58	78.00
15700		86.58	78.00
15800		84.34	83.00
15900		84.34	83.00
16000		84.34	83.00
16100		84.34	83.00
16200		84.34	83.00
16300		84.34	83.00
16400		84.34	83.00
16500		84.34	83.00
16600		84.34	83.00
16700		84.34	83.00
16800		84.33	85.00
16900		84.33	85.00
17000		84.33	85.00
17100		84.33	85.00
17200		84.33	85.00
17300		84.33	85.00
17400		84.33	85.00
17500		84.33	85.00
17600		84.33	85.00
17700		84.33	85.00
17800		86.23	87.00
17900		86.23	87.00
18000		86.23	87.00
18100		86.23	87.00
18200		86.23	87.00
18300		86.23	87.00
18400		86.23	87.00
18500		86.23	87.00
18600		86.23	87.00
18700		86.23	87.00
18800		86.23	87.00
18900		89.06	89.00
19000		89.06	89.00
19100		89.06	89.00
19200		89.06	89.00
19300		89.06	89.00
19400		89.06	89.00
19500		89.06	89.00
19600		89.06	89.00
19700		89.06	89.00
19800		102.33	92.00

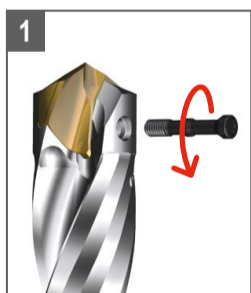
DC <sub>m7</sub>	OAL	LPR	S
mm	mm	mm	mm
19.9	17.2	10.52	6.50
20.0	18.2	11.33	7.20
20.1	18.2	11.33	7.20
20.2	18.2	11.33	7.20
20.3	18.2	11.33	7.20
20.4	18.2	11.33	7.20
20.5	18.5	11.43	7.20
20.6	18.5	11.43	7.20
20.7	18.5	11.43	7.20
20.8	18.5	11.43	7.20
20.9	18.5	11.43	7.20
21.0	18.8	11.54	7.20
21.1	18.8	11.54	7.20
21.2	18.8	11.54	7.20
21.3	18.8	11.54	7.20
21.4	18.8	11.54	7.20
21.5	19.1	11.65	7.20
21.6	19.1	11.65	7.20
21.7	19.1	11.65	7.20
21.8	19.1	11.65	7.20
21.9	19.1	11.65	7.20
22.0	20.2	12.56	7.90
22.1	20.2	12.56	7.90
22.2	20.2	12.56	7.90
22.3	20.2	12.56	7.90
22.4	20.2	12.56	7.90
22.5	20.5	12.67	7.90
22.6	20.5	12.67	7.90
22.7	20.5	12.67	7.90
22.8	20.5	12.67	7.90
22.9	20.5	12.67	7.90
23.0	20.8	12.78	7.90
23.1	20.8	12.78	7.90
23.2	20.8	12.78	7.90
23.3	20.8	12.78	7.90
23.4	20.8	12.78	7.90
23.5	21.1	12.88	7.90
23.6	21.1	12.88	7.90
23.7	21.1	12.88	7.90
23.8	21.1	12.88	7.90
23.9	21.1	12.88	7.90
24.0	22.1	13.69	8.60
24.1	22.1	13.69	8.60
24.2	22.1	13.69	8.60
24.3	22.1	13.69	8.60
24.4	22.1	13.69	8.60
24.5	22.4	13.80	8.60
24.6	22.4	13.80	8.60
24.7	22.4	13.80	8.60
24.8	22.4	13.80	8.60
24.9	22.4	13.80	8.60
25.0	22.7	13.91	8.60
25.1	22.7	13.91	8.60
25.2	22.7	13.91	8.60
25.3	22.7	13.91	8.60
25.4	22.7	13.91	8.60
25.5	23.0	14.02	8.60
25.6	23.0	14.02	8.60
25.7	23.0	14.02	8.60
25.8	23.0	14.02	8.60
25.9	23.0	14.02	8.60
26.0	24.1	14.92	9.40
27.0	24.7	15.14	9.40
27.5	25.0	15.25	9.40
28.0	25.3	15.36	9.40
28.5	25.6	15.47	9.40
29.0	25.9	15.57	9.40
29.5	26.2	15.68	9.40
30.0	26.2	15.49	9.40

11 910 ...	PG TS	£	£
19900		102.33	92.00
20000		102.33	92.00
20100		102.33	92.00
20200		102.33	92.00
20300		102.33	92.00
20400		102.33	92.00
20500		102.33	92.00
20600		102.33	92.00
20700		102.33	92.00
20800		105.20	95.00
20900		105.20	95.00
21000		105.20	95.00
21100		105.20	95.00
21200		105.20	95.00
21300		105.20	95.00
21400		105.20	95.00
21500		105.20	95.00
21600		105.20	95.00
21700		105.20	95.00
21800		107.66	97.00
21900		107.66	97.00
22000		107.66	97.00
22100		107.66	97.00
22200		107.66	97.00
22300		107.66	97.00
22400		107.66	97.00
22500		107.66	97.00
22600		107.66	97.00
22700		107.66	97.00
22800		111.73	101.00
22900		111.73	101.00
23000		111.73	101.00
23100		111.73	101.00
23200		111.73	101.00
23300		111.73	101.00
23400		111.73	101.00
23500		111.73	101.00
23600		111.73	101.00
23700		111.73	101.00
23800		117.76	106.00
23900		117.76	106.00
24000		117.76	106.00
24100		117.76	106.00
24200		117.76	106.00
24300		117.76	106.00
24400		117.76	106.00
24500		117.76	106.00
24600		117.76	106.00
24700		117.76	106.00
24800		124.52	112.00
24900		124.52	112.00
25000		124.52	112.00
25100		124.52	112.00
25200		124.52	112.00
25300		124.52	112.00
25400		124.52	112.00
25500		124.52	112.00
25600		124.52	112.00
25700		124.52	112.00
25800		130.97	118.00
25900		130.97	118.00
26000		130.97	118.00
27000		140.85	127.00
27500		140.85	127.00
28000		146.87	132.00
28500		146.87	132.00
29000		152.95	137.00
29500		152.95	137.00
30000		152.95	137.00

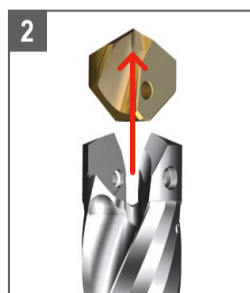


## Application notes for WPC – Change indexable insert drill

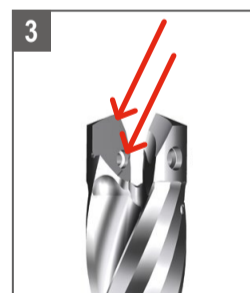
### Assembly of the indexable insert



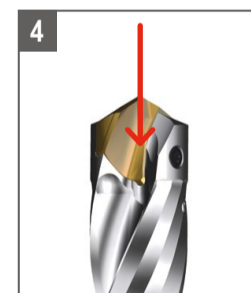
1 Loosen the clamping screw anti-clockwise using a TORX PLUS® screwdriver (screwdriver not included in the scope of supply).



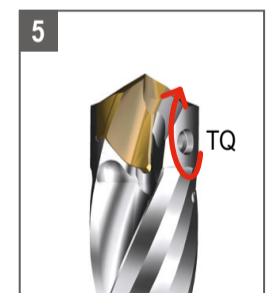
2 Remove the indexable insert from the insert seat.



3 Clean the insert seat and screw thread with compressed air.



4 Insert the new indexable insert in the insert seat.



5 Insert clamping screw from correct side and tighten clockwise with the specified torque. Observe the change interval of the clamping screw!

### Notes

- ▲ Only insert indexable inserts in the diameter range designated for the respective holder.
- ▲ The clamping screw must also be replaced upon every fifth replacement of the indexable insert.
- ▲ The tightening torque and item number of the clamping screw are labelled on the holder.
- ▲ Use only original spare parts.

### Clamping screws and tightening torques

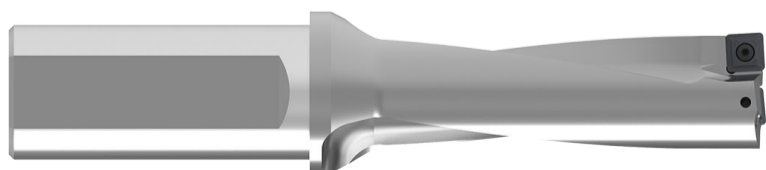
Diameter range	Article no. Clamping screw	Drive	Torque moment TQ
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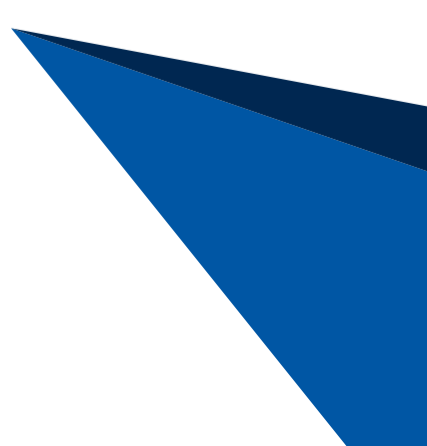
# INDEXABLE INSERT DRILLS



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



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

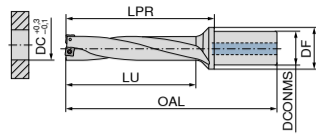




## MaxiDrill 900 – Indexable insert drill

**Scope of supply:**

Indexable Insert Drill including clamping screws and key



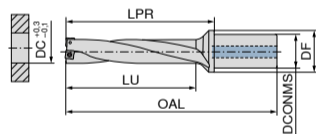
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ... PG 2B/41	
								£	£
MD900.2D.120.R.03-C20	12.0	28	20	90	24	40	SONT 031804	120	<del>281.45</del> 116.00
MD900.2D.125.R.03-C20	12.5	28	20	91	25	41	SONT 031804	125	<del>281.45</del> 116.00
MD900.2D.130.R.03-C20	13.0	28	20	92	26	42	SONT 031804	130	<del>281.45</del> 116.00
MD900.2D.135.R.03-C20	13.5	28	20	93	27	43	SONT 031804	135	<del>281.45</del> 116.00
MD900.2D.140.R.04-C20	14.0	30	20	96	28	46	SONT 042105	140	<del>299.58</del> 124.00
MD900.2D.145.R.04-C20	14.5	30	20	97	29	47	SONT 042105	145	<del>299.58</del> 124.00
MD900.2D.150.R.04-C20	15.0	30	20	98	30	48	SONT 042105	150	<del>299.58</del> 124.00
MD900.2D.155.R.04-C20	15.5	30	20	99	31	49	SONT 042105	155	<del>299.58</del> 124.00
MD900.2D.160.R.05-C20	16.0	30	20	100	32	50	SONT 052306	160	<del>299.58</del> 124.00
MD900.2D.165.R.05-C20	16.5	30	20	101	33	51	SONT 052306	165	<del>299.58</del> 124.00
MD900.2D.170.R.05-C20	17.0	30	20	102	34	52	SONT 052306	170	<del>318.84</del> 132.00
MD900.2D.175.R.05-C20	17.5	30	20	103	35	53	SONT 052306	175	<del>318.84</del> 132.00
MD900.2D.180.R.06-C25	18.0	32	25	111	36	55	SONT 062506	180	<del>318.84</del> 132.00
MD900.2D.185.R.06-C25	18.5	32	25	112	37	56	SONT 062506	185	<del>318.84</del> 132.00
MD900.2D.190.R.06-C25	19.0	32	25	113	38	57	SONT 062506	190	<del>342.64</del> 142.00
MD900.2D.195.R.06-C25	19.5	32	25	114	39	58	SONT 062506	195	<del>342.64</del> 142.00
MD900.2D.200.R.06-C25	20.0	32	25	115	40	59	SONT 062506	200	<del>342.64</del> 142.00
MD900.2D.205.R.06-C25	20.5	32	25	116	41	60	SONT 062506	205	<del>342.64</del> 142.00
MD900.2D.210.R.07-C25	21.0	32	25	118	42	62	SONT 072907	210	<del>342.64</del> 142.00
MD900.2D.220.R.07-C25	22.0	32	25	120	44	64	SONT 072907	220	<del>342.64</del> 142.00
MD900.2D.230.R.07-C25	23.0	32	25	122	46	66	SONT 072907	230	<del>353.36</del> 146.00
MD900.2D.240.R.08-C32	24.0	40	32	132	48	72	SONT 083308	240	<del>353.36</del> 146.00
MD900.2D.250.R.08-C32	25.0	40	32	134	50	74	SONT 083308	250	<del>353.36</del> 146.00
MD900.2D.260.R.08-C32	26.0	40	32	136	52	76	SONT 083308	260	<del>391.22</del> 162.00
MD900.2D.270.R.08-C32	27.0	40	32	138	54	78	SONT 083308	270	<del>391.22</del> 162.00
MD900.2D.280.R.09-C32	28.0	40	32	140	56	80	SONT 093808	280	<del>391.22</del> 162.00
MD900.2D.290.R.09-C32	29.0	40	32	142	58	82	SONT 093808	290	<del>391.22</del> 162.00
MD900.2D.300.R.09-C32	30.0	40	32	144	60	84	SONT 093808	300	<del>391.22</del> 162.00
MD900.2D.310.R.09-C32	31.0	40	32	146	62	86	SONT 093808	310	<del>424.36</del> 175.00
MD900.2D.320.R.09-C32	32.0	40	32	148	64	88	SONT 093808	320	<del>424.36</del> 175.00
MD900.2D.330.R.10-C40	33.0	50	40	163	66	93	SONT 104408	330	<del>424.36</del> 175.00
MD900.2D.340.R.10-C40	34.0	50	40	165	68	95	SONT 104408	340	<del>424.36</del> 175.00

Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ... PG 2B/41	
								£	£
MD900.2D.350.R.10-C40	35.0	50	40	167	70	97	SONT 104408	350	<del>433.95</del> 179.00
MD900.2D.360.R.10-C40	36.0	50	40	169	72	99	SONT 104408	360	<del>433.95</del> 179.00
MD900.2D.370.R.12-C40	37.0	56	40	174	74	104	SONT 124810	370	<del>448.93</del> 185.00
MD900.2D.380.R.12-C40	38.0	56	40	176	76	106	SONT 124810	380	<del>448.93</del> 185.00
MD900.2D.390.R.12-C40	39.0	56	40	178	78	108	SONT 124810	390	<del>448.93</del> 185.00
MD900.2D.400.R.12-C40	40.0	56	40	180	80	110	SONT 124810	400	<del>448.93</del> 185.00
MD900.2D.410.R.12-C40	41.0	56	40	182	82	112	SONT 124810	410	<del>448.93</del> 185.00
MD900.2D.420.R.13-C40	42.0	60	40	187	84	117	SONT 135012	420	<del>470.66</del> 195.00
MD900.2D.430.R.13-C40	43.0	60	40	189	86	119	SONT 135012	430	<del>470.66</del> 195.00
MD900.2D.440.R.13-C40	44.0	60	40	191	88	121	SONT 135012	440	<del>470.66</del> 195.00
MD900.2D.450.R.13-C40	45.0	60	40	193	90	123	SONT 135012	450	<del>470.66</del> 195.00
MD900.2D.460.R.13-C40	46.0	60	40	195	92	125	SONT 135012	460	<del>470.66</del> 195.00
MD900.2D.470.R.15-C40	47.0	60	40	198	94	128	SONT 155312	470	<del>494.43</del> 204.00
MD900.2D.480.R.15-C40	48.0	60	40	200	96	130	SONT 155312	480	<del>494.43</del> 204.00
MD900.2D.490.R.15-C40	49.0	60	40	202	98	132	SONT 155312	490	<del>533.44</del> 221.00
MD900.2D.500.R.15-C40	50.0	60	40	204	100	134	SONT 155312	500	<del>533.44</del> 221.00
MD900.2D.510.R.15-C40	52.0	60	40	208	104	138	SONT 155312	520	<del>547.77</del> 226.00
MD900.2D.520.R.15-C40	51.0	60	40	206	102	136	SONT 155312	510	<del>547.77</del> 226.00
MD900.2D.530.R.15-C40	53.0	60	40	210	106	140	SONT 155312	530	<del>547.77</del> 226.00
MD900.2D.540.R.15-C40	54.0	60	40	212	108	142	SONT 155312	540	<del>547.77</del> 226.00
MD900.2D.550.R.17-C40	55.0	60	40	215	110	145	SONT 175612	550	<del>547.77</del> 226.00
MD900.2D.560.R.17-C40	56.0	60	40	217	112	147	SONT 175612	560	<del>567.86</del> 235.00
MD900.2D.570.R.17-C40	57.0	60	40	219	114	149	SONT 175612	570	<del>567.86</del> 235.00
MD900.2D.580.R.17-C40	58.0	60	40	221	116	151	SONT 175612	580	<del>567.86</del> 235.00
MD900.2D.590.R.17-C40	59.0	60	40	223	118	153	SONT 175612	590	<del>567.86</del> 235.00
MD900.2D.600.R.17-C40	60.0	62	40	225	120	155	SONT 175612	600	<del>567.86</del> 235.00
MD900.2D.610.R.17-C40	61.0	62	40	227	122	157	SONT 175612	610	<del>567.86</del> 235.00
MD900.2D.620.R.17-C40	62.0	64	40	229	124	159	SONT 175612	620	<del>567.86</del> 235.00
MD900.2D.630.R.17-C40	63.0	64	40	231	126	161	SONT 175612	630	<del>567.86</del> 235.00

## MaxiDrill 900 – Indexable insert drill

**Scope of supply:**

Indexable Insert Drill including clamping screws and key



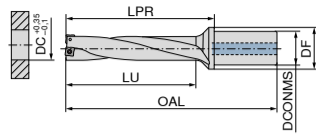
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 853 ... PG 2B/41	
								£	£
MD900.3D.120.R.03-C20	12.0	28	20	102	36.0	52	SONT 031804	120	<del>299.79</del> 124.00
MD900.3D.125.R.03-C20	12.5	28	20	104	37.5	54	SONT 031804	125	<del>299.79</del> 124.00
MD900.3D.130.R.03-C20	13.0	28	20	105	39.0	55	SONT 031804	130	<del>299.79</del> 124.00
MD900.3D.135.R.03-C20	13.5	28	20	107	40.5	57	SONT 031804	135	<del>299.79</del> 124.00
MD900.3D.140.R.04-C20	14.0	30	20	109	42.0	59	SONT 042105	140	<del>315.73</del> 131.00
MD900.3D.145.R.04-C20	14.5	30	20	111	44.0	61	SONT 042105	145	<del>315.73</del> 131.00
MD900.3D.150.R.04-C20	15.0	30	20	112	45.0	62	SONT 042105	150	<del>315.73</del> 131.00
MD900.3D.155.R.04-C20	15.5	30	20	114	47.0	64	SONT 042105	155	<del>323.24</del> 134.00
MD900.3D.160.R.05-C20	16.0	30	20	115	48.0	65	SONT 052306	160	<del>323.24</del> 134.00
MD900.3D.165.R.05-C20	16.5	30	20	117	50.0	67	SONT 052306	165	<del>323.24</del> 134.00
MD900.3D.170.R.05-C20	17.0	30	20	118	51.0	68	SONT 052306	170	<del>335.70</del> 139.00
MD900.3D.175.R.05-C20	17.5	30	20	120	53.0	70	SONT 052306	175	<del>335.70</del> 139.00
MD900.3D.180.R.06-C25	18.0	32	25	128	54.0	72	SONT 062506	180	<del>335.70</del> 139.00
MD900.3D.185.R.06-C25	18.5	32	25	130	56.0	74	SONT 062506	185	<del>335.70</del> 139.00
MD900.3D.190.R.06-C25	19.0	32	25	131	57.0	75	SONT 062506	190	<del>360.64</del> 149.00
MD900.3D.195.R.06-C25	19.5	32	25	133	59.0	77	SONT 062506	195	<del>360.64</del> 149.00
MD900.3D.200.R.06-C25	20.0	32	25	134	60.0	78	SONT 062506	200	<del>360.64</del> 149.00
MD900.3D.205.R.06-C25	20.5	32	25	136	62.0	80	SONT 062506	205	<del>360.64</del> 149.00
MD900.3D.210.R.07-C25	21.0	32	25	138	63.0	82	SONT 072907	210	<del>360.64</del> 149.00
MD900.3D.215.R.07-C25	21.5	32	25	140	65.0	84	SONT 072907	215	<del>360.64</del> 149.00
MD900.3D.220.R.07-C25	22.0	32	25	141	66.0	85	SONT 072907	220	<del>360.64</del> 149.00
MD900.3D.225.R.07-C25	22.5	32	25	143	68.0	87	SONT 072907	225	<del>371.84</del> 154.00
MD900.3D.230.R.07-C25	23.0	32	25	144	69.0	88	SONT 072907	230	<del>371.84</del> 154.00
MD900.3D.235.R.07-C25	23.5	32	25	146	71.0	90	SONT 072907	235	<del>371.84</del> 154.00
MD900.3D.240.R.08-C32	24.0	40	32	155	72.0	95	SONT 083308	240	<del>371.84</del> 154.00
MD900.3D.245.R.08-C32	24.5	40	32	157	74.0	97	SONT 083308	245	<del>371.84</del> 154.00
MD900.3D.250.R.08-C32	25.0	40	32	158	75.0	98	SONT 083308	250	<del>371.84</del> 154.00
MD900.3D.255.R.08-C32	25.5	40	32	160	77.0	100	SONT 083308	255	<del>371.84</del> 154.00
MD900.3D.260.R.08-C32	26.0	40	32	161	78.0	101	SONT 083308	260	<del>411.77</del> 170.00
MD900.3D.265.R.08-C32	26.5	40	32	163	80.0	103	SONT 083308	265	<del>411.77</del> 170.00
MD900.3D.270.R.08-C32	27.0	40	32	164	81.0	104	SONT 083308	270	<del>411.77</del> 170.00
MD900.3D.275.R.08-C32	27.5	40	32	166	83.0	106	SONT 083308	275	



## MaxiDrill 900 – Indexable insert drill

**Scope of supply:**

Indexable Insert Drill including clamping screws and key

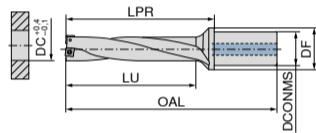


Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 854 ... PG 2B/41	
								£	£
MD900.4D.120.R.03-C20	12	28	20	114	48	64	SONT 031804	120	<del>119.52</del> 171.00
MD900.4D.130.R.03-C20	13	28	20	118	52	68	SONT 031804	130	<del>119.52</del> 171.00
MD900.4D.140.R.04-C20	14	30	20	123	56	73	SONT 042105	140	<del>125.51</del> 176.00
MD900.4D.150.R.04-C20	15	30	20	127	60	77	SONT 042105	150	<del>125.51</del> 176.00
MD900.4D.160.R.05-C20	16	30	20	131	64	81	SONT 052306	160	<del>135.41</del> 180.00
MD900.4D.170.R.05-C20	17	30	20	135	68	85	SONT 052306	170	<del>135.41</del> 180.00
MD900.4D.180.R.06-C25	18	32	25	146	72	90	SONT 062506	180	<del>151.94</del> 187.00
MD900.4D.190.R.06-C25	19	32	25	150	76	94	SONT 062506	190	<del>151.94</del> 187.00
MD900.4D.200.R.06-C25	20	32	25	154	80	98	SONT 062506	200	<del>151.94</del> 201.00
MD900.4D.210.R.07-C25	21	32	25	159	84	103	SONT 072907	210	<del>151.94</del> 201.00
MD900.4D.220.R.07-C25	22	32	25	163	88	107	SONT 072907	220	<del>151.94</del> 201.00
MD900.4D.230.R.07-C25	23	32	25	167	92	111	SONT 072907	230	<del>151.94</del> 207.00
MD900.4D.240.R.08-C32	24	40	32	179	96	119	SONT 083308	240	<del>151.94</del> 207.00
MD900.4D.250.R.08-C32	25	40	32	183	100	123	SONT 083308	250	<del>151.94</del> 207.00
MD900.4D.260.R.08-C32	26	40	32	187	104	127	SONT 083308	260	<del>151.94</del> 229.00
MD900.4D.270.R.08-C32	27	40	32	191	108	131	SONT 083308	270	<del>151.94</del> 229.00
MD900.4D.280.R.09-C32	28	40	32	195	112	135	SONT 093808	280	<del>151.94</del> 229.00
MD900.4D.290.R.09-C32	29	40	32	199	116	139	SONT 093808	290	<del>151.94</del> 229.00
MD900.4D.300.R.09-C32	30	40	32	203	120	143	SONT 093808	300	<del>151.94</del> 229.00
MD900.4D.310.R.09-C32	31	40	32	207	124	147	SONT 093808	310	<del>151.94</del> 249.00
MD900.4D.320.R.09-C32	32	40	32	211	128	151	SONT 093808	320	<del>151.94</del> 249.00
MD900.4D.330.R.10-C40	33	50	40	228	132	158	SONT 104408	330	<del>151.94</del> 249.00

## MaxiDrill 900 – Indexable insert drill

**Scope of supply:**

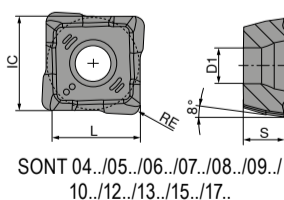
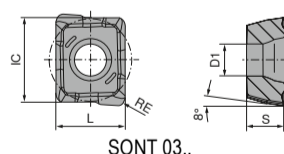
Indexable Insert Drill including clamping screws and key



Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 855 ... PG 2B/41	
								£	£
MD900.5D.120.R.03-C20	12	28	20	126	60	76	SONT 031804	120	<del>184.32</del> 204.00
MD900.5D.130.R.03-C20	13	28	20	131	65	81	SONT 031804	130	<del>184.32</del> 204.00
MD900.5D.140.R.04-C20	14	30	20	137	70	87	SONT 042105	140	<del>184.32</del> 209.00
MD900.5D.150.R.04-C20	15	30	20	142	75	92	SONT 042105	150	<del>184.32</del> 209.00
MD900.5D.160.R.05-C20	16	30	20	147	80	97	SONT 052306	160	<del>184.32</del> 214.00
MD900.5D.170.R.05-C20	17	30	20	152	85	102	SONT 052306	170	<del>184.32</del> 222.00
MD900.5D.180.R.06-C25	18	32	25	164	90	108	SONT 062506	180	<del>184.32</del> 222.00
MD900.5D.190.R.06-C25	19	32	25	169	95	113	SONT 062506	190	<del>184.32</del> 238.00
MD900.5D.200.R.06-C25	20	32	25	174	100	118	SONT 062506	200	<del>184.32</del> 238.00
MD900.5D.210.R.07-C25	21	32	25	180	105	124	SONT 072907	210	<del>184.32</del> 238.00
MD900.5D.220.R.07-C25	22	32	25	184	110	128	SONT 072907	220	<del>184.32</del> 238.00
MD900.5D.230.R.07-C25	23	32	25	189	115	133	SONT 072907	230	<del>184.32</del> 247.00
MD900.5D.240.R.08-C32	24	40	32	203	120	143	SONT 083308	240	<del>184.32</del> 247.00
MD900.5D.250.R.08-C32	25	40	32	208	125	148	SONT 083308	250	<del>184.32</del> 247.00
MD900.5D.260.R.08-C32	26	40	32	212	130	152	SONT 083308	260	<del>184.32</del> 272.00
MD900.5D.270.R.08-C32	27	40	32	217	135	157	SONT 083308	270	<del>184.32</del> 272.00

## SONT

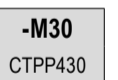
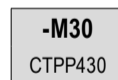
Designation	IC mm	D1 mm	L mm	S mm
SONT 0318..	5.4	2.10	3.8	1.80
SONT 0421..	4.6	2.25	4.2	2.10
SONT 0523..	5.3	2.25	4.8	2.30
SONT 0625..	5.9	2.50	5.5	2.50
SONT 0729..	6.5	2.50	6.1	2.90
SONT 0833..	7.7	2.90	7.3	3.30
SONT 0938..	8.9	3.50	8.5	3.80
SONT 1044..	10.1	4.10	9.6	4.40
SONT 1248..	11.6	4.10	11.0	4.80
SONT 1350..	13.0	5.30	12.2	5.00
SONT 1553..	15.2	5.30	14.4	5.30
SONT 1756..	17.5	5.30	16.7	5.60



Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 855 ... PG 2B/41	
								£	£
MD900.5D.280.R.09-C32	28	40	32	221	140	161	SONT 093808	280	<del>184.32</del> 272.00
MD900.5D.290.R.09-C32	29	40	32	226	145	166	SONT 093808	290	<del>184.32</del> 272.00
MD900.5D.300.R.09-C32	30	40	32	230	150	170	SONT 093808	300	<del>184.32</del> 272.00
MD900.5D.310.R.09-C32	31	40	32	235	155	175	SONT 093808	310	<del>184.32</del> 295.00
MD900.5D.320.R.09-C32	32	40	32	239	160	179	SONT 093808	320	<del>184.32</del> 295.00
MD900.5D.330.R.10-C40	33	50	40	259	165	191	SONT 104408	330	<del>184.32</del> 295.00
MD900.5D.340.R.10-C40	34	50	40	264	170	196	SONT 104408	340	<del>184.32</del> 295.00
MD900.5D.350.R.10-C40	35	50	40	269	175	201	SONT 104408	350	<del>184.32</del> 302.00
MD900.5D.360.R.10-C40	36	50	40	274	180	206	SONT 104408	360	<del>184.32</del> 302.00
MD900.5D.370.R.12-C40	37	56	40	285	185	215	SONT 124810	370	<del>184.32</del> 312.00
MD900.5D.380.R.12-C40	38	56	40	290	190	220	SONT 124810	380	<del>184.32</del> 312.00
MD900.5D.390.R.12-C40	39	56	40	295	195	225	SONT 124810	390	<del>184.32</del> 312.00
MD900.5D.400.R.12-C40	40	56	40	300	200	230	SONT 124810	400	<del>184.32</del> 312.00
MD900.5D.410.R.12-C40	41	56	40	305	205	235	SONT 124810	410	<del>184.32</del> 312.00

## SONT

KOMET \ Standard



ISO	RE mm	10 830 ... PG 1A/08		10 830 ... PG 1A/08	
		£	£	£	£
031804	0.4				
042105	0.5				
052306	0.6				
062506	0.6				
072907	0.7				
083308	0.8				
093808	0.8				
104408	0.8				
124810	1.0				
135012	1.2				
155312	1.2				
175612	1.2				
103	1)	<del>13.98</del>	10.49		
104		<del>16.82</del>	12.02		
105		<del>16.24</del>	12.18		
106		<del>16.50</del>	12.38		
107		<del>16.88</del>	12.66		
108		<del>17.24</del>	12.93		
109		<del>17.67</del>	13.25		
110		<del>18.51</del>	13.88		
112		<del>19.60</del>	14.70		
113		<del>20.76</del>	15.57		
115		<del>23.54</del>	17.66		
117		<del>24.95</del>	18.71		

P	●	●
M	●	●
K	○	○
N	○	○
S	○	○
H		
O		

1) two usable cutting edges



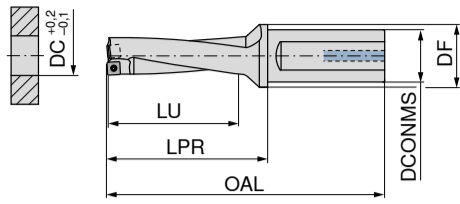


## KUB Pentron – Indexable insert drill

 2xD and 5xD also available.

**Scope of supply:**

Indexable Insert Drill incl. clamping screws



≤ 3xD  **C** KOMET \ Performance

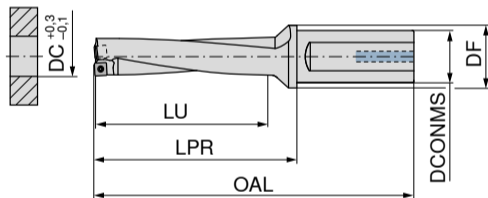
Designation	DC mm	DCONMS mm	DF mm	OAL mm	LU mm	LPR mm	torque moment Nm	Insert	10 873 ... PG 2B/6#	
									£	£
KUB-P.3D.140.R.04-C20	14.0	20	30	105	42	55	0,38	SOGX 040204	14001	<del>366.30</del> 147.00
KUB-P.3D.145.R.04-C20	14.5	20	30	109	45	59	0,38	SOGX 040204	14501	<del>366.30</del> 147.00
KUB-P.3D.150.R.04-C20	15.0	20	30	109	45	59	0,38	SOGX 040204	15001	<del>366.30</del> 147.00
KUB-P.3D.155.R.04-C20	15.5	20	30	114	48	64	0,38	SOGX 040204	15501	<del>366.30</del> 147.00
KUB-P.3D.160.R.04-C20	16.0	20	30	114	48	64	0,38	SOGX 040204	16001	<del>366.30</del> 147.00
KUB-P.3D.165.R.05-C20	16.5	20	30	118	51	68	0,62	SOGX 050204	16501	<del>366.30</del> 147.00
KUB-P.3D.170.R.05-C20	17.0	20	30	118	51	68	0,62	SOGX 050204	17001	<del>375.45</del> 150.00
KUB-P.3D.175.R.05-C25	17.5	25	30	127	54	71	0,62	SOGX 050204	17501	<del>375.45</del> 150.00
KUB-P.3D.180.R.05-C25	18.0	25	30	127	54	71	0,62	SOGX 050204	18001	<del>375.45</del> 150.00
KUB-P.3D.185.R.06-C25	18.5	25	30	131	57	75	1,01	SOGX 060206	18501	<del>375.45</del> 150.00
KUB-P.3D.190.R.06-C25	19.0	25	30	131	57	75	1,01	SOGX 060206	19001	<del>386.94</del> 155.00
KUB-P.3D.195.R.06-C25	19.5	25	30	134	60	78	1,01	SOGX 060206	19501	<del>386.94</del> 155.00
KUB-P.3D.200.R.06-C25	20.0	25	30	134	60	78	1,01	SOGX 060206	20001	<del>386.94</del> 155.00
KUB-P.3D.205.R.07-C25	20.5	25	30	138	63	82	1,01	SOGX 07T208	20501	<del>412.94</del> 165.00
KUB-P.3D.210.R.07-C25	21.0	25	30	138	63	82	1,01	SOGX 07T208	21001	<del>412.94</del> 165.00
KUB-P.3D.215.R.07-C25	21.5	25	30	141	66	85	1,01	SOGX 07T208	21501	<del>412.94</del> 165.00
KUB-P.3D.220.R.07-C25	22.0	25	30	141	66	85	1,01	SOGX 07T208	22002	<del>412.94</del> 165.00
KUB-P.3D.225.R.07-C25	22.5	25	30	145	69	89	1,01	SOGX 07T208	22502	<del>412.94</del> 165.00
KUB-P.3D.230.R.07-C25	23.0	25	30	145	69	89	1,01	SOGX 07T208	23002	<del>412.94</del> 165.00
KUB-P.3D.235.R.08-C32	23.5	32	39	152	72	92	1,28	SOGX 080308	23503	<del>446.66</del> 179.00
KUB-P.3D.240.R.08-C32	24.0	32	39	152	72	92	1,28	SOGX 080308	24003	<del>446.66</del> 179.00
KUB-P.3D.245.R.08-C32	24.5	32	39	156	75	96	1,28	SOGX 080308	24503	<del>446.66</del> 179.00
KUB-P.3D.250.R.08-C32	25.0	32	39	156	75	96	1,28	SOGX 080308	25003	<del>446.66</del> 179.00
KUB-P.3D.255.R.08-C32	25.5	32	39	159	78	99	1,28	SOGX 080308	25503	<del>446.66</del> 179.00
KUB-P.3D.260.R.08-C32	26.0	32	39	159	78	99	1,28	SOGX 080308	26003	<del>446.66</del> 179.00
KUB-P.3D.265.R.09-C32	26.5	32	39	163	81	103	2,25	SOGX 09T308	26503	<del>469.62</del> 188.00
KUB-P.3D.270.R.09-C32	27.0	32	39	163	81	103	2,25	SOGX 09T308	27003	<del>469.62</del> 188.00
KUB-P.3D.275.R.09-C32	27.5	32	39	166	84	106	2,25	SOGX 09T308	27503	<del>469.62</del> 188.00
KUB-P.3D.280.R.09-C32	28.0	32	39	166	84	106	2,25	SOGX 09T308	28003	<del>469.62</del> 188.00
KUB-P.3D.285.R.09-C32	28.5	32	39	170	87	110	2,25	SOGX 09T308	28503	<del>469.62</del> 188.00
KUB-P.3D.290.R.09-C32	29.0	32	39	170	87	110	2,25	SOGX 09T308	29003	<del>469.62</del> 188.00
KUB-P.3D.295.R.09-C32	29.5	32	39	173	90	113	2,25	SOGX 09T308	29503	<del>469.62</del> 188.00
KUB-P.3D.300.R.09-C32	30.0	32	39	173	90	113	2,25	SOGX 09T308	30003	<del>469.62</del> 188.00
KUB-P.3D.305.R.10-C40	30.5	40	50	185	93	117	2,8	SOGX 100408	30504	<del>542.92</del> 205.00

Designation	DC mm	DCONMS mm	DF mm	OAL mm	LU mm	LPR mm	torque moment Nm	Insert	10 873 ... PG 2B/6#	
									£	£
KUB-P.3D.310.R.10-C40	31.0	40	50	185	93	117	2,8	SOGX 100408	31004	<del>542.92</del> 205.00
KUB-P.3D.315.R.10-C40	31.5	40	50	188	96	120	2,8	SOGX 100408	31504	<del>542.92</del> 205.00
KUB-P.3D.320.R.10-C40	32.0	40	50	188	96	120	2,8	SOGX 100408	32004	<del>542.92</del> 205.00
KUB-P.3D.325.R.10-C40	32.5	40	50	192	99	124	2,8	SOGX 100408	32504	<del>542.92</del> 205.00
KUB-P.3D.330.R.10-C40	33.0	40	50	192	99	124	2,8	SOGX 100408	33004	<del>542.92</del> 205.00
KUB-P.3D.335.R.11-C40	33.5	40	50	195	102	127	2,8	SOGX 110408	33504	<del>536.49</del> 214.00
KUB-P.3D.340.R.11-C40	34.0	40	50	195	102	127	2,8	SOGX 110408	34004	<del>536.49</del> 214.00
KUB-P.3D.345.R.11-C40	34.5	40	50	199	105	131	2,8	SOGX 110408	34504	<del>536.49</del> 214.00
KUB-P.3D.350.R.11-C40	35.0	40	50	199	105	131	2,8	SOGX 110408	35004	<del>536.49</del> 214.00
KUB-P.3D.355.R.11-C40	35.5	40	50	202	108	134	2,8	SOGX 110408	35504	<del>536.49</del> 214.00
KUB-P.3D.360.R.11-C40	36.0	40	50	202	108	134	2,8	SOGX 110408	36004	<del>536.49</del> 214.00
KUB-P.3D.365.R.11-C40	36.5	40	50	206	111	138	2,8	SOGX 110408	36504	<del>536.49</del> 214.00
KUB-P.3D.370.R.11-C40	37.0	40	50	206	111	138	2,8	SOGX 110408	37004	<del>536.49</del> 214.00
KUB-P.3D.375.R.12-C40	37.5	40	50	209	114	141	6,25	SOGX 120408	37504	<del>552.24</del> 221.00
KUB-P.3D.380.R.12-C40	38.0	40	50	209	114	141	6,25	SOGX 120408	38004	<del>552.24</del> 221.00
KUB-P.3D.385.R.12-C40	38.5	40	50	213	117	145	6,25	SOGX 120408	38504	<del>552.24</del> 221.00
KUB-P.3D.390.R.12-C40	39.0	40	50	213	117	145	6,25	SOGX 120408	39004	<del>552.24</del> 221.00
KUB-P.3D.395.R.12-C40	39.5	40	50	216	120	148	6,25	SOGX 120408	39504	<del>552.24</del> 221.00
KUB-P.3D.400.R.12-C40	40.0	40	50	216	120	148	6,25	SOGX 120408	40004	<del>552.24</del> 221.00
KUB-P.3D.405.R.12-C40	40.5	40	50	220	123	152	6,25	SOGX 120408	40504	<del>552.24</del> 221.00
KUB-P.3D.410.R.12-C40	41.0	40	50	220	123	152	6,25	SOGX 120408	41004	<del>552.24</del> 221.00
KUB-P.3D.415.R.12-C40	41.5	40	50	223	126	155	6,25	SOGX 120408	41504	<del>552.24</del> 221.00
KUB-P.3D.420.R.12-C40	42.0	40	50	223	126	155	6,25	SOGX 120408	42004	<del>552.24</del> 221.00
KUB-P.3D.425.R.13-C40	42.5	40	50	227	129	159	6,25	SOGX 130508	42504	<del>552.24</del> 221.00
KUB-P.3D.430.R.13-C40	43.0	40	50	227	129	159	6,25	SOGX 130508	43004	<del>552.24</del> 221.00
KUB-P.3D.435.R.13-C40	43.5	40	50	230	132	162	6,25	SOGX 130508	43504	<del>552.24</del> 221.00
KUB-P.3D.440.R.13-C40	44.0	40	50	230	132	162	6,25	SOGX 130508	44004	<del>552.24</del> 221.00
KUB-P.3D.445.R.13-C40	44.5	40	50	234	135	166	6,25	SOGX 130508	44504	<del>552.24</del> 221.00
KUB-P.3D.450.R.13-C40	45.0	40	50	234	135	166	6,25	SOGX 130508	45004	<del>552.24</del> 221.00
KUB-P.3D.455.R.13-C40	45.5	40	50	237	138	169	6,25	SOGX 130508	45504	<del>552.24</del> 221.00
KUB-P.3D.460.R.13-C40	46.0	40	50	237	138	169	6,25	SOGX 130508	46004	<del>552.24</del> 221.00

## KUB Pentron – Indexable insert drill

**Scope of supply:**

Indexable Insert Drill incl. clamping screws



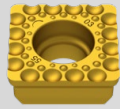
≤ 4xD  **C** KOMET \ Performance

Designation	DC mm	DCONMS mm	DF mm	OAL mm	LU mm	LPR mm	torque moment Nm	Insert	10 874 ... PG 2B/6#	
									£	£
KUB-P.4D.140.R.04-C20	14.0	20	30	119	56	69	0,38	SOGX 040204	14001	<del>467.30</del> 187.00
KUB-P.4D.145.R.04-C20	14.5	20	30	124	60	74	0,38	SOGX 040204	14501	<del>467.30</del> 187.00
KUB-P.4D.150.R.04-C20	15.0	20	30	124	60	74	0,38	SOGX 040204	15001	<del>467.30</del> 187.00
KUB-P.4D.155.R.04-C20	15.5	20	30	130	64	80	0,38	SOGX 040204	15501	<del>467.30</del> 187.00
KUB-P.4D.160.R.04-C20	16.0	20	30	130	64	80	0,38	SOGX 040204	16001	<del>467.30</del> 187.00
KUB-P.4D.165.R.05-C20	16.5	20	30	135	68	85	0,62	SOGX 050204	16501	<del>467.30</del> 187.00
KUB-P.4D.170.R.05-C20	17.0	20	30	135	68	85	0,62	SOGX 050204	17001	<del>479.99</del> 192.00
KUB-P.4D.175.R.05-C25	17.5	25	30	145	72	89	0,62	SOGX 050204	17502	<del>479.99</del> 192.00
KUB-P.4D.180.R.05-C25	18.0	25	30	145	72	89	0,62	SOGX 050204	18002	<del>479.99</del> 192.00
KUB-P.4D.185.R.06-C25	18.5	25	30	150	76	94	1,01	SOGX 060206	18502	<del>479.99</del> 192.00
KUB-P.4D.190.R.06-C25	19.0	25	30	150	76	94	1,01	SOGX 060206	19002	<del>492.69</del> 197.00
KUB-P.4D.195.R.06-C25	19.5	25	30	154	80	98	1,01	SOGX 060206	19502	<del>492.69</del> 197.00
KUB-P.4D.200.R.06-C25	20.0	25	30	154	80	98	1,01	SOGX 060206	20002	<del>492.69</del> 197.00
KUB-P.4D.205.R.07-C25	20.5	25	30	159	84	103	1,01	SOGX 07T208	20502	<del>542.92</del> 205.00
KUB-P.4D.210.R.07-C25	21.0	25	30	159	84	103	1,01	SOGX 07T208	21002	<del>542.92</del> 205.00
KUB-P.4D.215.R.07-C25	21.5	25	30	163	88	107	1,01	SOGX 07T208	21502	<del>542.92</del> 205.00
KUB-P.4D.220.R.07-C25	22.0	25	30	163	88	107	1,01	SOGX 07T208	22002	<del>542.92</del> 205.00
KUB-P.4D.225.R.07-C25	22.5	25	30	168	92	112	1,01	SOGX 07T208	22502	<del>542.92</del> 205.00
KUB-P.4D.230.R.07-C25	23.0	25	30	168	92	112	1,01	SOGX 07T208	23002	<del>542.92</del> 205.00
KUB-P.4D.235.R.08-C32	23.5	32	39	176	96	116	1,28	SOGX 080308	23503	<del>531.56</del> 213.00
KUB-P.4D.240.R.08-C32	24.0	32	39	176	96	116	1,28	SOGX 080308	24003	<del>531.5</del>





**-01** Allrounder chip breaker for normal materials.



**-03** Best swarf control for tough to machine materials including super alloys.



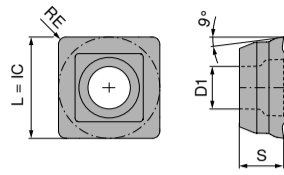
**-13** Good swarf control and low power/cutting forces.



**-21** Lowest power/cutting forces. For larger diameters on low power machines.

SOGX

Designation	L mm	IC mm	D1 mm	S mm
SOGX 0402..	4.8	4.8	2.05	2.20
SOGX 0502..	5.5	5.5	2.30	2.40
SOGX 0602..	6.2	6.2	2.60	2.75
SOGX 07T2..	7.1	7.1	2.60	2.97
SOGX 0803..	8.0	8.0	2.85	3.40
SOGX 09T3..	8.9	8.9	3.40	3.90
SOGX 1004..	9.8	9.8	4.10	4.20
SOGX 1104..	10.9	10.9	4.10	4.50
SOGX 1204..	12.0	12.0	5.20	4.80
SOGX 1305..	13.2	13.2	5.20	5.20



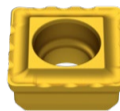
SOGX

KOMET \ Performance

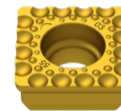
**-21**  
BK8430



**-13**  
BK8425



**-03**  
BK8430



**-01**  
BK8425



**-01**  
BK7935



ISO	RE mm	10 820 ... PG 1A/3#		10 820 ... PG 1A/3#		10 820 ... PG 1A/3#		10 820 ... PG 1A/3#		10 820 ... PG 1A/3#			
		£	£	£	£	£	£	£	£	£	£		
040204	0.4	00421	18.94	14.18	30413	17.79	13.34	00403	17.79	13.34	30401	17.89	13.35
050204	0.4	00521	19.92	14.27	30513	17.94	13.43	00503	17.94	13.43	30501	17.93	13.45
060206	0.6	00621	19.16	14.37	30613	18.03	13.52	00603	18.03	13.52	30601	18.05	13.54
07T208	0.8	00721	19.27	14.45	30713	18.14	13.61	00703	18.14	13.61	30701	18.19	13.64
080308	0.8	00821	19.48	14.55	30813	18.26	13.70	00803	18.26	13.70	30801	18.25	13.69
09T308	0.8				30913	18.34	14.21	00903	18.34	14.21	30901	18.33	14.20
100408	0.8	01021	20.74	15.56	31013	19.54	14.63	01003	19.54	14.63	31001	19.56	14.67
110408	0.8	01121	21.35	16.01	31113	20.10	15.08	01103	20.10	15.08	31101	20.10	15.08
120408	0.8	01221	22.45	16.84	31213	21.13	15.85	01203	21.13	15.85	31201	21.11	15.83
130508	0.8	01321	26.12	19.59	31313	24.57	18.43	01303	24.57	18.43	31301	24.64	18.48
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S		●			●			●			●		
H		○			○			○			○		
O													○



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# 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.



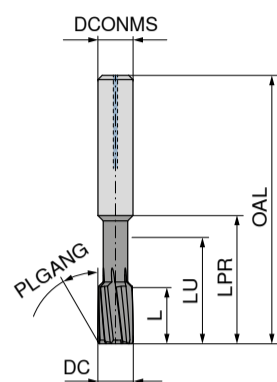


### Fullmax – High-performance machine reamers, short

- ▲ extremely irregular pitch
- ▲ designed for high-speed machining
- ▲ specialised geometry and coating for universal use
- ▲ tolerance: Ø 2,96 – 6,03 mm = +0,004 mm
- ▲ tolerance: Ø 6,04 – 20,05 mm = +0,005 mm



KOMET \ Performance



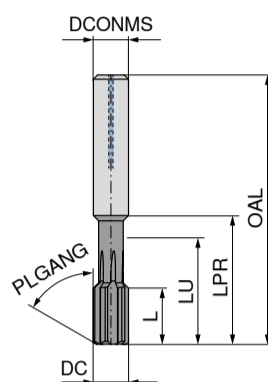
51P.57  
Left Hand Helix  
PLGANG 30°  
ASG2210  
Solid carbide  
Through hole

### Fullmax – High-performance machine reamers, short

- ▲ extremely irregular pitch
- ▲ designed for high-speed machining
- ▲ specialised geometry and coating for universal use
- ▲ tolerance: Ø 2,96 – 6,03 mm = +0,004 mm
- ▲ tolerance: Ø 6,04 – 20,05 mm = +0,005 mm



KOMET \ Performance



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

DC <sup>+0,004/+0,005</sup> mm	OAL mm	L mm	LU mm	DCONMS <sub>h6</sub> mm	ZEFP	40 489 ... PG U4/4R	£	£
3,97	50	12	24	4	4	03970	<del>130.22</del>	71.62
3,98	50	12	24	4	4	03980	<del>130.22</del>	71.62
3,99	50	12	24	4	4	03990	<del>130.22</del>	71.62
4,00	50	12	24	4	4	04000	<del>130.22</del>	71.62
4,01	50	12	24	4	4	04010	<del>130.22</del>	71.62
4,02	50	12	24	4	4	04020	<del>130.22</del>	71.62
4,03	50	12	24	4	4	04030	<del>130.22</del>	71.62
4,97	64	12	31	6	4	04970	<del>133.00</del>	73.15
4,98	64	12	31	6	4	04980	<del>133.00</del>	73.15
4,99	64	12	31	6	4	04990	<del>133.00</del>	73.15
5,00	64	12	31	6	4	05000	<del>133.00</del>	73.15
5,01	64	12	31	6	4	05010	<del>133.00</del>	73.15
5,02	64	12	31	6	4	05020	<del>133.00</del>	73.15
5,03	64	12	31	6	4	05030	<del>133.00</del>	73.15
5,97	64	12	31	6	4	05970	<del>134.03</del>	73.72
5,98	64	12	31	6	4	05980	<del>134.03</del>	73.72
5,99	64	12	31	6	4	05990	<del>134.03</del>	73.72
6,00	64	12	31	6	4	06000	<del>134.03</del>	73.72
6,01	64	12	31	6	4	06010	<del>134.03</del>	73.72
6,02	64	12	31	6	4	06020	<del>134.03</del>	73.72
6,03	64	12	31	6	4	06030	<del>134.03</del>	73.72
7,97	70	16	31	8	6	07970	<del>140.50</del>	77.28
7,98	70	16	31	8	6	07980	<del>140.50</del>	77.28
7,99	70	16	31	8	6	07990	<del>140.50</del>	77.28
8,00	70	16	31	8	6	08000	<del>140.50</del>	77.28
8,01	70	16	31	8	6	08010	<del>140.50</del>	77.28
8,02	70	16	31	8	6	08020	<del>140.50</del>	77.28
8,03	70	16	31	8	6	08030	<del>140.50</del>	77.28
9,97	80	16	35	10	6	09970	<del>200.07</del>	110.04
9,98	80	16	35	10	6	09980	<del>200.07</del>	110.04
9,99	80	16	35	10	6	09990	<del>200.07</del>	110.04
10,00	80	16	35	10	6	10000	<del>200.07</del>	110.04
10,01	80	16	35	10	6	10010	<del>200.07</del>	110.04
10,02	80	16	35	10	6	10020	<del>200.07</del>	110.04
10,03	80	16	35	10	6	10030	<del>200.07</del>	110.04
11,97	90	20	40	12	6	11970	<del>266.10</del>	146.36
11,98	90	20	40	12	6	11980	<del>266.10</del>	146.36
11,99	90	20	40	12	6	11990	<del>266.10</del>	146.36
12,00	90	20	40	12	6	12000	<del>266.10</del>	146.36
12,01	90	20	40	12	6	12010	<del>266.10</del>	146.36
12,02	90	20	40	12	6	12020	<del>266.10</del>	146.36
12,03	90	20	40	12	6	12030	<del>266.10</del>	146.36

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DC <sup>+0,004/+0,005</sup> mm	OAL mm	L mm	LU mm	DCONMS <sub>h6</sub> mm	ZEFP	40 488 ... PG U4/4R	£	£
3,97	50	12	24	4	4	03970	<del>109.78</del>	60.38
3,98	50	12	24	4	4	03980	<del>109.78</del>	60.38
3,99	50	12	24	4	4	03990	<del>109.78</del>	60.38
4,00	50	12	24	4	4	04000	<del>109.78</del>	60.38
4,01	50	12	24	4	4	04010	<del>109.78</del>	60.38
4,02	50	12	24	4	4	04020	<del>109.78</del>	60.38
4,03	50	12	24	4	4	04030	<del>109.78</del>	60.38
4,97	64	12	31	6	4	04970	<del>112.55</del>	61.90
4,98	64	12	31	6	4	04980	<del>112.55</del>	61.90
4,99	64	12	31	6	4	04990	<del>112.55</del>	61.90
5,00	64	12	31	6	4	05000	<del>112.55</del>	61.90
5,01	64	12	31	6	4	05010	<del>112.55</del>	61.90
5,02	64	12	31	6	4	05020	<del>112.55</del>	61.90
5,03	64	12	31	6	4	05030	<del>112.55</del>	61.90
5,97	64	12	31	6	4	05970	<del>114.43</del>	62.94
5,98	64	12	31	6	4	05980	<del>114.43</del>	62.94
5,99	64	12	31	6	4	05990	<del>114.43</del>	62.94
6,00	64	12	31	6	4	06000	<del>114.43</del>	62.94
6,01	64	12	31	6	4	06010	<del>114.43</del>	62.94
6,02	64	12	31	6	4	06020	<del>114.43</del>	62.94
6,03	64	12	31	6	4	06030	<del>114.43</del>	62.94
7,97	70	16	31	8	6	07970	<del>120.07</del>	66.04
7,98	70	16	31	8	6	07980	<del>120.07</del>	66.04
7,99	70	16	31	8	6	07990	<del>120.07</del>	66.04
8,00	70	16	31	8	6	08000	<del>120.07</del>	66.04
8,01	70	16	31	8	6	08010	<del>120.07</del>	66.04
8,02	70	16	31	8	6	08020	<del>120.07</del>	66.04
8,03	70	16	31	8	6	08030	<del>120.07</del>	66.04
9,97	80	16	35	10	6	09970	<del>174.90</del>	96.20
9,98	80	16	35	10	6	09980	<del>174.90</del>	96.20
9,99	80	16	35	10	6	09990	<del>174.90</del>	96.20
10,00	80	16	35	10	6	10000	<del>174.90</del>	96.20
10,01	80	16	35	10	6	10010	<del>174.90</del>	96.20
10,02	80	16	35	10	6	10020	<del>174.90</del>	96.20
10,03	80	16	35	10	6	10030	<del>174.90</del>	96.20
11,97	90	20	40	12	6	11970	<del>233.56</del>	128.46
11,98	90	20	40	12	6	11980	<del>233.56</del>	128.46
11,99	90	20	40	12	6	11990	<del>233.56</del>	128.46
12,00	90	20	40	12	6	12000	<del>233.56</del>	128.46
12,01	90	20	40	12	6	12010	<del>233.56</del>	128.46
12,02	90	20	40	12	6	12020	<del>233.56</del>	128.46
12,03	90	20	40	12	6	12030	<del>233.56</del>	128.46

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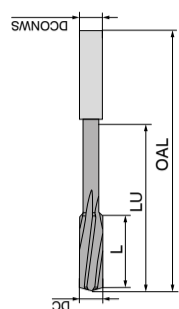




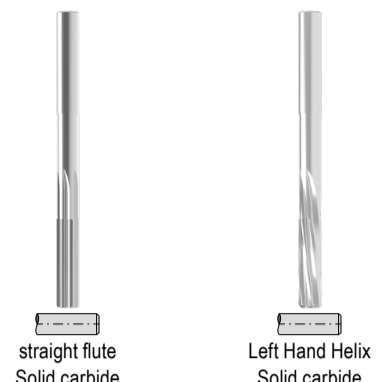
Machine reamers, similar to DIN 8093-A / -B

▲ extremely irregular pitch

N



NEW NEW



DC <sub>H7</sub>	OAL	L	LU	DCONMS <sub>H7</sub>	ZEFP	40 405 ... PG U4/4R		40 415 ... PG U4/4R	
						£	£	£	£
6.5	101	28	63	6.3	6	06500	<del>139.07</del> 47.80	06500	<del>139.07</del> 47.80
6.6	101	28	63	6.3	6	06600	<del>160.20</del> 54.96	06600	<del>160.20</del> 54.96
6.7	101	28	63	6.3	6	06700	<del>160.20</del> 54.96	06700	<del>160.20</del> 54.96
6.8	109	31	69	7.1	6	06800	<del>160.20</del> 54.96	06800	<del>160.20</del> 54.96
6.9	109	31	69	7.1	6	06900	<del>160.20</del> 54.96	06900	<del>160.20</del> 54.96
7.0	109	31	69	7.1	6	07000	<del>155.61</del> 53.36	07000	<del>155.61</del> 53.36
7.1	109	31	69	7.1	6	07100	<del>179.79</del> 61.37	07100	<del>179.79</del> 61.37
7.2	109	31	69	7.1	6	07200	<del>179.79</del> 61.37	07200	<del>179.79</del> 61.37
7.3	109	31	69	7.1	6	07300	<del>179.79</del> 61.37	07300	<del>179.79</del> 61.37
7.4	109	31	69	7.1	6	07400	<del>179.79</del> 61.37	07400	<del>179.79</del> 61.37
7.5	109	31	69	7.1	6	07500	<del>168.32</del> 57.68	07500	<del>168.32</del> 57.68
7.6	117	33	75	8.0	6	07600	<del>193.60</del> 66.32	07600	<del>193.60</del> 66.32
7.7	117	33	75	8.0	6	07700	<del>193.60</del> 66.32	07700	<del>193.60</del> 66.32
7.8	117	33	75	8.0	6	07800	<del>193.60</del> 66.32	07800	<del>193.60</del> 66.32
7.9	117	33	75	8.0	6	07900	<del>193.60</del> 66.32	07900	<del>193.60</del> 66.32
8.0	117	33	75	8.0	6	08000	<del>179.79</del> 61.41	08000	<del>179.79</del> 61.41
8.1	117	33	75	8.0	6	08100	<del>197.03</del> 67.56	08100	<del>197.03</del> 67.56
8.2	117	33	75	8.0	6	08200	<del>197.03</del> 67.56	08200	<del>197.03</del> 67.56
8.3	117	33	75	8.0	6	08300	<del>197.03</del> 67.56	08300	<del>197.03</del> 67.56
8.4	117	33	75	8.0	6	08400	<del>197.03</del> 67.56	08400	<del>197.03</del> 67.56
8.5	117	33	75	8.0	6	08500	<del>194.24</del> 66.59	08500	<del>194.24</del> 66.59
8.6	125	36	81	9.0	6	08600	<del>213.20</del> 73.22	08600	<del>213.20</del> 73.22
8.7	125	36	81	9.0	6	08700	<del>213.20</del> 73.22	08700	<del>213.20</del> 73.22
8.8	125	36	81	9.0	6	08800	<del>213.20</del> 73.22	08800	<del>213.20</del> 73.22
8.9	125	36	81	9.0	6	08900	<del>213.20</del> 73.22	08900	<del>213.20</del> 73.22
9.0	125	36	81	9.0	6	09000	<del>208.04</del> 71.40	09000	<del>208.04</del> 71.40
9.1	125	36	81	9.0	6	09100	<del>229.75</del> 78.51	09100	<del>229.75</del> 78.51
9.2	125	36	81	9.0	6	09200	<del>229.75</del> 78.51	09200	<del>229.75</del> 78.51
9.3	125	36	81	9.0	6	09300	<del>229.75</del> 78.51	09300	<del>229.75</del> 78.51
9.4	125	36	81	9.0	6	09400	<del>229.75</del> 78.51	09400	<del>229.75</del> 78.51
9.5	125	36	81	9.0	6	09500	<del>222.94</del> 76.56	09500	<del>222.94</del> 76.56
9.6	133	38	87	10.0	6	09600	<del>245.34</del> 84.21	09600	<del>245.34</del> 84.21
9.7	133	38	87	10.0	6	09700	<del>245.34</del> 84.21	09700	<del>245.34</del> 84.21
9.8	133	38	87	10.0	6	09800	<del>245.34</del> 84.21	09800	<del>245.34</del> 84.21
9.9	133	38	87	10.0	6	09900	<del>245.34</del> 84.21	09900	<del>245.34</del> 84.21
10.0	133	38	87	10.0	6	10000	<del>240.08</del> 82.38	10000	<del>240.08</del> 82.38
10.1	133	38	87	10.0	6	10100	<del>264.41</del> 90.63	10100	<del>264.41</del> 90.63
10.2	133	38	87	10.0	6	10200	<del>264.41</del> 90.63	10200	<del>264.41</del> 90.63
10.3	133	38	87	10.0	6	10300	<del>264.41</del> 90.63	10300	<del>264.41</del> 90.63
10.4	133	38	87	10.0	6	10400	<del>264.41</del> 90.63	10400	<del>264.41</del> 90.63
10.5	133	38	87	10.0	6	10500	<del>251.30</del> 86.10	10500	<del>251.30</del> 86.10
10.6	133	38	87	10.0	6	10600	<del>275.86</del> 94.73	10600	<del>275.86</del> 94.73
10.7	142	41	96	10.0	6	10700	<del>275.86</del> 94.73	10700	<del>275.86</del> 94.73
10.8	142	41	96	10.0	6	10800	<del>275.86</del> 94.73	10800	<del>275.86</del> 94.73
10.9	142	41	96	10.0	6	10900	<del>275.86</del> 94.73	10900	<del>275.86</del> 94.73
11.0	142	41	96	10.0	6	11000	<del>271.80</del> 93.32	11000	<del>271.80</del> 93.32
11.1	142	41	96	10.0	6	11100	<del>300.64</del> 102.65	11100	<del>300.64</del> 102.65
11.2	142	41	96	10.0	6	11200	<del>300.64</del> 102.65	11200	<del>300.64</del> 102.65
11.3	142	41	96	10.0	6	11300	<del>300.64</del> 102.65	11300	<del>300.64</del> 102.65
11.4	142	41	96	10.0	6	11400	<del>300.64</del> 102.65	11400	<del>300.64</del> 102.65
11.5	142	41	96	10.0	6	11500	<del>289.93</del> 99.00	11500	<del>289.93</del> 99.00
11.6	142	41	96	10.0	6	11600	<del>317.34</del> 108.95	11600	<del>317.34</del> 108.95
11.7	142	41	96	10.0	6	11700	<del>317.34</del> 108.95	11700	<del>317.34</del> 108.95
11.8	142	41	96	10.0	6	11800	<del>317.34</del> 108.95	11800	<del>317.34</del> 108.95
11.9	151	44	100	10.0	6	11900	<del>317.34</del> 108.95	11900	<del>317.34</del> 108.95
12.0	151	44	100	10.0	6	12000	<del>311.86</del> 107.31	12000	<del>311.86</del> 107.31

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

DC <sub>H7</sub>	OAL	L	LU	DCONMS <sub>H7</sub>	ZEFP	40 405 ... PG U4/4R		40 415 ... PG U4/4R	
						£	£	£	£
2.0	49	11	31	2.0	4	02000	<del>56.27</del> 19.31	02000	<del>56.27</del> 19.31
2.1	49	11	31	2.0	4	02100	<del>67.20</del> 23.19	02100	<del>67.20</del> 23.19
2.2	53	12	35	2.2	4	02200	<del>67.20</del> 23.19	02200	<del>67.20</del> 23.19
2.3	53	12	35	2.2	4	02300	<del>67.20</del> 23.19	02300	<del>67.20</del> 23.19
2.4	57	14	34	2.5	4	02400	<del>67.20</del> 23.19	02400	<del>67.20</del> 23.19
2.5	57	14	34	2.5	4	02500	<del>68.44</del> 20.71	02500	<del>68.44</del> 20.71
2.6	57	14	34	2.5	4	02600	<del>72.20</del> 24.85	02600	<del>72.20</del> 24.85
2.7	61	15	36	3.0	4	02700	<del>72.20</del> 24.85	02700	<del>72.20</del> 24.85
2.8	61	15	36	3.0	4	02800	<del>72.20</del> 24.85	02800	<del>72.20</del> 24.85
2.9	61	15	36	3.0	4	02900	<del>72.20</del> 24.85	02900	<del>72.20</del> 24.85
3.0	61	15	36	3.0	4	03000	<del>65.12</del> 22.24	03000	<del>65.12</del> 22.24
3.1	61	15	36	3.0	4	03100	<del>78.00</del> 26.74	03100	<del>78.00</del> 26.74
3.2	70	18	40	3.5	4	03200	<del>78.00</del> 26.74	03200	<del>78.00</del> 26.74
3.3	70	18	40	3.5	4	03300	<del>78.00</del> 26.74	03300	<del>78.00</del> 26.74
3.4	70	18	40	3.5	4	03400	<del>78.00</del> 26.74	03400	<del>78.00</del> 26.74
3.5	70	18	40	3.5	4	03500	<del>74.22</del> 25.45	03500	<del>74.22</del> 25.45
3.6	70	18	40	3.5	4	03600	<del>89.12</del> 30.52	03600	<del>89.12</del> 30.52
3.7	70	18	40	3.5	4	03700	<del>89.12</del> 30.52	03700	<del>89.12</del> 30.52
3.8	75	19	43	4.0	4	03800	<del>89.12</del> 30.52	03800	<del>89.12</del> 30.52
3.9	75	19	43	4.0	4	03900	<del>89.12</del> 30.52	03900	<del>89.12</del> 30.52
4.0	75	19	43	4.0	4	04000	<del>79.75</del> 27.38	04000	<del>79.75</del> 27.38
4.1	75	19	43	4.0	4	04100	<del>96.04</del> 32.84	04100	<del>96.04</del> 32.84
4.2	75	19	43	4.0	4	04200	<del>96.04</del> 32.84	04200	<del>96.04</del> 32.84
4.3	75	21	42	4.5	4	04300	<del>96.04</del> 32.84	04300	<del>96.04</del> 32.84
4.4	75	21	42	4.5	4	04400	<del>96.04</del> 32.84	04400	<del>96.04</del> 32.84
4.5	75	21	42	4.5	4	04500	<del>86.04</del> 29.77	04500	<del>86.04</del> 29.77
4.6	75	21	42	4.5	4	04600	<del>104.20</del> 35.73	04600	<del>104.20</del> 35.73
4.7	75	21	42	4.5	4	04700	<del>104.20</del> 35.73	04700	<del>104.20</del> 35.73
4.8	86	23	52	5.0	6	04800	<del>104.20</del> 35.73	04800	<del>104.20</del> 35.73
4.9	86	23	52	5.0	6	04900	<del>104.20</del> 35.73	04900	<del>104.20</del> 35.73
5.0	86	23	52	5.0	6	05000	<del>97.95</del> 33.63	05000	<del>97.95</del> 33.63
5.1	86	23	52	5.0	6	05100	<del>112.85</del> 38.70	05100	<del>112.85</del> 38.70
5.2	86	23	52	5.0	6	05200	<del>112.85</del> 38.70	05200	<del>112.85</del> 38.70
5.3	86	23	52	5.0	6	05300	<del>112.85</del> 38.70	05300	<del>112.85</del> 38.70
5.4	93	26	57	5.6	6	05400	<del>112.85</del> 38.70	05400	<del>112.85</del> 38.70
5.5	93	26	57	5.6	6	05500	<del>103.71</del> 35.60	05500	<del>103.71</del> 35.60
5.6	93	26	57	5.6	6	05600	<del>119.46</del> 40.90	05600	<del>119.46</del> 40.90
5.7	93	26	57	5.6	6	05700	<del>119.46</del> 40.90	05700	<del>119.46</del> 40.90
5.8	93	26	57	5.6	6	05800	<del>119.46</del> 40.90	05800	<del>119.46</del> 40.90
5.9	93	26	57	5.6	6	05900	<del>119.46</del> 40.90	05900	<del>119.46</del> 40.90
6.0	93	26	57	5.6	6	06000	<del>124.16</del> 42.58	06000	<del>124.16</del> 42.58
6.1	93	26	57	5.6	6	06100	<del>142.02</del> 48.94	06100	<del>142.02</del> 48.94
6.2	93	26	57	5.6	6	06200	<del>142.02</del> 48.94	06200	<del>142.02</del> 48.94
6.3	101	28	63	6.3	6	06300	<del>142.02</del> 48.94	06300	<del>142.02</del> 48.94
6.4	101	28	63	6.3	6	06400	<del>142.02</del> 48.94	06400	<del>142.02</del> 48.94





# HSS TAPS



UNI – universal taps for all standard materials.



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



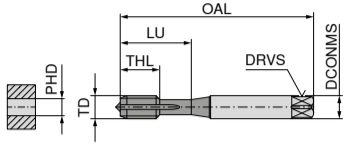
Roll tapping – 23-810 range. For all suitable applications and materials.



Through hole – Machine taps, right hand



WNT \ Standard



**UKS**

UNI	ISO 2 6H
B	TiN
4-5	



**POWDERSTEEL**  
HSS-PM  
FHA 0°  
≤ 1000 N/mm<sup>2</sup>  
≤ 3xD

**UKS**

VA	ISO 2 6H
B	nitr.
4-5	



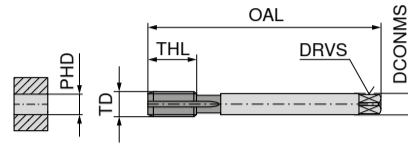
**POWDERSTEEL**  
HSS-PM  
FHA 0°  
≤ 1200 N/mm<sup>2</sup>  
≤ 3xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	Flutes	23 010 ... PG T9		23 450 ... PG T9	
									£	£	£	£
M2	0.40	45	2.8	2.1	1.6	4	13.5	2	020	<del>11.66</del>	9.91	
M3	0.50	56	3.5	2.7	2.5	11	18.0	3	030	<del>14.66</del>	12.45	030
M4	0.70	63	4.5	3.4	3.3	13	21.0	3	040	<del>13.36</del>	11.36	040
M5	0.80	70	6.0	4.9	4.2	15	25.0	3	050	<del>14.94</del>	12.70	050
M6	1.00	80	6.0	4.9	5.0	17	30.0	3	060	<del>17.94</del>	15.22	060
M8	1.25	90	8.0	6.2	6.8	20	35.0	3	080	<del>19.89</del>	16.90	080
M10	1.50	100	10.0	8.0	8.5	22	39.0	3	100	<del>26.39</del>	22.36	100

Through hole – Machine taps, right hand



WNT \ Standard



**UKS**

UNI	ISO 2 6H
B	TiN
4-5	



**POWDERSTEEL**  
HSS-PM  
FHA 0°  
≤ 1000 N/mm<sup>2</sup>  
≤ 3xD

**UKS**

VA	ISO 2 6H
B	nitr.
4-5	



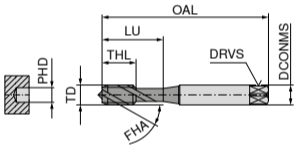
**POWDERSTEEL**  
HSS-PM  
FHA 0°  
≤ 1200 N/mm<sup>2</sup>  
≤ 3xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	Flutes	23 021 ... PG T9		23 451 ... PG T9	
								£	£	£	£
M12	1.75	110	9	7	10.2	24	3	120	<del>34.44</del>	26.70	120
M14	2.00	110	11	9	12.0	26	3	140	<del>47.64</del>	40.47	140
M16	2.00	110	12	9	14.0	27	3	160	<del>44.24</del>	37.58	160
M18	2.50	125	14	11	15.5	25	4	180	<del>77.44</del>	65.82	180
M20	2.50	140	16	12	17.5	32	3	200	<del>89.04</del>	68.01	200

Blind hole – Machine taps, right hand



WNT \ Standard



**UKS**

UNI	ISO 2 6H
C	TiN
2-3	



**HSS-PM**  
FHA 50°  
≤ 1000 N/mm<sup>2</sup>  
≤ 2.5xD

**UKS**

VA	ISO 2 6H
C	TiN
2-3	



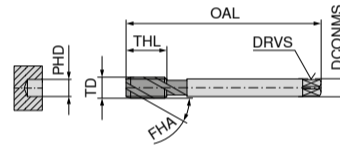
**HSS-PM**  
FHA 40°  
≤ 1200 N/mm<sup>2</sup>  
≤ 2.5xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	Flutes	23 026 ... PG T9		23 456 ... PG T9	
									£	£	£	£
M3	0.50	56	3.5	2.7	2.5	6	18	3	030	<del>16.62</del>	14.13	030
M4	0.70	63	4.5	3.4	3.3	7	21	3	040	<del>16.62</del>	14.13	040
M5	0.80	70	6.0	4.9	4.2	8	25	3	050	<del>17.94</del>	15.22	050
M6	1.00	80	6.0	4.9	5.0	10	30	3	060	<del>20.74</del>	17.63	060
M8	1.25	90	8.0	6.2	6.8	14	35	3	080	<del>24.64</del>	20.92	080
M10	1.50	100	10.0	8.0	8.5	16	39	3	100	<del>30.99</del>	26.34	100

Blind hole – Machine taps, right hand



WNT \ Standard



**UKS**

UNI	ISO 2 6H
C	TiN
2-3	



**HSS-PM**  
FHA 50°  
≤ 1000 N/mm<sup>2</sup>  
≤ 2.5xD

**UKS**

VA	ISO 2 6H
C	TiN
2-3	



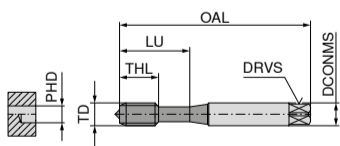
**HSS-PM**  
FHA 40°  
≤ 1200 N/mm<sup>2</sup>  
≤ 2.5xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	Flutes	23 027 ... PG T9		23 457 ... PG T9	
								£	£	£	£
M12	1.75	110	9	7	10.2	18	4	120	<del>36.66</del>	31.16	
M12	1.75	110	9	7	10.2	18	3			120	
M14	2.00	110	11	9	12.0	20	4	140	<del>52.73</del>	44.82	
M16	2.00	110	12	9	14.0	22	4	160	<del>52.73</del>	44.82	
M16	2.00	110	12	9	14.0	22	3			160	
M20	2.50	140	16	12	17.5	25	3	200	<del>69.44</del>	51.35	200

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



WNT \ Standard



**UKS**

UNI	ISO 2X 6HX
C	TiN
2-3	

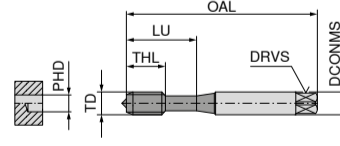


**POWDERSTEEL**  
HSS-E  
≤ 850 N/mm<sup>2</sup>  
≤ 3xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	23 810 ... PG T9	
								£	£
M2	0.40	45	2.8	2.1	1.85	7	12	020	<del>50.35</del>
M2,5	0.45	50	2.8	2.1	2.33	9	14	025	<del>44.95</del>
M3	0.50	56	3.5	2.7	2.80	11	18	030	<del>32.65</del>
M4	0.70	63	4.5	3.4	3.70	13	21	040	<del>39.42</del>
M5	0.80	70	6.0	4.9	4.65	15	25	050	<del>35.50</del>
M6	1.00	80	6.0	4.9	5.60	17	30	060	<del>42.64</del>
M8	1.25	90	8.0	6.2	7.45	20	35	080	<del>47.59</del>
M10	1.50	100	10.0	8.0	9.35	22	39	100	<del>62.46</del>



WNT \ Standard



**UKS**

UNI	ISO 2X 6HX
C	TiN
2-3	



**POWDERSTEEL**  
HSS-E  
≤ 850 N/mm<sup>2</sup>  
≤ 3xD

TD mm	TP mm	OAL mm	DCONMS mm	DRVS mm	PHD mm	THL mm	LU mm	23 814 ... PG T9	
								£	£
M2	0.40	45	2.8	2.1	1.85	7	12	020	<del>57.24</del>
M2,5	0.45	50	2.8	2.1	2.33	9	14	025	<del>51.86</del>
M3	0.50	56	3.5	2.7	2.80	11	18	030	<del>34.77</del>
M4	0.70	63	4.5	3.4	3.70	13	21	040	<del>74.49</del>
M5	0.80	70	6.0	4.9	4.65	15	25	050	<del>78.55</del>
M6	1.00	80	6.0	4.9	5.60	17	30	060	<del>98.46</del>
M8	1.25	90	8.0	6.2	7.45	20	35	080	<del>94.48</del>
M10	1.50	100	10.0	8.0	9.35	22	39	100	<del>69.77</del>



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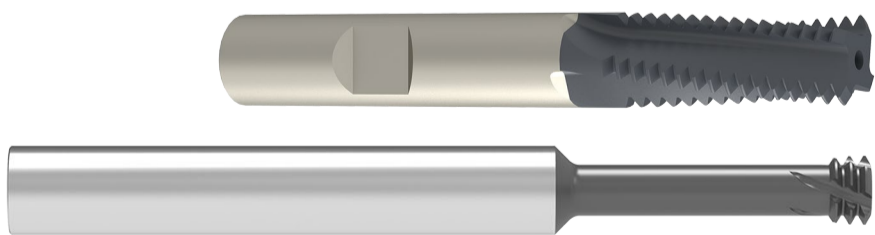
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in stock in Sheffield



# THREAD MILLING CUTTERS



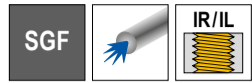
## SGF

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



### MonoThread – Thread milling cutter

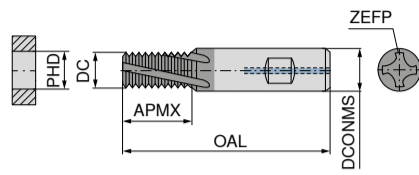
- ▲ Profile corrected
- ▲ Hard machining to Ø DC = 4 mm possible



≤ 2xD



M



Solid carbide

DC mm	Thread	TP mm	APMX mm	DCONMS <sub>h6</sub> mm	OAL mm	ZEFP	PHD mm	54 821 ... PG W8/W9	
								£	£
2.40	M3	0.50	7.0	4	42	2	2.50	03000 <sup>1)</sup>	<del>119.91</del> 110.00
3.15	M4	0.70	10.0	6	55	3	3.30	04000 <sup>2)</sup>	<del>119.91</del> 110.00
4.00	M5	0.80	12.2	6	55	3	4.20	05000 <sup>2)</sup>	<del>119.91</del> 110.00
4.80	M6	1.00	14.3	6	55	3	5.00	06000 <sup>2)</sup>	<del>119.91</del> 110.00
6.00	M8	1.25	19.0	6	60	3	6.75	08000	<del>125.78</del> 120.00
8.00	M10	1.50	23.0	8	70	3	8.50	10000	<del>152.07</del> 150.00
9.90	M12	1.75	28.6	10	75	4	10.25	12000	<del>182.86</del> 180.00
11.60	M14	2.00	32.6	12	85	4	12.00	14000	<del>212.88</del> 210.00
12.00	M16	2.00	36.6	12	85	4	14.00	16000	<del>222.55</del> 220.00
14.00	M18	2.50	43.3	14	90	4	15.50	18000	<del>262.55</del> 260.00
16.00	M20	2.50	43.3	16	90	4	17.50	20000	<del>272.69</del> 270.00

P	•
M	•
K	•
N	•
S	•
H	•
O	•

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

### MonoThread – Thread milling cutter

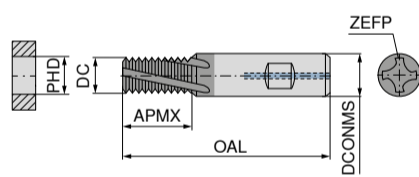
- ▲ Profile corrected
- ▲ Hard machining to Ø DC = 4 mm possible



≤ 2xD



MF



Solid carbide

DC mm	Thread	TP mm	APMX mm	DCONMS <sub>h6</sub> mm	OAL mm	ZEFP	PHD mm	54 822 ... PG W8/W9	
								£	£
4.0	M 5x0,5	0.50	11.6	6	55	3	4.50	05000 <sup>1)</sup>	<del>119.91</del> 110.00
4.8	M 6x0,75	0.75	14.5	6	55	3	5.25	06000 <sup>1)</sup>	<del>119.91</del> 110.00
6.0	M 8x1	1.00	19.3	6	60	3	7.00	08000	<del>125.78</del> 120.00
8.0	M 10x1,25	1.25	21.6	8	70	3	8.75	10000	<del>152.07</del> 150.00
9.9	M 12x1	1.00	27.3	10	75	4	11.00	12000	<del>182.86</del> 180.00
9.9	M 12x1,25	1.25	27.9	10	75	4	10.75	12100	<del>182.86</del> 180.00
9.9	M 12x1,5	1.50	27.5	10	75	4	10.50	12200	<del>182.86</del> 180.00
11.6	M 14x1	1.00	31.3	12	85	4	13.00	14000	<del>212.88</del> 210.00
11.6	M 14x1,5	1.50	32.0	12	85	4	12.50	14100	<del>212.88</del> 210.00
12.0	M 16x1,5	1.50	35.0	12	85	4	14.50	16000	<del>222.55</del> 220.00
14.0	M 18x1,5	1.50	42.5	14	90	4	16.50	18000	<del>262.55</del> 260.00
16.0	M 20x1,5	1.50	42.5	16	90	4	18.50	20000	<del>272.69</del> 270.00

P	•
M	•
K	•
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S	•
H	•
O	•

- 1) DIN 6535 HA Shank / Without Through Coolant

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

### MonoThread – Circular shank thread milling cutter

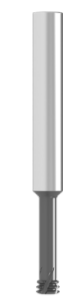
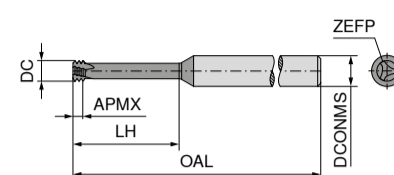
- ▲ Available on request from M1
- ▲ Profile corrected



≤ 3xD

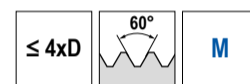


M



Solid carbide

DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS <sub>h6</sub> mm	ZEFP	50 802 ... PG W1	
								£	£
1.53	M2	0.40	39	0.80	6.0	3	3	02000	<del>92.41</del> 92.00
2.37	M3	0.50	58	1.35	9.5	6	3	03000	<del>92.41</del> 92.00
3.10	M4	0.70	58	1.95	12.5	6	3	04000	<del>92.41</del> 92.00
3.80	M5	0.80	58	2.30	16.0	6	3	05000	<del>92.41</del> 92.00
4.65	M6	1.00	58	2.70	20.0	6	3	06000	<del>92.41</del> 92.00
6.00	M8	1.25	58	3.20	24.0	6	3	08000	<del>92.41</del> 92.00
7.80	M10	1.50	64	3.80	31.5	8	3	10000	<del>115.15</del> 115.00
9.00	M12	1.75	73	4.55	37.8	10	3	12000	<del>129.44</del> 129.00



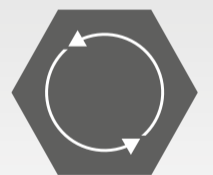
Solid carbide

DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS <sub>h6</sub> mm	ZEFP	50 803 ... PG W1	
								£	£
1.53	M2	0.40	39	1.00	10.4	3	3	02000	<del>104.00</del> 104.00
2.40	M3	0.50	39	1.30	12.5	3	3	03000	<del>99.38</del> 99.00
3.10	M4	0.70	58	1.80	16.7	6	3	04000	<del>99.38</del> 99.00
4.00	M5	0.80	58	2.10	20.8	6	3	05000	<del>99.38</del> 99.00
4.80	M6	1.00	58	2.55	25.0	6	3	06000	<del>99.38</del> 99.00
6.40	M8	1.25	64	3.15	33.5	8	3	08000	<del>123.18</del> 123.00
8.00	M10	1.50	76	3.85	41.5	8	3	10000	<del>123.18</del> 123.00

P	•
M	•
K	•
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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 Friday  
Email: techsupport.uk@ceratizit.com



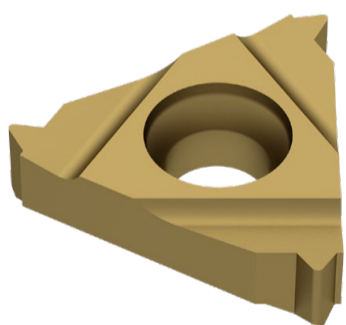
Order by 6:00 pm and get your  
guaranteed free express delivery



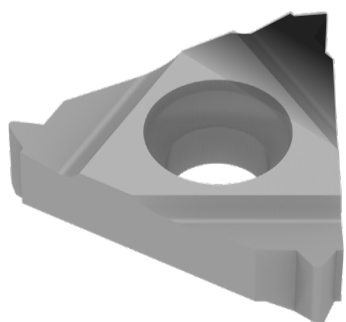
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in stock in Sheffield



# THREAD TURNING



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



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

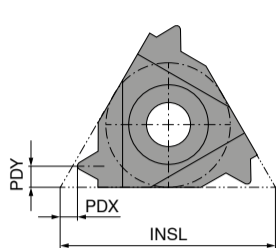


### Right hand external thread turning insert

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



WNT \ Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm	ER 71 220 ... PG X3		ER 71 220 ... PG X3	
					£	£	£	£
16 ER 0,35	0.35	16	0.8	0.4			734	<del>27.70</del> 19.39
16 ER 0,4	0.40	16	0.7	0.4			736	<del>27.70</del> 19.39
16 ER 0,5	0.50	16	0.6	0.6	140	<del>19.02</del> 13.31	740	<del>21.58</del> 15.11
16 ER 0,7	0.70	16	0.6	0.6	141	<del>21.06</del> 14.74	741	<del>22.28</del> 15.60
16 ER 0,75	0.75	16	0.6	0.6	142	<del>19.76</del> 13.83	742	<del>21.58</del> 15.11
16 ER 0,8	0.80	16	0.6	0.6	143	<del>19.76</del> 13.83	743	<del>21.58</del> 15.11
16 ER 1,0	1.00	16	0.7	0.7	144	<del>18.45</del> 12.92	744	<del>21.05</del> 14.74
16 ER 1,25	1.25	16	0.8	0.9	146	<del>18.45</del> 12.92	746	<del>21.05</del> 14.74
16 ER 1,5	1.50	16	0.8	1.0	148	<del>18.45</del> 12.92	748	<del>21.05</del> 14.74
16 ER 1,75	1.75	16	0.9	1.2	150	<del>18.45</del> 12.92	750	<del>21.05</del> 14.74
16 ER 2,0	2.00	16	1.0	1.3	152	<del>18.45</del> 12.92	752	<del>21.05</del> 14.74
16 ER 2,5	2.50	16	1.1	1.5	154	<del>18.45</del> 12.92	754	<del>21.05</del> 14.74
16 ER 3,0	3.00	16	1.2	1.6	156	<del>18.45</del> 12.92	756	<del>21.05</del> 14.74

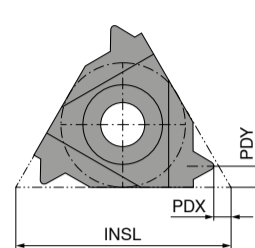
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M	○	●
K	●	○
N	●	○
S	○	○
H	○	○
O	○	○

### Right hand internal thread turning insert

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



WNT \ Performance



Designation	TP mm	INSL mm	PDX mm	PDY mm	IR 71 224 ... PG X3		IR 71 224 ... PG X3	
					£	£	£	£
16 IR 0,75	0.75	16	0.6	0.6	142	<del>23.18</del> 16.23	742	<del>25.85</del> 18.10
16 IR 1,0	1.00	16	0.6	0.7	144	<del>18.45</del> 12.92	744	<del>21.05</del> 14.74
16 IR 1,25	1.25	16	0.8	0.9			746	<del>22.45</del> 15.51
16 IR 1,5	1.50	16	0.8	1.0	148	<del>18.45</del> 12.92	748	<del>21.05</del> 14.74
16 IR 1,75	1.75	16	0.9	1.2			750	<del>25.85</del> 18.10
16 IR 2,0	2.00	16	1.0	1.3	152	<del>18.45</del> 12.92	752	<del>21.05</del> 14.74
16 IR 2,5	2.50	16	1.1	1.5	154	<del>18.45</del> 12.92	754	<del>21.05</del> 14.74
16 IR 3,0	3.00	16	1.1	1.5	156	<del>18.45</del> 12.92	756	<del>21.05</del> 14.74

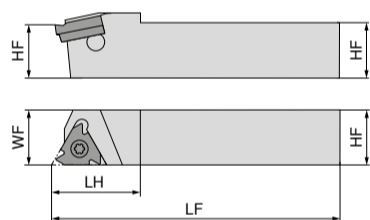
  

P	○	○
M	○	○
K	○	○
N	○	○
S	○	○
H	○	○
O	○	○

### Standard External Thread Turning Holder

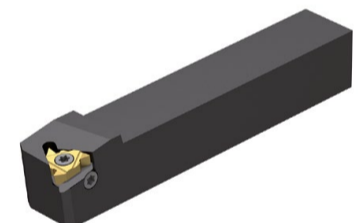
▲ Tool Holder with Approach Angle β = 1,5°

WNT \ Performance



Illustrations show right-hand versions

ISO designation	HF mm	WF mm	LF mm	LH mm	H mm	Insert	torque moment 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

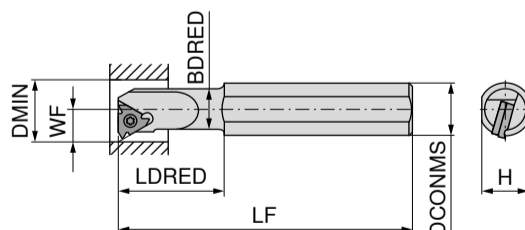


Right-hand		71 280 ... PG Y2	
	£	£	£
012	<del>135.55</del>	47.00	
016	<del>166.85</del>	58.00	
020	<del>166.85</del>	58.00	
025	<del>190.42</del>	66.00	
032	<del>209.27</del>	73.00	

### Standard Internal Thread Turning Holder

▲ Tool Holder with Approach Angle β = 1,5°

WNT \ Performance



Illustrations show right-hand versions

ISO designation	H mm	LF mm	LDRED mm	DCONMS mm	BDRED mm	WF mm	DMIN mm	Insert	torque moment Nm
SI L 0013 M16	14.0	150	32	16	13.0	10.2	16	16 ..	3,5
SI L 0016 P16	18.0	170	40	20	15.0	11.7	19	16 ..	3,5
SI L 0020 P16	18.0	170	40	20	19.5	13.7	24	16 ..	3,5
SI L 0032 S16	28.8	250	50	32	31.5	19.7	36	16 ..	3,5
SI R 0013 M16	14.0	150	32	16	13.0	10.2	16	16 ..	3,5
SI R 0016 P16	18.0	170	40	20	15.0	11.7	19	16 ..	3,5
SI R 0020 P16	18.0	170	40	20	19.5	13.7	24	16 ..	3,5
SI R 0025 R16	22.6	200	40	25	24.5	16.2	29	16 ..	3,5
SI R 0032 S16	28.8	250	50	32	31.5	19.7	36	16 ..	3,5
SI R 0040 T16	36.0	300	50	40	39.5	23.7	44	16 ..	3,5



Left-hand		71 283 ... PG Y2		Right-hand		71 282 ... PG Y2	
	£	£	£	£	£	£	£
015 <sup>1)</sup>	<del>159.12</del>	55.00				015 <sup>1)</sup>	<del>159.12</del> 55.00
016 <sup>1)</sup>	<del>169.12</del>	55.00				016 <sup>1)</sup>	<del>159.12</del> 55.00
020	<del>187.59</del>	65.00				020	<del>187.59</del> 65.00
032	<del>245.88</del>	85.00				026	<del>228.11</del> 79.00
						032	<del>245.88</del> 85.00
						040	<del>363.86</del> 126.00

1) without shim



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Email: techsupport.uk@ceratizit.com



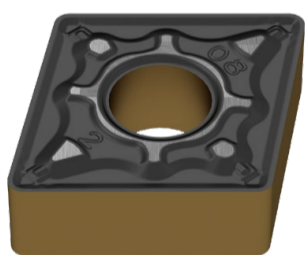
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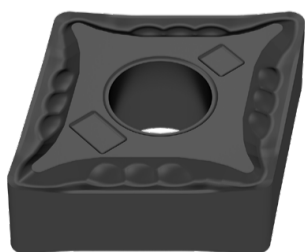
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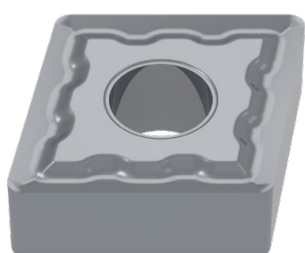
# TURNING



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



CTCM120 / CTCM130  
High performance turning of  
stainless steels.



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



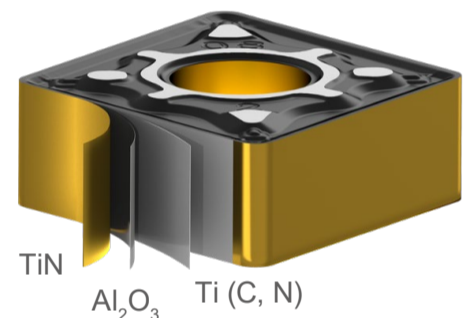
# Steel machining made easy

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

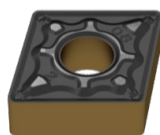


## Machining with no compromises – with the CERATIZIT ISO-P carbide grades update

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



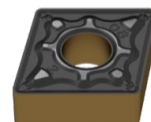
NEW



### CTCP115-P

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

NEW

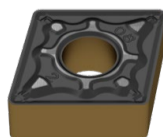


### CTCP135-P

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

DRAGONSKIN

NEW



### CTCP125-P

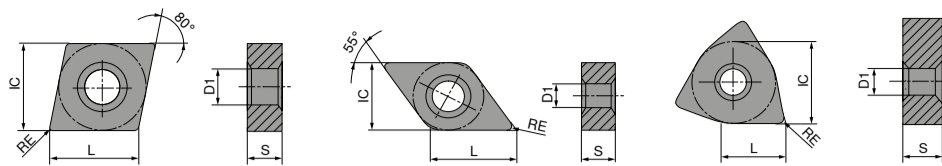
- ▲ ISO-P25
- ▲ Universal carbide grade for steel machining
- ▲ Excellent balance between toughness and elevated-temperature resistance
- ▲ High level of reliability for machining general steel
- ▲ Excellent for fluctuating cutting conditions, from finishing to roughing

DRAGONSKIN

DRAGONSKIN

CNMG / DNMG / WNMG

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



CNMG

CERATIZIT \ Performance

ISO	RE
	mm
120404EN	0.4
120408EN	0.8
120412EN	1.2
120416EN	1.6
160608EN	0.8
160612EN	1.2
160616EN	1.6

**-M50**  
CTCP115-P

DRAGONSKIN

M

76 135 ... PG 1A/08

	£	£
32801	<del>12.10</del>	9.89
33001	<del>12.10</del>	9.89
32001	<del>12.10</del>	9.89
33401	<del>12.10</del>	9.89
34201	<del>21.31</del>	15.98
34401	<del>21.31</del>	15.98
34601	<del>21.31</del>	15.98

**-M50**  
CTCP125-P

DRAGONSKIN

M

76 135 ... PG 1A/08

	£	£
52801	<del>12.10</del>	9.89
53001	<del>12.10</del>	9.89
53201	<del>12.10</del>	9.89
53401	<del>12.10</del>	9.89
54201	<del>21.31</del>	15.98
54401	<del>21.31</del>	15.98
54601	<del>21.31</del>	15.98

**-M50**  
CTCP135-P

DRAGONSKIN

M

76 135 ... PG 1A/08

	£	£
72801	<del>12.10</del>	9.89
73001	<del>12.10</del>	9.89
73201	<del>12.10</del>	9.89
73401	<del>12.10</del>	9.89
74201	<del>21.31</del>	15.98
74401	<del>21.31</del>	15.98
74601	<del>21.31</del>	15.98

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

DNMG

CERATIZIT \ Performance

ISO	RE
	mm
110404EN	0.4
110408EN	0.8
110412EN	1.2
150404EN	0.4
150408EN	0.8
150412EN	1.2
150416EN	1.6
150604EN	0.4
150608EN	0.8
150612EN	1.2
150616EN	1.6

**-M50**  
CTCP115-P

DRAGONSKIN

M

76 136 ... PG 1A/08

	£	£
30401	<del>14.97</del>	10.55
30601	<del>14.97</del>	10.55
30801	<del>14.97</del>	10.55
31601	<del>17.86</del>	12.80
31801	<del>17.86</del>	12.80
32001	<del>17.86</del>	12.80
32201	<del>17.86</del>	12.80
32801	<del>18.48</del>	13.86
33001	<del>18.48</del>	13.86
33201	<del>18.48</del>	13.86
33401	<del>18.48</del>	13.86

**-M50**  
CTCP125-P

DRAGONSKIN

M

76 136 ... PG 1A/08

	£	£
50401	<del>14.97</del>	10.55
50601	<del>14.97</del>	10.55
50801	<del>14.97</del>	10.55
51401	<del>17.86</del>	12.80
51801	<del>17.86</del>	12.80
51601	<del>17.86</del>	12.80
52201	<del>17.86</del>	12.80
52801	<del>18.48</del>	13.86
53001	<del>18.48</del>	13.86
53201	<del>18.48</del>	13.86
53401	<del>18.48</del>	13.86

**-M50**  
CTCP135-P

DRAGONSKIN

M

76 136 ... PG 1A/08

	£	£
70401	<del>14.97</del>	10.55
70601	<del>14.97</del>	10.55
70801	<del>14.97</del>	10.55
71601	<del>17.86</del>	12.80
71801	<del>17.86</del>	12.80
72001	<del>17.86</del>	12.80
72201	<del>17.86</del>	12.80
72801	<del>18.48</del>	13.86
73001	<del>18.48</del>	13.86
73201	<del>18.48</del>	13.86
73401	<del>18.48</del>	13.86

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

WNMG

CERATIZIT \ Performance

ISO	RE
	mm
060404EN	0.4
060408EN	0.8
060412EN	1.2
080404EN	0.4
080408EN	0.8
080412EN	1.2
080416EN	1.6

**-M50**  
CTCP115-P

DRAGONSKIN

M

76 139 ... PG 1A/08

	£	£
30401	<del>11.50</del>	8.63
30601	<del>11.50</del>	8.63
30801	<del>11.50</del>	8.63
31601	<del>14.47</del>	10.85
31801	<del>14.47</del>	10.85
32001	<del>14.47</del>	10.85
32201	<del>14.47</del>	10.85

**-M50**  
CTCP125-P

DRAGONSKIN

M

76 139 ... PG 1A/08

	£	£
50401	<del>11.50</del>	8.63
50601	<del>11.50</del>	8.63
50801	<del>11.50</del>	8.63
51601	<del>14.47</del>	10.85
51801	<del>14.47</del>	10.85
52001	<del>14.47</del>	10.85
52201	<del>14.47</del>	10.85

**-M50**  
CTCP135-P

DRAGONSKIN

M

76 139 ... PG 1A/08

	£	£
70401	<del>11.50</del>	8.63
70601	<del>11.50</del>	8.63
70801	<del>11.50</del>	8.63
71601	<del>14.47</del>	10.85
71801	<del>14.47</del>	10.85
72001	<del>14.47</del>	10.85
72201	<del>14.47</del>	10.85

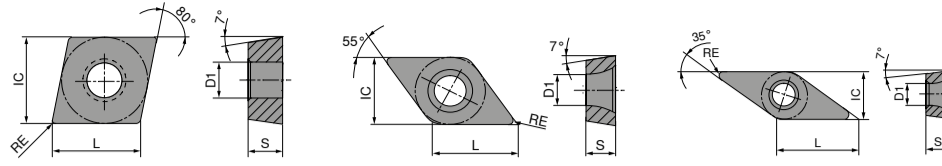
P	●	●	●
M			○
K	○	○	
N			
S			
H			
O			





CCMT / DCMT / VCMT

Designation	L	S	D1	IC
	mm	mm	mm	mm
CCMT 0602..	6.40	2.38	2.8	6.35
CCMT 09T3..	9.70	3.97	4.4	9.52
CCMT 1204..	12.90	4.76	5.5	12.70
DCMT 0702..	7.75	2.38	2.8	6.35
DCMT 0702..	11.60	3.97	4.4	9.52
DCMT 11T3..	11.60	3.97	4.4	9.52
VCMT 1604..	16.60	4.76	4.4	9.52



CCMT

CERATIZIT \ Performance

ISO	RE
	mm
060204EN	0.4
060208EN	0.8
09T304EN	0.4
09T308EN	0.8
120404EN	0.4
120408EN	0.8
120412EN	1.2

**-SM**  
CTCP115-P

DRAGONSKIN

**M**  
76 252 ... PG 1A/08

	£	£
30401	<del>8.97</del>	6.73
30601	<del>8.97</del>	6.73
31601	<del>11.20</del>	8.40
31801	<del>11.20</del>	8.40
32801	<del>15.77</del>	11.83
33001	<del>15.77</del>	11.83

**-SM**  
CTCP125-P

DRAGONSKIN

**M**  
76 252 ... PG 1A/08

	£	£
50401	<del>8.97</del>	6.73
51601	<del>11.20</del>	8.40
51801	<del>11.20</del>	8.40
52801	<del>15.77</del>	11.83
53001	<del>15.77</del>	11.83
53201	<del>15.77</del>	11.83

**-SM**  
CTCP135-P

DRAGONSKIN

**M**  
76 252 ... PG 1A/08

	£	£
70401	<del>8.97</del>	6.73
70601	<del>8.97</del>	6.73
71601	<del>11.20</del>	8.40
71801	<del>11.20</del>	8.40
72801	<del>15.77</del>	11.83
73001	<del>15.77</del>	11.83

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

DCMT

CERATIZIT \ Performance

ISO	RE
	mm
070204EN	0.4
070208EN	0.8
11T304EN	0.4
11T308EN	0.8
11T312EN	1.2

**-SM**  
CTCP115-P

DRAGONSKIN

**M**  
76 258 ... PG 1A/08

	£	£
30401	<del>8.97</del>	6.73
30601	<del>8.97</del>	6.73
31601	<del>12.63</del>	9.47
31801	<del>12.63</del>	9.47

**-SM**  
CTCP125-P

DRAGONSKIN

**M**  
76 258 ... PG 1A/08

	£	£
50401	<del>8.97</del>	6.73
50601	<del>8.97</del>	6.73
51601	<del>12.63</del>	9.47
51801	<del>12.63</del>	9.47
52001	<del>12.63</del>	9.47

**-SM**  
CTCP135-P

DRAGONSKIN

**M**  
76 258 ... PG 1A/08

	£	£
70401	<del>8.97</del>	6.73
70601	<del>8.97</del>	6.73
71601	<del>12.63</del>	9.47
71801	<del>12.63</del>	9.47

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

VCMT

CERATIZIT \ Performance

ISO	RE
	mm
160404EN	0.4
160406EN	0.6
160408EN	0.8
160412EN	1.2

**-SM**  
CTCP115-P

DRAGONSKIN

**M**  
76 278 ... PG 1A/08

	£	£
32801	<del>18.48</del>	13.86
32901	<del>18.48</del>	13.86
33001	<del>18.48</del>	13.86
33201	<del>18.48</del>	13.86

**-SM**  
CTCP125-P

DRAGONSKIN

**M**  
76 278 ... PG 1A/08

	£	£
52801	<del>18.48</del>	13.86
53001	<del>18.48</del>	13.86
53201	<del>18.48</del>	13.86

**-SM**  
CTCP135-P

DRAGONSKIN

**M**  
76 278 ... PG 1A/08

	£	£
72801	<del>18.48</del>	13.86
73001	<del>18.48</del>	13.86
73201	<del>18.48</del>	13.86

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



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# STAINLESS STEEL MACHINING MADE EASY

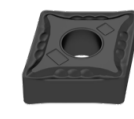
Dragonskin – new grades with the high-performance coating technology from CERATIZIT

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



### CTCM120

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

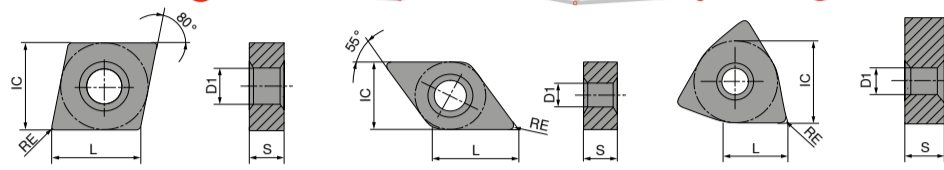


### CTCM130

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

## CNMG / DNMG / WNMG

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



## CNMG

CERATIZIT \ Performance

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

P	M	K	N	S	H	O	CTCM120		CTCM130	
							75 011 ...	PG 1A/08	75 011 ...	PG 1A/08
							£	£	£	£
							13000	<del>13.10</del> 9.89	33000	<del>13.10</del> 9.89
							13200	<del>13.10</del> 9.89	33200	<del>13.10</del> 9.89
							13400	<del>13.10</del> 9.89	33400	<del>13.10</del> 9.89

**-M30**  
CTCM120

DRAGONSKIN

M  
75 011 ... PG 1A/08

**-M30**  
CTCM130

DRAGONSKIN

M  
75 011 ... PG 1A/08

## 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	CTCM120		CTCM130	
							75 014 ...	PG 1A/08	75 014 ...	PG 1A/08
							£	£	£	£
							10600	<del>14.07</del> 10.55	30600	<del>14.07</del> 10.55
							10800	<del>14.07</del> 10.55	30800	<del>14.07</del> 10.55
							13000	<del>18.48</del> 13.86	33000	<del>18.48</del> 13.86
							13200	<del>18.48</del> 13.86	33200	<del>18.48</del> 13.86

**-M30**  
CTCM120

DRAGONSKIN

M  
75 014 ... PG 1A/08

**-M30**  
CTCM130

DRAGONSKIN

M  
75 014 ... PG 1A/08

## 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	CTCM120		CTCM130	
							75 025 ...	PG 1A/08	75 025 ...	PG 1A/08
							£	£	£	£
							10600	<del>11.50</del> 8.63	30600	<del>11.50</del> 8.63
							10800	<del>11.50</del> 8.63	30800	<del>11.50</del> 8.63
							11800	<del>14.47</del> 10.85	31800	<del>14.47</del> 10.85
							12000	<del>14.47</del> 10.85	32000	<del>14.47</del> 10.85

**-M30**  
CTCM120

DRAGONSKIN

M  
75 025 ... PG 1A/08

**-M30**  
CTCM130

DRAGONSKIN

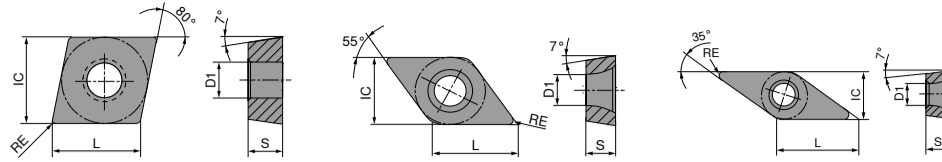
M  
75 025 ... PG 1A/08





### CCMT / DCMT / VCMT

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



### CCMT

CERATIZIT \ Performance

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

	P	M	K	N	S	H	O
060204EN	○	●	●	●	●	○	○
09T304EN	○	●	●	●	●	○	○
09T308EN	○	●	●	●	●	○	○

**-M25**  
CTCM120

DRAGONSKIN

**F**  
75 210 ... PG 1A/08

	£	£
10400	<del>8.97</del>	6.73
11600	<del>11.20</del>	8.40
11800	<del>11.20</del>	8.40

**-M25**  
CTCM130

DRAGONSKIN

**F**  
75 210 ... PG 1A/08

	£	£
30400	<del>8.97</del>	6.73
31600	<del>11.20</del>	8.40
31800	<del>11.20</del>	8.40

### DCMT

CERATIZIT \ Performance

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

	P	M	K	N	S	H	O
070202EN	○	●	●	●	●	○	○
070204EN	○	●	●	●	●	○	○
11T302EN	○	●	●	●	●	○	○
11T304EN	○	●	●	●	●	○	○
11T308EN	○	●	●	●	●	○	○

**-M25**  
CTCM120

DRAGONSKIN

**F**  
75 213 ... PG 1A/08

	£	£
10200	<del>8.97</del>	6.73
10400	<del>8.97</del>	6.73
11400	<del>12.63</del>	9.47
11600	<del>12.63</del>	9.47
11800	<del>12.63</del>	9.47

**-M25**  
CTCM130

DRAGONSKIN

**F**  
75 213 ... PG 1A/08

	£	£
30200	<del>8.97</del>	6.73
30400	<del>8.97</del>	6.73
31400	<del>12.63</del>	9.47
31600	<del>12.63</del>	9.47
31800	<del>12.63</del>	9.47

### VCMT

CERATIZIT \ Performance

ISO	RE
	mm
160404EN	0.4
160408EN	0.8

	P	M	K	N	S	H	O
160404EN	○	●	●	●	●	○	○
160408EN	○	●	●	●	●	○	○

**-M25**  
CTCM120

DRAGONSKIN

**F**  
75 219 ... PG 1A/08

	£	£
12800	<del>18.48</del>	13.86
13000	<del>18.48</del>	13.86

**-M25**  
CTCM130

DRAGONSKIN

**F**  
75 219 ... PG 1A/08

	£	£
32800	<del>18.48</del>	13.86
33000	<del>18.48</del>	13.86



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# X7-Line

HRSA and Ti  
machining  
made easy

## Grade description

# CTP X7 10/15

Degree of  
hardness

10 ISO 10

15 ISO 15

...

### Main application – material

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

**X Universal application**


### Application

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

Universal application range

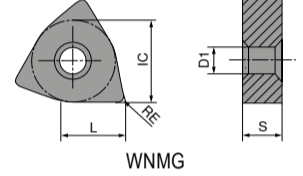
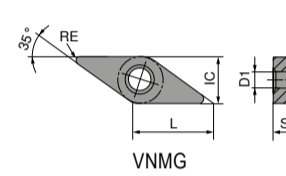
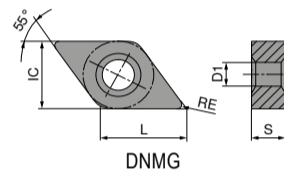
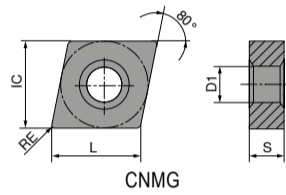
**P M K N S**

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

 Further information on the product can be found in our main catalogue → **Chapter 9, Turning tools**

## CNMG / DNMG / VNMG / WNMG

Designation	L mm	S mm	D1 mm	IC mm
CNMG 1204..	12.9	4.76	5.16	12.70
DNMG 1504..	15.5	4.76	5.16	12.70
DNMG 1506..	15.5	6.35	5.16	12.70
VNMG 1604..	16.6	4.76	3.81	9.52
WNMG 0804..	8.6	4.76	5.16	12.70



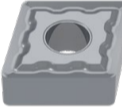
### CNMG

**UKS**

**-M34**

CTPX710

DRAGONSKIN



M

75 003 ... PG 1A/08

ISO	RE mm	62800	63000	63200	63400
120404EN	0.4	12.41	9.31		
120408EN	0.8	12.41	9.31		
120412EN	1.2	12.41	9.31		
120416EN	1.6	12.41	9.31		

P	•
M	•
K	•
N	○
S	•
H	•
O	•

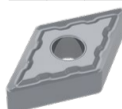
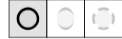
### DNMG

**UKS**

**-M34**

CTPX710

DRAGONSKIN



M

75 004 ... PG 1A/08

ISO	RE mm	61600	61800	62000	63000	63200
150404EN	0.4	17.82	13.37			
150408EN	0.8	17.82	13.37			
150412EN	1.2	17.82	13.37			
150608EN	0.8	19.52	14.64			
150612EN	1.2	19.52	14.64			

P	•
M	•
K	•
N	○
S	•
H	•
O	•

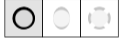
### VNMG

**UKS**

**-M34**

CTPX710

DRAGONSKIN



M

75 009 ... PG 1A/08

ISO	RE mm	61600	61800	62000
160404EN	0.4	22.50	16.94	
160408EN	0.8	22.50	16.94	
160412EN	1.2	22.50	16.94	

P	•
M	•
K	•
N	○
S	•
H	•
O	•

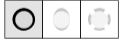
### WNMG

**UKS**

**-M34**

CTPX710

DRAGONSKIN



M

75 008 ... PG 1A/08

ISO	RE mm	61800	62000
080408EN	0.8	16.42	11.34
080412EN	1.2	16.42	11.34

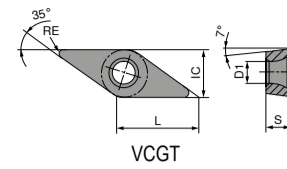
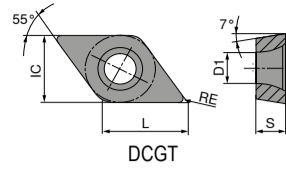
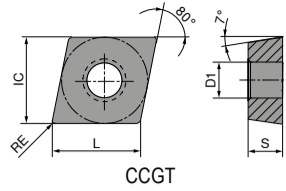
P	•
M	•
K	•
N	○
S	•
H	•
O	•





CCGT / DCGT / VCGT

Designation	L	S	D1	IC
	mm	mm	mm	mm
CCGT 0602..	6.40	2.38	2.8	6.35
CCGT 09T3..	9.70	3.97	4.4	9.52
CCGT 1204..	12.90	4.76	5.5	12.70
DCGT 0702..	7.75	2.38	2.8	6.35
DCGT 11T3..	11.60	3.97	4.4	9.52
VCGT 1103..	11.10	3.18	2.9	6.35
VCGT 1604..	16.60	4.76	4.4	9.52
VCGT 2205..	22.10	5.56	5.5	12.70



CCGT

CERATIZIT \ Performance



-25P  
CTPX710

DRAGONSKIN



M

70 248 ... PG 1A/90

ISO	RE		£	£
	mm			
060202FN	0.2	70200	<del>15.00</del>	11.25
060204FN	0.4	70400	<del>15.00</del>	11.25
09T302FN	0.2	71400	<del>15.36</del>	11.52
09T304FN	0.4	71600	<del>15.36</del>	11.52
09T308FN	0.8	71800	<del>15.36</del>	11.52
120404FN	0.4	72800	<del>19.61</del>	14.71
120408FN	0.8	73000	<del>19.61</del>	14.71

P	•
M	•
K	•
N	•
S	•
H	•
O	•

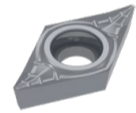
DCGT

CERATIZIT \ Performance



-25P  
CTPX710

DRAGONSKIN

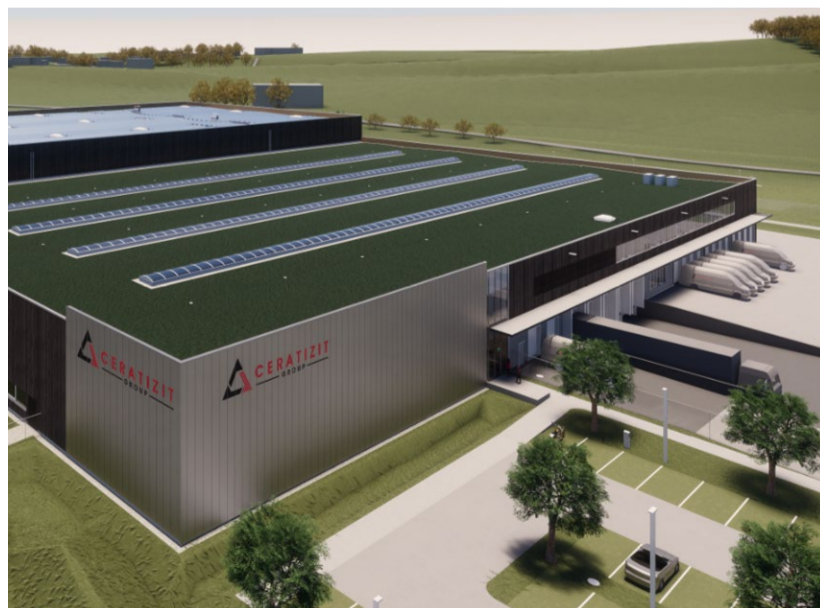


M

70 263 ... PG 1A/90

ISO	RE		£	£
	mm			
070202FN	0.2	70200	<del>13.58</del>	10.19
070204FN	0.4	70400	<del>13.58</del>	10.19
11T302FN	0.2	71400	<del>16.40</del>	12.30
11T304FN	0.4	71600	<del>16.40</del>	12.30
11T308FN	0.8	71800	<del>16.40</del>	12.30

P	•
M	•
K	•
N	•
S	•
H	•
O	•



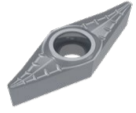
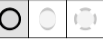
VCGT

CERATIZIT \ Performance



-25P  
CTPX710

DRAGONSKIN



M

70 282 ... PG 1A/90

ISO	RE		£	£
	mm			
110302FN	0.2	71400	<del>20.02</del>	15.02
110304FN	0.4	71600	<del>20.02</del>	15.02
160404FN	0.4	72800	<del>24.81</del>	18.61
160408FN	0.8	73000	<del>24.81</del>	18.61
160412FN	1.2	73200	<del>24.81</del>	18.61
220530FN	3.0	75000	<del>33.06</del>	24.80

P	•
M	•
K	•
N	•
S	•
H	•
O	•

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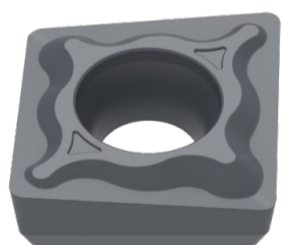
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# ECOCUT



CTPP430 – universal grade for all materials.

## The Original Multi Function Tool

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



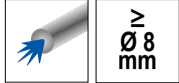


## EcoCut – Classic 1.5xD

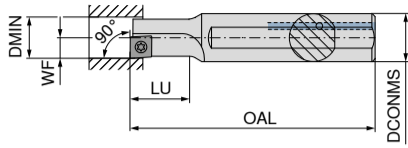
▲ Drilling and turning tool

**Scope of supply:**

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



CERATIZIT \ Performance



Illustrations show right-hand versions



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

70 805 ... PG 2B/20		70 804 ... PG 2B/20	
	£	£	£
010	<del>183.66</del>	61.00	010 <del>183.66</del> 61.00
012	<del>186.67</del>	62.00	012 <del>186.67</del> 62.00
014	<del>191.17</del>	63.00	014 <del>191.17</del> 63.00
016	<del>194.18</del>	64.00	016 <del>194.18</del> 64.00
018	<del>223.96</del>	74.00	018 <del>223.96</del> 74.00
020	<del>252.47</del>	84.00	020 <del>252.47</del> 84.00
025	<del>291.15</del>	96.00	025 <del>291.15</del> 96.00
032	<del>330.06</del>	109.00	032 <del>330.06</del> 109.00

## EcoCut – Classic 2.25xD

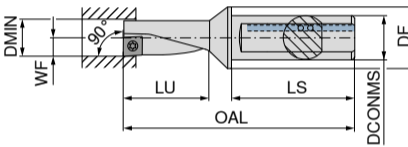
▲ Drilling and turning tool

**Scope of supply:**

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



CERATIZIT \ Performance



Illustrations show right-hand versions

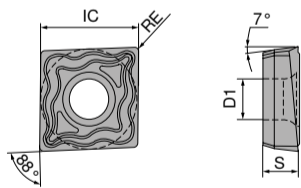


ISO designation	DMIN mm	DCONMS mm	OAL mm	LU mm	LS mm	WF mm	torque moment Nm	Insert
ECC 10 R/L 2,25D 05	10	12	69.5	22.5	42	5.0	0,7	XC.T 0502..
ECC 12 R/L 2,25D 06	12	16	78.0	27.0	45	6.0	1,0	XC.T 0602..
ECC 14 R/L 2,25D 07	14	16	83.5	31.5	45	7.0	1,2	XC.T 0703..
ECC 16 R/L 2,25D 08	16	20	94.0	36.0	50	8.0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

70 805 ... PG 2B/20		70 804 ... PG 2B/20	
	£	£	£
110	<del>273.25</del>	90.00	110 <del>273.25</del> 90.00
112	<del>280.75</del>	93.00	112 <del>280.75</del> 93.00
114	<del>286.87</del>	95.00	114 <del>286.87</del> 95.00
116	<del>292.88</del>	97.00	116 <del>292.88</del> 97.00
118	<del>322.66</del>	107.00	118 <del>322.66</del> 107.00
120	<del>351.18</del>	116.00	120 <del>351.18</del> 116.00
125	<del>407.74</del>	135.00	125 <del>407.74</del> 135.00
132	<del>458.42</del>	152.00	132 <del>458.42</del> 152.00

## XCNT

CERATIZIT \ Performance

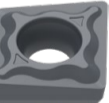


ISO designation	RE mm	S mm	D1 mm	IC mm
XCNT 050202EN	0.2	2.10	2.25	5.8
XCNT 050204EN	0.4	2.10	2.25	5.8
XCNT 060202EN	0.2	2.38	2.50	6.5
XCNT 060204EN	0.4	2.38	2.50	6.5
XCNT 070304EN	0.4	3.18	2.80	7.6
XCNT 080304EN	0.4	3.18	3.40	8.5
XCNT 09T304EN	0.4	3.97	3.40	9.6
XCNT 10T304EN	0.4	3.97	4.40	10.6
XCNT 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



-EN  
CTPP430

DRAGONSKIN



XCNT

70 386 ... PG 1D/19	
	£
923	<del>17.86</del> 13.40
903	<del>17.86</del> 13.40
924	<del>17.86</del> 13.40
904	<del>17.86</del> 13.40
905	<del>17.86</del> 13.40
906	<del>18.13</del> 13.60
907	<del>18.39</del> 13.79
908	<del>19.32</del> 14.49
938	<del>19.32</del> 14.49
910	<del>22.10</del> 16.58
940	<del>22.10</del> 16.58
912	<del>23.30</del> 17.48

P	●
M	●
K	○
N	○
S	○
H	○
O	○



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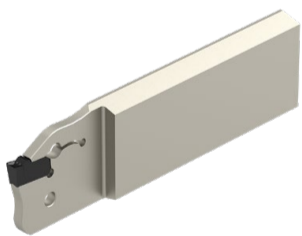
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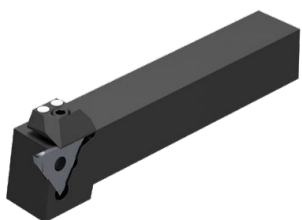
# GROOVING TOOLS



SX System – first choice system for parting off.



M1 – first choice chipbreaker for parting off.



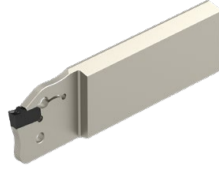
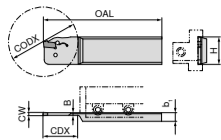
TX System – first choice grooving system for all materials and applications.





### MonoClamp – Radial Blade SX reinforced

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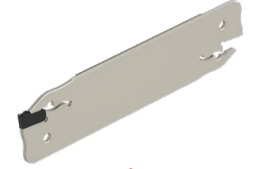
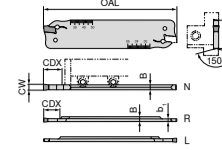
Illustrations show right-hand versions

ISO designation	CW mm	H mm	B mm	OAL mm	b <sub>1</sub> mm	CODX mm	CDX mm	for grooving inserts	70 879 ...	PG 2A/25
									£	£
XLCF R 2608-SX3	3	26	2.5	110	8	44	22	SX .3..	013 <sup>1)</sup>	<del>156.42</del> 52.00
XLCF R 3208-SX3	3	32	2.5	110	8	66	33	SX .3..	003	<del>147.08</del> 49.00
XLCF L 3208-SX3	3	32	2.5	110	8	66	33	SX .3..	203	<del>147.08</del> 49.00
XLCF L 2608-SX3	3	26	2.5	110	8	44	22	SX .3..	213 <sup>1)</sup>	<del>156.42</del> 52.00
XLCF L 3208-SX4	4	32	3.4	110	8	66	33	SX .4..	204	<del>147.08</del> 49.00
XLCF R 3208-SX4	4	32	3.4	110	8	66	33	SX .4..	004	<del>147.08</del> 49.00

1) can be used in both directions

### MonoClamp – Radial Blade SX Standard

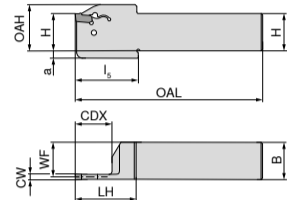
CERATIZIT \ Performance



ISO designation	CW mm	H mm	B mm	b <sub>1</sub> mm	OAL mm	CDX mm	for grooving inserts	70 884 ...	PG 2A/25
								£	£
XLCF L 2602-SX2	2	26	2.4	1.5	110	25	SX .2..	212	<del>102.16</del> 34.00
XLCF L 3202-SX2	2	32	2.4	1.5	150	25	SX .2..	202	<del>106.89</del> 35.00
XLCF R 2602-SX2	2	26	2.4	1.5	110	25	SX .2..	012	<del>102.16</del> 34.00
XLCF R 3202-SX2	2	32	2.4	1.5	150	25	SX .2..	002	<del>106.89</del> 35.00
XLCF N 2603-SX3	3	26	2.4		110	35	SX .3..	113	<del>102.16</del> 34.00
XLCF N 3203-SX3	3	32	2.4		150	50	SX .3..	103	<del>106.89</del> 35.00
XCLF N 2604-SX4	4	26	3.2		110	40	SX .4..	114	<del>102.16</del> 34.00
XCLF N 3204-SX4	4	32	3.2		150	50	SX .4..	104	<del>106.89</del> 35.00

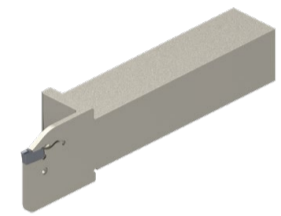
### MonoClamp – Radial Monoholder SX

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Illustrations show right-hand versions

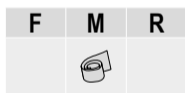
ISO designation	H mm	B mm	CW mm	WF mm	OAL mm	LH mm	I <sub>s</sub> mm	OAH mm	CDX mm	a mm
E20 R/L 0026-2020K-K-SX3	20	20	3	18.75	125	32	33	31	26	5
E16 R/L 0026-1616K-K-SX2	16	16	2	15.20	125	32	33	26	26	4
E16 R/L 0026-1616K-K-SX3	16	16	3	14.75	125	32	33	26	26	4
E20 R/L 0026-2020K-K-SX2	20	20	2	19.20	125	32	33	31	26	5
E20 R/L 0033-2020K-K-SX4	20	20	4	18.30	125	39	40	32	33	5
E25 R/L 0026-2525M-K-SX3	25	25	3	23.75	150	33		31	26	
E25 R/L 0033-2525M-K-SX4	25	25	4	23.30	150	41	42	37	33	5



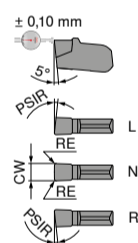
UKS Left-hand		UKS Right-hand	
70 846 ...	PG 2C/71	70 846 ...	PG 2C/71
	£	£	£
32001	<del>136.58</del> 45.00	32000	<del>136.58</del> 45.00
21601	<del>116.37</del> 38.00	21600	<del>116.37</del> 38.00
31601	<del>116.37</del> 38.00	31600	<del>116.37</del> 38.00
22001	<del>136.58</del> 45.00	22000	<del>136.58</del> 45.00
42001	<del>136.58</del> 45.00	42000	<del>136.58</del> 45.00
32501	<del>144.87</del> 48.00	32500	<del>144.87</del> 48.00
42501	<del>144.87</del> 48.00	42500	<del>144.87</del> 48.00

### Insert SX

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



CERATIZIT \ Performance



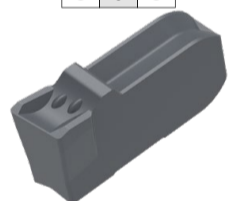
Designation	IH	CW <sub>+/-0.05</sub> mm
SX E2.00 L 6	L	2
SX E3.00 L 6	L	3
SX E4.00 L 6	L	4
SX E2.00 N 0.20	N	2
SX E3.00 N 0.20	N	3
SX E4.00 N 0.30	N	4
SX E2.00 R 6	R	2
SX E3.00 R 6	R	3
SX E4.00 R 6	R	4

P	●
M	●
K	●
N	○
S	●
H	●
O	○

UKS

-M1  
CTP1340

DRAGONSKIN



70 342 ...	PG 1C/72
	£
612	<del>13.94</del> 10.46
613	<del>14.83</del> 11.12
614	<del>15.65</del> 11.74
622	<del>14.83</del> 10.97
623	<del>15.66</del> 11.67
624	<del>16.42</del> 12.32
602	<del>13.94</del> 10.46
603	<del>14.83</del> 11.12
604	<del>15.65</del> 11.74

SX-M1

Parting / Grooving



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



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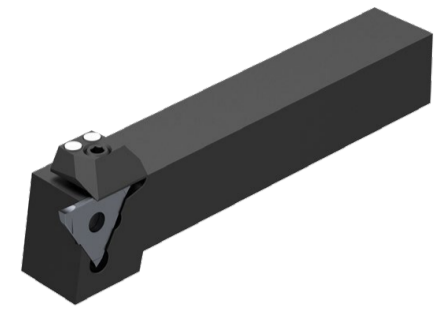
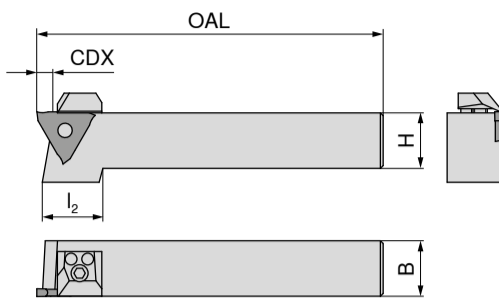


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## MonoClamp – Radial/Axial TX Grooving Holder 0°, 6 mm cutting depth

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

CERATIZIT \ Performance



Illustrations show right-hand versions

ISO designation	H mm	B $\pm 0.1$ mm	OAL mm	l <sub>2</sub> 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

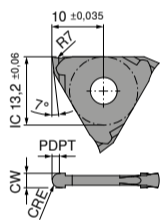
Right-hand

73 500 ...		PG Y6
£	£	
112	<del>246.07</del>	135.34
116	<del>249.62</del>	120.79
120	<del>470.32</del>	93.68
125	<del>470.23</del>	98.58
212	<del>246.07</del>	135.34
216	<del>249.62</del>	120.79
220	<del>470.32</del>	93.68
225	<del>470.23</del>	98.58
312	<del>246.07</del>	135.34
316	<del>249.62</del>	120.79
320	<del>470.32</del>	93.68
325	<del>470.23</del>	98.58
332	<del>208.34</del>	114.57

## Radial TX insert for corner recessing

- ▲ Full radius for cutting width 0.5–5.0 mm

CERATIZIT \ Performance



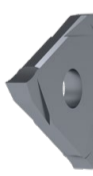
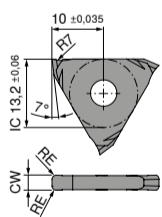
Neutral

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 ...		PG Y6
£	£	
204	<del>59.83</del>	32.47
206	<del>62.42</del>	34.33

## TX insert for fine and copy turning

CERATIZIT \ Performance



Neutral

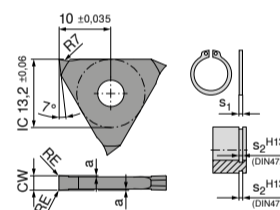
Designation	CW $\pm 0.03$ mm
TX N 0150.02.1	1.5
TX N 0200.02.1	2.0
TX N 0200.04.1	2.0
TX N 0300.06.2	3.0
TX N 0300.02.2	3.0
TX N 0300.08.2	3.0
TX N 0400.08.3	4.0
TX N 0400.02.3	4.0
TX N 0400.12.3	4.0

73 303 ...		PG Y6
£	£	
204	<del>48.55</del>	26.70
206	<del>48.55</del>	26.70
208	<del>48.55</del>	26.70
212	<del>54.20</del>	28.16
210	<del>54.20</del>	28.16
214	<del>54.20</del>	28.16
218	<del>54.63</del>	28.40
216	<del>54.63</del>	28.40
220	<del>54.63</del>	28.40

## TX insert for circlip grooves

- ▲ For circlip grooves according to DIN 471 / 472

CERATIZIT \ Performance



Neutral

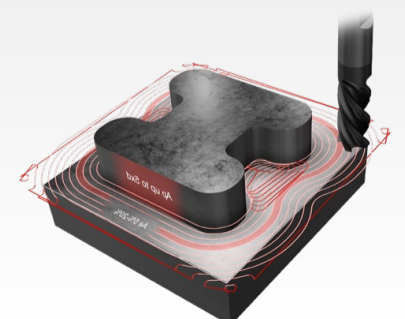
Designation	CW $\pm 0.05$ mm	a $\pm 0.02$ mm
TX N 0050.00.1	0.57	0.07
TX N 0060.00.1	0.67	0.07
TX N 0070.00.1	0.77	0.08
TX N 0080.00.1	0.87	0.08
TX N 0090.00.1	0.97	0.08
TX N 0100.00.1	1.07	0.09
TX N 0110.00.1	1.24	0.15
TX N 0130.00.1	1.44	0.15
TX N 0160.00.1	1.74	0.20
TX N 0185.00.1	1.99	0.20
TX N 0215.00.2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

73 300 ...		PG Y6
£	£	
204	<del>38.80</del>	21.39
206	<del>38.80</del>	21.39
208	<del>38.80</del>	21.39
210	<del>38.80</del>	21.39
212	<del>38.80</del>	21.39
214	<del>38.80</del>	21.39
216	<del>38.80</del>	21.39
218	<del>38.80</del>	21.39
220	<del>38.80</del>	21.39
222	<del>38.80</del>	21.39
224	<del>38.80</del>	21.39
226	<del>38.80</del>	21.39
228	<del>44.37</del>	24.40

## 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.







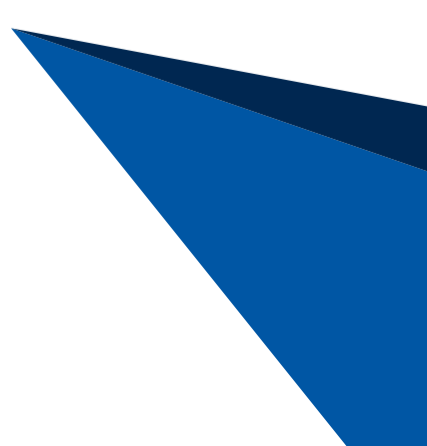
# MINIATURE TURNING TOOLS



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.

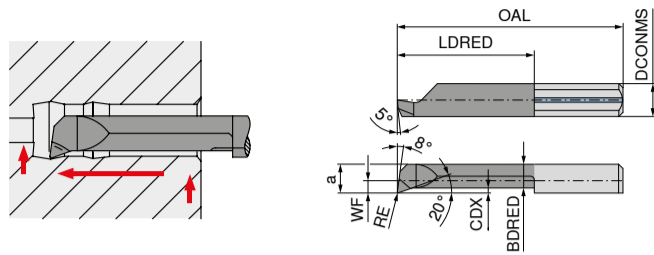


### UltraMini – Inserts for internal turning and profiling

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance



TiN



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

Right-hand

73 004 ...	PG Y5	£	£
520		<del>58.27</del>	32.05
521		<del>63.52</del>	34.94
522		<del>62.98</del>	34.64
531		<del>66.98</del>	36.84
530		<del>73.48</del>	40.41
532		<del>79.37</del>	40.35
541		<del>66.04</del>	36.32
540		<del>66.04</del>	36.32
542		<del>70.20</del>	38.71
545		<del>82.51</del>	45.38
546		<del>98.37</del>	49.70
551		<del>62.40</del>	34.37
552		<del>66.57</del>	36.61
550		<del>68.25</del>	37.59
553		<del>77.20</del>	42.46
554		<del>84.88</del>	46.68
556		<del>98.52</del>	54.19
561		<del>65.34</del>	35.94
560		<del>71.14</del>	39.13
562		<del>75.65</del>	41.61
563		<del>85.97</del>	47.28
564		<del>98.52</del>	54.19
565		<del>112.04</del>	61.62
572		<del>72.50</del>	39.92
573		<del>80.75</del>	49.36
574		<del>91.01</del>	50.06
575		<del>104.04</del>	57.72
576		<del>116.80</del>	64.29
577		<del>124.68</del>	66.88
578		<del>133.25</del>	73.34

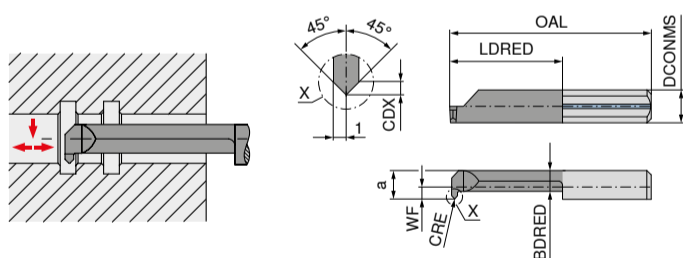
P	●
M	●
K	●
N	●
S	○
H	○
O	●

### UltraMini – Inserts for internal turning and chamfering

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance



TiN



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

Right-hand

73 006 ...	PG Y5	£	£
551		<del>59.70</del>	32.84
550		<del>66.45</del>	36.55
570		<del>60.33</del>	38.13

P	●
M	●
K	●
N	●
S	○
H	○
O	●



## Stock around the clock!



### Tool Supply 24/7

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

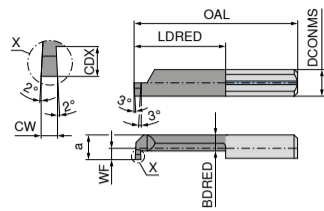
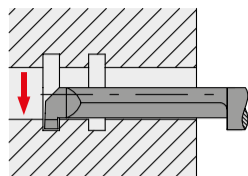




### UltraMini – Inserts for Internal Grooving



WNT \ Performance

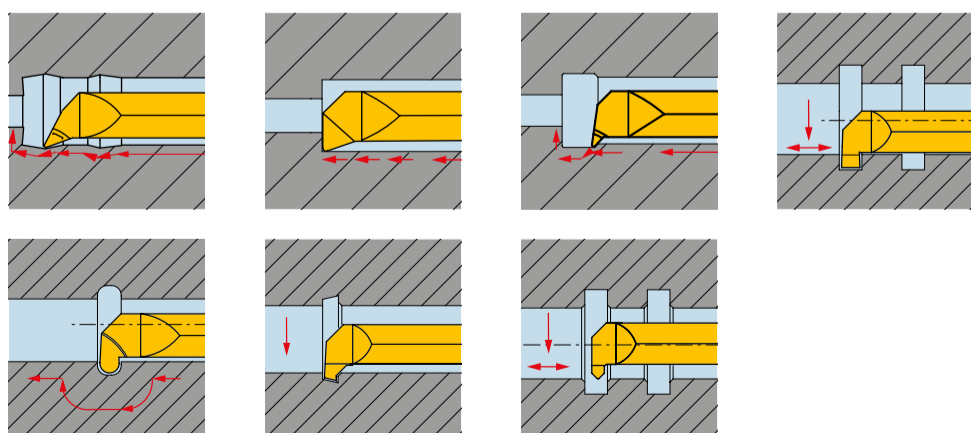


ISO designation	DCONMS <sub>16</sub>	WF	DMIN	a	OAL	LDRED	CDX	BRED	CW	Right-hand	
										73 002 ...	PG Y5
R 004.0100-10	4	1.5	4.0	3.5	24	10	0.8	2.4	1.0	540	58.93 32.36
R 004.0100-16	4	1.5	4.0	3.5	30	16	0.8	2.4	1.0	541	71.85 39.52
R 004.0100-20	4	1.5	4.0	3.5	34	20	0.8	2.4	1.0	542	77.44 42.59
R 005.0100-10	5	1.9	5.0	4.4	25	10	1.0	3.3	1.0	650	57.98 31.83
R 005.0150-10	5	1.9	5.0	4.4	25	10	1.0	3.3	1.5	654	59.92 32.96
R 005.0200-10	5	1.9	5.0	4.4	25	10	1.0	3.3	2.0	658	59.92 32.96
R 005.0100-15	5	1.9	5.0	4.4	30	15	1.0	3.3	1.0	651	67.90 37.29
R 005.0150-15	5	1.9	5.0	4.4	30	15	1.0	3.3	1.5	655	67.90 37.29
R 005.0200-15	5	1.9	5.0	4.4	30	15	1.0	3.3	2.0	659	67.90 37.29
R 005.0150-20	5	1.9	5.0	4.4	35	20	1.0	3.3	1.5	552	76.76 42.22
R 005.0100-20	5	1.9	5.0	4.4	35	20	1.0	3.3	1.0	551	76.76 42.22
R 005.0200-20	5	1.9	5.0	4.4	35	20	1.0	3.3	2.0	553	76.76 42.22
R 005.0100-25	5	1.9	5.0	4.4	40	25	1.0	3.3	1.0	652	85.05 46.78
R 005.0150-25	5	1.9	5.0	4.4	40	25	1.0	3.3	1.5	656	85.05 46.78
R 005.0200-25	5	1.9	5.0	4.4	40	25	1.0	3.3	2.0	750	85.05 47.08
R 005.0100-30	5	1.9	5.0	4.4	45	30	1.0	3.3	1.0	653	94.66 52.06
R 005.0150-30	5	1.9	5.0	4.4	45	30	1.0	3.3	1.5	657	94.66 52.06
R 005.0200-30	5	1.9	5.0	4.4	45	30	1.0	3.3	2.0	751	95.38 52.46
R 005.0100-35	5	1.9	5.0	4.4	50	35	1.0	3.3	1.0	680	103.32 56.83
R 006.0100-10	6	2.3	6.0	5.3	25	10	1.8	3.4	1.0	660	58.95 32.42
R 006.0150-10	6	2.3	6.0	5.3	25	10	1.8	3.4	1.5	664	58.95 31.05
R 006.0200-10	6	2.3	6.0	5.3	25	10	1.8	3.4	2.0	668	58.95 32.42
R 006.0100-15	6	2.3	6.0	5.3	30	15	1.8	3.4	1.0	661	68.35 37.59
R 006.0150-15	6	2.3	6.0	5.3	30	15	1.8	3.4	1.5	665	68.35 37.59
R 006.0200-15	6	2.3	6.0	5.3	30	15	1.8	3.4	2.0	669	68.35 37.59
R 006.0150-22	6	2.3	6.0	5.3	37	22	1.8	3.4	1.5	562	77.38 42.52
R 006.0100-22	6	2.3	6.0	5.3	37	22	1.8	3.4	1.0	561	77.38 42.52
R 006.0200-22	6	2.3	6.0	5.3	37	22	1.8	3.4	2.0	563	77.38 42.52
R 006.0100-25	6	2.3	6.0	5.3	40	25	1.8	3.4	1.0	662	85.68 47.08
R 006.0150-25	6	2.3	6.0	5.3	40	25	1.8	3.4	1.5	666	85.68 47.08
R 006.0200-25	6	2.3	6.0	5.3	40	25	1.8	3.4	2.0	760	85.68 47.08
R 006.0150-30	6	2.3	6.0	5.3	45	30	1.8	3.4	1.5	667	95.38 52.46
R 006.0100-30	6	2.3	6.0	5.3	45	30	1.8	3.4	1.0	663	95.38 52.46
R 006.0200-30	6	2.3	6.0	5.3	45	30	1.8	3.4	2.0	761	95.38 52.46
R 006.0150-35	6	2.3	6.0	5.3	50	35	1.8	3.4	1.5	684	103.32 56.83
R 006.0100-35	6	2.3	6.0	5.3	50	35	1.8	3.4	1.0	682	103.32 56.83
R 006.0100-42	6	2.3	6.0	5.3	57	42	1.8	3.4	1.0	685	116.94 63.81
R 007.0200-10	7	2.7	6.8	6.3	25	10	2.5	3.8	2.0	670	59.92 32.96
R 007.0100-10	7	2.7	6.8	6.3	25	10	2.5	3.8	1.0	570	59.92 32.96
R 007.0150-10	7	2.7	6.8	6.3	25	10	2.5	3.8	1.5	575	59.92 32.96
R 007.0150-15	7	2.7	6.8	6.3	30	15	2.5	3.8	1.5	576	60.98 37.99
R 007.0100-15	7	2.7	6.8	6.3	30	15	2.5	3.8	1.0	571	60.98 37.99
R 007.0200-15	7	2.7	6.8	6.3	30	15	2.5	3.8	2.0	671	66.96 36.33
R 007.0200-22	7	2.7	6.8	6.3	37	22	2.5	3.8	2.0	672	78.98 43.40
R 007.0100-22	7	2.7	6.8	6.3	37	22	2.5	3.8	1.0	572	78.98 43.40
R 007.0150-22	7	2.7	6.8	6.3	37	22	2.5	3.8	1.5	577	78.98 43.40
R 007.0150-25	7	2.7	6.8	6.3	40	25	2.5	3.8	1.5	578	86.54 47.58
R 007.0100-25	7	2.7	6.8	6.3	40	25	2.5	3.8	1.0	573	86.54 47.58
R 007.0200-25	7	2.7	6.8	6.3	40	25	2.5	3.8	2.0	673	86.54 46.89
R 007.0150-30	7	2.7	6.8	6.3	45	30	2.5	3.8	1.5	579	98.99 51.64
R 007.0100-30	7	2.7	6.8	6.3	45	30	2.5	3.8	1.0	574	97.98 53.35
R 007.0200-30	7	2.7	6.8	6.3	45	30	2.5	3.8	2.0	674	94.94 50.06
R 007.0100-35	7	2.7	7.0	6.3	50	35	2.5	3.8	1.0	688	106.23 58.43
R 007.0150-35	7	2.7	7.0	6.3	50	35	2.5	3.8	1.5	690	106.23 58.43
R 007.0200-35	7	2.7	7.0	6.3	50	35	2.5	3.8	2.0	692	106.23 58.43
R 007.0150-40	7	2.7	7.0	6.3	55	40	2.5	3.8	1.5	702	117.98 64.79
R 007.0100-40	7	2.7	7.0	6.3	55	40	2.5	3.8	1.0	700	117.98 64.79
R 007.0100-45	7	2.7	7.0	6.3	60	45	2.5	3.8	1.0	712	127.96 70.38
R 007.0100-50	7	2.7	7.0	6.3	65	50	2.5	3.8	1.0	714	136.84 75.25

P	●
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K	●
N	●
S	○
H	○
O	●

### Internal turning and profiling, grooving and chamfering

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



Miniature turning tools guide (Main catalogue 2023)

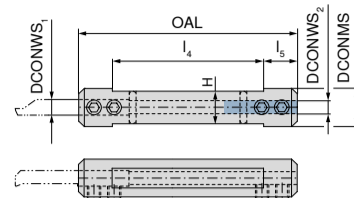
Cutting Data	56-59	Broaching – Recommendations for Correct Use	60
Symbol explanation, coatings and thread types	61		

### UltraMini – Standard tool holder for cutting inserts

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

Scope of supply:  
Tool holder with allen key

WNT \ Performance

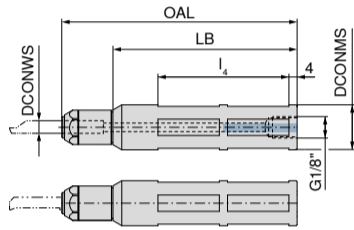


Designation	DCONWS <sub>1</sub>	DCONWS <sub>2</sub>	DCONMS	OAL	l <sub>4</sub>	l <sub>5</sub>	H	73 080 ...		PG Y5
								£	£	
645.0012-D	4	5	12	75	55	10	10.3	163	<del>249.68</del>	120.82
645.0016-D	4	5	16	75	55	10	14.0	164	<del>230.74</del>	126.91
645.0020-D	4	5	20	90	70	10	18.0	165	<del>248.47</del>	136.66
676.0016-D	6	7	16	75	55	10	14.0	166	<del>230.74</del>	126.91
676.0020-D	6	7	20	90	70	10	18.0	167	<del>248.47</del>	136.66

### UltraMini – Quick change tool holder for cutting inserts

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

WNT \ Performance



Designation	DCONWS	DCONMS <sub>16</sub>	OAL	LB	l <sub>4</sub>	73 089 ...		PG Y5
						£	£	
UM600H.0012.4	4	12.00	115	90	64	124	<del>414.67</del>	228.07
UM600H.0016.4	4	16.00	115	90	64	164	<del>376.24</del>	206.92
UM600H.001905.4	4	19.05	115	90	64	194	<del>403.69</del>	222.03
UM600H.0020.4	4	20.00	115	90	64	204	<del>398.20</del>	219.01
UM600H.0022.4	4	22.00	115	90	64	224	<del>405.96</del>	222.78
UM600H.0025.4	4	25.00	115	90	64	254	<del>413.30</del>	227.32
UM600H.00254.4	4	25.40	115	90	64	264	<del>421.54</del>	231.85
UM600H.0028.4	4	28.00	115	90	64	284	<del>421.54</del>	231.85
UM600H.0012.5	5	12.00	115	90	64	125	<del>414.67</del>	228.07
UM600H.0016.5	5	16.00	115	90	64	165	<del>376.24</del>	206.92
UM600H.001905.5	5	19.05	115	90	64	195	<del>403.69</del>	222.03
UM600H.0020.5	5	20.00	115	90	64	205	<del>398.20</del>	219.01
UM600H.0022.5	5	22.00	115	90	64	225	<del>405.96</del>	222.78
UM600H.0025.5	5	25.00	115	90	64	255	<del>413.30</del>	227.32
UM600H.00254.5	5	25.40	115	90	64	265	<del>421.54</del>	231.85
UM600H.0028.5	5	28.00	115	90	64	285	<del>421.54</del>	231.85
UM600H.0012.6	6	12.00	115	90	64	126	<del>414.67</del>	228.07
UM600H.0016.6	6	16.00	115	90	64	166	<del>376.24</del>	206.92
UM600H.001905.6	6	19.05	115	90	64	196	<del>403.69</del>	222.03
UM600H.0020.6	6	20.00	115	90	64	206	<del>398.20</del>	219.01
UM600H.0022.6	6	22.00	115	90	64	226	<del>405.96</del>	222.78
UM600H.0025.6	6	25.00	115	90	64	256	<del>413.30</del>	227.32
UM600H.00254.6	6	25.40	115	90	64	266	<del>421.54</del>	231.85
UM600H.0028.6	6	28.00	115	90	64	286	<del>421.54</del>	231.85
UM600H.0012.7	7	12.00	115	90	64	127	<del>414.67</del>	228.07
UM600H.0016.7	7	16.00	115	90	64	167	<del>376.24</del>	206.92
UM600H.001905.7	7	19.05	115	90	64	197	<del>403.69</del>	222.03
UM600H.0020.7	7	20.00	115	90	64	207	<del>398.20</del>	219.01
UM600H.0022.7	7	22.00	115	90	64	227	<del>405.96</del>	222.78
UM600H.0025.7	7	25.00	115	90	64	257	<del>413.30</del>	227.32
UM600H.00254.7	7	25.40	115	90	64	267	<del>421.54</del>	231.85
UM600H.0028.7	7	28.00	115	90	64	287	<del>421.54</del>	231.85

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

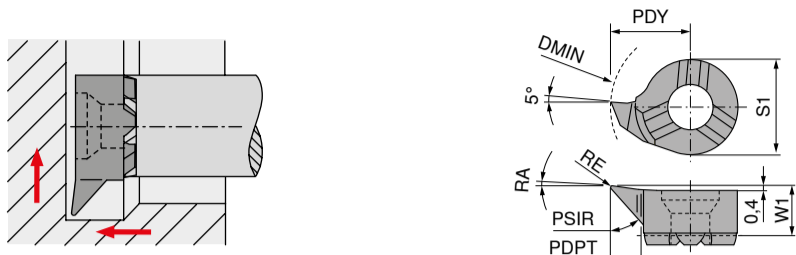
### MiniCut – Internal undercut insert

▲ CDX =  $a_{pmax}$

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

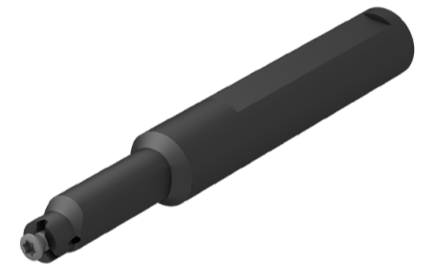
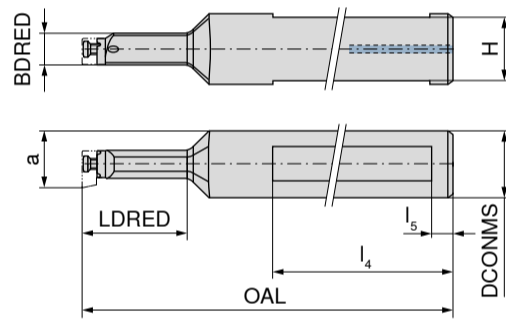
Right-hand

73 326 ...	PG Y5
010	£ 29.89
012	£ 25.97
423	£ 29.19
323	£ 25.28
530	£ 25.97
540	£ 29.89

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### MiniCut – Steel Tool holder

WNT \ Performance



Designation	a	DCONMS <sub>r7</sub>	OAL	l <sub>4</sub>	LDRED	BDRED	H	l <sub>5</sub>
8,00/16.N.12.1,0	7.8	16	80	60	12	15.0	5	
8,00/16.N.22.1,0	7.8	16	90	60	22	7.0	15.0	
11,00/16.N.16.2,3	10.7	16	97	60	16	14.5	5	
11,00/16.N.29.2,3	10.7	16	110	60	29	9.5	14.5	
14,00/16.N.18.4,0	13.8	16	100	60	18	11.0	14.5	
14,00/16.N.38.4,0	13.8	16	120	60	38	11.0	14.5	

73 522 ...	PG Y5
012	£ 133.75
122	£ 153.48
016	£ 133.75
129	£ 153.48
018	£ 153.48
138	£ 153.48



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## SOLID CARBIDE MILLING CUTTERS



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



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



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



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



# FIRST CHOICE FOR HIGH PERFORMANCE SOLID CARBIDE MILLING APPLICATIONS



### Optimised core geometry

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

### Latest Dragonskin coating

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

### Improved chip clearance

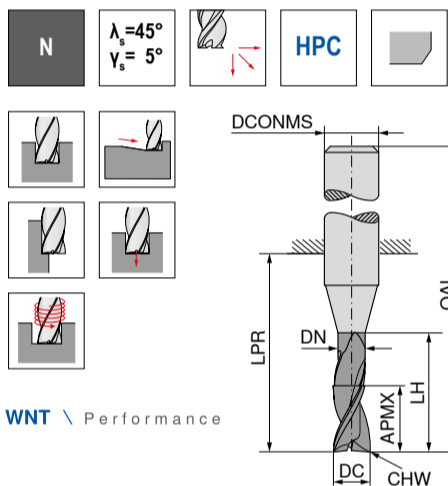
- ▲ Smoother processing
- ▲ Lower forces during chip formation
- ▲ Reduced heat generation

### Expanded product range

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



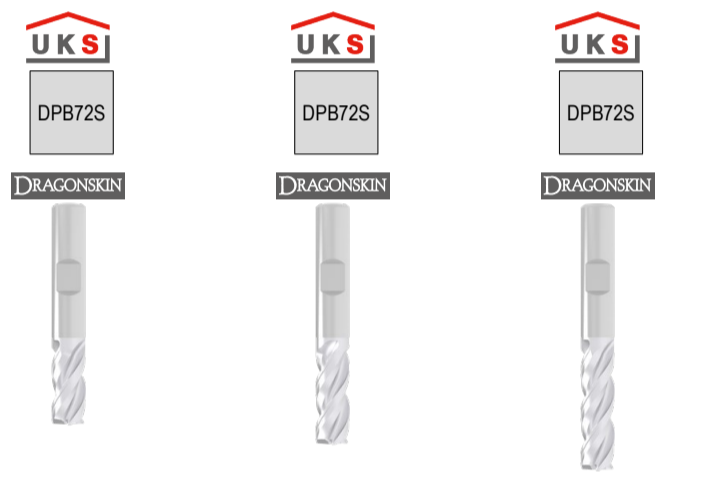
## SilverLine – End milling cutter



WNT \ Performance

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

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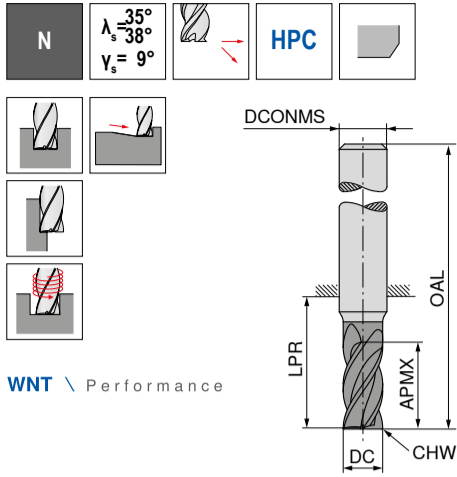


~DIN 6527	~DIN 6527	~DIN 6527
50 966 ... PG V0/5A	50 966 ... PG V0/5A	50 966 ... PG V0/5A
£	£	£
04100	73.50	51.45
05100	73.50	51.45
06100	76.40	53.50
08100	86.84	60.79
10100	137.28	96.10
12100	192.40	134.74
14100	237.72	166.40
16100	287.74	201.42
18100	397.04	277.91
20100	486.50	340.55
03200	76.20	53.35
03700	76.20	53.35
04200	73.50	51.45
04700	76.20	53.35
05200	73.50	51.45
05700	79.90	55.99
06200	77.35	54.15
06700	92.00	65.09
07200	92.00	65.09
07700	92.00	65.09
08200	90.30	63.21
08700	154.97	108.48
09200	154.97	108.48
09700	154.97	108.48
10200	152.13	106.49
10400	171.86	120.30
12200	206.02	144.21
12400	233.25	163.28
14200	271.72	190.20
14400	302.10	211.47
16200	461.06	322.74
16400	466.10	326.33
18200	475.27	332.69
18400	601.07	420.75
20200	554.54	388.16
20400	604.00	485.80





SilverLine – End milling cutter



DC <sub>is</sub>	APMX	LPR	OAL	DCONMS <sub>h6</sub>	CHW	ZEPF	50 972 ...	PG V0/5A	50 973 ...	PG V0/5A	50 972 ...	PG V0/5A	50 973 ...	PG V0/5A	
mm	mm	mm	mm	mm	mm			£	£	£	£	£	£	£	
3.0	5	14	50	6	0.1	4	03100	<del>63.07</del>	44.15	03100	<del>63.07</del>	44.15	03200	<del>63.07</del>	44.15
3.0	8	21	57	6	0.1	4	03600	<del>63.07</del>	44.15	03600	<del>63.07</del>	44.15	03700	<del>63.07</del>	44.15
3.5	8	18	54	6	0.1	4	04100	<del>63.07</del>	44.15	04100	<del>63.07</del>	44.15	04200	<del>63.07</del>	44.15
3.5	11	21	57	6	0.1	4	04600	<del>64.39</del>	45.07	04600	<del>64.39</del>	45.07	04700	<del>64.39</del>	45.07
4.0	8	18	54	6	0.1	4	05100	<del>64.39</del>	45.07	05100	<del>64.39</del>	45.07	05200	<del>64.39</del>	45.07
4.0	11	21	57	6	0.1	4	05600	<del>62.29</del>	43.60	05600	<del>62.29</del>	43.60	05700	<del>62.29</del>	43.60
4.5	9	18	54	6	0.1	4	06100	<del>62.29</del>	43.60	06100	<del>62.29</del>	43.60	06200	<del>62.29</del>	43.60
4.5	13	21	57	6	0.1	4	06600	<del>62.29</del>	43.60	06600	<del>62.29</del>	43.60	06700	<del>62.29</del>	43.60
5.0	9	18	54	6	0.1	4	07100	<del>82.82</del>	57.97	07100	<del>82.82</del>	57.97	07200	<del>82.82</del>	57.97
5.0	13	21	57	6	0.1	4	07600	<del>82.82</del>	57.97	07600	<del>82.82</del>	57.97	07700	<del>82.82</del>	57.97
5.5	10	18	54	6	0.1	4	08100	<del>82.82</del>	57.97	08100	<del>82.82</del>	57.97	08200	<del>82.82</del>	57.97
5.5	13	21	57	6	0.1	4	08600	<del>82.82</del>	57.97	08600	<del>82.82</del>	57.97	08700	<del>82.82</del>	57.97
6.0	10	18	54	6	0.1	4	09100	<del>108.10</del>	75.67	09100	<del>108.10</del>	75.67	09200	<del>108.10</del>	75.67
6.0	13	21	57	6	0.1	4	09600	<del>108.10</del>	75.67	09600	<del>108.10</del>	75.67	09700	<del>108.10</del>	75.67
7.0	12	22	58	8	0.2	4	10100	<del>108.10</del>	75.67	10100	<del>108.10</del>	75.67	10200	<del>108.10</del>	75.67
7.0	21	27	63	8	0.2	4	10600	<del>108.10</del>	75.67	10600	<del>108.10</del>	75.67	10700	<del>108.10</del>	75.67
8.0	12	22	58	8	0.2	4	11100	<del>170.86</del>	119.60	11100	<del>170.86</del>	119.60	11200	<del>170.86</del>	119.60
8.0	21	27	63	8	0.2	4	11600	<del>170.86</del>	119.60	11600	<del>170.86</del>	119.60	11700	<del>170.86</del>	119.60
9.0	14	26	66	10	0.2	4	12100	<del>170.86</del>	119.60	12100	<del>170.86</del>	119.60	12200	<del>170.86</del>	119.60
9.0	22	32	72	10	0.2	4	12600	<del>170.86</del>	119.60	12600	<del>170.86</del>	119.60	12700	<del>170.86</del>	119.60
10.0	14	26	66	10	0.2	4	13100	<del>219.57</del>	153.70	13100	<del>219.57</del>	153.70	13200	<del>219.57</del>	153.70
10.0	22	32	72	10	0.2	4	13600	<del>219.57</del>	153.70	13600	<del>219.57</del>	153.70	13700	<del>219.57</del>	153.70
11.0	16	28	73	12	0.3	4	14100	<del>271.23</del>	189.86	14100	<del>271.23</del>	189.86	14200	<del>271.23</del>	189.86
11.0	26	38	83	12	0.3	4	14600	<del>271.23</del>	189.86	14600	<del>271.23</del>	189.86	14700	<del>271.23</del>	189.86
12.0	16	28	73	12	0.3	4	15100	<del>271.23</del>	189.86	15100	<del>271.23</del>	189.86	15200	<del>271.23</del>	189.86
12.0	26	38	83	12	0.3	4	15600	<del>271.23</del>	189.86	15600	<del>271.23</del>	189.86	15700	<del>271.23</del>	189.86
14.0	16	28	73	14	0.3	4	16100	<del>271.23</del>	189.86	16100	<del>271.23</del>	189.86	16200	<del>271.23</del>	189.86
14.0	26	38	83	14	0.3	4	16600	<del>271.23</del>	189.86	16600	<del>271.23</del>	189.86	16700	<del>271.23</del>	189.86
15.0	22	34	82	16	0.3	4	17100	<del>368.80</del>	258.16	17100	<del>368.80</del>	258.16	17200	<del>368.80</del>	258.16
15.0	36	44	92	16	0.3	4	17600	<del>368.80</del>	258.16	17600	<del>368.80</del>	258.16	17700	<del>368.80</del>	258.16
16.0	22	34	82	16	0.3	4	18100	<del>368.80</del>	258.16	18100	<del>368.80</del>	258.16	18200	<del>368.80</del>	258.16
16.0	36	44	92	16	0.3	4	18600	<del>368.80</del>	258.16	18600	<del>368.80</del>	258.16	18700	<del>368.80</del>	258.16
17.0	22	34	82	18	0.3	4	19100	<del>418.48</del>	292.94	19100	<del>418.48</del>	292.94	19200	<del>418.48</del>	292.94
17.0	36	44	92	18	0.3	4	19600	<del>418.48</del>	292.94	19600	<del>418.48</del>	292.94	19700	<del>418.48</del>	292.94
18.0	22	34	82	18	0.3	4	20100	<del>418.48</del>	292.94	20100	<del>418.48</del>	292.94	20200	<del>418.48</del>	292.94
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									

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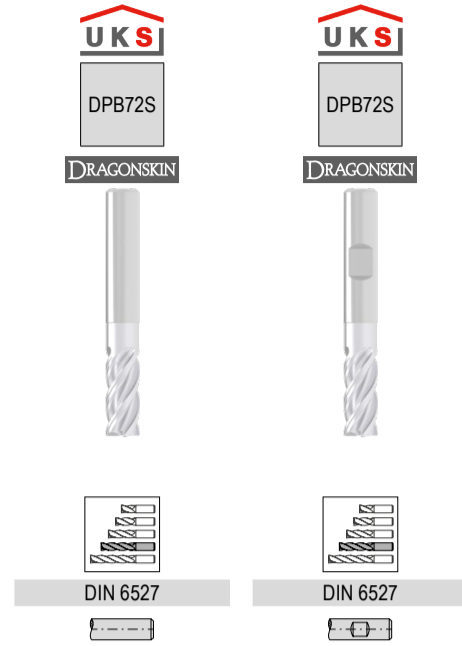
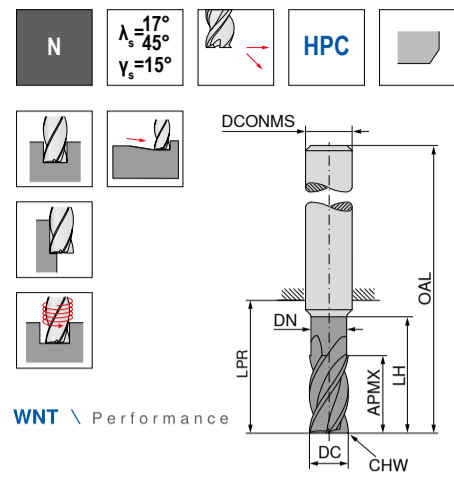
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### SilverLine – End milling cutter

▲ Especially for high-volume milling

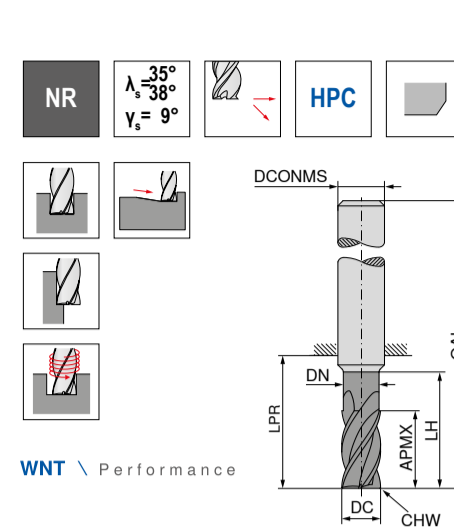


DC <sub>r8</sub> mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> mm	CHW mm	ZEFP	50 976 ... PG V0/5A		50 977 ... PG V0/5A			
									£	£	£	£		
3	8	2.8	13	21	57	6	0.1	4	03200	<del>88.00</del>	61.66	03200	<del>88.00</del>	61.66
4	11	3.8	17	21	57	6	0.1	4	04200	<del>88.00</del>	61.66	04200	<del>88.00</del>	61.66
5	13	4.8	19	21	57	6	0.1	4	05200	<del>88.00</del>	61.66	05200	<del>88.00</del>	61.66
6	13	5.8	19	21	57	6	0.1	4	06200	<del>92.55</del>	64.79	06200	<del>92.55</del>	64.79
8	21	7.7	25	27	63	8	0.2	4	08200	<del>106.10</del>	74.27	08200	<del>106.10</del>	74.27
10	22	9.7	30	32	72	10	0.2	4	10200	<del>189.26</del>	127.58	10200	<del>189.26</del>	127.58
12	26	11.6	36	38	83	12	0.3	4	12200	<del>246.06</del>	172.87	12200	<del>246.06</del>	172.87
14	26	13.6	36	38	83	14	0.3	4	14200	<del>269.68</del>	254.58	14200	<del>269.68</del>	254.58
16	36	15.5	42	44	92	16	0.3	4	16200	<del>461.24</del>	322.87	16200	<del>461.24</del>	322.87
18	36	17.5	42	44	92	18	0.3	4	18200	<del>636.72</del>	445.70	18200	<del>636.72</del>	445.70
20	41	19.5	52	54	104	20	0.3	4	20200	<del>662.81</del>	463.97	20200	<del>662.81</del>	463.97

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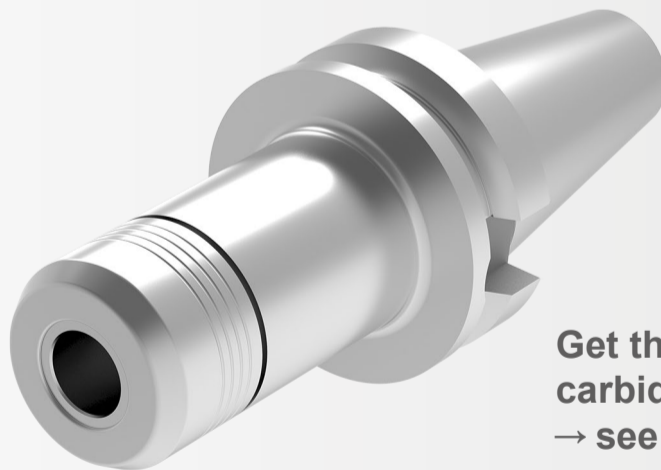
### SilverLine – Rough milling cutter

▲ With roughing profile



DC <sub>d11</sub> mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> mm	CHW mm	ZEFP	50 979 ... PG V0/5A		
									£	£	
3.0	8	2.8	13	21	57	6	0.1	4	03200	<del>181.60</del>	127.12
3.5	11	3.3	17	21	57	6	0.1	4	03700	<del>181.60</del>	127.12
4.0	11	3.8	17	21	57	6	0.1	4	04200	<del>181.60</del>	127.12
4.5	13	4.3	19	21	57	6	0.1	4	04700	<del>181.60</del>	127.12
5.0	13	4.8	19	21	57	6	0.1	4	05200	<del>181.60</del>	127.12
5.5	13	5.3	19	21	57	6	0.1	4	05700	<del>181.60</del>	127.12
6.0	13	5.8	19	21	57	6	0.1	4	06200	<del>181.60</del>	127.12
7.0	21	6.7	25	27	63	8	0.2	4	07200	<del>195.62</del>	136.93
8.0	21	7.7	25	27	63	8	0.2	4	08200	<del>195.62</del>	136.93
9.0	22	8.7	30	32	72	10	0.2	4	09200	<del>205.52</del>	143.86
10.0	22	9.7	30	32	72	10	0.2	4	10200	<del>205.52</del>	143.86
11.0	26	10.6	36	38	83	12	0.3	4	11200	<del>286.92</del>	200.84
12.0	26	11.6	36	38	83	12	0.3	4	12200	<del>286.92</del>	200.84
14.0	26	13.6	36	38	83	14	0.3	4	14200	<del>410.72</del>	287.50
15.0	36	14.5	42	44	92	16	0.3	4	15200	<del>410.72</del>	287.50
16.0	36	15.5	42	44	92	16	0.3	4	16200	<del>410.72</del>	287.50
17.0	36	16.5	42	44	92	18	0.3	4	17200	<del>480.72</del>	336.50
18.0	36	17.5	42	44	92	18	0.3	4	18200	<del>480.72</del>	336.50
19.0	41	18.5	52	54	104	20	0.3	4	19200	<del>646.95</del>	452.87
20.0	41	19.5	52	54	104	20	0.3	4	20200	<del>646.95</del>	452.87

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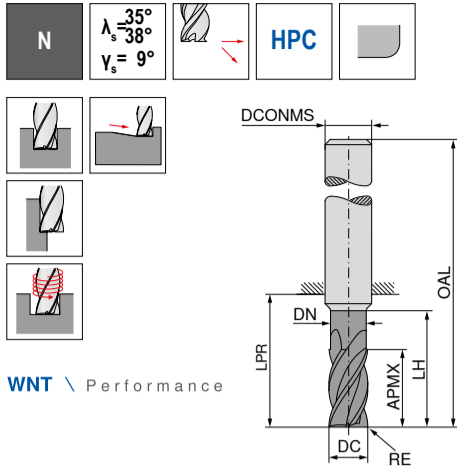


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→ see page 81

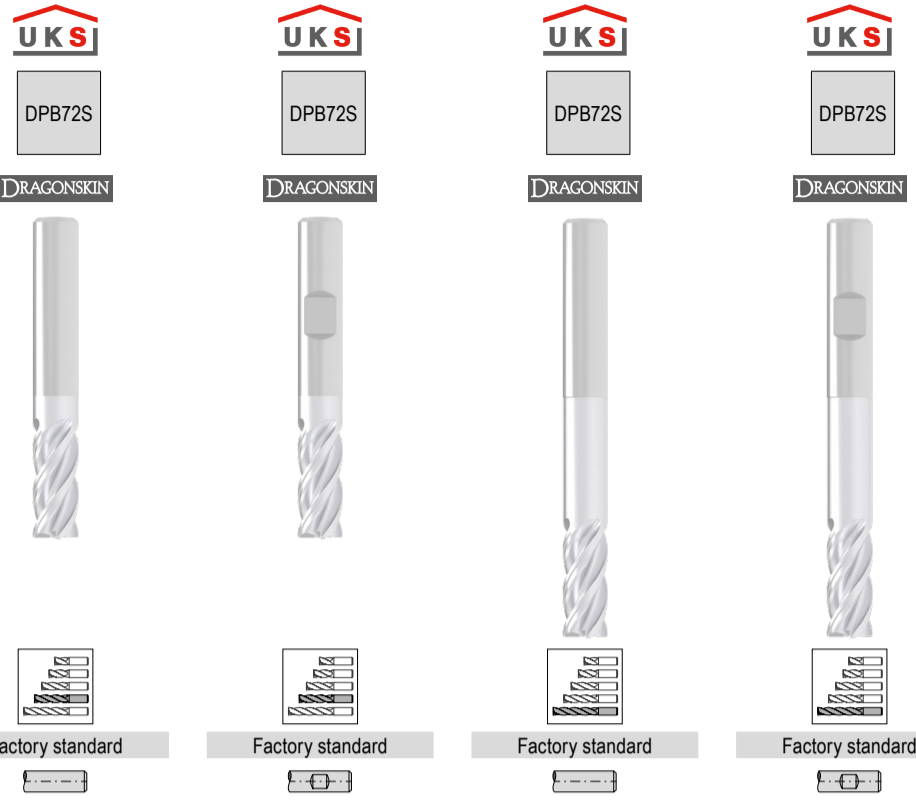




SilverLine – End milling cutter with corner radius

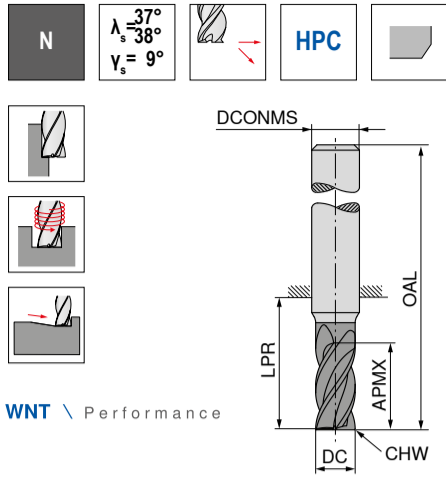


WNT \ Performance

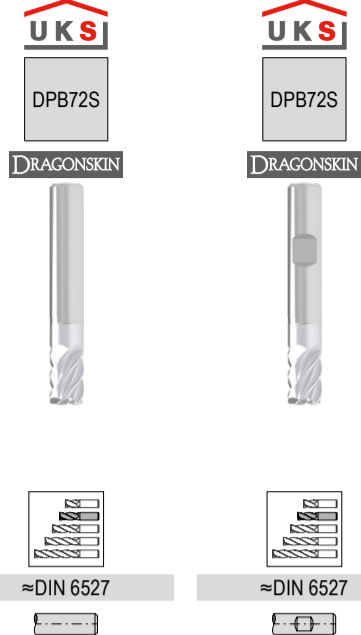


DC	RE	APMX	DN	LH	LPR	OAL	DCONMS	ZEFP	50 970 ...	PG V0/5A	50 971 ...	PG V0/5A	50 970 ...	PG V0/5A	50 971 ...	PG V0/5A
mm	mm	mm	mm	mm	mm	mm	mm		£	£	£	£	£	£	£	£
3	0.10	8.0	2.8	13	21	57	6	4	03201	<del>85.01</del> 59.51	03201	<del>85.01</del> 59.51				
3	0.40	8.0	2.8	13	21	57	6	4	03204	<del>85.01</del> 59.51	03204	<del>85.01</del> 59.51				
3	0.50	8.0	2.8	13	21	57	6	4	03205	<del>85.01</del> 59.51	03205	<del>85.01</del> 59.51				
3	1.00	8.0	2.8	13	21	57	6	4	03210	<del>85.01</del> 59.51	03210	<del>85.01</del> 59.51				
3	0.50	6.5	2.8	15	22	58	6	4					03405	<del>99.91</del> 69.94	03405	<del>99.91</del> 69.94
3	0.30	6.5	2.8	15	22	58	6	4					03403	<del>99.91</del> 69.94	03403	<del>99.91</del> 69.94
3	0.80	6.5	2.8	15	22	58	6	4					03408	<del>99.91</del> 69.94	03408	<del>99.91</del> 69.94
4	0.40	11.0	3.8	17	21	57	6	4	04204	<del>95.01</del> 59.51	04204	<del>95.01</del> 59.51				
4	0.10	11.0	3.8	17	21	57	6	4	04201	<del>95.01</del> 59.51	04201	<del>95.01</del> 59.51				
4	0.50	11.0	3.8	17	21	57	6	4	04205	<del>95.01</del> 59.51	04205	<del>95.01</del> 59.51				
4	1.00	11.0	3.8	17	21	57	6	4	04210	<del>95.01</del> 59.51	04210	<del>95.01</del> 59.51				
4	0.50	8.5	3.8	20	26	62	6	4					04405	<del>99.91</del> 69.94	04405	<del>99.91</del> 69.94
4	0.40	8.5	3.8	20	26	62	6	4					04404	<del>99.91</del> 69.94	04404	<del>99.91</del> 69.94
4	0.80	8.5	3.8	20	26	62	6	4					04408	<del>99.91</del> 69.94	04408	<del>99.91</del> 69.94
5	1.00	13.0	4.8	19	21	57	6	4	05210	<del>86.39</del> 60.47	05210	<del>86.39</del> 60.47				
5	0.10	13.0	4.8	19	21	57	6	4	05201	<del>86.39</del> 60.47	05201	<del>86.39</del> 60.47				
5	0.50	13.0	4.8	19	21	57	6	4	05205	<del>86.39</del> 60.47	05205	<del>86.39</del> 60.47				
5	0.80	10.5	4.8	25	34	70	6	4					05408	<del>101.49</del> 71.04	05408	<del>101.49</del> 71.04
5	0.50	10.5	4.8	25	34	70	6	4					05405	<del>101.49</del> 71.04	05405	<del>101.49</del> 71.04
6	1.00	13.0	5.8	19	21	57	6	4	06210	<del>84.39</del> 59.01	06210	<del>84.39</del> 59.01				
6	0.10	13.0	5.8	19	21	57	6	4	06201	<del>84.39</del> 59.01	06201	<del>84.39</del> 59.01				
6	0.50	13.0	5.8	19	21	57	6	4	06205	<del>84.39</del> 59.01	06205	<del>84.39</del> 59.01				
6	1.50	13.0	5.8	19	21	57	6	4	06215	<del>84.39</del> 59.01	06215	<del>84.39</del> 59.01				
6	0.80	13.0	5.8	30	34	70	6	4					06408	<del>101.49</del> 71.04	06408	<del>101.49</del> 71.04
6	0.60	13.0	5.8	30	34	70	6	4					06406	<del>101.49</del> 71.04	06406	<del>101.49</del> 71.04
6	1.00	13.0	5.8	30	34	70	6	4					06410	<del>101.49</del> 71.04	06410	<del>101.49</del> 71.04
8	0.50	21.0	7.7	25	27	63	8	4	08205	<del>105.69</del> 73.98	08205	<del>105.69</del> 73.98				
8	0.15	21.0	7.7	25	27	63	8	4	08202	<del>105.69</del> 73.98	08202	<del>105.69</del> 73.98				
8	1.00	21.0	7.7	25	27	63	8	4	08210	<del>105.69</del> 73.98	08210	<del>105.69</del> 73.98				
8	1.50	21.0	7.7	25	27	63	8	4	08215	<del>105.69</del> 73.98	08215	<del>105.69</del> 73.98				
8	2.00	21.0	7.7	25	27	63	8	4	08220	<del>105.69</del> 73.98	08220	<del>105.69</del> 73.98				
8	1.50	17.0	7.7	40	44	80	8	4					08415	<del>122.88</del> 86.02	08415	<del>122.88</del> 86.02
8	0.80	17.0	7.7	40	44	80	8	4					08408	<del>122.88</del> 86.02	08408	<del>122.88</del> 86.02
8	1.00	17.0	7.7	40	44	80	8	4					08410	<del>122.88</del> 86.02	08410	<del>122.88</del> 86.02
8	2.00	17.0	7.7	40	44	80	8	4					08420	<del>122.88</del> 86.02	08420	<del>122.88</del> 86.02
10	0.15	22.0	9.7	30	32	72	10	4	10202	<del>132.07</del> 92.45	10202	<del>132.07</del> 92.45				
10	0.50	22.0	9.7	30	32	72	10	4	10205	<del>132.07</del> 92.45	10205	<del>132.07</del> 92.45				
10	1.00	22.0	9.7	30	32	72	10	4	10210	<del>132.07</del> 92.45	10210	<del>132.07</del> 92.45				
10	1.50	22.0	9.7	30	32	72	10	4	10215	<del>132.07</del> 92.45	10215	<del>132.07</del> 92.45				
10	2.00	22.0	9.7	30	32	72	10	4	10220	<del>132.07</del> 92.45	10220	<del>132.07</del> 92.45				
10	1.50	21.0	9.7	50	54	94	10	4					10415	<del>151.99</del> 106.39	10415	<del>151.99</del> 106.39
10	0.50	21.0	9.7	50	54	94	10	4					10405	<del>151.99</del> 106.39	10405	<del>151.99</del> 106.39
10	1.00	21.0	9.7	50	54	94	10	4					10410	<del>151.99</del> 106.39	10410	<del>151.99</del> 106.39
10	2.00	21.0	9.7	50	54	94	10	4					10420	<del>151.99</del> 106.39	10420	<del>151.99</del> 106.39
12	0.20	26.0	11.6	36	38	83	12	4	12202	<del>203.88</del> 142.72	12202	<del>203.88</del> 142.72				
12	0.50	26.0	11.6	36	38	83	12	4	12205	<del>203.88</del> 142.72	12205	<del>203.88</del> 142.72				
12	1.00	26.0	11.6	36	38	83	12	4	12210	<del>203.88</del> 142.72	12210	<del>203.88</del> 142.72				
12	1.50	26.0	11.6	36	38	83	12	4	12215	<del>203.88</del> 142.72	12215	<del>203.88</del> 142.72				
12	2.00	26.0	11.6	36	38	83	12	4	12220	<del>203.88</del> 142.72	12220	<del>203.88</del> 142.72				
12	3.00	26.0	11.6	36	38	83	12	4	12230	<del>203.88</del> 142.72	12230	<del>203.88</del> 142.72				
12	4.00	26.0	11.6	36	38	83	12	4	12240	<del>203.88</del> 142.72	12240	<del>203.88</del> 142.72				
12	2.00	25.0	11.6	60	64	109	12	4					12420	<del>230.79</del> 161.55	12420	<del>230.79</del> 161.55
12	0.50	25.0	11.6	60	64	109	12	4					12405	<del>230.79</del> 161.55	12405	<del>230.79</del> 161.55
12	1.00	25.0	11.6	60	64	109	12	4					12410	<del>230.79</del> 161.55	12410	<del>230.79</del> 161.55
12	1.50	25.0	11.6	60	64	109	12	4					12415	<del>230.79</del> 161.55	12415	<del>230.79</del> 161.55
12	3.00	25.0	11.6	60	64	109	12	4					12430	<del>230.79</del> 161.55	12430	<del>230.79</del> 161.55
12	4.00	25.0	11.6	60	64	109	12	4					12440	<del>230.79</del> 161.55	12440	<del>230.79</del> 161.55
14	0.30	26.0	13.6	36	38	83	14	4	14203	<del>308.37</del> 215.86	14203	<del>308.37</del> 215.86				
14	1.00	26.0	13.6	36	38	83	14	4	14210	<del>308.37</del> 215.86	14210	<del>308.37</del> 215.86				
14	2.00	26.0	13.6	36	38	83	14	4	14220	<del>308.37</del> 215.86	14220	<del>308.37</del> 215.86				
14	3.00	26.0	13.6	36	38	83	14	4	14230	<del>308.37</del> 215.86	14230	<del>308.37</del> 215.86				
14	4.00	26.0	13.6	36	38	83	14	4	14240	<del>308.37</del> 215.86	14240	<del>308.37</del> 215.86				
14	3.00	29.0	13.6	70	74	119	14	4					14430	<del>345.85</del> 242.10	14430	<del>345.85</del> 242.10
14	1.00	29.0	13.6	70	74	119	14	4					14410	<del>345.85</del> 242.10	14410	<del>345.85</del> 242.10
14	2.00	29.0	13.6	70	74	119	14	4					14420	<del>345.85</del> 242.10	14420	<del>345.85</del> 242.10
14	4.00	29.0	13.6	70	74	119	14	4					14440	<del>345.85</del> 242.10	14440	<del>345.85</del> 242.10
16	1.00	36.0	15.5	42	44	92	16	4	16210	<del>308.37</del> 215.86	16210	<del>308.37</del> 215.86				
16	0.30	36.0	15.5	42	44	92	16	4	16203	<del>308.37</del> 215.86	16203	<del>308.37</del> 215.86				
16	2.00	36.0	15.5	42	44	92	16	4	16220	<del>308.37</del> 215.86	16220	<del>308.37</del> 215.86				
16	3.00	36.0	15.5	42	44	92	16	4	16230	<del>308.37</del> 215.86	16230	<del>308.37</del> 215.86				
16	4.00	36.0	15.5	42	44	92	16	4	16240	<del>308.37</del> 215.86	16240	<del>308.37</del> 215.86				
16	3.00	33.0	15.5	80	84	132	16	4					16430	<del>379.36</del> 265.55	16430	<del>379.36</del> 265.55
16	1.00	33.0	15.5	80	84	132	16	4					16410	<del>379.36</del> 265.55	16410	<del>379.36</del> 265.55
16	2.00	33.0	15.5	80	84	132	16	4					16420	<del>379.36</del> 265.55	16420	<del>379.36</del> 265.55
16	4.00	33.0	15.5	80	84	132	16	4					16440	<del>379.36</del> 265.55	16440	<del>379.36</del> 265.55
18	1.00	36.0	17.5	42	44	92	18	4	18210	<del>410.22</del> 287.15	18210	<del>410.22</del> 287.15				
18	2.00	36.0	17.5	42	44	92	18	4	18220	<del>410.22</del> 287.15	18220	<del>410.22</del> 287.15				

SilverLine – End milling cutter



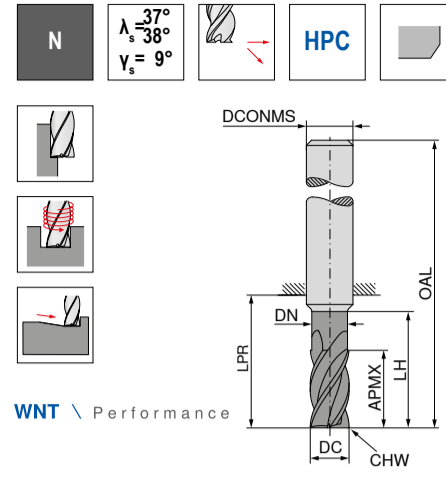
WNT \ Performance



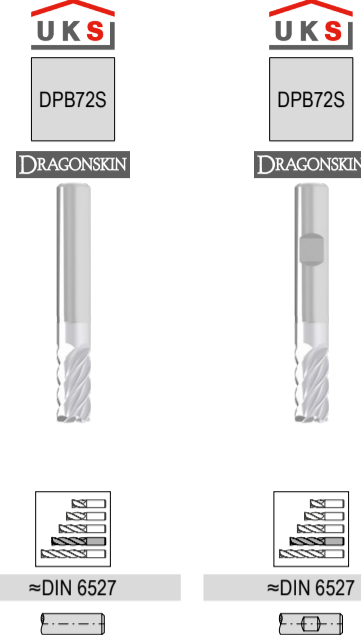
DC <sub>es</sub>	APMX	LPR	OAL	DCONMS <sub>h6</sub>	α°	ZEPF	50 993 ... PG V0/5A	50 995 ... PG V0/5A
mm	mm	mm	mm	mm			£	£
6	10	18	54	6	45	5	06100	51.60 36.18
8	12	22	58	8	45	5	08100	68.78 48.09
10	14	26	66	10	45	5	10100	89.65 62.76
12	16	28	73	12	45	5	12100	144.32 99.20
16	22	34	82	16	45	5	16100	224.66 157.43
20	26	42	92	20	45	5	20100	346.92 242.84

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SilverLine – End milling cutter



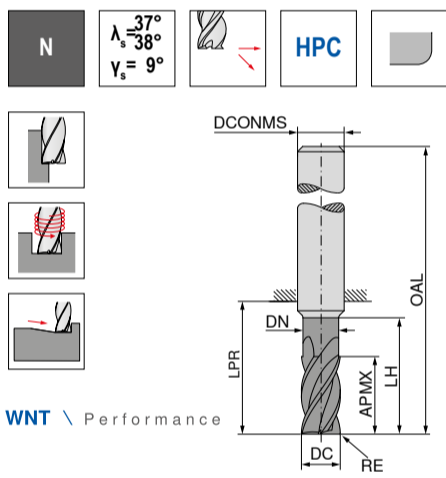
WNT \ Performance



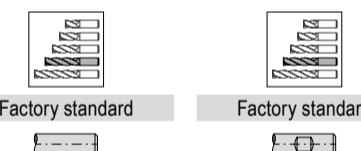
DC <sub>es</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	α°	ZEPF	50 994 ... PG V0/5A	50 996 ... PG V0/5A
mm	mm	mm	mm	mm	mm	mm			£	£
6	13	5.8	19	21	57	6	45	5	06200	51.40 35.83
8	21	7.7	25	27	63	8	45	5	08200	68.84 48.89
10	22	9.7	30	32	72	10	45	5	10200	105.83 71.56
12	26	11.6	36	38	83	12	45	5	12200	184.45 87.12
16	36	15.5	42	44	92	16	45	5	16200	269.15 202.41
20	41	19.5	52	54	104	20	45	5	20200	386.57 276.90

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SilverLine – End milling cutter with corner radius



WNT \ Performance

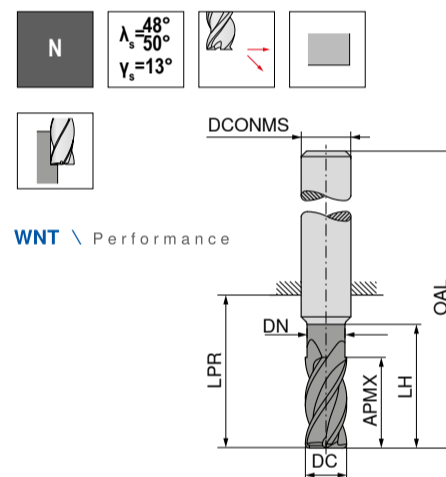


DC <sub>es</sub>	RE <sub>±0.05</sub>	APMX	LPR	OAL	DCONMS <sub>h6</sub>	ZEPF	50 997 ... PG V0/5A	50 998 ... PG V0/5A
mm	mm	mm	mm	mm	mm		£	£
6	0.2	13	21	57	6	5	06202	73.65 51.56
6	0.5	13	21	57	6	5	06205	73.65 51.56
6	1.0	13	21	57	6	5	06210	73.65 51.56
8	0.2	21	27	63	8	5	08202	92.44 64.71
8	0.5	21	27	63	8	5	08205	92.44 64.71
8	1.0	21	27	63	8	5	08210	92.44 64.71
8	1.5	21	27	63	8	5	08215	92.44 64.71
10	0.2	22	32	72	10	5	10202	115.43 80.80
10	0.5	22	32	72	10	5	10205	115.43 80.80
10	1.0	22	32	72	10	5	10210	115.43 80.80
10	1.5	22	32	72	10	5	10215	115.43 80.80
10	1.6	22	32	72	10	5	10216	115.43 80.80
10	2.0	22	32	72	10	5	10220	115.43 80.80
12	0.3	26	38	83	12	5	12203	178.28 124.80
12	0.5	26	38	83	12	5	12205	178.28 124.80
12	1.0	26	38	83	12	5	12210	178.28 124.80
12	1.5	26	38	83	12	5	12215	178.28 124.80
12	1.6	26	38	83	12	5	12216	178.28 124.80
12	2.0	26	38	83	12	5	12220	178.28 124.80
12	2.5	26	38	83	12	5	12225	178.28 124.80
16	0.3	36	44	92	16	5	16203	269.71 188.80
16	0.5	36	44	92	16	5	16205	269.71 188.80
16	1.0	36	44	92	16	5	16210	269.71 188.80
16	1.5	36	44	92	16	5	16215	269.71 188.80
16	1.6	36	44	92	16	5	16216	269.71 188.80
16	2.0	36	44	92	16	5	16220	269.71 188.80
16	2.5	36	44	92	16	5	16225	269.71 188.80
16	3.0	36	44	92	16	5	16230	269.71 188.80
20	0.3	41	54	104	20	5	20203	489.94 282.76
20	0.5	41	54	104	20	5	20205	489.94 282.76
20	1.0	41	54	104	20	5	20210	489.94 282.76
20	1.5	41	54	104	20	5	20215	489.94 282.76
20	1.6	41	54	104	20	5	20216	489.94 282.76
20	2.0	41	54	104	20	5	20220	489.94 282.76
20	2.5	41	54	104	20	5	20225	489.94 282.76
20	3.0	41	54	104	20	5	20230	489.94 282.76
20	4.0	41	54	104	20	5	20240	489.94 282.76

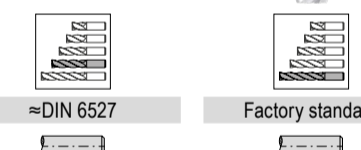
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SilverLine – High Accuracy Finish Milling Cutter

- ▲ max. taper of 0.008 mm for high precision and parallelism of vertical walls
- ▲ Tool with cutting edge correction



WNT \ Performance



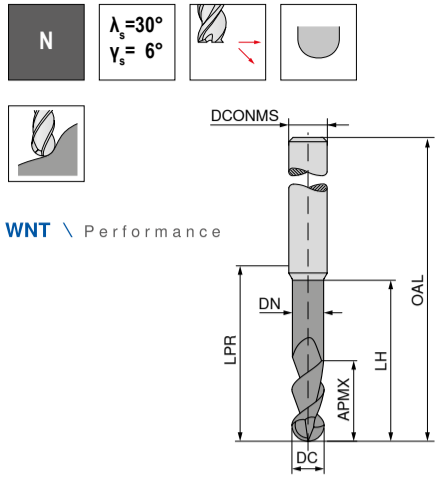
DC <sub>es</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	ZEPF	50 991 ... PG V0/5A	50 991 ... PG V0/5A
mm	mm	mm	mm	mm	mm	mm		£	£
6	13	5.6	19	21	57	6	6	06700	93.86 65.66
6	10	5.8	18	22	58	6	6	06200	93.86 65.70
6	13	5.8	27	31	67	6	6	06400	127.26 89.08
6	13	5.8	36	40	76	6	6	06900	158.97 111.28
6	15	5.6	42	44	80	6	6	90000	127.24 89.05
8	19	7.6	25	27	63	8	6	08700	107.74 75.42
8	13	7.7	24	28	64	8	6	08200	107.36 75.15
8	17	7.7	36	40	76	8	6	08400	157.43 110.20
8	17	7.7	48	53	89	8	6	08900	166.76 137.75
8	20	7.6	62	64	100	8	6	90100	157.22 110.05
10	22	9.6	30	32	72	10	6	10700	184.56 129.19
10	16	9.7	30	34	74	10	6	10200	185.66 129.54
10	21	9.7	45	49	89	10	6	10400	235.91 165.14
10	25	9.6	58	60	100	10	6	10900	235.35 164.68
10	21	9.7	60	64	104	10	6	90200	204.83 206.38
12	26	11.5	36	38	83	12	6	12700	250.18 175.07
12	19	11.6	36	40	85	12	6	12200	250.76 175.53
12	25	11.6	54	58	103	12	6	12400	265.16 255.61
12	30	11.5	73	75	120	12	6	12900	264.67 255.27
12	25	11.6	72	76	121	12	6	90300	256.26 319.40
16	32	15.0	42	44	92	16	6	16700	466.35 326.45
16	25	15.5	48	52	100	16	6	16200	466.53 326.57
16	33	15.5	72	76	124	16	6	16400	649.66 449.86
16	33	15.5	96	100	148	16	6	16900	669.26 562.30
16	40	15.0	100	102	150	16	6	90400	642.66 449.40
20	38	19.0	52	54	104	20	6	20700	674.89 470.32
20	32	19.5	60	64	114	20	6	20200	672.52 470.55
20	42	19.5	90	94	144	20	6	20400	885.91 619.51
20	50	19.0	98	100	150	20	6	20900	884.68 619.28
20	42	19.5	120	124	174	20	6	90500	1407.37 775.16
25	40	24.5	75	80	136	25	6	25200	841.92 589.34
25	52	24.5	113	118	174	25	6	25400	1407.37 775.16
25	52	24.5	150	154	210	25	6	25900	1384.22 968.95

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### SilverLine – Ball Nosed Cutter



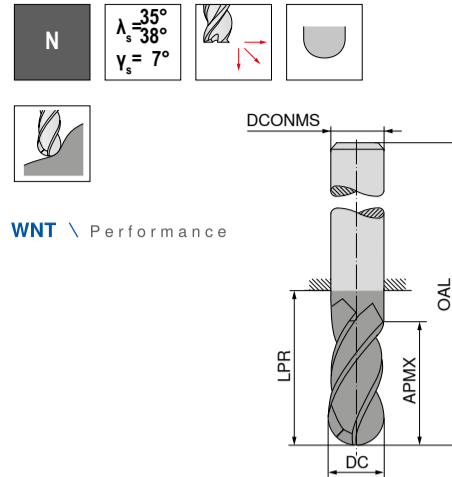
WNT \ Performance



DC <sub>h6</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	ZEPF	50 963 ...	PG V0/5A	50 963 ...	PG V0/5A
mm	mm	mm	mm	mm	mm	mm		£	£	£	£
3	4	2.8	10.0	14	50	6	2	03115	<del>80.40</del>	56.07	
3	7	3.0	8.8	24	60	6	2				03415 <del>107.45</del> 75.22
4	8	3.8	12.0	18	54	6	2	04120	<del>80.40</del>	56.07	
4	10	4.0	12.5	39	75	6	2				04420 <del>107.45</del> 75.22
5	9	4.8	16.0	18	54	6	2	05125	<del>80.40</del>	56.07	
5	12	5.0	15.0	39	75	6	2				05425 <del>111.75</del> 78.23
6	10	5.7	16.0	18	54	6	2	06130	<del>80.40</del>	56.07	
6	12	6.0	15.0	64	100	6	2				06430 <del>129.42</del> 90.59
7	11	6.6	20.0	22	58	8	2	07135	<del>97.50</del>	68.25	
8	12	7.6	20.0	22	58	8	2	08140	<del>97.50</del>	68.25	
8	14	8.0	17.5	64	100	8	2				08440 <del>151.28</del> 105.90
10	14	9.6	24.0	26	66	10	2	10150	<del>121.02</del>	85.34	
10	18	10.0	22.5	60	100	10	2				10450 <del>205.69</del> 143.98
12	16	11.5	26.0	28	73	12	2	12160	<del>177.13</del>	123.99	
12	22	12.0	27.5	55	100	12	2				12460 <del>265.30</del> 185.71
14	18	13.3	28.0	30	75	14	2	14170	<del>205.69</del>	143.98	
14	26	14.0	32.5	75	120	14	2				14470 <del>423.10</del> 296.17
16	22	15.2	32.0	34	82	16	2	16180	<del>260.09</del>	182.69	
16	30	16.0	37.5	102	150	16	2				16480 <del>570.03</del> 399.02
18	24	17.1	34.0	36	84	18	2	18190	<del>430.03</del>	301.02	
20	26	19.0	40.0	42	92	20	2	20110	<del>430.03</del>	301.02	
20	38	20.0	47.5	100	150	20	2				20410 <del>755.11</del> 528.79

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### SilverLine – Ball Nosed Cutter



WNT \ Performance

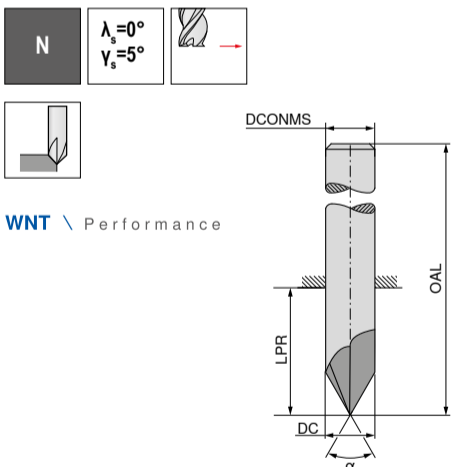


DC <sub>h6</sub>	APMX	LPR	OAL	DCONMS <sub>h6</sub>	ZEPF	50 990 ...	PG V0/5A
mm	mm	mm	mm	mm		£	£
4	11	21	57	6	4	04220	<del>77.98</del> 54.59
5	13	21	57	6	4	05225	<del>77.98</del> 54.59
6	13	21	57	6	4	06230	<del>91.23</del> 63.86
8	19	36	72	8	4	08280	<del>119.94</del> 79.13
10	22	32	72	10	4	10250	<del>142.72</del> 99.90
12	26	38	83	12	4	12260	<del>225.94</del> 158.09
16	32	44	92	16	4	16280	<del>333.30</del> 233.31
20	38	54	104	20	4	20210	<del>483.03</del> 338.12

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K	●
N	○
S	○
H	○
O	○

### SilverLine – NC deburring cutter

▲ High performance 5 flute chamfering tool



WNT \ Performance



DC <sub>h6</sub>	OAL	LPR	DCONMS <sub>h6</sub>	ZEPF	50 562 ...	PG V1	50 563 ...	PG V1	50 560 ...	PG V1	50 561 ...	PG V1	
mm	mm	mm	mm		£	£	£	£	£	£	£	£	
4	50	22	4	5	04000	<del>45.28</del>	29.43	06000	<del>49.77</del>	32.35	08000	<del>64.84</del>	42.15
6	55	19	6	5	08000	<del>64.84</del>	42.15	10000	<del>77.89</del>	50.11	12000	<del>98.49</del>	64.02
8	58	22	8	5	16000	<del>153.34</del>	99.67	06000	<del>49.77</del>	32.35	08000	<del>64.84</del>	42.15
10	60	20	10	5	10000	<del>77.89</del>	50.11	10000	<del>77.89</del>	50.11	10000	<del>77.89</del>	50.11
12	70	25	12	5	12000	<del>98.49</del>	64.02	12000	<del>98.49</del>	64.02	12000	<del>98.49</del>	64.02
16	80	32	16	5	16000	<del>153.34</del>	99.67	16000	<del>153.34</del>	99.67	16000	<del>153.34</del>	99.67

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K	●	●	●	●
N	○	○	○	○
S	○	○	○	○
H	○	○	○	○
O	○	○	○	○



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3 time served engineers, available from 8:00 am to 6:00 pm, Monday to Friday  
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When you see this logo it's in stock in Sheffield

# AluLine

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

## First Choice for high performance Aluminium Milling

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

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

### Advantages/benefits

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

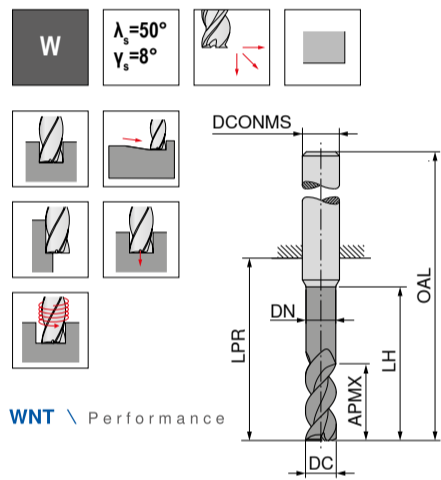
Our AluLine milling cutter impresses with its outstanding coating. It achieves first-rate results even in dry machining.

Product Manager CERATIZIT, Michael Wucher

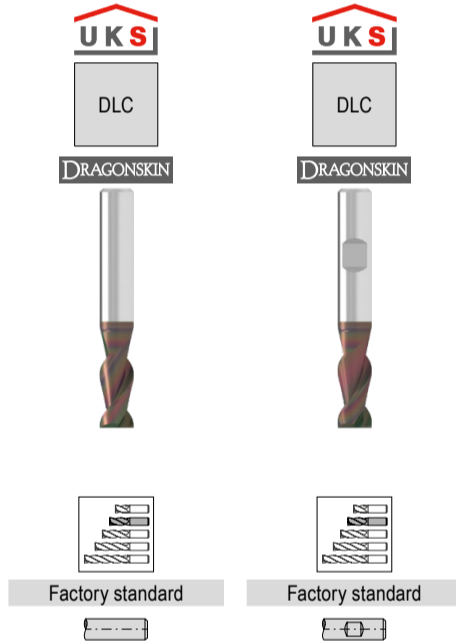
Cutting datas can be found in our main catalogue, Chapter 14 Solid Carbide milling cutters on page 390-394

## AluLine – End milling cutter

▲ With polished chip flutes



WNT \ Performance

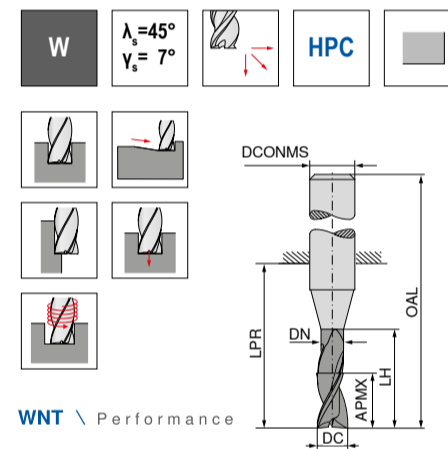


DC <sub>h6</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	ZEFP	53 625 ...	PG V1/5B	53 626 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm		£	£	£	£		
5.0	10.5	4.8	15	22	58	6	2	05100	62.66	40.73	05100	62.66	40.73
5.5	13.0	5.3	18	22	58	6	2	05600	73.32	47.66	05600	73.32	47.66
6.0	13.0	5.8	18	22	58	6	2	06100	70.66	45.93	06100	70.66	45.93
6.5	17.0	6.2	24	28	64	8	2	06600	78.66	51.13	06600	78.66	51.13
7.0	17.0	6.7	24	28	64	8	2	07100	77.32	50.26	07100	77.32	50.26
7.5	17.0	7.2	24	28	64	8	2	07600	75.98	49.39	07600	75.98	49.39
8.0	17.0	7.7	24	28	64	8	2	08100	74.66	48.53	08100	74.66	48.53
8.5	21.0	8.2	30	34	74	10	2	08600	115.98	75.39	08600	115.98	75.39
9.0	21.0	8.7	30	34	74	10	2	09100	113.32	73.65	09100	113.32	73.65
9.5	21.0	9.2	30	34	74	10	2	09600	110.66	71.92	09600	110.66	71.92
10.0	21.0	9.7	30	34	74	10	2	10100	107.97	70.18	10100	107.97	70.18
10.5	25.0	10.1	36	40	85	12	2	10600	154.64	100.52	10600	154.64	100.52
11.0	25.0	10.6	36	40	85	12	2	11100	151.97	98.78	11100	151.97	98.78
11.5	25.0	11.1	36	40	85	12	2	11600	149.32	96.19	11600	149.32	96.19
12.0	25.0	11.6	36	40	85	12	2	12100	146.66	93.78	12100	146.66	93.78
12.5	29.0	12.1	42	46	91	14	2	12600	207.97	135.18	12600	207.97	135.18
13.0	29.0	12.6	42	46	91	14	2	13100	205.32	133.41	13100	205.32	133.41
13.5	29.0	13.1	42	46	91	14	2	13600	202.66	131.64	13600	202.66	131.64
14.0	29.0	13.6	42	46	91	14	2	14100	215.97	140.38	14100	215.97	140.38
14.5	33.0	14.0	48	52	100	16	2	14600	282.64	183.70	14600	282.64	183.70
15.0	33.0	14.5	48	52	100	16	2	15100	277.32	180.24	15100	277.32	180.24
15.5	33.0	15.0	48	52	100	16	2	15600	270.66	175.90	15600	270.66	175.90
16.0	33.0	15.5	48	52	100	16	2	16100	269.32	175.04	16100	269.32	175.04
16.5	38.0	16.0	54	58	106	18	2	16600	369.64	235.70	16600	369.64	235.70
17.0	38.0	16.5	54	58	106	18	2	17100	353.32	229.63	17100	353.32	229.63
17.5	38.0	17.0	54	58	106	18	2	17600	343.64	223.56	17600	343.64	223.56
18.0	38.0	17.5	54	58	106	18	2	18100	343.64	223.56	18100	343.64	223.56
18.5	42.0	18.0	60	64	114	20	2	18600	441.24	286.81	18600	441.24	286.81
19.0	42.0	18.5	60	64	114	20	2	19100	430.66	279.88	19100	430.66	279.88
19.5	42.0	19.0	60	64	114	20	2	19600	419.32	272.95	19600	419.32	272.95
20.0	42.0	19.5	60	64	114	20	2	20100	423.32	275.55	20100	423.32	275.55

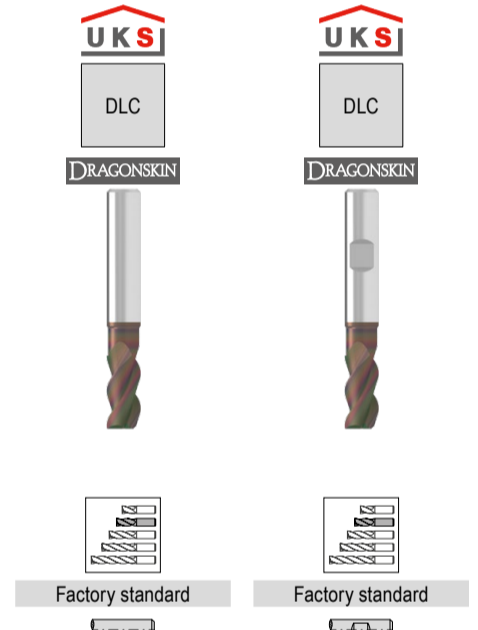
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## AluLine – End milling cutter

▲ With polished chip flutes



WNT \ Performance



DC <sub>h6</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	ZEFP	53 617 ...	PG V1/5B	53 618 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm		£	£	£	£		
2.0	4.5	1.8	6.0	14	50	6	3	02100	58.67	38.14	02100	58.67	38.14
2.5	5.5	2.3	7.5	19	55	6	3	02600	57.33	37.26	02600	57.33	37.26
3.0	6.5	2.8	9.0	19	55	6	3	03100	58.67	38.14	03100	58.67	38.14
3.5	8.5	3.3	12.0	19	55	6	3	03600	61.32	39.86	03600	61.32	39.86
4.0	8.5	3.8	12.0	19	55	6	3	04100	61.32	39.86	04100	61.32	39.86
4.5	10.5	4.3	15.0	22	58	6	3	04600	74.66	48.53	04600	74.66	48.53
5.0	10.5	4.8	15.0	22	58	6	3	05100	66.66	43.33	05100	66.66	43.33
5.5	13.0	5.3	18.0	22	58	6	3	05600	75.98	49.39	05600	75.98	49.39
6.0	13.0	5.8	18.0	22	58	6	3	06100	70.66	45.93	06100	70.66	45.93
6.5	17.0	6.2	24.0	28	64	8	3	06600	82.66	53.73	06600	82.66	53.73
7.0	17.0	6.7	24.0	28	64	8	3	07100	70.99	51.99	07100	70.99	51.99
7.5	17.0	7.2	24.0	28	64	8	3	07600	78.66	51.13	07600	78.66	51.13
8.0	17.0	7.7	24.0	28	64	8	3	08100	77.32	50.26	08100	77.32	50.26
8.5	21.0	8.2	30.0	34	74	10	3	08600	119.97	77.98	08600	119.97	77.98
9.0	21.0	8.7	30.0	34	74	10	3	09100	117.31	76.25	09100	117.31	76.25
9.5	21.0	9.2	30.0	34	74	10	3	09600	114.64	74.52	09600	114.64	74.52
10.0	21.0	9.7	30.0	34	74	10	3	10100	111.97	72.78	10100	111.97	72.78
10.5	25.0	10.1	36.0	40	85	12	3	10600	161.34	104.85	10600	161.34	104.85
11.0	25.0	10.6	36.0	40	85	12	3	11100	158.66	103.12	11100	158.66	103.12
11.5	25.0	11.1	36.0	40	85	12	3	11600	155.99	99.65	11600	155.99	99.65
12.0	25.0	11.6	36.0	40	85	12	3	12100	158.66	103.12	12100	158.66	103.12
12.5	29.0	12.1	42.0	46	91	14	3	12600	207.97	135.18	12600	207.97	135.18
13.0	29.0	12.6	42.0	46	91	14	3	13100	205.32	133.41	13100	205.32	133.41
13.5	29.0	13.1	42.0	46	91	14	3	13600	202.66	131.64	13600	202.66	131.64
14.0	29.0	13.6	42.0	46	91	14	3	14100	215.97	140.38	14100	215.97	140.38
14.5	33.0	14.0	48.0	52	100	16	3	14600	282.64	183.70	14600	282.64	183.70
15.0	33.0	14.5	48.0	52	100	16	3	15100	277.32	180.24	15100	277.32	180.24
15.5	33.0	15.0	48.0	52	100	16	3	15600	270.66	175.90	15600	270.66	175.90
16.0	33.0	15.5	48.0	52	100	16	3	16100	269.32	175.04	16100	269.32	175.04
16.5	38.0	16.0	54.0	58	106	18	3	16600	369.64	235.70	16600	369.64	235.70
17.0	38.0	16.5	54.0	58	106	18	3	17100	353.32	229.63	17100	353.32	229.63
17.5	38.0	17.0	54.0	58	106	18	3	17600	343.64	223.56	17600	343.64	223.56
18.0	38.0	17.5	54.0	58	106	18	3	18100	343.64	223.56	18100	343.64	223.56
18.5	42.0	18.0	60.0	64	114	20	3	18600	441.24	286.81	18600	441.24	286.81
19.0	42.0	18.5	60.0	64	114	20	3	19100	430.66	279.88	19100	430.66	279.88
19.5	42.0	19.0	60.0	64	114	20	3	19600	419.32	272.95	19600	419.32	272.95
20.0	42.0	19.5	60.0	64	114	20	3	20100	423.32	275.55	20100	423.32	275.55

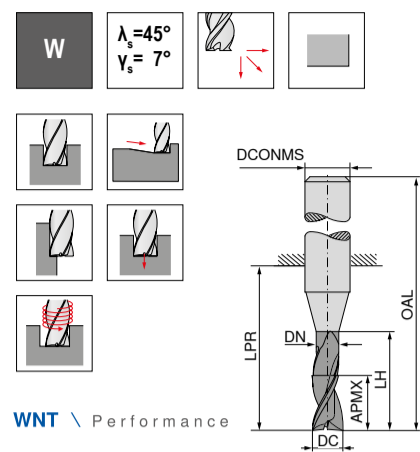
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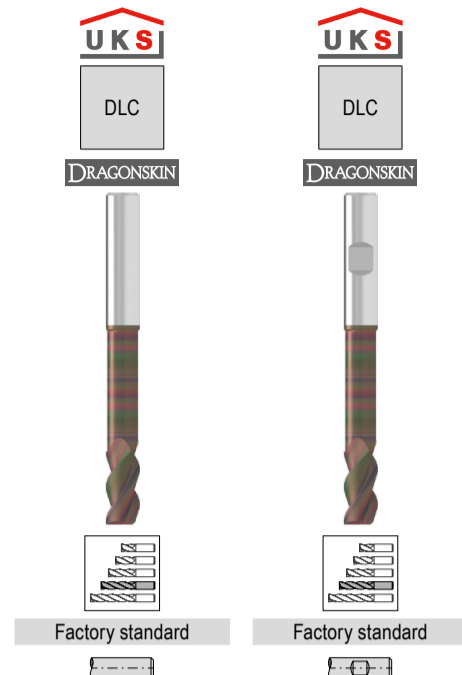


### AluLine – End milling cutter

▲ With polished chip flutes



WNT \ Performance

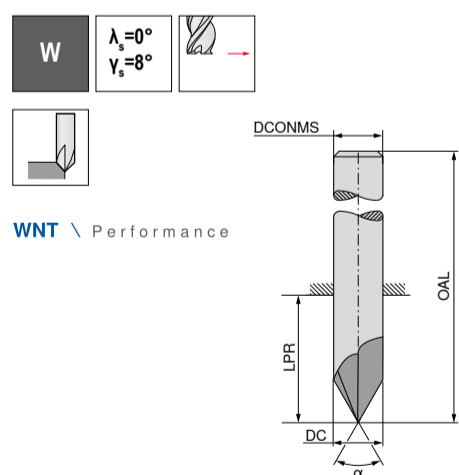


DC <sub>h6</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	ZEPF	53 617 ...	PG V1/5B	53 618 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm		£	£	£	£		
2.0	5.5	1.8	10.0	19	55	6	3	02200	<del>66.66</del>	43.33	02200	<del>66.66</del>	43.33
2.5	6.5	2.3	12.5	22	58	6	3	02700	<del>66.66</del>	43.33	02700	<del>66.66</del>	43.33
3.0	8.0	2.8	15.0	22	58	6	3	03200	<del>67.99</del>	44.19	03200	<del>67.99</del>	44.19
3.5	10.5	3.3	20.0	26	62	6	3	03700	<del>70.66</del>	45.93	03700	<del>70.66</del>	45.93
4.0	10.5	3.8	20.0	26	62	6	3	04200	<del>74.99</del>	46.79	04200	<del>74.99</del>	46.79
4.5	13.0	4.3	25.0	34	70	6	3	04700	<del>86.66</del>	56.32	04700	<del>86.66</del>	56.32
5.0	13.0	4.8	25.0	34	70	6	3	05200	<del>78.66</del>	51.13	05200	<del>78.66</del>	51.13
5.5	16.0	5.3	30.0	34	70	6	3	05700	<del>80.32</del>	58.06	05700	<del>80.32</del>	58.06
6.0	16.0	5.8	30.0	34	70	6	3	06200	<del>84.32</del>	52.86	06200	<del>84.32</del>	52.86
6.5	21.0	6.2	40.0	44	80	8	3	06700	<del>96.99</del>	62.39	06700	<del>96.99</del>	62.39
7.0	21.0	6.7	40.0	44	80	8	3	07200	<del>93.32</del>	60.66	07200	<del>93.32</del>	60.66
7.5	21.0	7.2	40.0	44	80	8	3	07700	<del>94.99</del>	59.79	07700	<del>94.99</del>	59.79
8.0	21.0	7.7	40.0	44	80	8	3	08200	<del>89.32</del>	58.06	08200	<del>89.32</del>	58.06
8.5	26.0	8.2	50.0	54	94	10	3	08700	<del>141.30</del>	91.85	08700	<del>141.30</del>	91.85
9.0	26.0	8.7	50.0	54	94	10	3	09200	<del>137.32</del>	89.26	09200	<del>137.32</del>	89.26
9.5	26.0	9.2	50.0	54	94	10	3	09700	<del>134.66</del>	87.52	09700	<del>134.66</del>	87.52
10.0	26.0	9.7	50.0	54	94	10	3	10200	<del>130.64</del>	84.92	10200	<del>130.64</del>	84.92
10.5	31.0	10.1	60.0	64	109	12	3	10700	<del>190.63</del>	123.91	10700	<del>190.63</del>	123.91
11.0	31.0	10.6	60.0	64	109	12	3	11200	<del>186.30</del>	120.45	11200	<del>186.30</del>	120.45
11.5	31.0	11.1	60.0	64	109	12	3	11700	<del>181.30</del>	117.85	11700	<del>181.30</del>	117.85
12.0	31.0	11.6	60.0	64	109	12	3	12200	<del>186.30</del>	120.45	12200	<del>186.30</del>	120.45
12.5	36.0	12.1	70.0	74	119	14	3	12700	<del>243.96</del>	158.57	12700	<del>243.96</del>	158.57
13.0	36.0	12.6	70.0	74	119	14	3	13200	<del>240.64</del>	157.70	13200	<del>240.64</del>	157.70
13.5	36.0	13.1	70.0	74	119	14	3	13700	<del>244.30</del>	156.85	13700	<del>244.30</del>	156.85
14.0	36.0	13.6	70.0	74	119	14	3	14200	<del>251.96</del>	163.77	14200	<del>251.96</del>	163.77
14.5	41.0	14.0	80.0	84	132	16	3	14700	<del>331.94</del>	215.76	14700	<del>331.94</del>	215.76
15.0	41.0	14.5	80.0	84	132	16	3	15200	<del>326.28</del>	211.43	15200	<del>326.28</del>	211.43
15.5	41.0	15.0	80.0	84	132	16	3	15700	<del>348.64</del>	207.10	15700	<del>348.64</del>	207.10
16.0	41.0	15.5	80.0	84	132	16	3	16200	<del>338.64</del>	220.10	16200	<del>338.64</del>	220.10
16.5	47.0	16.0	90.0	94	142	18	3	16700	<del>428.64</del>	277.30	16700	<del>428.64</del>	277.30
17.0	47.0	16.5	90.0	94	142	18	3	17200	<del>416.93</del>	270.35	17200	<del>416.93</del>	270.35
17.5	47.0	17.0	90.0	94	142	18	3	17700	<del>406.97</del>	263.43	17700	<del>406.97</del>	263.43
18.0	47.0	17.5	90.0	94	142	18	3	18200	<del>409.92</del>	262.55	18200	<del>409.92</del>	262.55
18.5	52.0	18.0	100.0	104	154	20	3	18700	<del>561.94</del>	364.81	18700	<del>561.94</del>	364.81
19.0	52.0	18.5	100.0	104	154	20	3	19200	<del>546.57</del>	355.27	19200	<del>546.57</del>	355.27
19.5	52.0	19.0	100.0	104	154	20	3	19700	<del>534.90</del>	345.74	19700	<del>534.90</del>	345.74
20.0	52.0	19.5	100.0	104	154	20	3	20200	<del>534.57</del>	347.47	20200	<del>534.57</del>	347.47

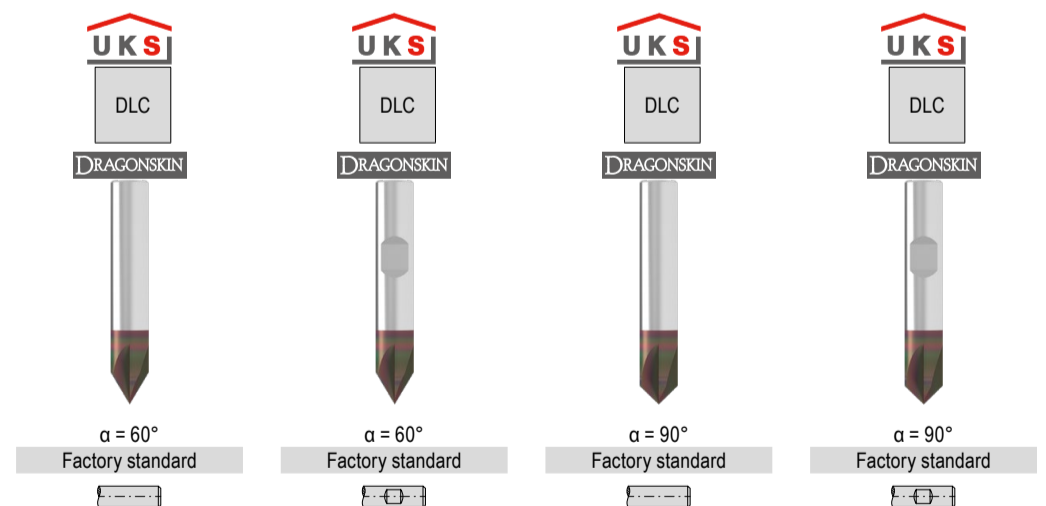


### AluLine – NC deburring cutter

▲ Point angle  $\alpha = 90^\circ$



WNT \ Performance



DC <sub>h6</sub>	OAL	LPR	DCONMS <sub>h6</sub>	ZEPF	53 662 ...	PG V1	53 663 ...	PG V1	53 660 ...	PG V1	53 661 ...	PG V1	
mm	mm	mm	mm		£	£	£	£	£	£	£	£	
4	50	22	4	4	04000	<del>43.90</del>	27.95	04000	<del>43.90</del>	27.95	04000	<del>43.90</del>	27.95
6	55	19	6	4	06000	<del>47.26</del>	30.72	06000	<del>47.26</del>	30.72	06000	<del>47.26</del>	30.72
8	58	22	8	4	08000	<del>54.97</del>	35.73	08000	<del>54.97</del>	35.73	08000	<del>54.97</del>	35.73
10	60	20	10	4	10000	<del>76.14</del>	49.49	10000	<del>76.14</del>	49.49	10000	<del>76.14</del>	49.49
12	70	25	12	4	12000	<del>85.86</del>	55.81	12000	<del>85.86</del>	55.81	12000	<del>85.86</del>	55.81
16	80	32	16	4	16000	<del>139.94</del>	90.96	16000	<del>139.94</del>	90.96	16000	<del>139.94</del>	90.96



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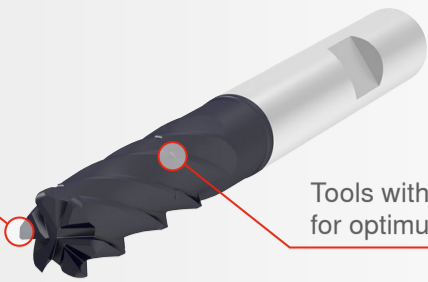
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in stock in Sheffield

# CircularLine

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



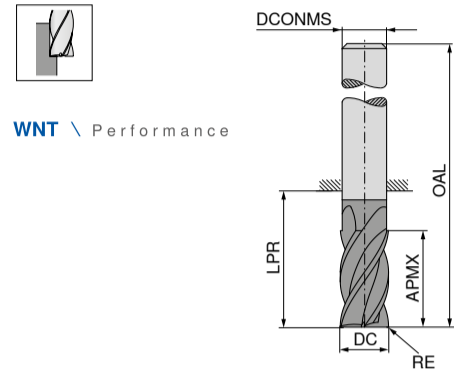
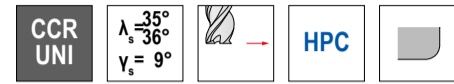
Tools with chip breakers for optimum chip removal

DRAGONSKIN



## CircularLine – End milling cutter with corner radius

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



WNT \ Performance

DPX72S

DRAGONSKIN



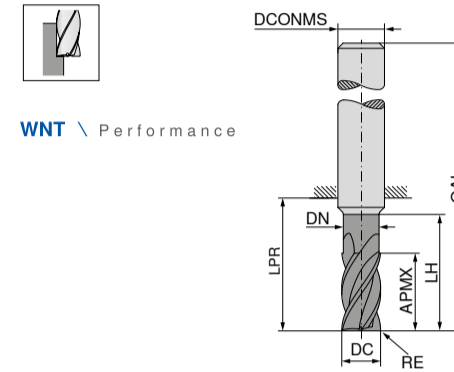
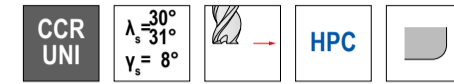
Factory standard

DC <sub>e8</sub>	RE <sub>±0.05</sub>	APMX	LPR	OAL	DCONMS <sub>h6</sub>	ZEFP	53 593 ...	PG V1/5B	
mm	mm	mm	mm	mm	mm		£	£	
6	0.2	31	39	75	6	5	06402	401.48	65.77
6	1.0	31	39	75	6	5	06410	401.48	65.77
6	1.5	31	39	75	6	5	06415	401.48	65.77
8	0.2	41	49	85	8	5	08402	416.64	75.82
8	1.0	41	49	85	8	5	08410	416.64	75.82
8	1.5	41	49	85	8	5	08415	416.64	75.82
8	2.0	41	49	85	8	5	08420	416.64	75.82
10	0.2	51	60	100	10	5	10402	461.05	104.68
10	1.0	51	60	100	10	5	10410	461.05	104.68
10	1.5	51	60	100	10	5	10415	461.05	104.68
10	1.6	51	60	100	10	5	10416	461.05	104.68
10	2.0	51	60	100	10	5	10420	461.05	104.68
12	0.2	61	70	115	12	5	12402	499.63	129.76
12	1.0	61	70	115	12	5	12410	499.63	129.76
12	1.5	61	70	115	12	5	12415	499.63	129.76
12	1.6	61	70	115	12	5	12416	499.63	129.76
12	2.0	61	70	115	12	5	12420	499.63	129.76
12	3.0	61	70	115	12	5	12430	499.63	129.76
14	0.2	71	81	126	14	5	14402	499.63	129.76
14	1.0	71	81	126	14	5	14410	410.06	266.54
14	1.5	71	81	126	14	5	14415	410.06	266.54
14	1.6	71	81	126	14	5	14416	410.06	266.54
14	2.0	71	81	126	14	5	14420	410.06	266.54
14	3.0	71	81	126	14	5	14430	410.06	266.54
16	0.2	81	92	140	16	5	16402	405.68	263.69
16	1.0	81	92	140	16	5	16410	405.68	263.69
16	1.5	81	92	140	16	5	16415	405.68	263.69
16	1.6	81	92	140	16	5	16416	405.68	263.69
16	2.0	81	92	140	16	5	16420	405.68	263.69
16	3.0	81	92	140	16	5	16430	405.68	263.69
16	4.0	81	92	140	16	5	16440	405.68	263.69
18	0.2	91	102	150	18	5	18402	463.95	301.57
18	1.0	91	102	150	18	5	18410	463.95	301.57
18	1.5	91	102	150	18	5	18415	463.95	301.57
18	1.6	91	102	150	18	5	18416	463.95	301.57
18	2.0	91	102	150	18	5	18420	463.95	301.57
18	3.0	91	102	150	18	5	18430	463.95	301.57
18	4.0	91	102	150	18	5	18440	463.95	301.57
20	0.2	102	113	163	20	5	20402	560.21	364.14
20	1.0	102	113	163	20	5	20410	560.21	364.14
20	1.5	102	113	163	20	5	20415	560.21	364.14
20	1.6	102	113	163	20	5	20416	560.21	364.14
20	2.0	102	113	163	20	5	20420	560.21	364.14
20	3.0	102	113	163	20	5	20430	560.21	364.14
20	4.0	102	113	163	20	5	20440	560.21	364.14

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## CircularLine – End milling cutter with corner radius

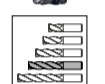
- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 3 x DC



WNT \ Performance

UKS

DPX72S



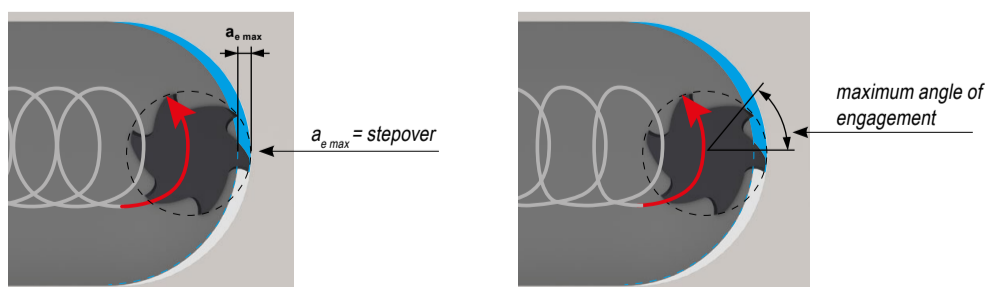
Factory standard

DC <sub>e8</sub>	RE <sub>±0.05</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	ZEFP	53 642 ...	PG V1/5B	
mm	mm	mm	mm	mm	mm	mm	mm		£	£	
6	0.2	19	5.8	25	27	63	6	6	06202	66.80	43.42
6	1.0	19	5.8	25	27	63	6	6	06210	68.22	44.34
6	1.5	19	5.8	25	27	63	6	6	06215	68.22	44.34
8	0.2	25	7.7	33	35	71	8	6	08202	86.69	56.35
8	1.0	25	7.7	33	35	71	8	6	08210	89.55	58.21
8	1.5	25	7.7	33	35	71	8	6	08215	89.55	58.21
8	2.0	25	7.7	33	35	71	8	6	08220	89.55	58.21
10	0.2	31	9.7	41	43	83	10	6	10202	122.22	79.44
10	1.0	31	9.7	41	43	83	10	6	10210	125.05	81.28
10	1.5	31	9.7	41	43	83	10	6	10215	125.05	81.28
10	1.6	31	9.7	41	43	83	10	6	10216	125.05	81.28
10	2.0	31	9.7	41	43	83	10	6	10220	125.05	81.28
12	0.2	37	11.6	47	49	94	12	6	12202	143.54	93.30
12	1.0	37	11.6	47	49	94	12	6	12210	147.80	96.07
12	1.5	37	11.6	47	49	94	12	6	12215	147.80	96.07
12	1.6	37	11.6	47	49	94	12	6	12216	147.80	96.07
12	2.0	37	11.6	47	49	94	12	6	12220	147.80	96.07
12	3.0	37	11.6	47	49	94	12	6	12230	147.80	96.07
16	0.2	49	15.5	61	63	111	16	6	16202	207.04	193.08
16	1.0	49	15.5	61	63	111	16	6	16210	209.87	194.92
16	1.5	49	15.5	61	63	111	16	6	16215	209.87	194.92
16	1.6	49	15.5	61	63	111	16	6	16216	209.87	194.92
16	2.0	49	15.5	61	63	111	16	6	16220	209.87	194.92
16	3.0	49	15.5	61	63	111	16	6	16230	209.87	194.92
16	4.0	49	15.5	61	63	111	16	6	16240	209.87	194.92
20	0.2	61	19.5	75	77	127	20	6	20202	416.43	270.68
20	1.0	61	19.5	75	77	127	20	6	20210	420.65	273.42
20	1.5	61	19.5	75	77	127	20	6	20215	420.65	273.42
20	1.6	61	19.5	75	77	127	20	6	20216	420.65	273.42
20	2.0	61	19.5	75	77	127	20	6	20220	420.65	273.42
20	3.0	61	19.5	75	77	127	20	6	20230	420.65	273.42
20	4.0	61	19.5	75	77	127	20	6	20240	420.65	273.42

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## Trochoidal milling

When programming the various CAM systems different information is required.



### Features & benefits of trochoidal milling

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

### Calculation of the average chip thickness

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

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

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



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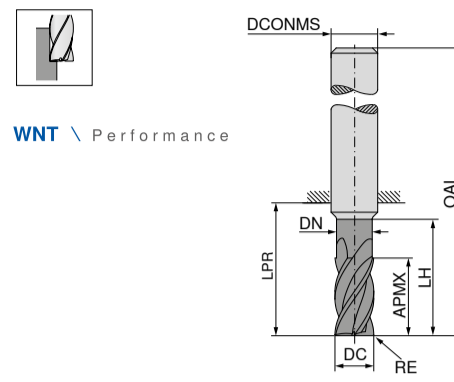
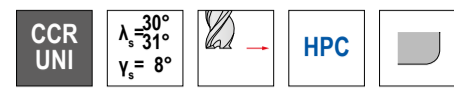
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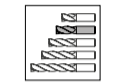


### CircularLine – End milling cutter with corner radius

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



WNT \ Performance



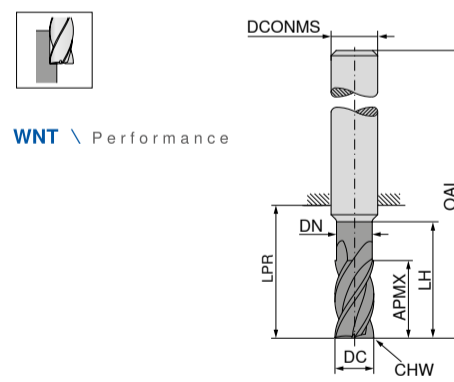
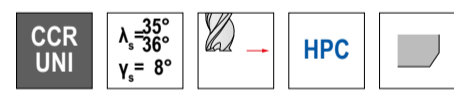
Factory standard

DC <sub>e8</sub>	OAL	RE <sub>±0.05</sub>	APMX	DN	LH	LPR	DCONMS <sub>h6</sub>	ZEFP	53 586 ...	PG V1/5B	
mm	mm	mm	mm	mm	mm	mm	mm		£	£	
6	57	1.0	13	5.8	19	21	6	6	06010	68.63	44.54
6	57	0.2	13	5.8	19	21	6	6	06002	68.63	44.30
6	57	1.5	13	5.8	19	21	6	6	06015	68.63	44.54
8	63	1.5	21	7.7	25	27	8	8	08015	89.96	59.14
8	63	0.2	21	7.7	25	27	8	8	08002	89.96	57.77
8	63	1.0	21	7.7	25	27	8	8	08010	89.96	59.14
8	63	2.0	21	7.7	25	27	8	8	08020	89.96	59.14
10	72	1.5	22	9.7	30	32	10	10	10015	117.35	76.26
10	72	0.2	22	9.7	30	32	10	10	10002	117.35	74.22
10	72	1.0	22	9.7	30	32	10	10	10010	117.35	76.26
10	72	1.6	22	9.7	30	32	10	10	10016	117.35	76.26
10	72	2.0	22	9.7	30	32	10	10	10020	117.35	76.26
12	83	1.5	26	11.6	36	38	12	12	12015	147.83	95.89
12	83	0.2	26	11.6	36	38	12	12	12002	147.83	95.45
12	83	1.0	26	11.6	36	38	12	12	12010	147.83	95.89
12	83	1.6	26	11.6	36	38	12	12	12016	147.83	95.89
12	83	2.0	26	11.6	36	38	12	12	12020	147.83	95.89
12	83	3.0	26	11.6	36	38	12	12	12030	147.83	95.89
16	92	4.0	36	15.5	42	44	16	16	16040	205.29	198.41
16	92	0.2	36	15.5	42	44	16	16	16002	205.29	190.39
16	92	1.0	36	15.5	42	44	16	16	16010	205.29	205.29
16	92	1.5	36	15.5	42	44	16	16	16015	205.29	198.41
16	92	1.6	36	15.5	42	44	16	16	16016	205.29	198.41
16	92	2.0	36	15.5	42	44	16	16	16020	205.29	198.41
16	92	3.0	36	15.5	42	44	16	16	16030	205.29	198.41
20	104	1.6	41	19.5	52	54	20	20	20016	276.51	276.51
20	104	0.2	41	19.5	52	54	20	20	20002	276.51	273.74
20	104	1.0	41	19.5	52	54	20	20	20010	276.51	276.51
20	104	1.5	41	19.5	52	54	20	20	20015	276.51	276.51
20	104	2.0	41	19.5	52	54	20	20	20020	276.51	276.51
20	104	3.0	41	19.5	52	54	20	20	20030	276.51	276.51
20	104	4.0	41	19.5	52	54	20	20	20040	276.51	276.51

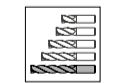
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### CircularLine – End milling cutter

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



WNT \ Performance



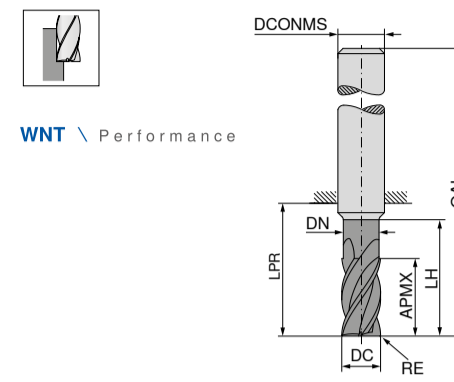
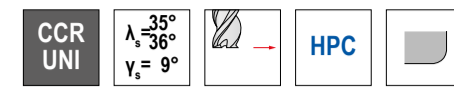
Factory standard

DC <sub>e8</sub>	OAL	APMX	DN	LH	LPR	DCONMS <sub>h6</sub>	CHW	ZEFP	53 589 ...	PG V1/5B	
mm	mm	mm	mm	mm	mm	mm	mm		£	£	
6	67	25	5.8	29	31	6	0.2	5	060	68.64	45.27
8	76	33	7.7	38	40	8	0.2	5	080	89.96	58.21
10	89	41	9.7	47	49	10	0.2	5	100	123.65	80.37
12	102	49	11.6	55	57	12	0.2	5	120	150.65	97.92
16	123	65	15.5	73	75	16	0.2	5	160	202.72	196.77
20	143	82	19.5	91	93	20	0.2	5	200	276.36	277.13

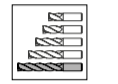
P	●
M	○
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N	○
S	○
H	○
O	○

### CircularLine – End milling cutter with corner radius

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



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 ...	PG V1/5B	
mm	mm	mm	mm	mm	mm	mm	mm		£	£	
6	67	1.5	25	5.8	29	31	6	5	06015	71.85	46.18
6	67	1.0	25	5.8	29	31	6	5	06010	71.85	46.18
6	67	0.2	25	5.8	29	31	6	5	06002	68.64	45.27
8	76	1.5	33	7.7	38	40	8	5	08015	89.96	59.12
8	76	1.0	33	7.7	38	40	8	5	08010	89.96	59.12
8	76	2.0	33	7.7	38	40	8	5	08020	89.96	59.12
8	76	0.2	33	7.7	38	40	8	5	08002	89.96	58.21
10	89	1.5	41	9.7	47	49	10	5	10015	126.40	82.22
10	89	1.0	41	9.7	47	49	10	5	10010	126.40	82.22
10	89	1.6	41	9.7	47	49	10	5	10016	126.40	82.22
10	89	2.0	41	9.7	47	49	10	5	10020	126.40	82.22
10	89	0.2	41	9.7	47	49	10	5	10002	123.65	80.37
12	102	1.0	49	11.6	55	57	12	5	12010	154.94	100.69
12	102	1.5	49	11.6	55	57	12	5	12015	154.94	100.69
12	102	1.6	49	11.6	55	57	12	5	12016	154.94	100.69
12	102	2.0	49	11.6	55	57	12	5	12020	154.94	100.69
12	102	3.0	49	11.6	55	57	12	5	12030	154.94	100.69
12	102	0.2	49	11.6	55	57	12	5	12002	150.65	97.92
16	123	1.6	65	15.5	73	75	16	5	16016	202.72	200.46
16	123	1.0	65	15.5	73	75	16	5	16010	202.72	200.46
16	123	1.5	65	15.5	73	75	16	5	16015	202.72	200.46
16	123	2.0	65	15.5	73	75	16	5	16020	202.72	200.46
16	123	3.0	65	15.5	73	75	16	5	16030	202.72	200.46
16	123	4.0	65	15.5	73	75	16	5	16040	202.72	200.46
16	123	0.2	65	15.5	73	75	16	5	16002	202.72	196.77
20	143	2.0	82	19.5	91	93	20	5	20020	276.36	281.75
20	143	1.0	82	19.5	91	93	20	5	20010	276.36	281.75
20	143	1.5	82	19.5	91	93	20	5	20015	276.36	281.75
20	143	1.6	82	19.5	91	93	20	5	20016	276.36	281.75
20	143	3.0	82	19.5	91	93	20	5	20030	276.36	281.75
20	143	4.0	82	19.5	91	93	20	5	20040	276.36	281.75
20	143	0.2	82	19.5	91	93	20	5	20002	276.36	277.13

P	●
M	○
K	●
N	○
S	○
H	○
O	○



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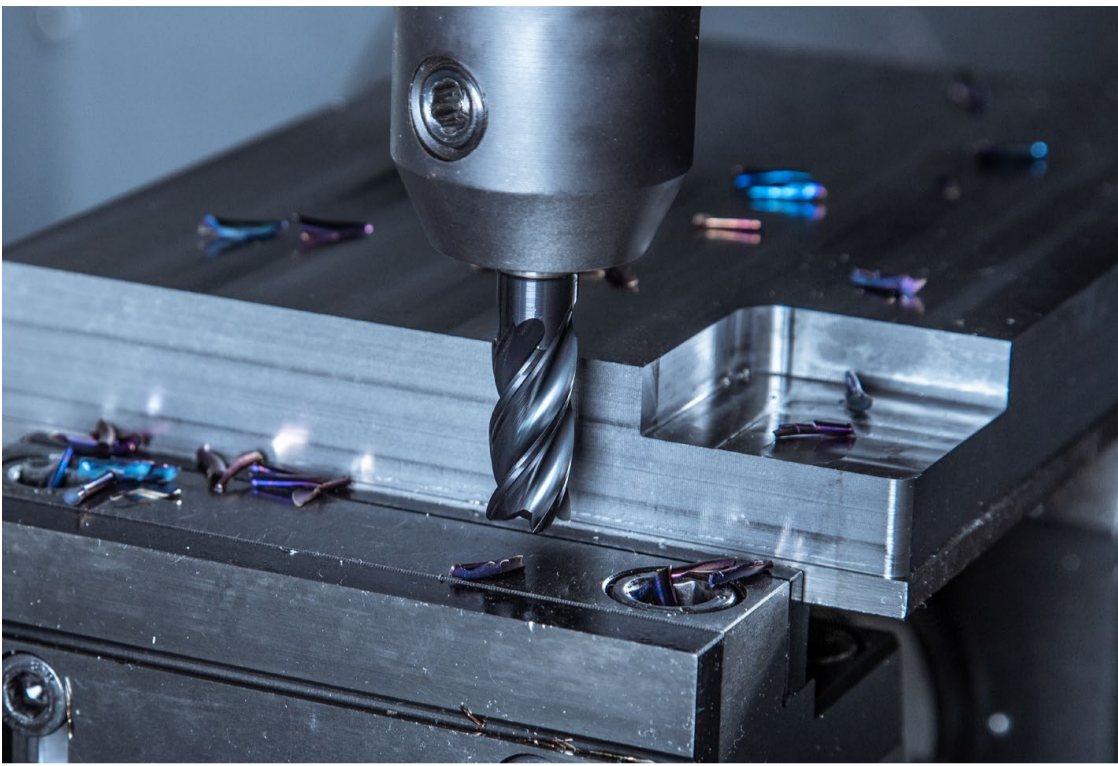


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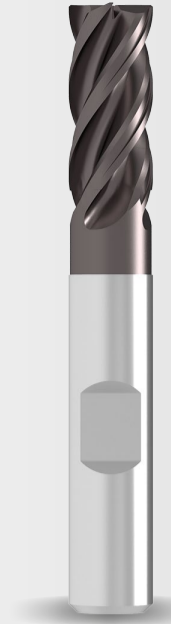


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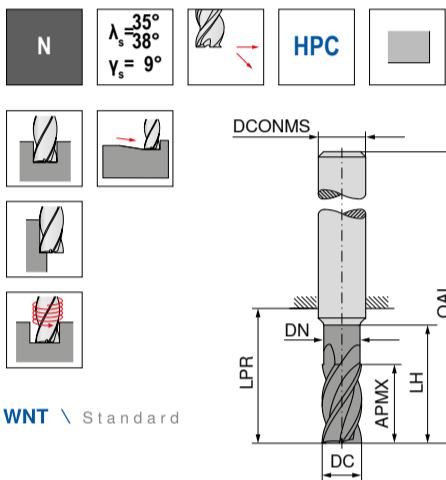




# TI 1000 STANDARD LINE



## End milling cutter



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	38	19.5	52	54	104	20	4
20	42	19.5	100	104	154	20	4

	PG V3/5C	PG V3/5C	PG V3/5C
P	●	●	●
M	●	●	○
K	●	●	●
N	○	○	○
S	○	○	○
H	○	○	○
O	○	○	○

UKS	UKS	UKS			
Ti1000	Ti1000	Ti1000			
≈DIN 6527	≈DIN 6527	≈DIN 6527			
54 070 ... PG V3/5C	54 070 ... PG V3/5C	54 070 ... PG V3/5C			
£	£	£			
03100	<del>15.72</del> 15.00	03200	<del>15.72</del> 15.00	03400	<del>22.08</del> 22.00
04100	<del>15.72</del> 15.00	04200	<del>15.72</del> 15.00	04400	<del>22.08</del> 22.00
05100	<del>15.72</del> 15.00	05200	<del>15.72</del> 15.00	05400	<del>25.40</del> 25.00
06100	<del>15.72</del> 15.00	06200	<del>19.35</del> 19.00	06400	<del>29.02</del> 29.00
08100	<del>22.08</del> 22.00	08200	<del>24.19</del> 24.00	08400	<del>36.28</del> 36.00
10100	<del>29.02</del> 29.00	10200	<del>32.65</del> 32.00	10400	<del>50.79</del> 50.00
12100	<del>42.33</del> 42.00	12200	<del>50.79</del> 50.00	12400	<del>62.09</del> 62.00
16100	<del>73.77</del> 73.00	16200	<del>79.64</del> 78.00	16400	<del>117.34</del> 117.00
20100	<del>110.05</del> 110.00	20200	<del>118.52</del> 118.00	20400	<del>160.85</del> 160.00



# DRAGONSKIN

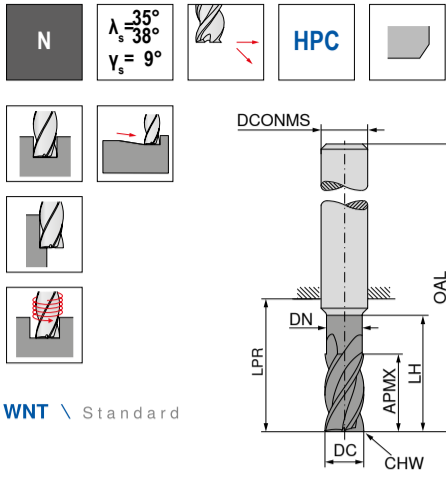
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For more information  
[cutting.tools/en/dragonskin](http://cutting.tools/en/dragonskin)

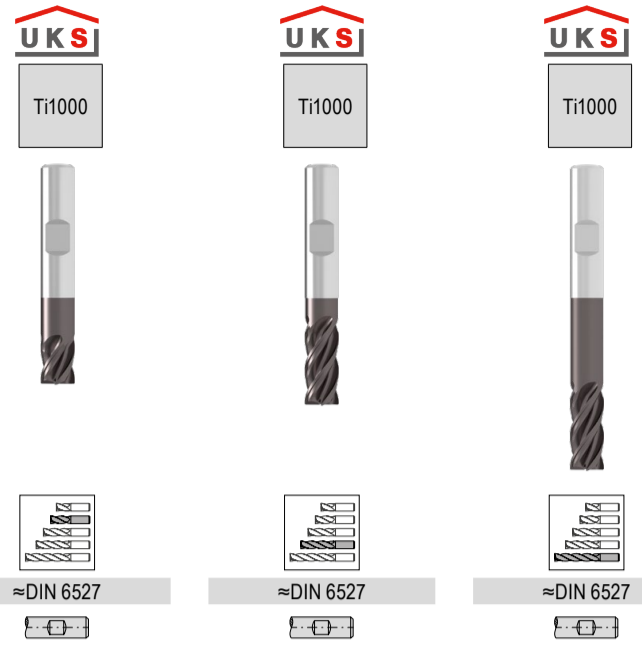


End milling cutter



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

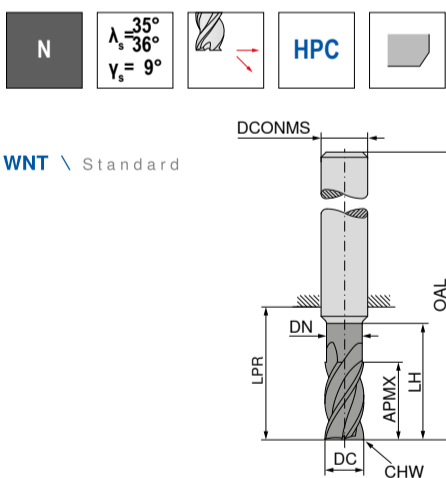
	54 071 ... PG V3/50	54 071 ... PG V3/50	54 071 ... PG V3/50
	£	£	£
P	•	•	•
M	•	•	•
K	•	•	•
N	○	○	○
S	○	○	○
H	○	○	○
O	○	○	○



	54 071 ... PG V3/50	54 071 ... PG V3/50	54 071 ... PG V3/50
	£	£	£
03100	<del>15.72</del> 15.00	03200	<del>15.72</del> 15.00
04100	<del>15.72</del> 15.00	04200	<del>15.72</del> 15.00
05100	<del>15.72</del> 15.00	05200	<del>15.72</del> 15.00
06100	<del>15.72</del> 15.00	06200	<del>19.35</del> 19.00
08100	<del>22.08</del> 22.00	08200	<del>24.19</del> 24.00
10100	<del>29.02</del> 29.00	10200	<del>32.65</del> 32.00
12100	<del>42.33</del> 42.00	12200	<del>50.79</del> 50.00
16100	<del>73.77</del> 73.00	16200	<del>78.61</del> 78.00
20100	<del>110.05</del> 110.00	20200	<del>118.52</del> 118.00
		03400	<del>22.08</del> 22.00
		04400	<del>22.08</del> 22.00
		05400	<del>25.40</del> 25.00
		06400	<del>29.02</del> 29.00
		08400	<del>36.28</del> 36.00
		10400	<del>50.79</del> 50.00
		12400	<del>62.89</del> 62.00
		16400	<del>117.31</del> 117.00
		20400	<del>160.85</del> 160.00

End milling cutter

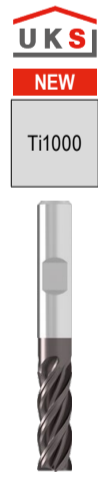
▲ Cutting depth: 3 x DC



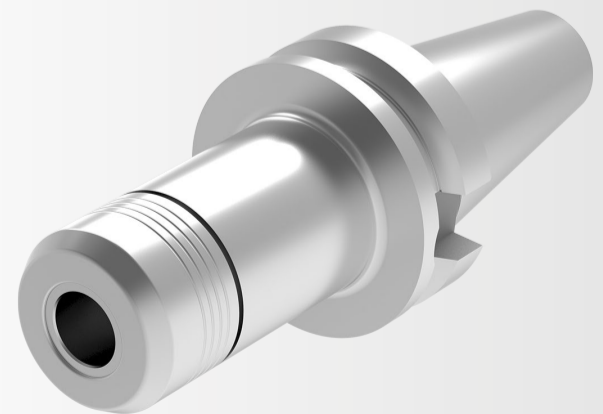
DC <sub>h8</sub> mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> mm	CHW mm	ZEPF
6	19	5.8	24	26	62	6	0.1	4
8	25	7.7	30	32	68	8	0.2	4
10	31	9.7	38	40	80	10	0.2	4
12	37	11.6	46	48	93	12	0.2	4
16	49	15.5	58	60	108	16	0.3	4
20	61	19.5	74	76	126	20	0.3	4

	54 078 ... PG V3/50
	£
06200	<del>32.06</del> 32.00
08200	<del>42.43</del> 42.00
10200	<del>55.61</del> 55.00
12200	<del>88.40</del> 88.00
16200	<del>136.44</del> 136.00
20200	<del>205.00</del> 205.00

P	•
M	•
K	•
N	○
S	○
H	○
O	○



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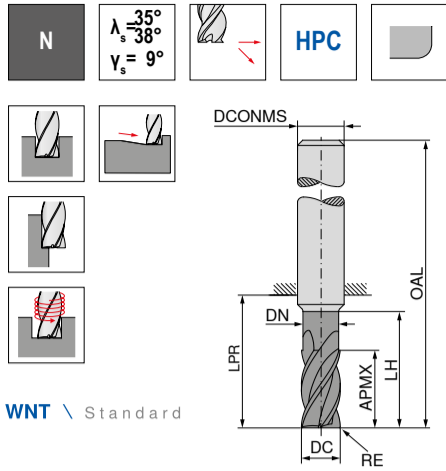


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End milling cutter with corner radius



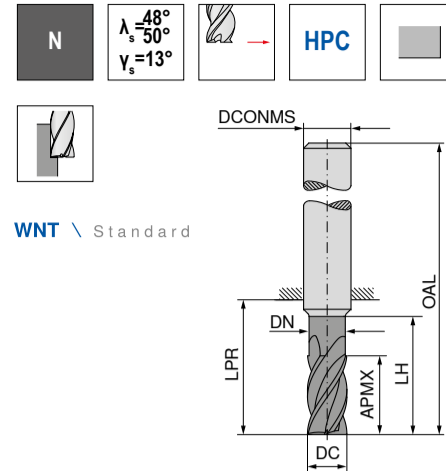
WNT \ Standard



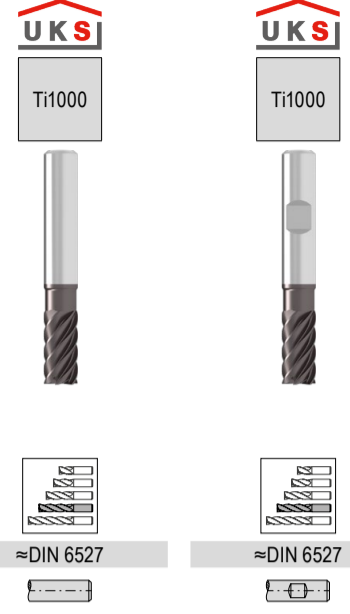
DC <sub>h10</sub> mm	RE mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> mm	ZEFP	54 072 ... PG V3/5C		54 072 ... PG V3/5C	
									£	£	£	£
3	0.1	8	2.8	13	21	57	6	4	03201	20.55	20.00	
3	0.3	8	2.8	13	21	57	6	4	03203	20.55	20.00	
3	0.5	8	2.8	13	21	57	6	4	03205	20.55	20.00	
3	1.0	8	2.8	13	21	57	6	4	03210	20.55	20.00	
3	0.5	8	2.8	15	22	69	6	4				03405 27.91 27.00
3	0.3	8	2.8	15	22	69	6	4				03403 27.91 27.00
3	1.0	8	2.8	15	22	69	6	4				03410 27.91 27.00
4	0.1	11	3.8	17	21	57	6	4	04201	20.55	20.00	
4	0.3	11	3.8	17	21	57	6	4	04203	20.55	20.00	
4	0.5	11	3.8	17	21	57	6	4	04205	20.55	20.00	
4	1.0	11	3.8	17	21	57	6	4	04210	20.55	20.00	
4	0.5	11	3.8	20	26	69	6	4				04405 27.91 27.00
4	0.3	11	3.8	20	26	69	6	4				04403 27.91 27.00
4	1.0	11	3.8	20	26	69	6	4				04410 27.91 27.00
5	0.5	13	4.8	19	21	57	6	4	05205	20.55	20.00	
5	0.1	13	4.8	19	21	57	6	4	05201	20.55	20.00	
5	0.3	13	4.8	19	21	57	6	4	05203	20.55	20.00	
5	1.0	13	4.8	19	21	57	6	4	05210	20.55	20.00	
5	0.5	13	4.8	25	34	69	6	4				05405 30.24 30.00
5	0.3	13	4.8	25	34	69	6	4				05403 30.24 30.00
5	1.0	13	4.8	25	34	69	6	4				05410 30.24 30.00
6	0.3	13	5.8	19	21	57	6	4	06203	22.08	22.00	
6	0.1	13	5.8	19	21	57	6	4	06201	22.08	22.00	
6	0.5	13	5.8	19	21	57	6	4	06205	22.08	22.00	
6	1.0	13	5.8	19	21	57	6	4	06210	22.08	22.00	
6	1.5	13	5.8	19	21	57	6	4	06215	22.08	22.00	
6	2.0	13	5.8	19	21	57	6	4	06220	22.08	22.00	
6	0.3	13	5.8	30	34	69	6	4				06410 33.86 33.00
6	0.1	13	5.8	30	34	69	6	4				06403 33.86 33.00
6	0.5	13	5.8	30	34	69	6	4				06405 33.86 33.00
6	1.5	13	5.8	30	34	69	6	4				06415 33.86 33.00
6	2.0	13	5.8	30	34	69	6	4				06420 33.86 33.00
8	0.1	21	7.7	25	27	63	8	4	08201	30.24	30.00	
8	0.3	21	7.7	25	27	63	8	4	08203	30.24	30.00	
8	0.5	21	7.7	25	27	63	8	4	08205	30.24	30.00	
8	1.0	21	7.7	25	27	63	8	4	08210	30.24	30.00	
8	1.5	21	7.7	25	27	63	8	4	08215	30.24	30.00	
8	2.0	21	7.7	25	27	63	8	4	08220	30.24	30.00	
8	1.0	17	7.7	40	44	79	8	4				08410 45.96 45.00
8	0.3	17	7.7	40	44	79	8	4				08403 45.96 45.00
8	0.5	17	7.7	40	44	79	8	4				08405 45.96 45.00
8	1.5	17	7.7	40	44	79	8	4				08415 45.96 45.00
8	2.0	17	7.7	40	44	79	8	4				08420 45.96 45.00
10	1.0	22	9.7	30	32	72	10	4	10210	38.70	38.00	
10	0.1	22	9.7	30	32	72	10	4	10201	38.70	38.00	
10	0.3	22	9.7	30	32	72	10	4	10203	38.70	38.00	
10	0.5	22	9.7	30	32	72	10	4	10205	38.70	38.00	
10	1.5	22	9.7	30	32	72	10	4	10215	38.70	38.00	
10	2.0	22	9.7	30	32	72	10	4	10220	38.70	38.00	
10	1.0	21	9.7	50	54	93	10	4				10410 61.67 61.00
10	0.3	21	9.7	50	54	93	10	4				10403 61.67 61.00
10	0.5	21	9.7	50	54	93	10	4				10405 61.67 61.00
10	1.5	21	9.7	50	54	93	10	4				10415 61.67 61.00
10	2.0	21	9.7	50	54	93	10	4				10420 61.67 61.00
12	0.5	26	11.6	36	38	83	12	4	12205	50.26	59.00	
12	0.1	26	11.6	36	38	83	12	4	12201	50.26	59.00	
12	0.3	26	11.6	36	38	83	12	4	12203	50.26	59.00	
12	1.0	26	11.6	36	38	83	12	4	12210	50.26	59.00	
12	1.5	26	11.6	36	38	83	12	4	12215	50.26	59.00	
12	2.0	26	11.6	36	38	83	12	4	12220	50.26	59.00	
12	3.0	26	11.6	36	38	83	12	4	12230	50.26	59.00	
12	1.5	25	11.6	60	64	108	12	4				12415 89.50 89.00
12	0.3	25	11.6	60	64	108	12	4				12403 89.50 89.00
12	0.5	25	11.6	60	64	108	12	4				12405 89.50 89.00
12	1.0	25	11.6	60	64	108	12	4				12410 89.50 89.00
12	2.0	25	11.6	60	64	108	12	4				12420 89.50 89.00
12	3.0	25	11.6	60	64	108	12	4				12430 89.50 89.00
16	0.3	36	15.5	42	44	92	16	4	16203	90.71	90.00	
16	0.1	36	15.5	42	44	92	16	4	16201	90.71	90.00	
16	0.5	36	15.5	42	44	92	16	4	16205	90.71	90.00	
16	1.0	36	15.5	42	44	92	16	4	16210	90.71	90.00	
16	1.5	36	15.5	42	44	92	16	4	16215	90.71	90.00	
16	2.0	36	15.5	42	44	92	16	4	16220	90.71	90.00	
16	3.0	36	15.5	42	44	92	16	4	16230	90.71	90.00	
16	4.0	36	15.5	42	44	92	16	4	16240	90.71	90.00	
16	1.5	33	15.5	80	84	132	16	4				16415 139.88 139.00
16	0.3	33	15.5	80	84	132	16	4				16403 139.88 139.00
16	0.5	33	15.5	80	84	132	16	4				16405 139.88 139.00
16	1.0	33	15.5	80	84	132	16	4				16410 139.88 139.00
16	2.0	33	15.5	80	84	132	16	4				16420 139.88 139.00
16	3.0	33	15.5	80	84	132	16	4				16430 139.88 139.00
16	4.0	33	15.5	80	84	132	16	4				16440 139.88 139.00
20	0.1	41	19.5	52	54	104	20	4	20201	130.62	130.00	
20	0.3	41	19.5	52	54	104	20	4	20203	130.62	130.00	
20	0.5	41	19.5	52	54	104	20	4	20205	130.62	130.00	
20	1.0	41	19.5	52	54	104	20	4	20210	130.62	130.00	
20	1.5	41	19.5	52	54	104	20	4	20215	130.62	130.00	
20	2.0	41	19.5	52	54	104	20	4	20220	130.62	130.00	
20	3.0	41	19.5	52	54	104	20	4	20230	130.62	130.00	
20	4.0	41	19.5	52	54	104	20	4	20240	130.62	130.00	
20	4.0	42	19.5	100	104	154	20	4				20440 205.60 205.00
20	0.3	42	19.5	100	104	154	20	4				20403 205.60 205.00
20	0.5	42	19.5	100	104	154	20	4				20405 205.60 205.00
20	1.0	42	19.5	100	104	154	20	4				20410 205.60 205.00
20	1.5	42	19.5	100	104	154	20	4				20415 205.60 205.00
20	2.0	42	19.5	100	104	154	20	4				20420 205.60 205.00
20	3.0	42	19.5	100	104	154	20	4				20430 205.60 205.00

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

Finish milling cutter



WNT \ Standard



DC <sub>h10</sub> mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS <sub>h6</sub> mm	ZEFP	54 076 ... PG V3/5C		54 075 ... PG V3/5C			
								£	£	£	£		
6	13	5.6	19	21	57	6	6	06200	22.98	22.00	06200	22.98	22.00
8	19	7.6	25	27	63	8	6	08200	30.24	30.00	08200	30.24	30.00
10	22	9.6	30	32	72	10	6	10200	39.91	39.00	10200	39.91	39.00
12	26	11.5	36	38	83	12	6	12200	64.10	64.00	12200	64.10	64.00
16	32	15.0	42	44	92	16	6	16200	97.96	97.00	16200	97.96	97.00
20	38	19.0	52	54	104	20	6	20200	148.76	148.00	20200	148.76	148.00

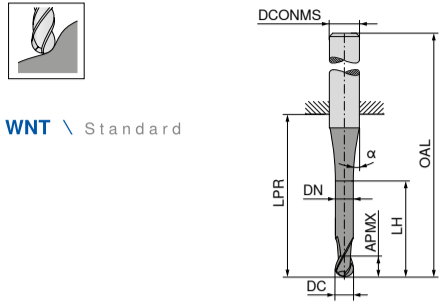
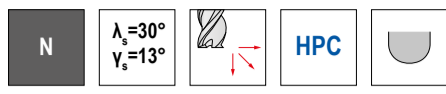
P	●	●
M	●	●
K	○	○
N	○	○
S	○	○
H	○	○
O		

Finish



### Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm



WNT \ Standard



Ti1000



≈DIN 6527

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

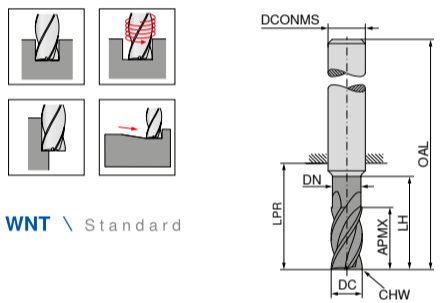
54 073 ... PG V3/5C

	£	£
03115	<del>19.35</del>	19.00
04120	<del>19.35</del>	19.00
05125	<del>19.35</del>	19.00
06130	<del>20.55</del>	20.00
08140	<del>26.60</del>	26.00
10150	<del>33.00</del>	33.00
12160	<del>48.00</del>	48.00
16180	<del>79.00</del>	79.00
20110	<del>113.00</del>	113.00

P	●
M	○
K	●
N	●
S	○
H	○
O	●

### Rough milling cutter

▲ With roughing profile



WNT \ Standard



Ti1000



≈DIN 6527

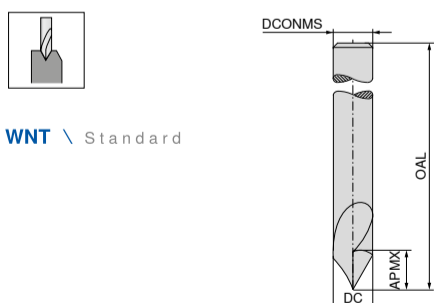
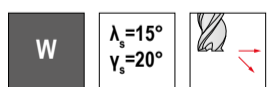
DC <sub>r6</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
4	11	3.8	17	21	57	6	0.1	4
5	13	4.8	19	21	57	6	0.1	4
6	13	5.8	19	21	57	6	0.1	4
8	21	7.7	25	27	63	8	0.2	4
10	22	9.7	30	32	72	10	0.2	4
12	26	11.6	36	38	83	12	0.3	4
16	36	15.5	42	44	92	16	0.3	4
20	41	19.5	52	54	104	20	0.3	4

54 077 ... PG V3/5C

	£	£
00400	<del>22.00</del>	22.00
00500	<del>22.00</del>	22.00
00600	<del>27.00</del>	27.00
00800	<del>35.00</del>	35.00
01000	<del>43.00</del>	43.00
01200	<del>71.00</del>	71.00
01600	<del>107.00</del>	107.00
02000	<del>159.00</del>	159.00

P	●
M	●
K	●
N	○
S	○
H	○
O	○

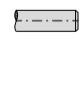
### Engraving cutter 60°



WNT \ Standard



Factory standard



Factory standard

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

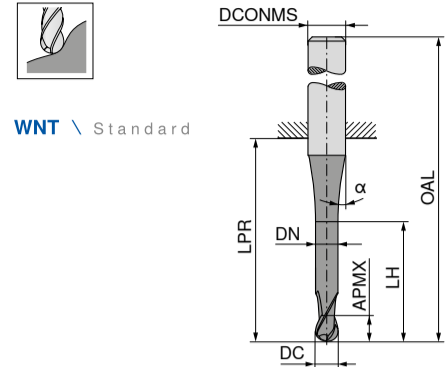
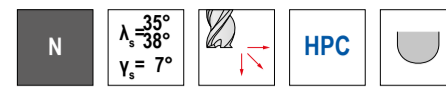
52 195 ... PG V1

	£	£
030	<del>64.58</del>	41.98
040	<del>67.80</del>	44.07
060	<del>73.83</del>	47.99

P	○
M	○
K	○
N	○
S	○
H	○
O	●

### Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm



WNT \ Standard



Ti1000



≈DIN 6527



Ti1000



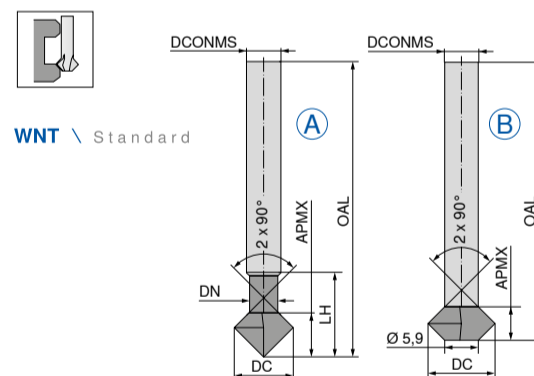
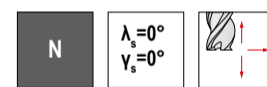
≈DIN 6527

DC <sub>h10</sub>	APMX	DN	LH	LPR	OAL	DCONMS <sub>h6</sub>	α°	ZEFP	54 074 ...	PG V3/5C	£	£
mm	mm	mm	mm	mm	mm	mm						
3	8		21	57	6	30	4	03115	<del>19.35</del>	19.00		
3	8	2.9	15	21	57	6	45	4				
4	11		21	57	6	30	4	04120	<del>19.35</del>	19.00		
4	11	3.9	16	21	57	6	45	4				
5	13		21	57	6	30	4	05125	<del>19.35</del>	19.00		
5	13	4.9	19	21	57	6	45	4				
6	13		21	57	6	30	4	06130	<del>20.55</del>	20.00		
6	13	5.9	19	21	57	6	45	4				
8	19		36	72	8	30	4	08140	<del>26.60</del>	26.00		
8	19	7.8	25	27	72	8	45	4				
10	22		32	72	10	30	4	10150	<del>33.00</del>	33.00		
10	22	9.7	30	32	72	10	45	4				
12	26		38	83	12	30	4	12160	<del>48.00</del>	48.00		
12	26	11.7	36	38	83	12	45	4				
16	32		44	92	16	30	4	16180	<del>79.00</del>	79.00		
16	32	15.5	42	44	92	16	45	4				
20	38		54	104	20	30	4	20110	<del>113.00</del>	113.00		
20	38	19.5	52	54	104	20	45	4				

	£	£	54 074 ...	PG V3/5C	£	£
03215	<del>19.00</del>	19.00				
04220	<del>19.00</del>	19.00				
05225	<del>19.00</del>	19.00				
06430	<del>22.00</del>	22.00				
08440	<del>27.00</del>	27.00				
10450	<del>36.00</del>	36.00				
12460	<del>56.00</del>	56.00				
16480	<del>83.00</del>	83.00				
20410	<del>120.00</del>	120.00				

P	●
M	●
K	●
N	○
S	○
H	○
O	○

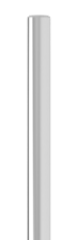
### NC front and rear chamfer milling cutter



WNT \ Standard



Ti1000



Factory standard

DC	APMX	DN	LH	OAL	DCONMS <sub>h6</sub>	ZEFP	Fig.
mm	mm	mm	mm	mm	mm		
3	2.0	2.2	12.0	75	4	4	A
4	2.7	2.9	17.7	75	4	4	A
5	3.0	3.9	18.0	75	5	4	A
6	4.0	3.9	19.0	100	6	4	A
8	2.0			100	6	4	B
10	4.0			100	6	4	B
12	6.0			100	6	4	B

52 159 ... PG V1

	£	£
030	<del>78.34</del>	78.34
040	<del>77.91</del>	77.91
050	<del>80.93</del>	80.93
060	<del>81.00</del>	81.00
080	<del>107.28</del>	107.28
100	<del>132.44</del>	132.44
120	<del>157.86</del>	157.86

P	●
M	○
K	●
N	○
S	○
H	○
O	●



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# MILLING TOOLS WITH INDEXABLE INSERTS

## SYSTEM



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



MaxiMill 252 – New generation heavy duty button milling system.



MaxiMill 251 – first choice indexable button milling system.



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



WPS – first choice indexable chamfer milling cutter.



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



MaxiMill Slot-SX – New side and face milling cutters deliver maximum process security and optimum performance thanks to thro' coolant.

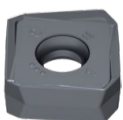


MaxiMill A HFC – first choice indexable high feed milling system.



MaxiMill 242 – first choice chamfer milling system.

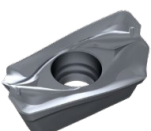
## GRADES



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



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



CTPP235 – first choice for steels with or without coolant.



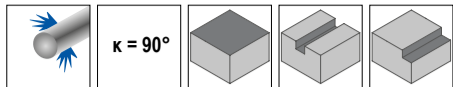
M1 – first choice chipbreaker for parting off.



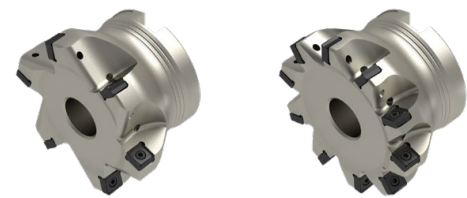
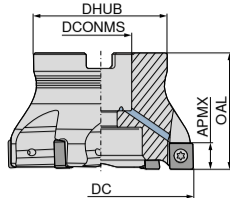
CTWN215 – first choice for aluminium and other non ferrous materials.



### MaxiMill – 491-09 Shell mill



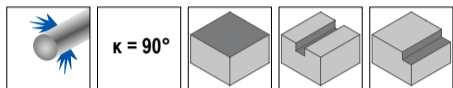
CERATIZIT \ Performance



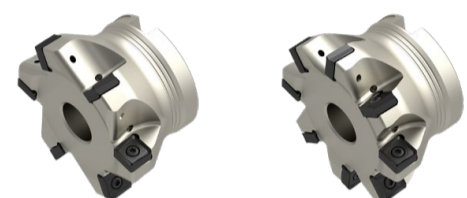
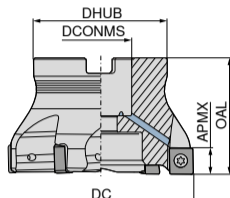
Designation	DC mm	OAL mm	DHUB mm	DCONMS <sub>H6</sub> mm	APMX mm	Insert	ZNF
A491.40.R.03-09	40	40	38	16	6	SNHU 09T3	3
A491.40.R.05-09	40	40	38	16	6	SNHU 09T3	5
A491.50.R.04-09	50	40	43	22	6	SNHU 09T3	4
A491.50.R.06-09	50	40	43	22	6	SNHU 09T3	6
A491.63.R.05-09	63	40	48	22	6	SNHU 09T3	5
A491.63.R.08-09	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 ... PG 2B/40		50 776 ... PG 2B/40	
	£	£	£	£
240	<del>447.80</del>	56.00	<del>520.53</del>	65.00
250	<del>406.20</del>	62.00	<del>568.90</del>	71.00
263	<del>583.13</del>	74.00	<del>702.00</del>	87.00
280	<del>629.52</del>	78.00	<del>774.73</del>	96.00

### MaxiMill – 491-12 Shell mill



CERATIZIT \ Performance

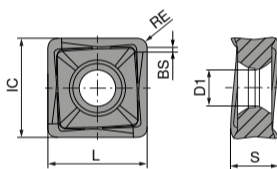


Designation	DC mm	OAL mm	DHUB mm	DCONMS <sub>H6</sub> mm	APMX mm	RPMX 1/min.	torque moment Nm	Insert	ZNF
A491.50.R.04-12	50	40	43	22	8	9800	3,2	SNHU 1204	4
A491.50.R.05-12	50	40	43	22	8	9800	3,2	SNHU 1204	5
A491.63.R.05-12	63	40	48	22	8	8500	3,2	SNHU 1204	5
A491.63.R.06-12	63	40	48	22	8	8500	3,2	SNHU 1204	6
A491.80.R.06-12	80	50	58	27	8	7400	3,2	SNHU 1204	6
A491.80.R.08-12	80	50	58	27	8	7400	3,2	SNHU 1204	8
A491.100.R.07-12	100	50	78	32	8	6500	3,2	SNHU 1204	7
A491.100.R.10-12	100	50	78	32	8	6500	3,2	SNHU 1204	10

	50 775 ... PG 2B/40		50 776 ... PG 2B/40	
	£	£	£	£
050	<del>406.20</del>	74.00	<del>532.64</del>	80.00
063	<del>583.13</del>	89.00	<del>629.52</del>	94.00
080	<del>629.52</del>	94.00	<del>726.26</del>	109.00
100	<del>708.85</del>	120.00	<del>907.96</del>	136.00

### SNHU

Designation	IC mm	L mm	S mm	D1 mm
SNHU 09T3..	9.15	9.15	3.70	3.85
SNHU 1204..	12.20	12.20	5.00	4.40



### SNHU

CERATIZIT \ Performance

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

**-M50**  
CTPM240  
DRAGONSKIN

SNHU

	51 120 ... PG 1B/61	
	£	£
408	<del>25.34</del>	19.01
41200	<del>25.34</del>	19.01
41600	<del>25.34</del>	19.01

**-M50**  
CTPP235  
DRAGONSKIN

SNHU

	51 120 ... PG 1B/61	
	£	£
108	<del>25.34</del>	19.01
11200	<del>25.34</del>	19.01
11600	<del>25.34</del>	19.01

**-F10**  
CTWN215

SNHU

	51 118 ... PG 1B/61	
	£	£
358	<del>25.34</del>	19.01
36200	<del>25.34</del>	19.01
36600	<del>25.34</del>	19.01

**-F40**  
CTC5240  
DRAGONSKIN

SNHU

	51 126 ... PG 1H/17	
	£	£
15800	<del>31.70</del>	23.78

### SNHU

CERATIZIT \ Performance

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

**-M50**  
CTPM240  
DRAGONSKIN

SNHU

	51 100 ... PG 1B/61	
	£	£
408	<del>30.95</del>	23.21

**-M50**  
CTPP235  
DRAGONSKIN

SNHU

	51 100 ... PG 1B/61	
	£	£
108	<del>30.95</del>	23.21
112	<del>30.95</del>	23.21
116	<del>30.95</del>	23.21
120	<del>30.95</del>	23.21

**-F10**  
CTWN215

SNHU

	51 101 ... PG 1B/61	
	£	£
358	<del>30.95</del>	23.21
362	<del>30.95</del>	23.21
366	<del>30.95</del>	23.21
370	<del>30.95</del>	23.21

**-F40**  
CTC5240  
DRAGONSKIN

SNHU

	51 128 ... PG 1H/17	
	£	£
15800	<del>38.96</del>	28.55



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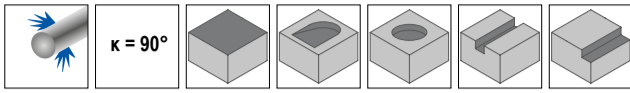
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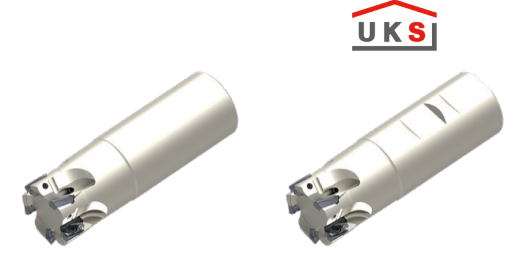
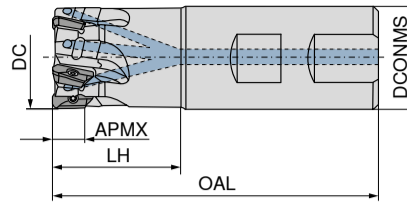
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### MaxiMill – 211-11 End milling cutter

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



CERATIZIT \ Performance

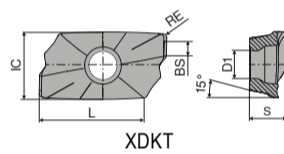


ISO designation	DC mm	OAL mm	LH mm	DCONMS <sub>h6</sub> mm	APMX mm	RPMX 1/min.	Insert	ZNF
C211.16.R.02-11-A-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-B-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-A15-32-165	16	165	32	15	10	14800	XD.T 11T3	2
C211.16.R.02-11-A-32-165	16	165	32	16	10	14800	XD.T 11T3	2
C211.20.R.03-11-A-25	20	77	25	20	10	36900	XD.T 11T3	3
C211.20.R.03-11-B-25	20	77	25	20	10	36900	XD.T 11T3	3
C211.20.R.02-11-A-25	20	77	25	20	10	36900	XD.T 11T3	2
C211.20.R.03-11-A-32-165	20	165	32	20	10	15800	XD.T 11T3	3
C211.20.R.02-11-A19-40-200	20	200	40	19	10	10500	XD.T 11T3	2
C211.20.R.02-11-A-40-200	20	200	40	20	10	10500	XD.T 11T3	2
C211.25.R.03-11-A-32	25	90	32	25	10	33200	XD.T 11T3	3
C211.25.R.04-11-B-32	25	90	32	25	10	33200	XD.T 11T3	4
C211.25.R.04-11-A-32	25	90	32	25	10	33200	XD.T 11T3	4
C211.25.R.04-11-A-40-165	25	165	40	25	10	19900	XD.T 11T3	4
C211.25.R.03-11-A-50-225	25	225	50	25	10	9400	XD.T 11T3	3
C211.25.R.03-11-A24-50-225	25	225	50	24	10	9400	XD.T 11T3	3
C211.25.R.02-11-A-50-225	25	225	50	25	10	9400	XD.T 11T3	2
C211.32.R.04-11-A-40	32	102	40	32	10	30200	XD.T 11T3	4
C211.32.R.05-11-B-40	32	102	40	32	10	30200	XD.T 11T3	5
C211.32.R.05-11-A-40	32	102	40	32	10	30200	XD.T 11T3	5
C211.32.R.04-11-A25-40	32	102	40	25	10	30200	XD.T 11T3	4
C211.32.R.05-11-A-50-165	32	165	50	32	10	20900	XD.T 11T3	5
C211.32.R.04-11-A-64-250	32	250	64	32	10	8500	XD.T 11T3	4

50 737 ...	PG 2B/40		50 737 ...	PG 2B/40	
	£	£		£	£
116	<del>266.10</del>	33.00	016	<del>266.10</del>	33.00
316	<del>266.10</del>	33.00	216	<del>266.10</del>	33.00
120	<del>302.11</del>	37.00	020	<del>302.11</del>	37.00
12002	<del>280.53</del>	37.00	320	<del>302.11</del>	37.00
620	<del>280.53</del>	35.00	420	<del>280.53</del>	35.00
420	<del>280.53</del>	35.00	625	<del>316.54</del>	39.00
125	<del>328.12</del>	42.00	025	<del>328.12</del>	42.00
325	<del>328.12</del>	42.00	425	<del>316.54</del>	39.00
825	<del>316.54</del>	39.00	02502	<del>295.07</del>	38.00
13204	<del>352.45</del>	46.00	032	<del>374.15</del>	46.00
132	<del>374.15</del>	46.00	53204	<del>352.45</del>	46.00
332	<del>374.15</del>	46.00	432	<del>352.45</del>	44.00

### 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

ISO	50 478 ... PG 1A/90		50 463 ... PG 1H/17		51 037 ... PG 1B/61		51 037 ... PG 1B/61	
	£	£	£	£	£	£	£	£
11T302FR	<del>20.39</del>	15.29	502	<del>20.88</del>	17.75	104	<del>46.23</del>	12.17
11T304ER	<del>20.39</del>	15.29	504	<del>20.88</del>	17.75	404	<del>46.23</del>	12.17
11T304FR	<del>20.39</del>	15.29	508	<del>20.88</del>	17.75	108	<del>46.23</del>	12.17
11T304SR	<del>20.39</del>	15.29	512	<del>20.88</del>	17.75	408	<del>46.23</del>	12.17
11T308ER	<del>20.39</del>	15.29	516	<del>20.88</del>	17.75	112	<del>46.23</del>	12.17
11T308FR	<del>20.39</del>	15.29	520 <sup>1)</sup>	<del>20.88</del>	17.75	412	<del>46.23</del>	12.17
11T308SR	<del>20.39</del>	15.29	525 <sup>1)</sup>	<del>20.88</del>	17.75	120 <sup>1)</sup>	<del>46.23</del>	12.17
11T312ER	<del>20.39</del>	15.29	532 <sup>1)</sup>	<del>20.88</del>	17.75	420 <sup>1)</sup>	<del>46.23</del>	12.17
11T312SR	<del>20.39</del>	15.29	540 <sup>1)</sup>	<del>20.88</del>	17.75	125 <sup>1)</sup>	<del>46.23</del>	12.17
11T316ER	<del>20.39</del>	15.29				432 <sup>1)</sup>	<del>46.23</del>	12.17
11T320ER	<del>20.39</del>	15.29						
11T320FR	<del>20.39</del>	15.29						
11T320SR	<del>20.39</del>	15.29						
11T325ER	<del>20.39</del>	15.29						
11T325FR	<del>20.39</del>	15.29						
11T325SR	<del>20.39</del>	15.29						
11T332ER	<del>20.39</del>	15.29						
11T332SR	<del>20.39</del>	15.29						
11T340ER	<del>20.39</del>	15.29						

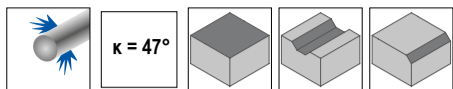
1) Insert radius >1.6 mm: Modify cutter body



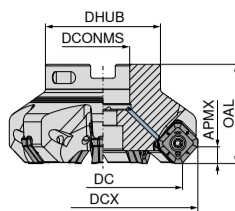


### MaxiMill – 271-12 Face mill

▲ 8 cutting edges per insert



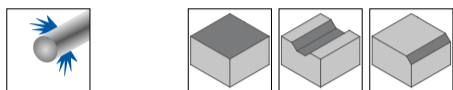
CERATIZIT \ Performance



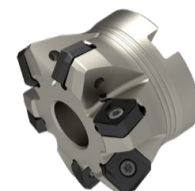
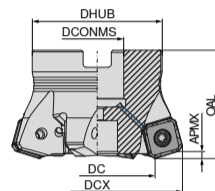
ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS <sub>H6</sub> mm	RPMX 1/min.	torque moment Nm	Insert
A271.40.R.04-12	40	53	4	6.8	40	38	16	17900	3,2	SOHU 1204.. / XOHU 1204..
A271.50.R.05-12	50	63	5	6.8	40	43	22	15200	3,2	SOHU 1204.. / XOHU 1204..
A271.63.R.07-12	63	76	7	6.8	40	48	22	13100	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 ... PG 2B/40		50 787 ... PG 2B/40	
£	£	£	£
04004	<del>470.55</del> 58.00		
05005	<del>482.32</del> 60.00		
06307	<del>611.73</del> 76.00		
08008	<del>705.82</del> 88.00	08006	<del>611.73</del> 76.00
		10007	<del>776.35</del> 96.00
10010	<del>882.33</del> 109.00		

### MaxiMill – 271-12 HFC Face mill



CERATIZIT \ Performance

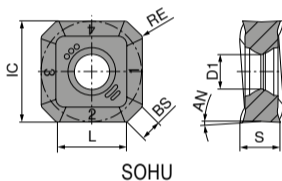


ISO designation	DC mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS <sub>H6</sub> mm	RPMX 1/min.	torque moment Nm	Insert
A271.50.R.04-12-HFC	30	4	2.6	40	43	22	14600	3,2	SOHU 1204..
A271.63.R.06-12-HFC	43	6	2.6	40	48	22	12500	3,2	SOHU 1204..
A271.80.R.07-12-HFC	60	7	2.6	50	58	27	10800	3,2	SOHU 1204..

50 788 ... PG 2B/40	
£	£
05004	<del>482.32</del> 60.00
06306	<del>611.73</del> 76.00
08007	<del>705.82</del> 88.00

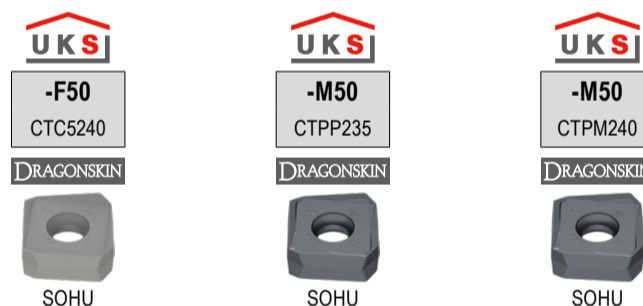
### SOHU

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



ISO	RE mm	51 140 ... PG 1H/17		51 138 ... PG 1B/61		51 138 ... PG 1B/61	
		£	£	£	£	£	£
1204ABSR	0.8	17000	<del>36.60</del> 31.11	12000	<del>29.77</del> 22.33	42000	<del>29.77</del> 22.33

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

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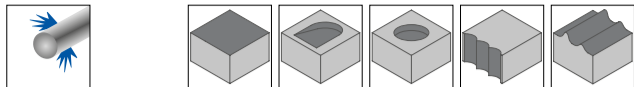


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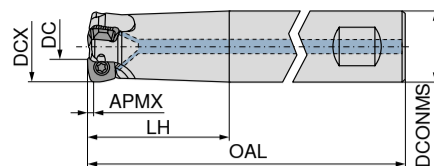


When you see this logo it's in stock in Sheffield

### MaxiMill – HFC high-feed end mill



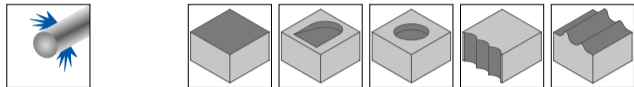
CERATIZIT \ Performance



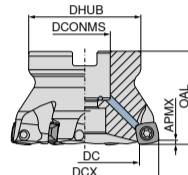
ISO designation	DC	OAL	LH	DCONMS <sub>H6</sub>	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	1/min.		
CHFC.16.R.02-06-A-40-200	7.0	200	40	16	0.8	4600	XPLX 0603..	2
CHFC.16.R.02-06-B-40	7.0	89	40	16	0.8	17300	XPLX 0603..	2
CHFC.20.R.03-06-A-50-225	11.0	225	50	20	0.8	4200	XPLX 0603..	3
CHFC.20.R.03-06-B-50	11.0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

50 681 ...	PG 2B/40	50 681 ...	PG 2B/40		
	£	£	£		
716	<del>266.10</del>	35.00	616	<del>266.10</del>	35.00
720	<del>302.11</del>	39.00	620	<del>302.11</del>	39.00
025	<del>348.62</del>	40.00			
125	<del>348.62</del>	42.00			
132	<del>384.21</del>	41.00			
725	<del>388.12</del>	44.00			
035	<del>357.29</del>	44.00	625	<del>338.12</del>	44.00
032	<del>357.29</del>	44.00			
732	<del>374.15</del>	49.00	632	<del>374.15</del>	49.00

### MaxiMill – HFC high-feed face mill



CERATIZIT \ Performance

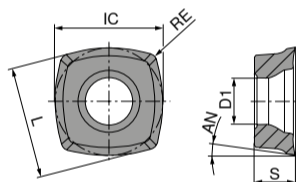


ISO designation	DC	OAL	DCONMS <sub>H6</sub>	DHUB	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	1/min.		
AHFC.32.R.03-09	19.3	40	16	38	1	27700	XDLX 09T3..	3
AHFC.35.R.04-09	19.3	40	16	38	1	26700	XDLX 09T3..	4
AHFC.40.R.04-09	27.3	40	16	38	1	26400	XDLX 09T3..	4
AHFC.42.R.05-09	29.3	40	16	38	1	26100	XDLX 09T3..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

50 683 ...	PG 2B/40	50 683 ...	PG 2B/40		
	£	£	£		
032	<del>357.29</del>	44.00			
035	<del>388.62</del>	47.00			
140	<del>398.29</del>	49.00			
142	<del>418.29</del>	52.00			
150	<del>466.14</del>	58.00			
152	<del>488.47</del>	61.00			
163	<del>535.99</del>	66.00			
16600	<del>559.29</del>	73.00			
040	<del>373.99</del>	46.00			
042	<del>398.29</del>	49.00			
050	<del>442.71</del>	55.00			
052	<del>466.14</del>	58.00			
063	<del>512.67</del>	64.00			
066	<del>535.99</del>	66.00			

### XPLX

CERATIZIT \ Performance



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



**-F40**

CTC5240

DRAGONSKIN



XPLX

50 518 ...	PG 1H/17	50 518 ...	PG 1H/17		
	£	£	£		
558	<del>17.38</del>	14.77			



**-M50**

CTPP235

DRAGONSKIN



XPLX

51 019 ...	PG 1B/61	51 019 ...	PG 1B/61		
	£	£	£		
105	<del>14.25</del>	10.69			



**-M50**

CTPM240

DRAGONSKIN

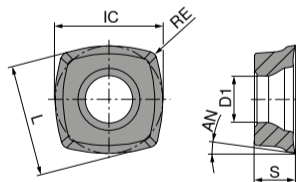


XPLX

51 019 ...	PG 1B/61	51 019 ...	PG 1B/61		
	£	£	£		
405	<del>14.25</del>	10.69			

### XDLX

CERATIZIT \ Performance



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



**-F40**

CTC5240

DRAGONSKIN



XDLX

50 503 ...	PG 1H/17	50 503 ...	PG 1H/17		
	£	£	£		
558	<del>17.72</del>	15.06			



**-M50**

CTPP235

DRAGONSKIN



XDLX

51 016 ...	PG 1B/61	51 016 ...	PG 1B/61		
	£	£	£		
108	<del>14.68</del>	11.01			



**-M50**

CTPM240

DRAGONSKIN

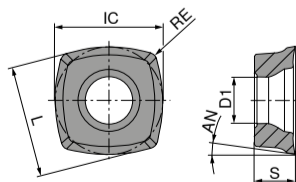


XDLX

51 016 ...	PG 1B/61	51 016 ...	PG 1B/61		
	£	£	£		
408	<del>14.68</del>	11.01			

### XOHX / XOLX

CERATIZIT \ Performance



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



**-F50**

CTC5240

DRAGONSKIN



XOHX

51 124 ...	PG 1H/17	51 124 ...	PG 1H/17		
	£	£	£		
16000	<del>26.96</del>	22.92			



**-M50**

CTPP235

DRAGONSKIN



XOLX

51 017 ...	PG 1B/61	51 017 ...	PG 1B/61		
	£	£	£		
110	<del>17.61</del>	13.21			



**-M50**

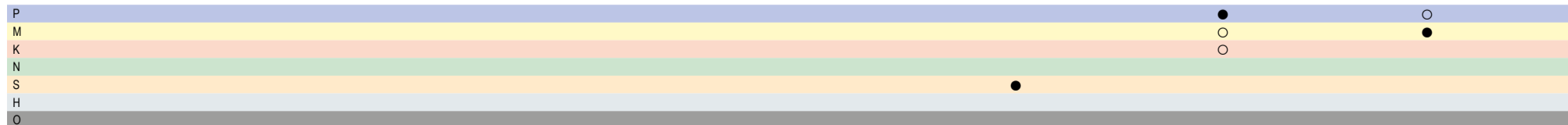
CTPM240

DRAGONSKIN



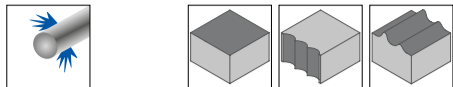
XOLX

51 017 ...	PG 1B/61	51 017 ...	PG 1B/61		
	£	£	£		
410	<del>17.61</del>	13.21			

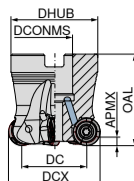




MaxiMill – 252 Shell mill



CERATIZIT \ Performance

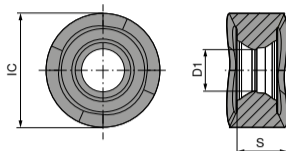


ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS mm	torque moment Nm	Insert
A252.40.R.04-12	28	40	4	3	40	38	16	3,2	RNHU 1205..
A252.50.R.05-12	38	50	5	3	40	43	22	3,2	RNHU 1205..
A252.52.R.05-12	40	52	5	3	40	43	22	3,2	RNHU 1205..
A252.63.R.06-12	51	63	6	3	40	48	22	3,2	RNHU 1205..

50 689 ...		PG 2B/40	
£	£	£	£
240	<del>434.30</del>	65.00	
250	<del>557.35</del>	79.00	
252	<del>558.66</del>	79.00	
263	<del>651.43</del>	98.00	

RNHU

Designation	IC mm	D1 mm	S mm
RNHU 1205..	12	4.4	5.30



RNHU

CERATIZIT \ Performance

-M32  
CTPM245

-M31  
CTC5240

DRAGONSKIN

DRAGONSKIN



RNHU

RNHU

ISO	51 107 ...		PG 1H/17		50 521 ...		PG 1H/17	
1205M4ER	£	£	£	£	£	£	£	
P	475	<del>31.35</del>	26.65		552	<del>31.35</del>	26.65	
M								
K								
N								
S								
H								
O								



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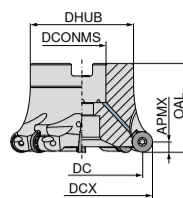
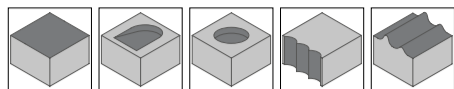


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### MaxiMill – 251 RS Shell mill



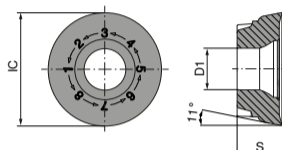
CERATIZIT \ Performance

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

50 686 ...	PG 2B/40	£	£
140		<del>440.63</del>	51.00
142		<del>471.03</del>	59.00
150		<del>488.32</del>	61.00
152		<del>488.32</del>	61.00
340		<del>377.72</del>	47.00
050		<del>458.42</del>	57.00
052		<del>488.83</del>	63.00
063		<del>566.02</del>	70.00
166		<del>596.73</del>	78.00
080		<del>638.51</del>	79.00

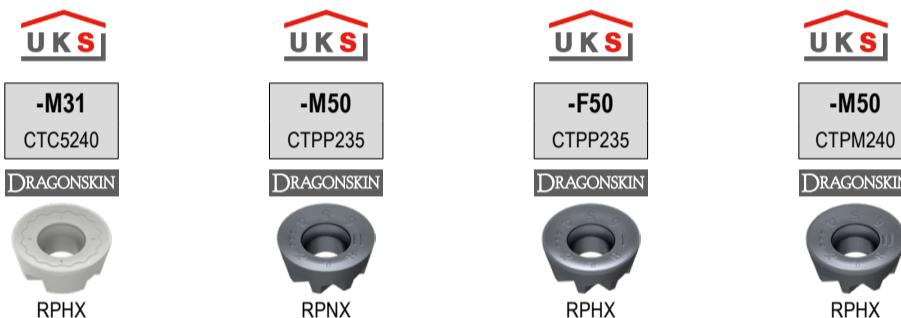
### RPHX / RPNX

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



ISO	50 493 ... PG 1H/17		51 054 ... PG 1B/61		51 051 ... PG 1B/61		51 050 ... PG 1B/61	
	£	£	£	£	£	£	£	£
10T3M4EN	550	<del>18.70</del> 15.90						
10T3M8EN	551	<del>18.70</del> 15.90						
10T3M8SN			12000	<del>11.28</del> 8.46	12000	<del>14.80</del> 11.10	420	<del>14.80</del> 11.10
1204M4EN	552	<del>20.60</del> 17.51						
1204M6EN	56200	<del>20.60</del> 17.51						
1204M8EN	582	<del>20.60</del> 17.51						
1204M8SN			125	<del>12.06</del> 9.72	125	<del>16.23</del> 12.17	425	<del>16.23</del> 12.17
P			●		●		○	
M			○		○		○	
K			○		○		○	
N								
S			●					
H								
O								

1) Insert with 4 indexes

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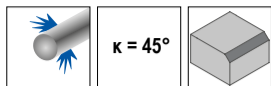
THE Cutting Tool Solution



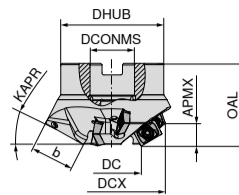


### MaxiMill – 242 Chamfer Cutter

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



CERATIZIT \ Performance



KAPR °	DC mm	DCX mm	ZNF	APMX mm	ZEFP	b ±0.3 mm	OAL mm	DCONMS mm	DHUB mm	ZNP	torque moment Nm	Insert
30	35	83.60	3	13.6	6	27.6	50	27	62.5	2	3,2	LD.. 15...
45	35	74.60	3	19.3	6	27.6	50	27	62.5	2	3,2	LD.. 15...
15	35	89.60	3	7.0	6	27.6	50	27	62.5	2	3,2	LD.. 15...
60	35	62.70	3	23.6	6	27.6	50	22	49.0	2	3,2	LD.. 15...
75	35	49.48	3	26.7	6	27.6	60	22	49.0	2	3,2	LD.. 15...

50 768 ...	PG 2B/40
13003	£ 65.00
14503	£ 65.00
11503	£ 65.00
16003	£ 65.00
17503 <sup>1)</sup>	£ 65.00

1) Version with Powerscrew

### LDFT

CERATIZIT \ Performance

-F10  
CTPX715

DRAGONSKIN



LDFT

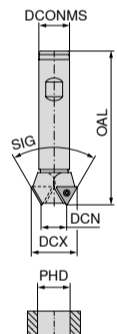
ISO designation	IC mm	D1 mm	L mm	BS mm	S mm	ISO	RE mm
LDFT 150408FR	9.52	4.4	15	1.2	4.76	150408FR	0.8

51 157 ...	PG 1A/90
00802	£ 21.27

### Indexable chamfer milling 90°

Scope of supply:  
Indexable insert countersink including clamping screws

KOMET \ Performance

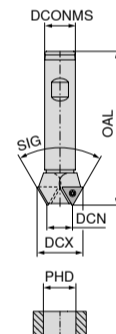


DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 196 ...	PG U1/4D
19	7	9.5	2	16	100	TOHX 090204	19000	£ 50.00
23	11	12.0	2	16	100	TOHX 090204	23000	£ 50.00
26	11	12.0	1	16	100	TOHX 090204	26000	£ 50.00
30	12	13.0	2	20	100	TOHX 140305	30000	£ 50.00
34	16	17.0	2	20	100	TOHX 140305	34000	£ 50.00
37	19	20.0	2	20	100	TOHX 140305	37000	£ 50.00

### Indexable chamfer milling 60°

Scope of supply:  
Indexable insert countersink including clamping screws

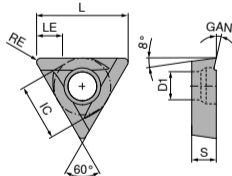
KOMET \ Performance



DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 197 ...	PG U1/4D
16.5	8.1	8.5	1	16	100	TOHX 090204	16500	£ 50.00
20.0	11.6	12.0	2	16	100	TOHX 090204	20000	£ 50.00
22.0	13.6	14.0	2	16	100	TOHX 090204	22000	£ 50.00
23.5	15.1	15.5	2	16	100	TOHX 090204	23500	£ 50.00
25.5	17.1	17.5	2	16	100	TOHX 090204	25500	£ 50.00

### TOHX

KOMET \ Performance



ISO designation	L mm	S mm	D1 mm	IC mm	ISO	RE mm
TOHX 06T103EL	6.50	1.80	2.2	4.0	06T103EL	0.3
TOHX 090204EL	9.12	2.50	2.8	5.6	090204EL	0.4
TOHX 090204EN	9.12	2.50	2.8	5.6	090204EN	0.4
TOHX 140304EL	13.62	3.00	3.8	8.2	140304EL	0.4

62 603 ...	PG 1A/3#
31400	£ 19.09
30200	£ 16.39
31800	£ 18.54
32600	£ 20.90

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



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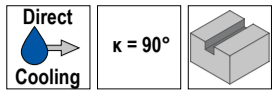


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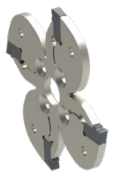
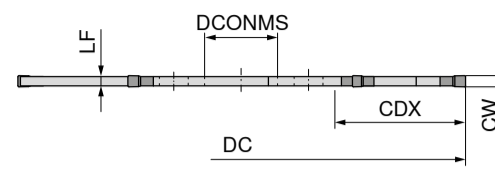
## MaxiMill – Slot-SX slot milling and parting off cutter

**Scope of supply:**

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



CERATIZIT \ Performance



Designation	DC mm	CW mm	CDX mm	DCONMS <sub>H6</sub> mm	DHUB mm	OAL mm	ZEFP	Insert	Adapter
ASLOT.80.R.6.13.DC-SX2	80	2	23	13	32	2.675	6	SX E2 ..	AD.SLOT.13...
ASLOT.80.R.6.13.DC-SX3	80	3	23	13		2.750	6	SX E3 ..	AD.SLOT.13...
ASLOT.80.R.4.13.DC-SX4	80	4	23	13		3.750	4	SX E4 ..	AD.SLOT.13...
ASLOT.80.R.4.13.DC-SX5	80	5	23	13		4.750	4	SX E5 ..	AD.SLOT.13...

50 383 ...		PG 2B/40
£	£	
08002	<del>585.30</del>	73.00
08003	<del>585.30</del>	73.00
08004	<del>585.30</del>	73.00
08005	<del>585.30</del>	73.00

**Spare parts**

for Article no.

- 50 383 08002
- 50 383 08003
- 50 383 08004
- 50 383 08005

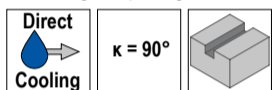


70 950 ...	
£	
25.00	836
25.00	836
25.00	837
25.00	837

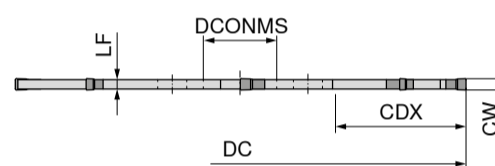
## MaxiMill – Slot-SX slot milling and parting off cutter

**Scope of supply:**

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



CERATIZIT \ Performance



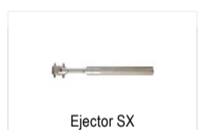
Designation	DC mm	CW mm	CDX mm	DCONMS <sub>H6</sub> mm	DHUB mm	OAL mm	ZEFP	Insert	Adapter
ASLOT.100.R.8.22.DC-SX2	100	2	29	22	40	2.675	8	SX E2 ..	AD.SLOT.22...
ASLOT.100.R.8.22.DC-SX3	100	3	29	22		2.750	8	SX E3 ..	AD.SLOT.22...
ASLOT.100.R.6.22.DC-SX4	100	4	29	22		3.750	6	SX E4 ..	AD.SLOT.22...
ASLOT.100.R.6.22.DC-SX5	100	5	29	22		4.750	6	SX E5 ..	AD.SLOT.22...
ASLOT.100.R.4.22.DC-SX6	100	6	29	22		5.700	4	SX E6 ..	AD.SLOT.22...

50 384 ...		PG 2B/40
£	£	
10002	<del>780.54</del>	97.00
10003	<del>780.54</del>	97.00
10004	<del>780.54</del>	97.00
10005	<del>780.54</del>	97.00
10006	<del>780.54</del>	97.00

**Spare parts**

for Article no.

- 50 384 10002
- 50 384 10003
- 50 384 10004
- 50 384 10005
- 50 384 10006

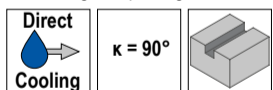


70 950 ...	
£	
25.00	836
25.00	836
25.00	837
25.00	837

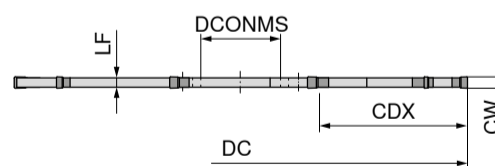
## MaxiMill – Slot-SX slot milling and parting off cutter

**Scope of supply:**

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



CERATIZIT \ Performance



Designation	DC mm	CW mm	CDX mm	DCONMS <sub>H6</sub> mm	DHUB mm	OAL mm	ZEFP	Insert	Adapter
ASLOT.125.R.10.22.DC-SX2	125	2	42	22	40	2.675	10	SX E2 ..	AD.SLOT.22...
ASLOT.125.R.10.22.DC-SX3	125	3	42	22		2.750	10	SX E3 ..	AD.SLOT.22...

50 385 ...		PG 2B/40
£	£	
12502	<del>975.66</del>	121.00
12503	<del>975.66</del>	121.00

**Spare parts**

for Article no.

- 50 385 12502
- 50 385 12503



70 950 ...	
£	
25.00	836
25.00	836

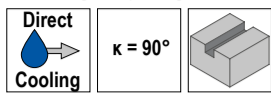




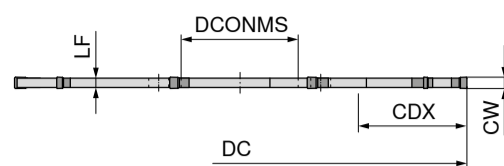
## MaxiMill – Slot-SX slot milling and parting off cutter

**Scope of supply:**

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



CERATIZIT \ Performance



Designation	DC mm	CW mm	CDX mm	DCONMS <sub>H6</sub> mm	DHUB mm	OAL mm	ZEFP	Insert	Adapter
ASLOT.125.R.10.32.DC-SX2	125	2	30	32	63	2.675	10	SX E2 ..	AD.SLOT.32...
ASLOT.125.R.10.32.DC-SX3	125	3	30	32		2.750	10	SX E3 ..	AD.SLOT.32...
ASLOT.125.R.8.32.DC-SX4	125	4	30	32		3.750	8	SX E4 ..	AD.SLOT.32...
ASLOT.125.R.8.32.DC-SX5	125	5	30	32		4.750	8	SX E5 ..	AD.SLOT.32...
ASLOT.125.R.8.32.DC-SX6	125	6	30	32		5.700	8	SX E6 ..	AD.SLOT.32...

50 386 ... PG 2B/40	
£	£
12502	<del>975.66</del> 121.00
12503	<del>975.66</del> 121.00
12504	<del>975.66</del> 121.00
12505	<del>975.66</del> 121.00
12506	<del>975.66</del> 121.00

**Spare parts for Article no.**

- 50 386 12502
- 50 386 12503
- 50 386 12504
- 50 386 12505
- 50 386 12506



Ejector SX

70 950 ...	
£	£
25.00	836
25.00	836
25.00	837
25.00	837
25.00	837

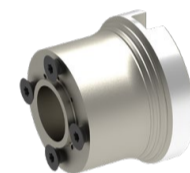
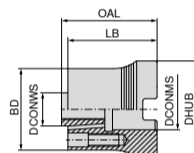
## MaxiMill – Slot-SX multipurpose milling cutter adapter

**Scope of supply:**

Multipurpose milling cutter adapter including screws



CERATIZIT \ Performance

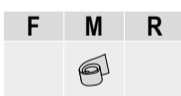


Designation	DCONMS mm	DCONWS <sub>H6</sub> mm	LB mm	OAL mm	BD mm
AD.SLOT.13.32.A16	16	13	35	37.5	32
AD.SLOT.22.40.A22	22	22	35	37.5	40
AD.SLOT.32.63.A27	27	32	45	47.5	63
AD.SLOT.40.80.A32.SK	32	40	55	57.5	80
AD.SLOT.40.80.A32.ZK	32	40	55	57.5	80

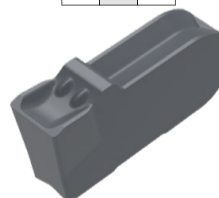
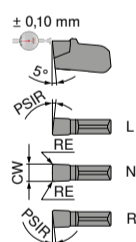
50 395 ... PG 2E/45	
£	£
01300	<del>182.73</del> 23.00
02200	<del>187.56</del> 23.00
03200	<del>204.77</del> 25.00
04000	<del>259.41</del> 32.00
04100	<del>259.41</del> 32.00

## Insert SX

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



CERATIZIT \ Performance



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

70 342 ... PG 10/72	
£	£
622	<del>11.63</del> 10.97
623	<del>15.56</del> 11.67
624	<del>16.42</del> 12.32
625	<del>17.47</del> 13.10
626	<del>18.83</del> 14.12

P	●
M	●
K	●
N	○
S	●
H	●
O	○



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



BMT – Full range of BMT toolholding for lathe turrets.



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



HSK-T – Full range of HSK-T toolholding for multi-tasking lathes.



CentriClamp ZSG4 – High performance, cost effective workholding solution.



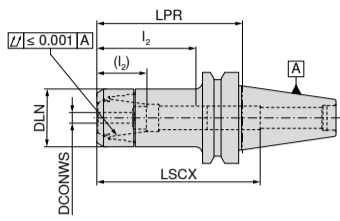
### ER Precision Collet chuck – Centro-P

- ▲ 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 mm	LPR mm	DLN mm	LSCX mm	l <sub>2</sub> (l <sub>2</sub> ) mm	for collet	84 524 ... PG Y8	£	£
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	210	<del>177.22</del>	59.00
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	310	<del>240.35</del>	69.00
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	410	<del>288.42</del>	95.00
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	510	<del>388.46</del>	102.00
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	116	<del>187.19</del>	67.00
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	216	<del>177.22</del>	59.00
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	316	<del>240.35</del>	69.00
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	416	<del>388.46</del>	102.00
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	516	<del>388.46</del>	109.00
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	616	<del>378.98</del>	126.00
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	120	<del>261.16</del>	67.00
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	220	<del>177.22</del>	59.00
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	320	<del>240.35</del>	69.00
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	420	<del>388.46</del>	102.00
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	520	<del>388.46</del>	109.00

LSCX = clamping depth without back stop screw for shanks  
 l<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

### Roll key

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

WNT \ Performance

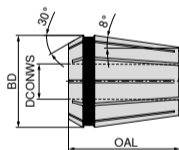


for lock nut	DLN mm	84 950 ... PG Y8	£	£
426E / ER 16 CP	30	027	<del>139.88</del>	46.00
430E / ER 25 CP	40	054	<del>169.84</del>	54.00
470E / ER 32 CP + STD	50	056	<del>152.95</del>	51.00

### 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 mm	BD = 17 OAL = 27.5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32	
	84 596 ... PG Y8	£	£	84 597 ... PG Y8	£	£
1.0	010	<del>413.96</del>	38.00			
1.1	011	<del>269.83</del>	67.00			
1.2	012	<del>269.83</del>	67.00			
1.4	014	<del>269.83</del>	67.00			
1.5	015	<del>413.96</del>	38.00			
1.6	016	<del>269.83</del>	67.00			
1.8	018	<del>269.83</del>	67.00			
2.0	020	<del>87.34</del>	32.00	020	<del>100.77</del>	33.00
2.2	022	<del>186.83</del>	60.00			
2.4	024	<del>186.83</del>	60.00			
2.5	025	<del>87.34</del>	32.00	025	<del>100.77</del>	33.00
2.6	026	<del>186.83</del>	60.00			
2.8	028	<del>186.83</del>	60.00			
3.0	030	<del>82.45</del>	27.00	030	<del>84.75</del>	28.00
3.2	032	<del>186.83</del>	53.00			
3.4	034	<del>144.85</del>	47.00			
3.5	035	<del>184.87</del>	35.00	035	<del>100.96</del>	36.00
3.6	036	<del>186.83</del>	53.00			
3.8	038	<del>186.83</del>	53.00			
4.0	040	<del>82.45</del>	27.00	040	<del>84.75</del>	28.00
4.5	045	<del>184.87</del>	35.00	045	<del>100.96</del>	36.00
5.0	050	<del>82.45</del>	27.00	050	<del>84.75</del>	28.00
5.5	055	<del>184.87</del>	35.00	055	<del>100.96</del>	36.00
5.6	056	<del>186.83</del>	53.00			
6.0	060	<del>82.45</del>	27.00	060	<del>84.75</del>	28.00
6.3	063	<del>186.83</del>	53.00			
6.5	065	<del>184.87</del>	35.00	065	<del>100.96</del>	36.00

Clamping range covered: H10 corresponding to shank Ø DCONWS

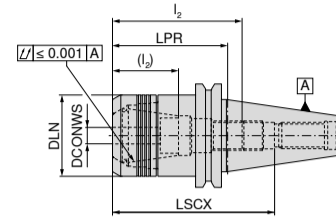
### ER Precision Collet chuck – Centro-P

- ▲ 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



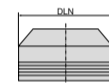
G 2,5 n<sub>max</sub> 25000

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l <sub>2</sub> (l <sub>2</sub> ) mm	for collet	84 414 ... PG Y8	£	£
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)	510	<del>290.62</del>	96.00
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)	910	<del>320.75</del>	106.00
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)	816	<del>262.93</del>	87.00
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)	516	<del>245.95</del>	104.00
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)	916	<del>232.75</del>	110.00
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)	620	<del>245.95</del>	104.00
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)	920	<del>232.75</del>	110.00
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)	520	<del>348.88</del>	179.00
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)	720	<del>380.56</del>	291.00

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

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

WNT \ Performance



for collet	DCONWS mm	DLN mm	TQX Nm	for seals	84 950 ... PG Y8	£	£
426E (ER16)	1 - 10	30	80	001		<del>68.64</del>	25.00
430E (ER25)	2 - 16	40	90	003		<del>76.36</del>	28.00
470E (ER32)	2 - 20	50	180	005		<del>83.89</del>	31.00

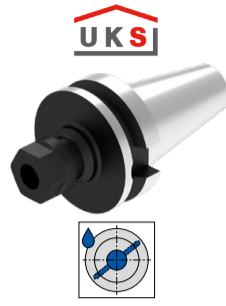
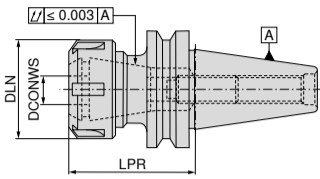
## ER-Collet chuck

▲ also available with Balluff chip on request

### Scope of supply:

Holder with lock nut and adjustable back stop

WNT \ Standard



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

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 743 ... PG Y8	
							£	£
short	BT 40	1 - 10	60	28	56	426E (ER16)	11069 <sup>1)</sup>	<del>112.22</del> 35.00
	BT 40	1 - 16	70	42	104	430E (ER25)	11669	<del>117.30</del> 37.00
	BT 40	2 - 20	70	50	136	470E (ER32)	12069	<del>117.66</del> 37.00
	BT 40	3 - 26	70	63	176	472E (ER40)	12669	<del>122.32</del> 39.00
medium length	BT 40	1 - 10	120	28	56	426E (ER16)	21069 <sup>1)</sup>	<del>123.06</del> 40.00
	BT 40	1 - 16	120	42	104	430E (ER25)	21669	<del>123.13</del> 40.00
	BT 40	2 - 20	120	50	136	470E (ER32)	22069	<del>128.48</del> 40.00

1) with 6 position lock nut

## Shell mill adapter

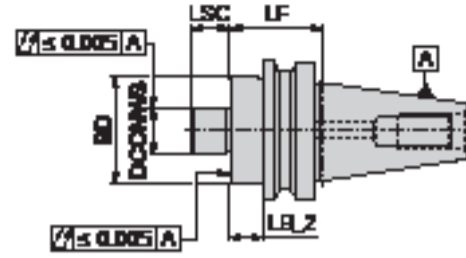
▲ With fixed drive dogs and enlarged contact face for milling cutters with transverse groove

▲ also available with Balluff chip on request

### Scope of supply:

Toolholder with clamping screw

WNT \ Standard



NEW



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

Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 745 ... PG Y8	
							£	£
short	BT 40	16	25	52	38	17	11669	<del>110.98</del> 46.00
	BT 40	22	25	52	48	19	12269	<del>117.47</del> 50.00
	BT 40	27	25	52	58	21	12769	<del>119.81</del> 50.00
	BT 40	32	23	50	78	24	13269	<del>126.13</del> 53.00
	BT 40	40	23	50	88	27	14069 <sup>1)</sup>	<del>137.14</del> 58.00

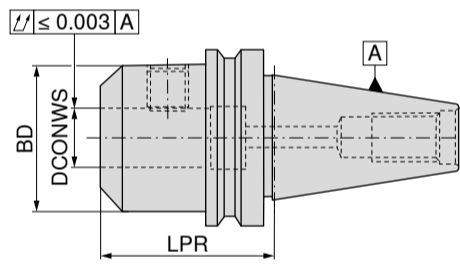
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

## 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



NEW



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

Version	Adapter	DCONWS <sub>H4</sub> mm	LPR mm	BD mm	82 740 ... PG Y8	
					£	£
short	BT 40	6	50	25	10669	<del>80.37</del> 35.00
	BT 40	8	50	28	10869	<del>80.37</del> 35.00
	BT 40	10	63	35	11069	<del>75.86</del> 35.00
	BT 40	12	63	42	11269	<del>75.86</del> 35.00
	BT 40	14	63	44	11469	<del>75.86</del> 35.00
	BT 40	16	63	48	11669	<del>82.14</del> 35.00
	BT 40	18	63	50	11869	<del>82.14</del> 35.00
	BT 40	20	63	52	12069	<del>82.14</del> 35.00
	BT 40	25	100	65	12569	<del>80.11</del> 35.00
	BT 40	32	100	72	13269 <sup>1)</sup>	<del>88.83</del> 40.00
medium length	BT 40	6	100	25	20669	<del>83.78</del> 38.00
	BT 40	8	100	28	20869	<del>83.78</del> 38.00
	BT 40	10	100	35	21069	<del>79.09</del> 38.00
	BT 40	12	100	42	21269	<del>79.09</del> 38.00
	BT 40	14	100	44	21469	<del>78.56</del> 38.00
	BT 40	16	100	48	21669	<del>86.86</del> 52.00
	BT 40	18	100	50	21869	<del>86.48</del> 38.00
	BT 40	20	100	52	22069	<del>86.86</del> 52.00
extra-long	BT 40	6	160	25	40669	<del>86.40</del> 40.00
	BT 40	8	160	28	40869	<del>86.40</del> 40.00
	BT 40	10	160	35	41069	<del>91.34</del> 40.00
	BT 40	12	160	42	41269	<del>91.34</del> 40.00
	BT 40	14	160	44	41469	<del>91.34</del> 40.00
	BT 40	16	160	48	41669	<del>91.71</del> 40.00
	BT 40	18	160	50	41869	<del>91.71</del> 40.00
	BT 40	20	160	52	42069	<del>91.71</del> 40.00
BT 40	25	160	65	42569 <sup>1)</sup>	<del>98.83</del> 40.00	

1) Version with two grub screws

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





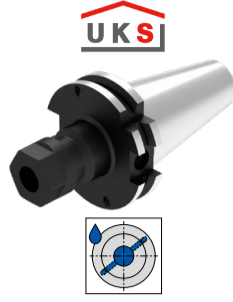
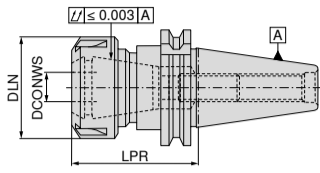
## ER Collet chuck

▲ also available with Balluff chip on request

### Scope of supply:

Holder with lock nut and adjustable back stop

WNT \ Standard



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

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 743 ... PG Y8	
							£	£
short	SK 40	1 - 10	60	28	56	426E (ER16)	11079 <sup>1)</sup>	<del>112.22</del> 35.00
	SK 40	1 - 16	70	42	104	430E (ER25)	11679	<del>117.30</del> 37.00
	SK 40	2 - 20	70	50	136	470E (ER32)	12079	<del>117.66</del> 37.00
	SK 40	3 - 26	70	63	176	472E (ER40)	12679	<del>122.32</del> 39.00
medium length	SK 40	1 - 10	120	28	56	426E (ER16)	21079 <sup>1)</sup>	<del>123.06</del> 40.00
	SK 40	1 - 16	120	42	104	430E (ER25)	21679	<del>123.13</del> 40.00
	SK 40	2 - 20	120	50	136	470E (ER32)	22079	<del>128.48</del> 40.00

1) with 6 position lock nut

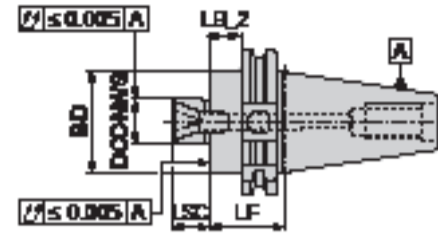
## Shell mill adapter

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

### Scope of supply:

Toolholder with clamping screw

WNT \ Standard



NEW



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

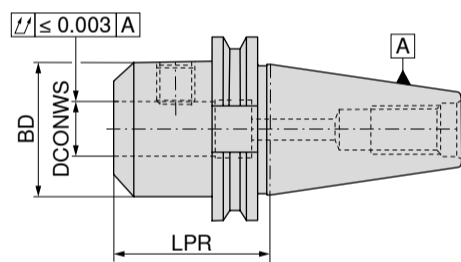
Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 745 ... PG Y8	
							£	£
short	SK 40	16	25	44	38	17	11679	<del>110.98</del> 46.00
	SK 40	22	25	44	48	19	12279	<del>117.66</del> 50.00
	SK 40	27	36	55	58	21	12779	<del>119.81</del> 50.00
	SK 40	32	31	50	78	24	13279	<del>126.13</del> 53.00
	SK 40	40	31	50	88	27	14079 <sup>1)</sup>	<del>137.14</del> 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



NEW



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

Version	Adapter	DCONWS <sub>H4</sub> mm	LPR mm	BD mm	82 740 ... PG Y8	
					£	£
short	SK 40	6	50	25	10679	<del>80.37</del> 35.00
	SK 40	8	50	28	10879	<del>80.37</del> 35.00
	SK 40	10	50	35	11079	<del>75.86</del> 35.00
	SK 40	12	50	42	11279	<del>75.86</del> 35.00
	SK 40	14	50	44	11479	<del>75.86</del> 35.00
	SK 40	16	63	48	11679	<del>82.14</del> 35.00
	SK 40	18	63	50	11879	<del>82.14</del> 35.00
	SK 40	20	63	52	12079	<del>82.14</del> 35.00
	SK 40	25	100	65	12579 <sup>1)</sup>	<del>80.41</del> 35.00
	SK 40	32	100	72	13279 <sup>1)</sup>	<del>88.83</del> 40.00
medium length	SK 40	6	100	25	20679	<del>83.78</del> 38.00
	SK 40	8	100	28	20879	<del>83.78</del> 38.00
	SK 40	10	100	35	21079	<del>79.09</del> 38.00
	SK 40	12	100	42	21279	<del>79.09</del> 38.00
	SK 40	14	100	44	21479	<del>78.56</del> 38.00
	SK 40	16	100	48	21679	<del>86.86</del> 52.00
	SK 40	18	100	50	21879	<del>86.48</del> 38.00
	SK 40	20	100	52	22079	<del>86.86</del> 52.00
extra-long	SK 40	6	160	25	40679	<del>86.40</del> 40.00
	SK 40	8	160	28	40879	<del>86.40</del> 40.00
	SK 40	10	160	35	41079	<del>91.34</del> 40.00
	SK 40	12	160	42	41279	<del>91.34</del> 40.00
	SK 40	14	160	44	41479	<del>91.34</del> 40.00
	SK 40	16	160	48	41679	<del>91.71</del> 40.00
	SK 40	18	160	50	41879	<del>91.71</del> 40.00
	SK 40	20	160	52	42079	<del>91.71</del> 40.00
	SK 40	25	160	65	42579 <sup>1)</sup>	<del>88.83</del> 40.00

1) Version with two grub screws

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



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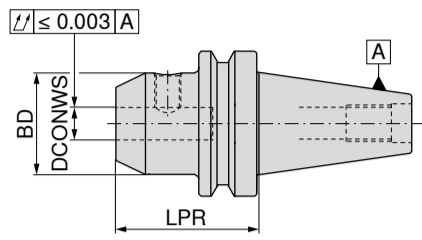


When you see this logo it's  
in stock in Sheffield

### 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



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

Version	Adapter	DCONWS <sub>H4</sub> mm	LPR mm	BD mm	84 552 ... PG Y8	
					£	£
short	BT-FC 30	6	50	25	006	<del>133.50</del> 44.00
	BT-FC 30	8	50	28	008	<del>133.50</del> 44.00
	BT-FC 30	10	50	35	010	<del>133.50</del> 44.00
	BT-FC 30	12	50	42	012	<del>133.50</del> 44.00
	BT-FC 30	16	63	48	016	<del>143.34</del> 47.00
	BT-FC 30	20	63	52	020	<del>143.34</del> 47.00
	BT-FC 40	6	50	25	106	<del>169.30</del> 56.00
	BT-FC 40	8	50	28	108	<del>169.31</del> 54.00
	BT-FC 40	10	63	35	110	<del>169.31</del> 54.00
	BT-FC 40	12	63	42	112	<del>169.31</del> 54.00
	BT-FC 40	16	63	48	116	<del>169.31</del> 54.00
	BT-FC 40	20	63	52	120	<del>169.31</del> 54.00
	BT-FC 40	25	90	65	125 <sup>1)</sup>	<del>217.78</del> 72.00
	BT-FC 40	32	100	72	132 <sup>1)</sup>	<del>217.78</del> 72.00
	BT-FC 50	6	63	25	306	<del>251.28</del> 83.00
	BT-FC 50	8	63	28	308	<del>243.85</del> 81.00
	BT-FC 50	10	63	35	310	<del>243.85</del> 81.00
	BT-FC 50	12	80	42	312	<del>243.85</del> 81.00
	BT-FC 50	16	80	48	316	<del>243.85</del> 81.00
	BT-FC 50	20	80	52	320	<del>243.85</del> 81.00
BT-FC 50	25	100	65	325 <sup>1)</sup>	<del>279.16</del> 92.00	
BT-FC 50	32	105	72	332 <sup>1)</sup>	<del>279.16</del> 92.00	

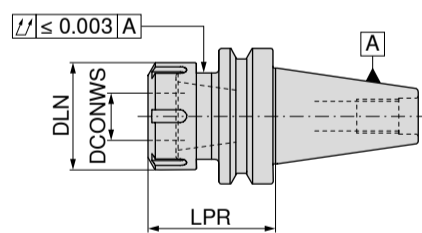
1) Version with two grub screws

### ER Collet chuck – BT-FC

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

Scope of supply:  
Toolholder including nut

WNT \ Standard



G 2,5 n<sub>max</sub> 20000

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	84 557 ... PG Y8	
							£	£
short	BT-FC 30	1 - 10	63	28	56	426E (ER16)	010 <sup>1)</sup>	<del>159.76</del> 50.00
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	016	<del>159.76</del> 50.00
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	020	<del>159.76</del> 50.00
	BT-FC 40	1 - 10	63	28	56	426E (ER16)	110 <sup>1)</sup>	<del>189.90</del> 63.00
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	116	<del>189.90</del> 63.00
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	120	<del>189.90</del> 63.00
	BT-FC 50	1 - 16	70	42	104	430E (ER25)	316	<del>258.70</del> 86.00
	BT-FC 50	2 - 20	70	50	136	470E (ER32)	320	<del>258.70</del> 86.00
medium length	BT-FC 50	1 - 10	100	28	56	426E (ER16)	310 <sup>1)</sup>	<del>258.70</del> 86.00

1) with 6 position lock nut

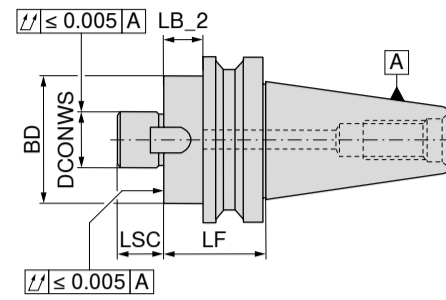
Spare parts can be found in → Chapter 16 Adaptors and accessories in the clamping technology catalogue.



### Shell mill adapter – BT-FC

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

WNT \ Standard



G 6,3 n<sub>max</sub> 15000

Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	84 562 ... PG Y8	
							£	£
short	BT-FC 30	16	18	39.0	40	17	016	<del>147.06</del> 49.00
	BT-FC 30	22	18	39.0	50	19	022	<del>147.06</del> 49.00
	BT-FC 30	27	18	39.0	60	21	027	<del>147.06</del> 49.00
	BT-FC 30	32	28	49.0	80	24	032	<del>147.06</del> 49.00
	BT-FC 40	16	8	34.0	40	17	116	<del>176.84</del> 58.00
	BT-FC 40	22	8	34.0	50	19	122	<del>176.84</del> 58.00
	BT-FC 40	27	8	34.0	60	21	127	<del>176.84</del> 58.00
	BT-FC 40	32	23	49.0	80	24	132	<del>176.84</del> 58.00
	BT-FC 40	40	23	49.0	89	27	140	<del>176.84</del> 58.00
	BT-FC 50	22	12	48.5	50	19	322	<del>204.72</del> 68.00
	BT-FC 50	27	12	48.5	60	21	327	<del>204.72</del> 68.00
	BT-FC 50	32	12	48.5	80	24	332	<del>217.78</del> 72.00
	BT-FC 50	40	17	53.5	89	27	340	<del>217.78</del> 72.00

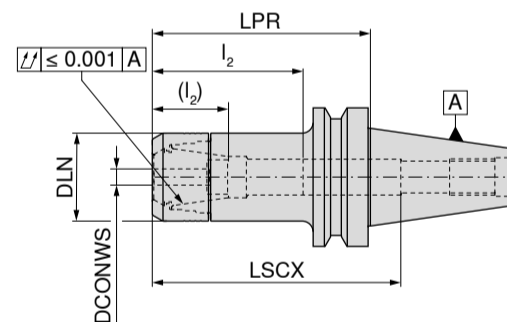
### ER Precision Collet chuck – Centro-P – BT-FC

- ▲ 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



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

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	l <sub>2</sub> (l <sub>2</sub> ) mm	for collet	84 525 ... PG Y8	
							£	£
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	002	<del>307.57</del> 102.00
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	012	<del>341.96</del> 103.00
BT-FC 30	2 - 20	75	45	84	42 - 62 (24 - 45)	470E (ER32)	022	<del>341.96</del> 103.00
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	102	<del>342.72</del> 113.00
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	112	<del>347.42</del> 115.00
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	122	<del>347.42</del> 115.00

LSCX = clamping depth without back stop screw for shanks  
l<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

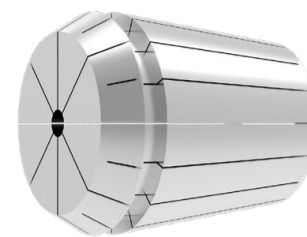
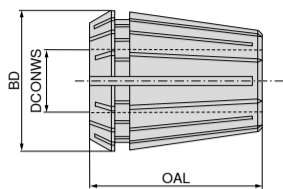




ER precision collet

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

ER-B  
20 µm WNT \ Standard



DCONWS mm	UKS		UKS		UKS		UKS		UKS	
	BD = 17 OAL = 27.5 426 E / ER16	82 687 ... PG Y8	BD = 21 OAL = 31.5 428 E / ER20	82 688 ... PG Y8	BD = 26 OAL = 34 430 E / ER25	82 689 ... PG Y8	BD = 33 OAL = 40 470 E / ER32	82 690 ... PG Y8	BD = 41 OAL = 46 472 E / ER40	82 691 ... PG Y8
	£	£	£	£	£	£	£	£	£	£
1	01000	<del>29.16</del> 11.00	01000	<del>30.14</del> 10.00	02000	<del>31.30</del> 11.00			03000	<del>31.92</del> 10.00
2	02000	<del>29.16</del> 11.00	02000	<del>30.14</del> 10.00	03000	<del>31.30</del> 11.00			04000	<del>31.92</del> 10.00
3	03000	<del>23.71</del> 9.00	03000	<del>24.92</del> 7.00	04000	<del>23.49</del> 7.00	03000	<del>25.29</del> 8.00	05000	<del>31.92</del> 10.00
4	04000	<del>23.71</del> 9.00	04000	<del>24.92</del> 7.00	05000	<del>23.49</del> 7.00	04000	<del>25.29</del> 8.00	06000	<del>31.92</del> 10.00
5	05000	<del>23.71</del> 9.00	05000	<del>24.92</del> 7.00	06000	<del>23.49</del> 7.00	05000	<del>25.29</del> 8.00	07000	<del>31.92</del> 10.00
6	06000	<del>23.71</del> 9.00	06000	<del>24.92</del> 7.00	07000	<del>23.49</del> 7.00	06000	<del>25.29</del> 8.00	08000	<del>31.92</del> 10.00
7	07000	<del>23.71</del> 9.00	07000	<del>24.92</del> 7.00	08000	<del>23.49</del> 7.00	07000	<del>25.29</del> 8.00	09000	<del>31.92</del> 10.00
8	08000	<del>23.71</del> 9.00	08000	<del>24.92</del> 7.00	09000	<del>23.49</del> 7.00	08000	<del>25.29</del> 8.00	10000	<del>31.92</del> 10.00
9	09000	<del>23.71</del> 9.00	09000	<del>24.92</del> 7.00	10000	<del>23.49</del> 7.00	09000	<del>25.29</del> 8.00	11000	<del>31.92</del> 10.00
10	10000	<del>23.71</del> 9.00	10000	<del>24.92</del> 7.00	11000	<del>23.49</del> 7.00	10000	<del>25.29</del> 8.00	12000	<del>31.92</del> 10.00
11			11000	<del>24.92</del> 7.00	12000	<del>23.49</del> 7.00	11000	<del>25.29</del> 8.00	13000	<del>31.92</del> 10.00
12			12000	<del>24.92</del> 7.00	13000	<del>23.49</del> 7.00	12000	<del>25.29</del> 8.00	14000	<del>31.92</del> 10.00
13			13000	<del>24.92</del> 7.00	14000	<del>23.49</del> 7.00	13000	<del>25.29</del> 8.00	15000	<del>31.92</del> 10.00
14					15000	<del>23.49</del> 7.00	14000	<del>25.29</del> 8.00	16000	<del>31.92</del> 10.00
15					16000	<del>23.49</del> 7.00	15000	<del>25.29</del> 8.00	17000	<del>31.92</del> 10.00
16							16000	<del>25.29</del> 8.00	18000	<del>31.92</del> 10.00
17							17000	<del>25.29</del> 8.00	19000	<del>31.92</del> 10.00
18							18000	<del>25.29</del> 8.00	20000	<del>31.92</del> 10.00
19							19000	<del>25.29</del> 8.00	21000	<del>31.92</del> 10.00
20							20000	<del>25.29</del> 8.00	22000	<del>31.92</del> 10.00
21									23000	<del>31.92</del> 10.00
22									24000	<del>31.92</del> 10.00
23									25000	<del>31.92</del> 10.00
24									26000	<del>31.92</del> 10.00
25										
26										

Collet Set

Scope of supply

- 82 687 01000 DCONWS 1,0
- 82 687 02000 DCONWS 2,0
- 82 687 03000 DCONWS 3,0
- 82 687 04000 DCONWS 4,0
- 82 687 05000 DCONWS 5,0
- 82 687 06000 DCONWS 6,0
- 82 687 07000 DCONWS 7,0
- 82 687 08000 DCONWS 8,0
- 82 687 09000 DCONWS 9,0
- 82 687 10000 DCONWS 10,0



UKS

Set	BD mm	OAL mm	82 687 ... PG Y8
426 E / ER16	17	27.5	99900 <del>262.56</del> 141.00

Collet Set

Scope of supply

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



UKS

Set	BD mm	OAL mm	82 688 ... PG Y8
428 E / ER20	21	31.5	99900 <del>281.94</del> 141.00

Collet Set

Scope of supply

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



UKS

Set	BD mm	OAL mm	82 689 ... PG Y8
430 E / ER25	26	34	99900 <del>370.28</del> 141.00

Collet Set

Scope of supply

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



UKS

Set	BD mm	OAL mm	82 690 ... PG Y8
470 E / ER32	33	40	99900 <del>454.41</del> 150.00

Collet Set

Scope of supply

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



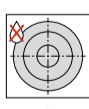
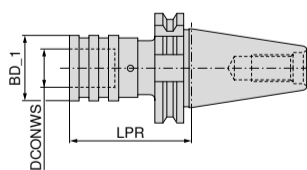
UKS

Set	BD mm	OAL mm	82 691 ... PG Y8
472 E / ER40	41	46	99900 <del>767.74</del> 240.00

Quick change tap chuck with length compensation

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

WNT \ Standard

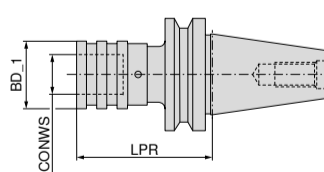


Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 428 ... PG Y8
SK 30	M6 - M20	02	101	55	31	15	320 <del>565.40</del> 220.00
SK 30	M3 - M12	01	60	38	19	9	312 <del>585.68</del> 194.00
SK 40	M6 - M20	02	100	55	31	15	420 <del>499.14</del> 162.00
SK 40	M3 - M12	01	60	38	19	9	412 <del>452.32</del> 150.00
SK 50	M6 - M20	02	83	55	31	15	520 <del>731.76</del> 242.00
SK 50	M3 - M12	01	62	38	19	9	512 <del>675.54</del> 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



Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 528 ... PG Y8
BT 30	M3 - M12	01	63	38	19	9	312 <del>588.80</del> 195.00
BT 30	M6 - M20	02	96	55	31	15	320 <del>738.41</del> 244.00
BT 40	M3 - M12	01	68	38	19	9	412 <del>472.44</del> 156.00
BT 40	M6 - M20	02	93	55	31	15	420 <del>499.14</del> 162.00
BT 50	M3 - M12	01	80	38	19	9	512 <del>791.71</del> 262.00
BT 50	M6 - M20	02	102	55	31	15	520 <del>844.44</del> 301.00



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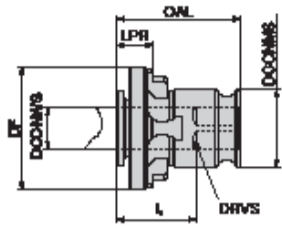


When you see this logo it's  
in stock in Sheffield

## Quick change tap adapter

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

WNT \ Standard



AD

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR
	mm	mm			mm	mm	mm	mm
01	11.0	9.0		M14	30.2	19	31	9.5
01	3.5	2.7	M3		30.2	19	31	9.5
01	4.5	3.4	M4		30.2	19	31	9.5
01	4.0	3.0	M3,5		30.2	19	31	9.5
01	2.8	2.1	M2 - M2,6		30.2	19	31	9.5
01	5.5	4.3		M7	30.2	19	31	9.5
01	6.0	4.9	M4,5 - M6	M8	30.2	19	31	9.5
01	7.0	5.5	M7	M10	30.2	19	31	9.5
01	8.0	6.2	M8	M11	30.2	19	31	9.5
01	9.0	7.0	M9	M12	30.2	19	31	9.5
01	10.0	8.0	M10		30.2	19	31	9.5
02	11.0	9.0		M14	46.3	31	46	11.0
02	6.0	4.9	M4,5 - M6		46.3	31	46	11.0
02	7.0	5.5	M7		46.3	31	46	11.0
02	8.0	6.2	M8		46.3	31	46	11.0
02	9.0	7.0	M9		46.3	31	46	11.0
02	10.0	8.0	M10		46.3	31	46	11.0
02	12.0	9.0		M16	46.3	31	46	11.0
02	14.0	11.0		M18	46.3	31	46	11.0
02	16.0	12.0		M20	46.3	31	46	11.0
02	18.0	14.5		M22 - M24	46.3	31	46	11.0

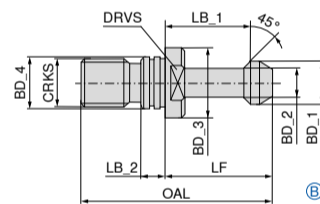
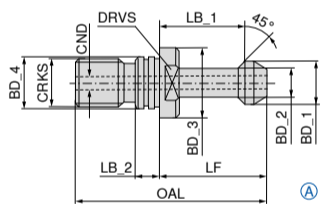
83 610 ...	PG Y8	£	£
110		<del>48.74</del>	16.00
100		<del>48.74</del>	16.00
101		<del>48.74</del>	16.00
102		<del>48.74</del>	16.00
103		<del>48.74</del>	16.00
104		<del>48.74</del>	16.00
105		<del>48.74</del>	16.00
106		<del>48.74</del>	16.00
107		<del>48.74</del>	16.00
108		<del>48.74</del>	16.00
109		<del>48.74</del>	16.00
205		<del>66.99</del>	22.00
200		<del>66.99</del>	22.00
201		<del>66.99</del>	22.00
202		<del>66.99</del>	22.00
203		<del>66.99</del>	22.00
204		<del>66.99</del>	22.00
206		<del>66.99</del>	22.00
207		<del>66.99</del>	22.00
208		<del>66.99</del>	22.00
209		<del>66.99</del>	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	20
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	20
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5		19	50
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	50
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0		30	150
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	150

82 530 ...	PG Y8	£	£
030		<del>21.99</del>	7.00
040		<del>18.83</del>	6.00
050		<del>26.74</del>	9.00

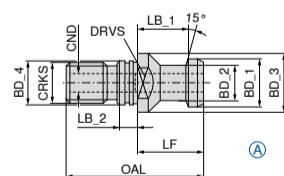
82 534 ...	PG Y8	£	£
030		<del>21.99</del>	7.00
040		<del>21.99</del>	7.00
050		<del>28.28</del>	9.00

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

- ▲ ISO 7388-3 AD
- ▲ For tools with or without axial coolant supply

Scope of supply:  
including O-Ring

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	20
SK 40	19	14	23	17	M16	54	26	20	7	7.0	19	50
SK 50	28	21	36	25	M24	74	34	25	10	11.5	30	150

82 468 ...	PG Y8	£	£
030		<del>17.92</del>	6.00
040		<del>16.25</del>	5.00
050		<del>22.64</del>	7.00





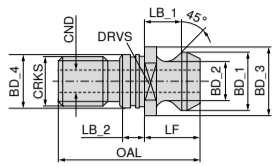
## Pull studs for tool holders according to ISO 7388-1

- ▲ CAT Mazak
- ▲ Face ground flat

### Scope of supply:

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

WNT \ Standard



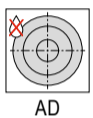
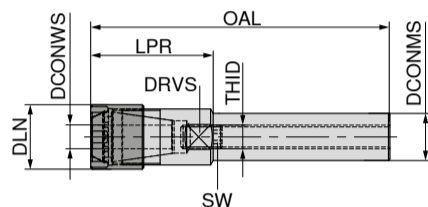
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
SK 40	18.79	12.44	21.8	17	M16	41.26	16.25	11.17	4.0	7.0	19	50
SK 50	29.10	19.60	37.0	25	M24	65.50	25.55	17.95	5.5	11.5	30	150

82 487 ...		PG Y8
	£	£
040	<del>16.25</del>	5.00
050	<del>23.83</del>	8.00

## ER collet chuck with mini clamping nut

- ▲ with cylindrical shank

WNT \ Standard



DCONMS <sub>h6</sub>	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
8	1 - 5	81	26	12		9	4004E (ER08)
12	1 - 5	157	20	12	M5x0,8	10	4004E (ER08)
16	1 - 7	185	25	16	M7,5x0,5	14	4008E (ER11)
16	1 - 10	117	37	22	M11x1	17	426E (ER16)
16	1 - 10	199	39	22	M8x1,25	17	426E (ER16)
20	1 - 10	168	28	22	M11x1	17	426E (ER16)
25	1 - 13	168	28	28	M14x1	22	428E (ER20)
25	1 - 16	189	39	35	M18x1	27	430E (ER25)

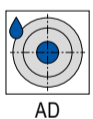
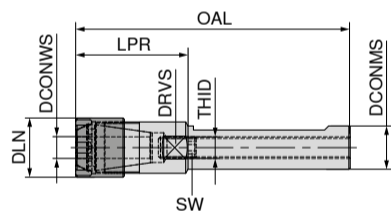
83 453 ...		PG Y8
	£	£
081 <sup>1)</sup>	<del>156.92</del>	52.00
122	<del>331.88</del>	110.00
163	<del>326.96</del>	108.00
164	<del>331.88</del>	110.00
165	<del>326.96</del>	108.00
204	<del>233.86</del>	77.00
254	<del>270.56</del>	89.00
256	<del>340.83</del>	113.00

1) without coolant supply (form A)

## ER collet chuck with mini clamping nut

- ▲ with cylindrical shank and clamping flat

WNT \ Standard



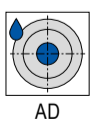
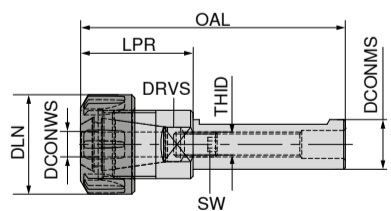
DCONMS <sub>h6</sub>	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
20	1 - 10	168	28	22	M11x1	17	426E (ER16)
20	1 - 13	138	38	28	M11x1	22	428E (ER20)
20	1 - 16	146	46	35	M14x1	27	430E (ER25)
25	1 - 13	168	28	28	M14x1	22	428E (ER20)
25	1 - 16	189	39	35	M18x1	27	430E (ER25)

83 454 ...		PG Y8
	£	£
204	<del>233.86</del>	77.00
206	<del>188.14</del>	56.00
208	<del>196.96</del>	65.00
254	<del>270.56</del>	89.00
256	<del>340.83</del>	113.00

## ER Collet Chuck

- ▲ with cylindrical shank and clamping flat

WNT \ Standard



DCONMS <sub>h6</sub>	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
40	2 - 20	100	35	50	M22x1,5	36	470E (ER32)
40	2 - 20	160	35	50	M22x1,5	36	470E (ER32)
40	3 - 30	139	59	63	M28x1,5	40	472E (ER40)

83 455 ...		PG Y8
	£	£
401	<del>190.32</del>	66.00
402	<del>246.97</del>	81.00
405	<del>228.38</del>	76.00

Note: Spanner to be ordered separately.



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Email: techsupport.uk@ceratizit.com



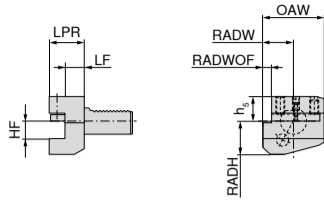
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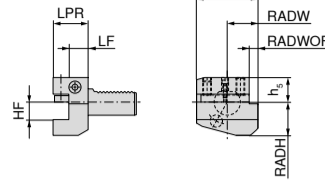
Radial tool holders, short

WNT \ Performance



B2

DCONMS <sub>h6</sub>	HF <sub>0/-0,1</sub>	OAW	RADW	RADWOF	h <sub>5</sub>	RADH	LF <sub>0/+0,5</sub>	LPR
mm	mm	mm	mm	mm	mm	mm	mm	mm
16	12	42	23.0	5.0	20.0	22	13.0	24
20	16	55	30.0	7.0	25.0	30	16.0	30
20	16	55	30.0	7.0	25.0	30	26.0	40
30	20	70	35.0	10.0	28.0	38	18.5	40
30	20	70	35.0	10.0	28.0	38	42.0	60
40	25	85	42.5	12.5	32.5	48	18.5	44
50	32	100	50.0	16.0	35.0	60	30.0	55



B1



Left-hand

82 189 ...	PG Y8
£	£
200	101.40 63.00
201	149.60 83.00
300	207.30 69.00
301	297.80 108.00
400	240.11 69.00
500	325.70 108.00

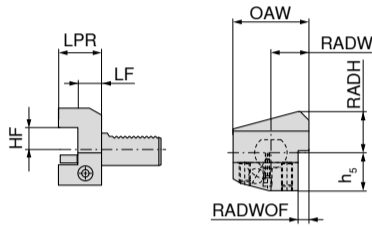


Right-hand

82 185 ...	PG Y8
£	£
160	224.30 74.00
200	284.11 68.00
201	286.85 78.00
300	487.99 62.00
301	344.13 103.00
400	494.83 63.00
500	320.43 106.00

Radial tool holders, overhead, short

WNT \ Performance



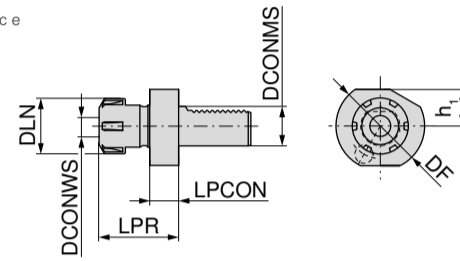
Right-hand

DCONMS <sub>h6</sub>	HF <sub>0/-0,1</sub>	OAW	RADW	RADWOF	h <sub>5</sub>	RADH	LF <sub>0/+0,5</sub>	LPR
mm	mm	mm	mm	mm	mm	mm	mm	mm
16	12	42	23.0	5.0	20.0	22	13.0	24
20	16	55	30.0	7.0	25.0	30	26.0	40
30	20	70	35.0	10.0	35.0	38	18.5	40
40	25	85	42.5	12.5	42.5	48	18.5	44
50	32	100	50.0	16.0	50.0	60	30.0	55

82 193 ...	PG Y8
£	£
160	236.45 78.00
201	296.75 98.00
300	493.70 64.00
400	284.84 68.00
500	325.70 108.00

ER Collet chucks

WNT \ Performance

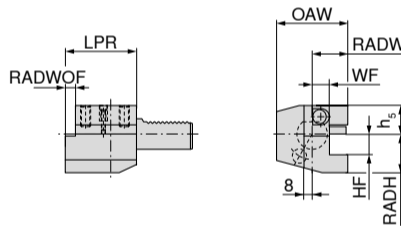


DCONMS <sub>h6</sub>	DCONWS	DF	DLN	h <sub>1</sub>	LPR	LPCON	for collet
mm	mm	mm	mm	mm	mm	mm	
16	1 - 10	40	28	18.0	43.5	14	426E (ER16)
16	1 - 13	40	34	18.0	44.0	14	428E (ER20)
20	1 - 16	50	42	23.0	57.0	18	430E (ER25)
20	2 - 20	50	50	23.0	62.0	18	470E (ER32)
30	1 - 16	68	42	28.0	57.0	22	430E (ER25)
30	2 - 20	68	50	28.0	75.0	22	470E (ER32)
40	1 - 16	83	42	32.5	75.0	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 ...	PG Y8
£	£
160	223.30 107.00
161	220.81 106.00
202	263.43 87.00
203	275.42 91.00
300	260.83 86.00
301	260.27 86.00
400	284.84 93.00
401	284.84 93.00
402	276.89 92.00
500	410.64 136.00
501	410.64 136.00

Axial tool holders

WNT \ Performance



Right-hand

DCONMS <sub>h6</sub>	HF <sub>0/-0,1</sub>	OAW	RADW	WF <sub>0/+0,3</sub>	h <sub>5</sub>	RADH	LPR	RADWOF
mm	mm	mm	mm	mm	mm	mm	mm	mm
30	20	70	35.0	17.0	28.0	38	70	10.0
40	25	85	42.5	20.5	32.5	48	85	12.5
50	32	100	50.0	25.5	35.0	60	100	16.0

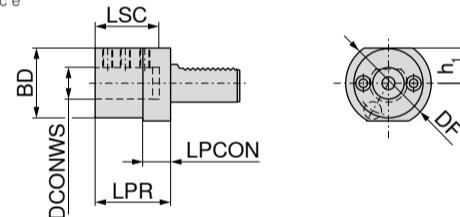
82 211 ...	PG Y8
£	£
300	248.06 72.00
400	259.66 84.00
500	269.85 122.00

Boring bar holder

▲ for turning tools with cylindrical shank

▲ Coolant supply either through the tool or via the ball-shaped spray nozzle

WNT \ Performance



DCONMS <sub>h6</sub>	DCONWS <sub>h7</sub>	DF	BD	h <sub>1</sub>	LPR	LPCON	LSC
mm	mm	mm	mm	mm	mm	mm	mm
16	6	40	32	18.0	44	13	34
16	8	40	32	18.0	44	13	34
16	10	40	32	18.0	44	13	34
16	12	40	40	18.0	44	13	34
16	16	40	40	18.0	44	13	34
20	8	50	40	23.0	50	18	41
20	10	50	40	23.0	50	18	41
20	12	50	40	23.0	50	18	41
20	16	50	40	23.0	50	18	41
20	20	50	50	23.0	50	18	41
20	25	50	50	23.0	60	18	51
30	8	68	55	28.0	60	22	51
30	10	68	55	28.0	60	22	51
30	12	68	55	28.0	60	22	51
30	16	68	55	28.0	60	22	51
30	20	68	55	28.0	60	22	51
30	25	68	55	28.0	60	22	51
30	32	68	68	28.0	75	22	61
40	8	83	55	32.5	75	22	61
40	10	83	55	32.5	75	22	61
40	12	83	55	32.5	75	22	61
40	16	83	55	32.5	75	22	61
40	20	83	55	32.5	75	22	61
40	25	83	55	32.5	75	22	61
40	32	83	83	32.5	75	22	61
40	40	83	83	32.5	90	22	76
50	12	98	68	35.0	90	30	76
50	16	98	68	35.0	90	30	76
50	20	98	68	35.0	90	30	76
50	25	98	68	35.0	90	30	76
50	32	98	68	35.0	90	30	76
50	40	98	98	35.0	90	30	76
50	50	98	98	35.0	100	30	86

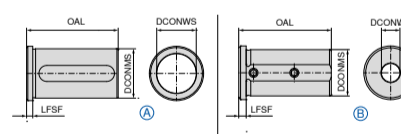
82 268 ...	PG Y8
£	£
160	277.41 92.00
161	244.74 70.00
162	244.74 70.00
163	244.74 70.00
164	244.74 70.00
200	196.83 65.00
201	196.83 65.00
202	196.83 65.00
203	196.83 65.00
204	196.83 65.00
205	196.83 65.00
300	194.83 63.00
301	194.83 63.00
302	194.83 63.00
303	194.83 63.00
304	194.83 63.00
305	194.83 63.00
306	194.83 63.00
400	195.56 65.00
401	195.56 65.00
402	195.56 65.00
403	195.56 65.00
404	195.56 65.00
405	195.56 65.00
406	195.56 65.00
407	195.56 65.00
500	284.69 93.00
501	284.69 93.00
502	284.69 93.00
503	270.88 89.00
504	270.88 89.00
505	270.88 89.00
506	270.88 89.00

1) Coolant supply through pipe joint

Reduction sleeves for direct clamping

▲ For tools with cylindrical shank

WNT \ Performance



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

83 272 ...	PG Y8
£	£
262	127.60 42.00
256	167.94 55.00
258	127.60 42.00
260	127.60 42.00
266	127.60 42.00
270	127.60 42.00
326	172.67 57.00
328	172.67 57.00
330	134.26 43.00
332	134.26 43.00
336	134.26 43.00
340	134.26 43.00
345	134.26 43.00
408	289.76 69.00
410	172.67 57.00
412	172.67 57.00
416	172.67 57.00
420	172.67 57.00
425	172.67 57.00
432	172.67 57.00
525	194.80 64.00
512	194.80 64.00
516	194.80 64.00
520	194.80 64.00
532	194.80 64.00
540	194.80 64.00

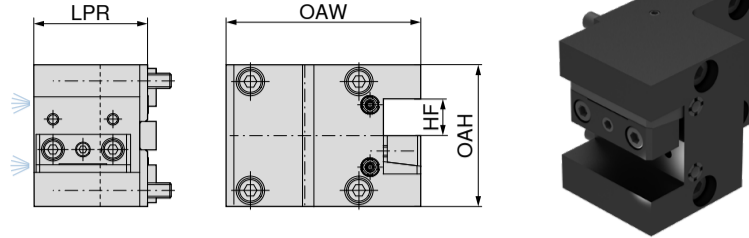




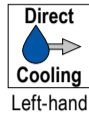
### Doosan/Spinner – BMT 45 – Axial square section tool holder

▲ directly screwed version

WNT \ Performance



NEW

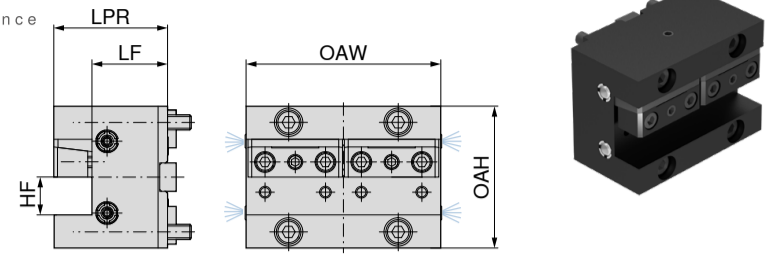


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 480 ... PG Y7
BMT 45	58 x 58	20	60	75	99.5	00006 <del>£ 389.00</del> £ 309.00

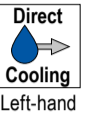
### Doosan/Spinner – BMT 45 – Radial square section tool holder

▲ directly screwed version

WNT \ Performance



NEW

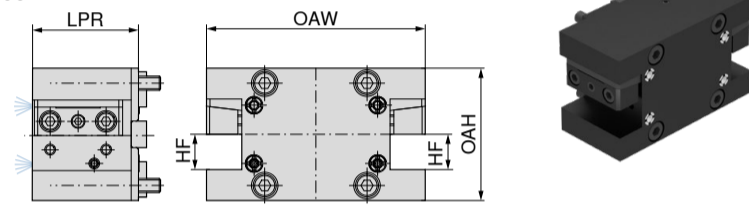


Adapter	Hole pattern	HF mm	LF mm	LPR mm	OAH mm	OAW mm	82 480 ... PG Y7
BMT 45	58 x 58	20	40	60	75	80	01007 <del>£ 326.00</del> £ 325.00

### Doosan/Spinner – BMT 45 – Multi square section tool holder

▲ directly screwed version

WNT \ Performance



NEW

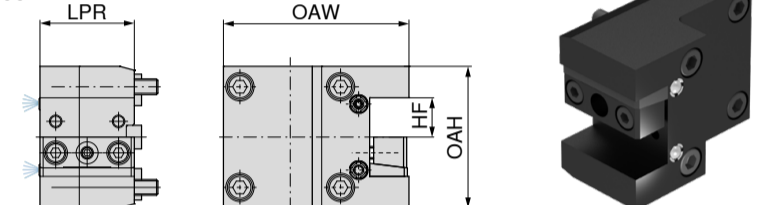


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 480 ... PG Y7
BMT 45	58 x 58	20	60	75	124	02008 <del>£ 431.00</del> £ 431.00

### Doosan – BMT 55 – Axial square section tool holder

▲ directly screwed version

WNT \ Performance



NEW

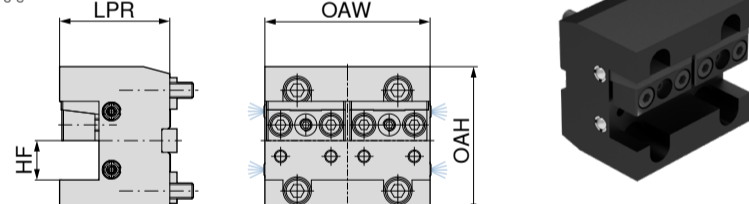


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 481 ... PG Y7
BMT 55	64 x 64	25	60	90	118	00005 <del>£ 560.00</del> £ 560.00

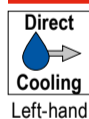
### Doosan – BMT 55 – Radial square section tool holder

▲ directly screwed version

WNT \ Performance



NEW

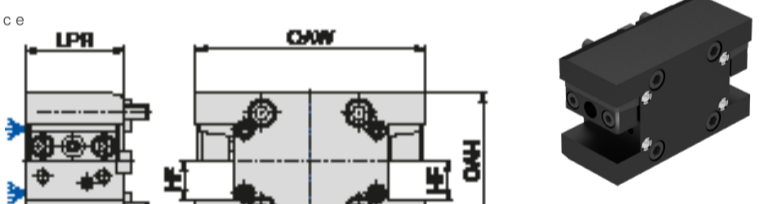


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 481 ... PG Y7
BMT 55	64 x 64	25	95	94	105	01006 <del>£ 387.00</del> £ 387.00

### Doosan – BMT 55 – Multi square section tool holder

▲ directly screwed version

WNT \ Performance



NEW



Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 481 ... PG Y7
BMT 55	64 x 64	25	60	90	151	02007 <del>£ 554.00</del> £ 554.00

# UP2DATE FEBRUARY

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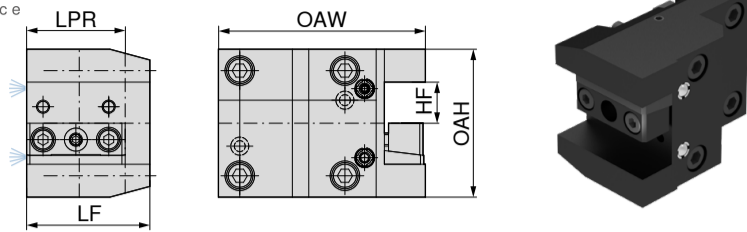


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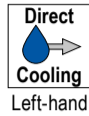
### EMAG – BMT 55 – Axial square section tool holder

▲ directly screwed version

WNT \ Performance



NEW

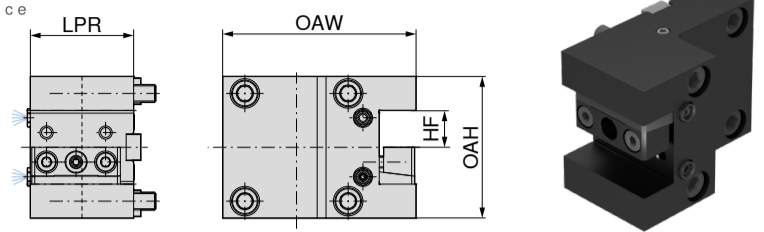


Adapter	Hole pattern	HF mm	LPR mm	LF mm	OAH mm	OAW mm	82 482 ... PG Y7
BMT 55	64 X 64	25	60	75	90	126	£ 379.00
							00004 <del>1,081.05</del>

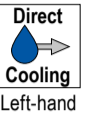
### HAAS/Doosan – BMT 65 – Axial square section tool holder

▲ directly screwed version

WNT \ Performance



NEW

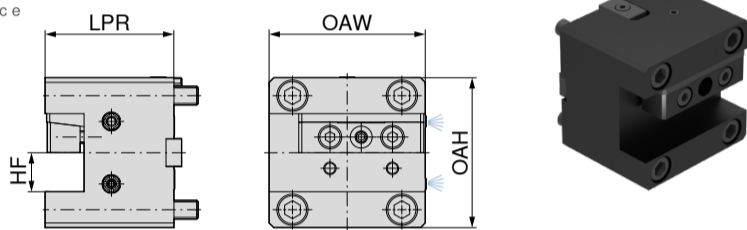


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 483 ... PG Y7
BMT 65	70 x 73	25	75	97	131	£ 463.00
						00005 <del>1,320.00</del>

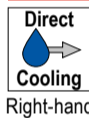
### HAAS/Doosan – BMT 65 – Radial square section tool holder

▲ directly screwed version

WNT \ Performance



NEW



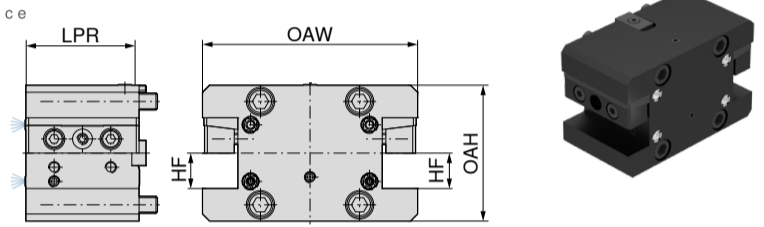
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 483 ... PG Y7
BMT 65	70 x 73	25	82.5	96	100	£ 452.00
						05006 <del>1,288.70</del>

### HAAS/Doosan – BMT 65 – Multi square section tool holder

▲ directly screwed version

▲ For right and left direction of rotation

WNT \ Performance



NEW

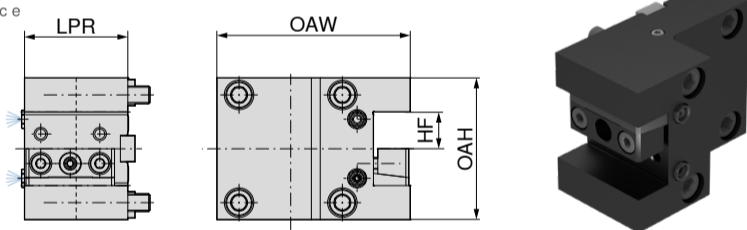


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 483 ... PG Y7
BMT 65	70 x 73	25	80	96	152	£ 570.00
						02007 <del>1,625.00</del>

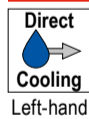
### HAAS/Doosan – BMT 65 – Axial square section tool holder

▲ directly screwed version

WNT \ Performance



NEW



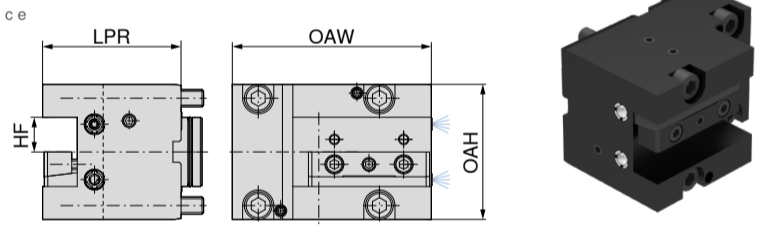
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 483 ... PG Y7
BMT 65	70 x 73	25	75	97	131	£ 463.00
						00005 <del>1,320.00</del>

### Mori/Seiki – BMT 40 – Radial square section tool holder

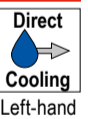
▲ directly screwed version

▲ For right and left direction of rotation

WNT \ Performance



NEW



Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm	82 484 ... PG Y7
BMT 40	70 x 62	20	80	78	115	£ 376.00
						01006 <del>1,074.40</del>

# UP2DATE FEBRUARY

One system, unlimited possibilities

MaxiChange GX keeps a cool head during grooving

[cts.ceratizit.com/gb/en/maxichange](http://cts.ceratizit.com/gb/en/maxichange)

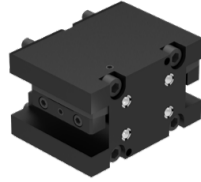
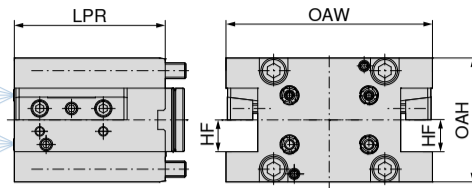




### Mori/Seiki – BMT 40 – Multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

WNT \ Performance



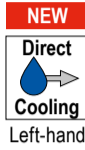
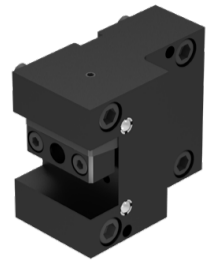
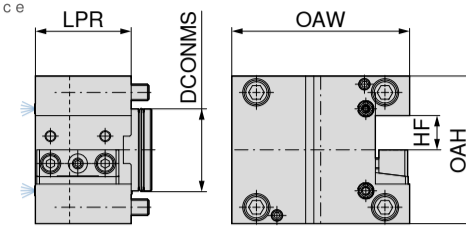
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	95	78	130

82 484 ...	PG Y7
02007	£ 392.00

### Mori/Seiki – BMT 60 – Axial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

WNT \ Performance



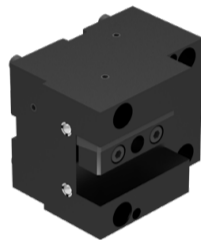
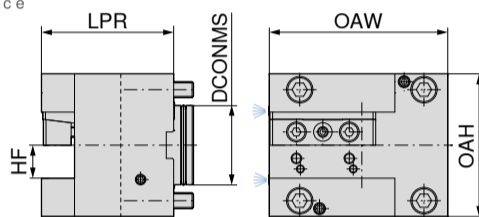
Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	70	108	130

82 485 ...	PG Y7
00005	£ 361.00

### Mori/Seiki – BMT 60 – Radial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

WNT \ Performance



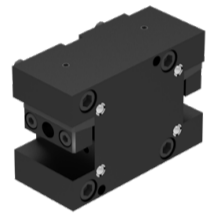
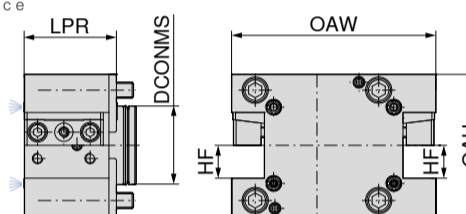
Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	100	108	135

82 485 ...	PG Y7
01006	£ 376.00

### Mori/Seiki – BMT 60 – Multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

WNT \ Performance



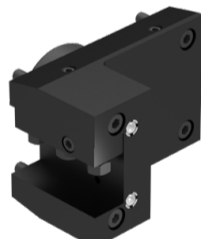
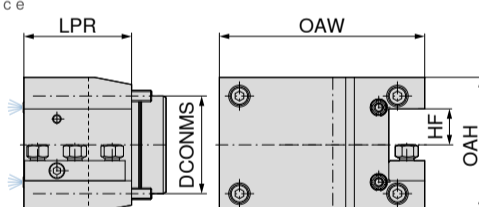
Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	70	108	155.5

82 485 ...	PG Y7
02007	£ 425.00

### Mazak – BMT 68 – Axial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

WNT \ Performance



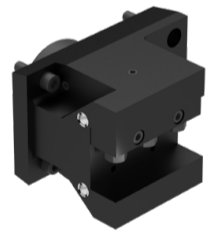
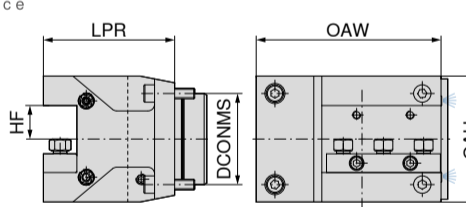
Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 68	110 x 68	25	68	75	94	143

82 486 ...	PG Y7
00005	£ 347.00

### Mazak – BMT 68 – Radial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

WNT \ Performance



Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 68	110 x 68	25	68	98	94	143

82 486 ...	PG Y7
01006	£ 352.00

# UP2DATE FEBRUARY

## Zero point clamping system – MNG mini

For workpiece clamping in the smaller dimension range



[cts.ceratizit.com/gb/en/mng-mini](https://cts.ceratizit.com/gb/en/mng-mini)



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 available from 8:00 am to 6:00 pm, Monday to Friday  
 Email: [techsupport.uk@ceratizit.com](mailto:techsupport.uk@ceratizit.com)



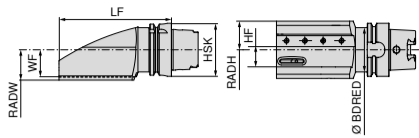
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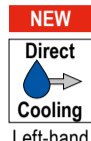
When you see this logo it's in stock in Sheffield

## MonoClamp – HSK-T parting blade holder GX/LX/FX/SX with DirectCooling

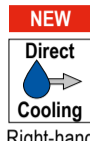
WNT \ Performance



Illustrations show right-hand versions



Left-hand



Right-hand

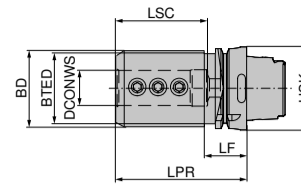
Adapter	LF	BDRED	WF	HF	RADW	RADH	for parting blades
mm	mm	mm	mm	mm	mm	mm	
HSK-T 63	155	52.6	32	26	36	34	XLCF R/L 26...
HSK-T 63	155	52.6	32	32	37.5	35	XLCF R/L 32...

74 585 ...	PG 2D/80
£	£
02637	<del>449.58</del> 315.00
03237	<del>449.58</del> 315.00

74 584 ...	PG 2D/80
£	£
02637	<del>449.58</del> 315.00
03237	<del>449.58</del> 315.00

## HSK-T Boring bar holder

WNT \ Performance



ISO designation	Adapter	LPR	DCONWS	BD	LSC	LF	BTED
		mm	mm	mm	mm	mm	mm
HSK T63 BH08 80	HSK-T 63	80	8	32	41		
HSK T63 BH10 80	HSK-T 63	80	10	40	41		
HSK T63 BH12 80	HSK-T 63	80	12	40	41		
HSK T63 BH16 80	HSK-T 63	80	16	40	51		
HSK T63 BH20 80	HSK-T 63	80	20	50	51		
HSK T100 BH20 90	HSK-T 100	90	20	55	56		
HSK T100 BH25 95	HSK-T 100	95	25	55	61		
HSK T63 BH25 90	HSK-T 63	90	25	53	61		
HSK T63 BH32 95	HSK-T 63	95	32	68	61	42	53
HSK T100 BH32 110	HSK-T 100	110	32	68	61		
HSK T100 BH40 120	HSK-T 100	120	40	83	81		
HSK T100 BH50 125	HSK-T 100	125	50	98	91	45	88

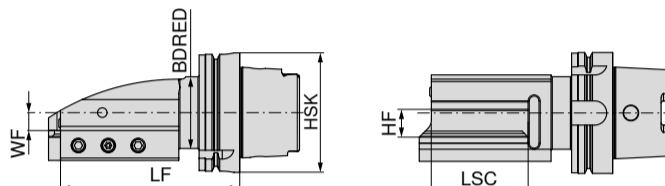
74 577 ...	PG 2D/80
£	£
508	<del>398.33</del> 279.00
510	<del>398.33</del> 279.00
512	<del>398.33</del> 279.00
516	<del>398.33</del> 279.00
520	<del>398.33</del> 279.00
720	<del>507.59</del> 355.00
725	<del>507.59</del> 355.00
525	<del>398.33</del> 279.00
532	<del>398.33</del> 279.00
732	<del>507.59</del> 355.00
740	<del>507.59</del> 355.00
750	<del>507.59</del> 355.00

## HSK-T square shank holder 0° with DirectCooling

▲ Suitable for stationary tool holder HF = 20 / 25 / 32 mm

▲ These HF values can be achieved by removing the mounting adapter and clamping block

WNT \ Performance



Illustrations show right-hand versions



Left-hand



Right-hand

ISO designation	Adapter	LF	l <sub>2</sub>	BDRED	WF	LSC	b <sub>3</sub>	HF
		mm	mm	mm	mm	mm	mm	mm
ISO 12164-3 T63	HSK-T 63	145	46	52.6	15	80	25	25
ISO 12164-3 T100	HSK-T 100	150	51	60.0	15	80	32	32

74 571 ...	PG 2D/80
£	£
02537	<del>351.52</del> 246.00
02535	<del>464.18</del> 325.00

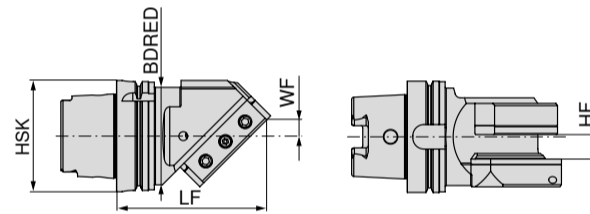
74 570 ...	PG 2D/80
£	£
02537	<del>351.52</del> 246.00
02535	<del>464.18</del> 325.00

## HSK-T square shank holder 45° with DirectCooling

▲ Suitable for stationary tool holder HF = 20 / 25 / 32 mm

▲ These HF values can be achieved by removing the mounting adapter and clamping block

WNT \ Performance



Illustrations show right-hand versions



Left-hand



Right-hand

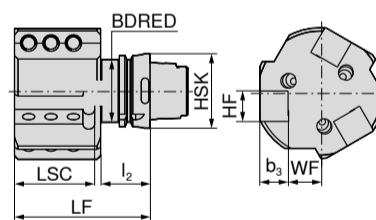
ISO designation	Adapter	LF	l <sub>2</sub>	BDRED	WF	b <sub>3</sub>	HF
		mm	mm	mm	mm	mm	mm
ISO 12164-3 T63	HSK-T 63	130	40	52.6	14.6	25	25
ISO 12164-3 T100	HSK-T 100	135	58	87.6	14.6	32	32

74 573 ...	PG 2D/80
£	£
02537	<del>393.25</del> 275.00
02535	<del>477.74</del> 334.00

74 572 ...	PG 2D/80
£	£
02537	<del>351.52</del> 246.00
02535	<del>477.74</del> 334.00

## HSK-T square shank adapter 3-face 0°

WNT \ Performance



Left-hand

ISO designation	Adapter	LF	l <sub>2</sub>	BDRED	WF	LSC	b <sub>3</sub>	HF
		mm	mm	mm	mm	mm	mm	mm
HSK T63 SH3 L 00 2525	HSK-T 63	115	42	53	28	68	25	25
HSK T100 SH3 L 00 2525	HSK-T 100	120	45	88	33	70	25	25

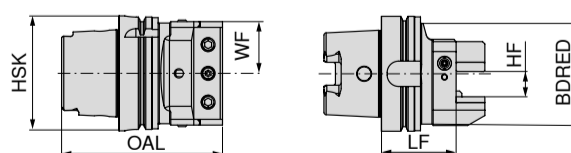
74 576 ...	PG 2D/80
£	£
525	<del>934.95</del> 654.00
725	<del>1,325.29</del> 928.00

## HSK-T square shank holder 90° with DirectCooling

▲ Suitable for stationary tool holder HF = 20 / 25 / 32 mm

▲ These HF values can be achieved by removing the mounting adapter and clamping block

WNT \ Performance



Neutral

ISO designation	Adapter	LF	l <sub>2</sub>	BDRED	WF	OAL	b <sub>3</sub>	HF
		mm	mm	mm	mm	mm	mm	mm
ISO 12164-3 T63	HSK-T 63	60	40	52.6	45	117	25	25
ISO 12164-3 T100	HSK-T 100	65	45	87.6	45	140	32	32

74 575 ...	PG 2D/80
£	£
02537	<del>351.52</del> 246.00
02535	<del>464.18</del> 325.00

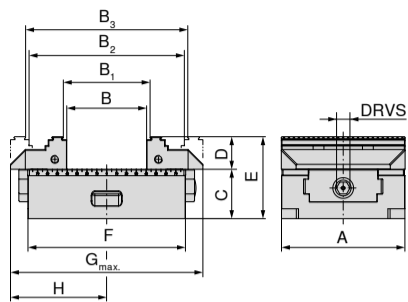




## CentriClamp – ZSG 4

- ▲ Sealed centric vice
- ▲ With grip jaws, 3 mm
- ▲ Ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability
- ▲ Suitable for PNG and MNG

ZSG 4 WNT \ Standard



A	B	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	C <sub>±0.01</sub>	D	E	F	G <sub>max</sub>	H	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
80	0 - 59	4 - 63	59 - 117	63 - 121	50	28	78	130	157	81	12	25	3.9
80	0 - 123	4 - 127	59 - 181	63 - 185	50	28	78	190	206	104	12	25	5.5
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111	12	35	8.7

80 878 ...	Y4
£	£
08700	<del>743.00</del> 650.00
08800	<del>845.00</del> 750.00
15300	<del>899.00</del> 850.00

### Base plate, round



80 899 ...	Y4
£	£
125	<del>523.00</del> 380.00

### MNG indexing bolt



80 899 ...	Y4
£	£
51500	<del>46.00</del> 11.00

### MNG pull studs



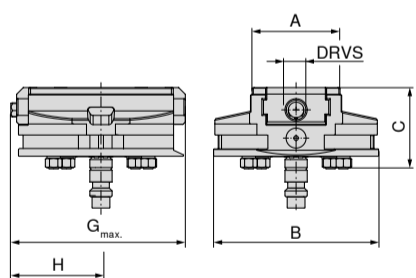
80 899 ...	Y4
£	£
025	<del>45.00</del> 32.00

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

## CentriClamp – ZSG 4

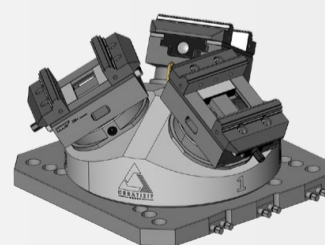
- ▲ Sealed centric vice for Erowa ITS 148
- ▲ Ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability

ZSG 4 WNT \ Standard



A	C	F	G <sub>max</sub>	DRVS	MXC	WT
mm	mm	mm	mm	mm	kN	kg
80	73	148	130	12	25	5,6

80 878 ...	Y4
£	£
08900	<del>1,254.00</del> 1,100.00



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*i* Talk to us about your special workholding requirements



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**ALL MADE IN TECH CENTRE SHEFFIELD**

**PYRAMIDS**



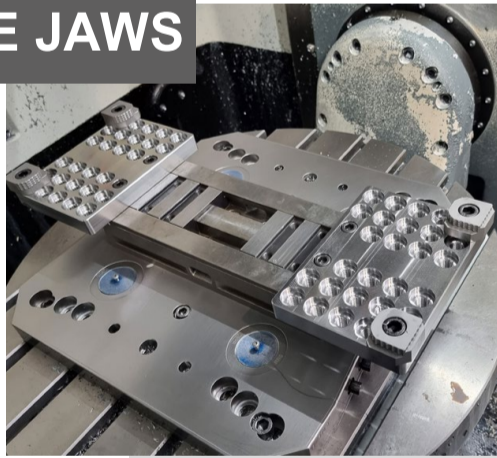
**TOMBSTONE**



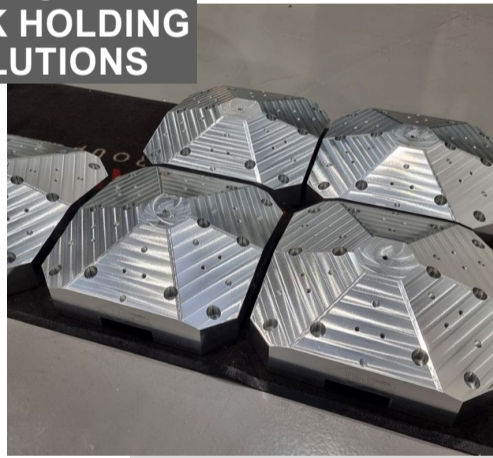
**ZERO POINT  
PLATE  
MODIFICATIONS**



**BESPOKE  
VICE JAWS**



**MULTIPLE  
COMPONENT  
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GROUP**  
Welcome to the  
Sheffield Technical Centre





# Sustainability is not a goal, it's a mission

Together for sustainability

## Leading in sustainability by 2025

Our mission is just as clear as it is difficult to accomplish. By 2025, we aim to be the sustainability leader for the hard metals and cutting tool industry. To meet this ambitious objective and become truly sustainable, we are implementing an array of sustainability measures along the entire value chain. However, we're not just keeping our sustainability ethos in-house, it will help set new standards for cooperating with partners moving forward.



### Climate neutral by 2025

We recognise our responsibility to be good stewards to the climate and are going to great lengths to keep our carbon footprint to a minimum. The United Nations' Sustainable Development Goals aim to achieve net-zero carbon emissions by 2050. We think we can do better and are striving to be net-zero by 2040.

- ▲ **By 2025:** Carbon neutral, emissions reduced by 35%
- ▲ **By 2030:** Combined reduction of 60%
- ▲ **By 2040:** Net zero, emissions reduced by 75%



### Minimise the use of virgin raw materials

To reduce the mining of virgin raw materials, our goal is to increase the share of raw materials remaining in the carbide production chain to over 95% by 2030 (based on scrap recycling rates of sintered products).



Read more about our sustainability approach on our website:

[ceratizit.com](https://ceratizit.com)



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With full control.

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You only pay for the tools you use.

## Zero obsolete stock

You don't get left with old cutting tool technology.

## Major purchasing cost reduction

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