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CERATIZIT TECHNOLOGY DAY

12th December 2023
9.30am – 3.30pm



Technical Centre,
Advanced Manufacturing Park
Sheffield S60 5BL



Latest cutting tool technology



Meet our partners and discover
new products and technology



Partners:



CERATIZIT
GROUP
Welcome to the
Sheffield Technical Centre

SPECIAL SELECTION

VALID: 01.09.2023 – 30.11.2023

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

Tooling a Sustainable Future

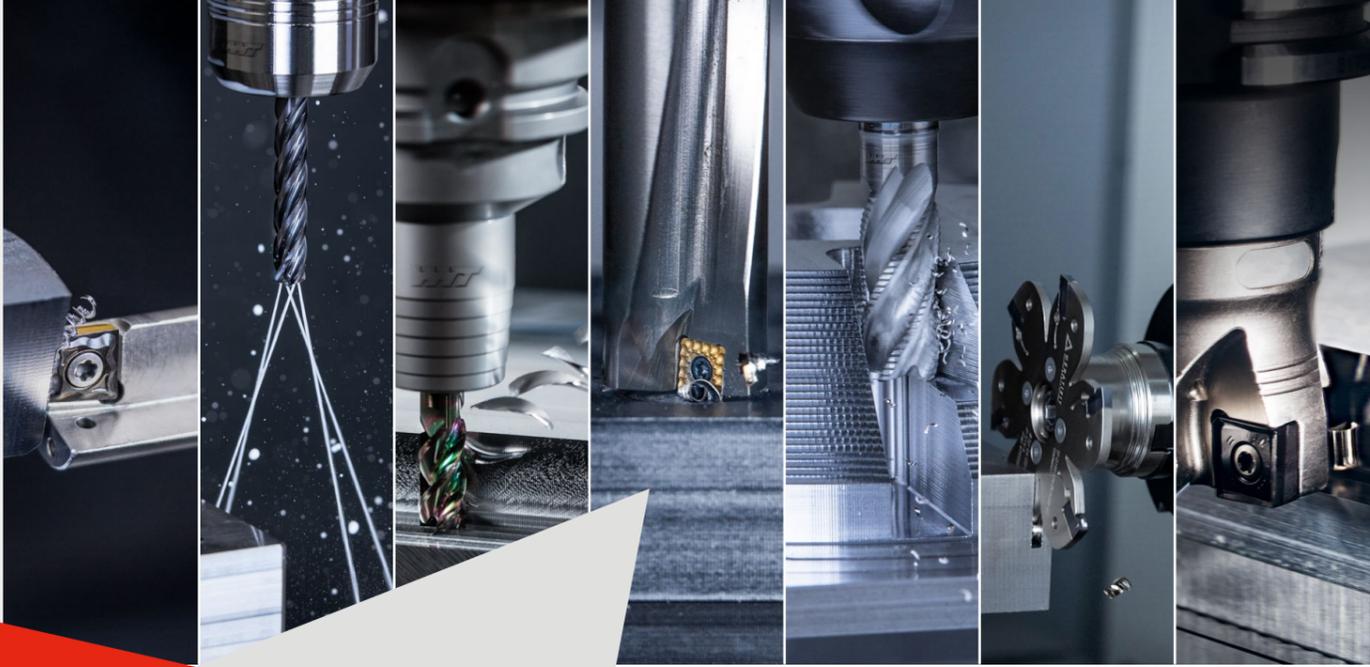
ceratizit.com



CERATIZIT
GROUP

CERATIZIT TECHNOLOGY DAY

12th December 2023
9.30am – 3.30pm



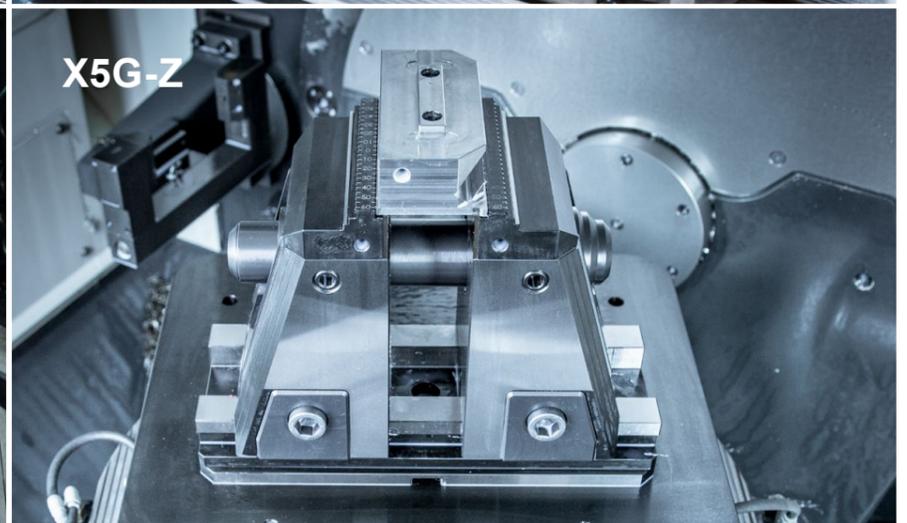
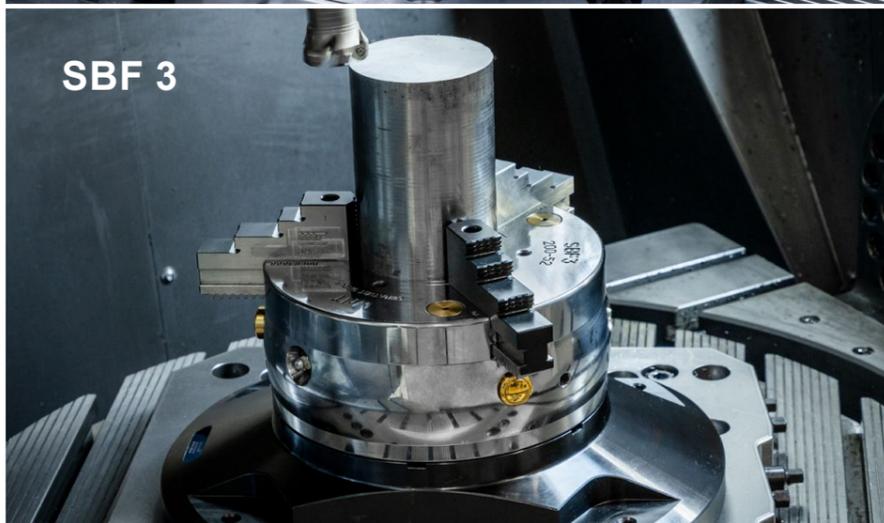
Live cutting demonstrations incorporating our latest cutting tool technology and highlight products.

TOOLS ON SHOW

- ▲ ISO-P Turning inserts – Wear detection coating layer
- ▲ Trochoidal Turning – High metal removal rate
- ▲ WPC Exchangeable Insert Drill – Cost effective hole making
- ▲ A 252 Shell mill – New generation heavy duty milling system
- ▲ Trochoidal Milling – Showing SilverLine / MonsterMill – PCR – High metal removal rate cutters
- ▲ MiniMill / ModuSet slot milling – Process secure slot milling
- ▲ Slot SX – High Performance indexable slot milling system

INTERACTIVE VICE DISPLAY

Our latest clamping technology and developments



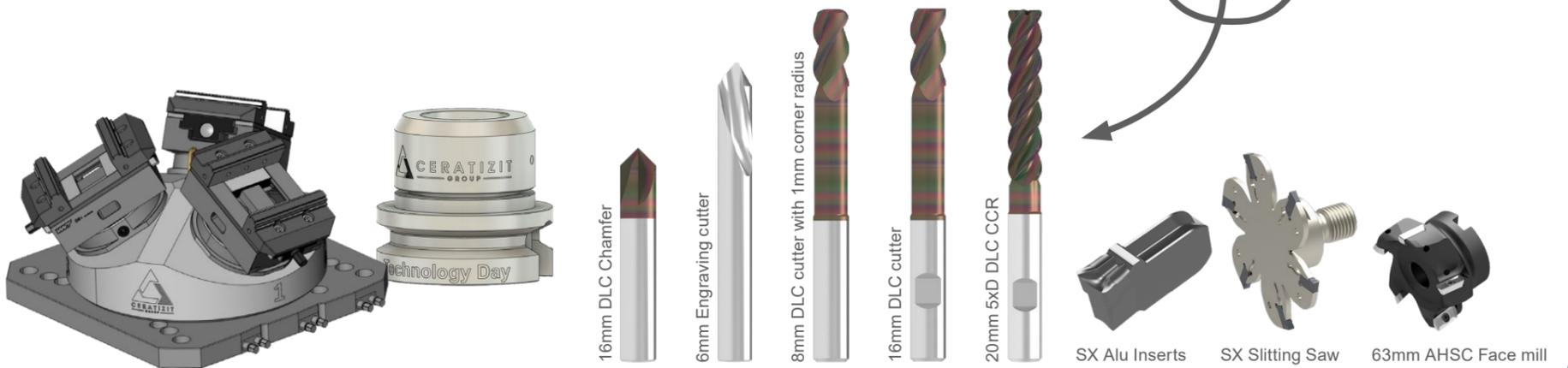
CERATIZIT TECHNOLOGY DAY

12th December 2023
9.30am – 3.30pm

XYZ
Machine Tools
UMC-5X
hyperMILL



LIVE DEMONSTRATION TOOLS



TECHNOLOGY IN FOCUS

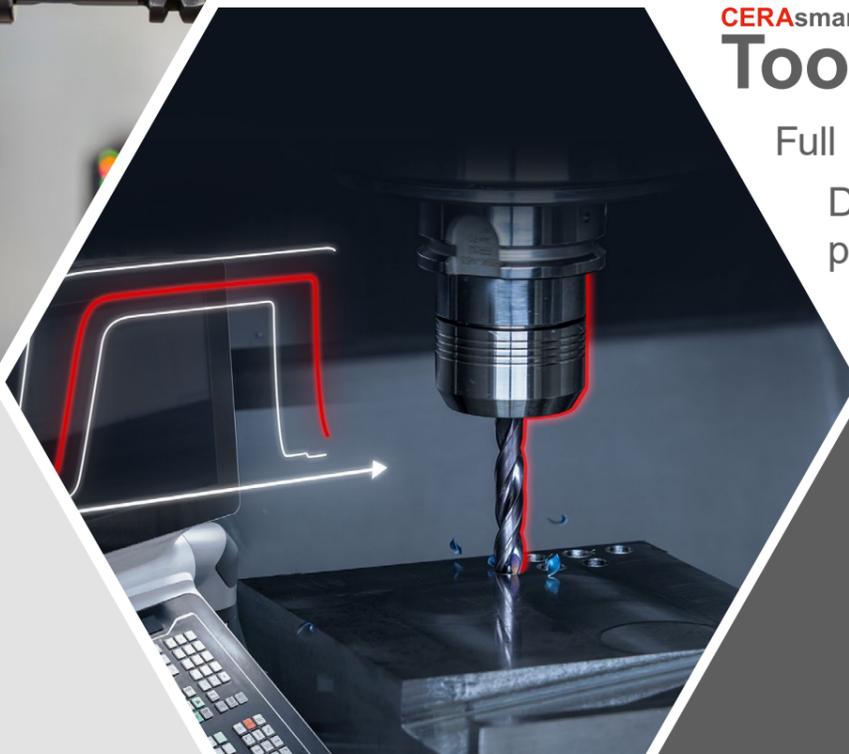
KOMflex

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



CERAsmart ToolScope

Full process control with ToolScope
Digital monitoring for your production



cuttingtools.ceratizit.com/gb/en/komflex



cutting.tools/en/toolscope

CERATIZIT TECHNOLOGY DAY

12th December 2023
9.30am – 3.30pm

All registered visitors will receive a free giveaway of your choice

ZSG4 PHONE HOLDER
COLLET CHUCK PAPERWEIGHT



Mazak
Integrex I-250H



MILLTURN DEMO

Highlights

- ▲ ISO-P Turning
- ▲ Trochoidal Turning
- ▲ WTX-TB Deep hole drilling
- ▲ Trochoidal milling



star
SD-26

CUTTING DEMONSTRATION
HIGHLIGHTING THE LATEST
TOOLING AND STRATEGIES



XYZ
Machine Tools
800HD

Highlights

- ▲ MonsterMill CCR-AL
- ▲ AluLine Milling
- ▲ MaxiMill Slot SX
- ▲ WTX – AL Drill
- ▲ 3D Milling



CATERING

BREAKFAST ROLLS
from 9.30am – 11.30am

TURKEY STUFFING SANDWICHES
FESTIVE GAMMON SANDWICHES
PIGS IN BLANKETS
ACCOMPANIED WITH ALL THE FESTIVE CONDIMENTS
MINCE PIES
from 12 noon – 2.30pm

WHERE TO
FIND US



SPECIALITY
HOT DRINKS
SERVED BY





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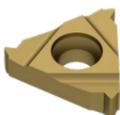
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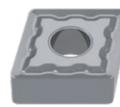
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CentriClamp – ZSG 4

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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

cutting.tools/gb/en/specialselection09-23



Left: Chris Barnes Apprentice Mentor,
Middle: Nev Frisby,
Right: Adam Leadbeater Apprentice of the year

INVESTING IN THE FUTURE OF ENGINEERING: HOW SRD ARE FUTURE-PROOFING THEIR MACHINING PRACTISES WITH THE HELP OF CERATIZIT

A family business that prides itself on a personal touch with customers, SRD is an engineering company based in Bicester, Oxfordshire, which specialises in manufacturing automotive parts. Servicing highly competitive industries such as Formula 1 and motorsport, SRD is renowned for a fast turnaround for parts. Having been in business for over three decades, it has grown into a modern company with over 150 employees, seeing a notable amount of growth in the past 6-7 months.

However, even companies who are at the forefront of their industries need to keep up to date in order to stay competitive. This was certainly true for SRD. For many years, SRD has relied on tried and tested machining techniques to provide the excellent service they are known for. Though, with a recent higher demand for products and a need to fulfil more orders at a quicker rate, they turned to CERATIZIT for help.

Working with Nev Frisby, Technical Sales Engineer for CERATIZIT, they examined their machining processes, inserts and tools and outlined some areas where improvements could be implemented. Firstly, the management team from SRD were invited to a training day at CERATIZIT's Tech Centre in Sheffield. Led by Shaun Thornton, Technical Manager for CERATIZIT UK & Ireland, SRD learned about the most up to date tooling and machining practises, as well as being given the chance to put these tools and materials to the test in the workshop downstairs. Back in the workshop, Nev set up a tooling 'swap out', where new inserts could be tested without expense to see if they would work for them, it wasn't long before SRD began to achieve some incredible results.

In some instances, SRD were making a time saving of 30-40% on roughing cycles meaning that part production significantly increased. Tool life has also been increased through the use of CERATIZIT's inserts, and their EcoCut inserts are now seen across the workshop. The wide selection of tooling and inserts available in CERATIZIT's extensive catalogue also meant that SRD were able to find the appropriate tools for each job. The constant line of communication between CERATIZIT and SRD meant that technical support was always on hand. Furthermore, Nev's regular visits, supported by Drew Pettifar, an Application Sales Engineer for CERATIZIT, allowed them to get intimately acquainted with SRD's machines and machining needs, ensuring that whatever they recommended would be sure to make a positive impact.

The professional relationship between CERATIZIT and its customers is built on trust and mutual respect. SRD explained the extent to which Nev has helped them make huge improvements across various aspects of machining and production. Paul Bonham highlighted how 'Nev has really been incredible through this professional relationship. Nev doesn't just sell products, he recommends products that he is confident will be beneficial for us. The constant line of contact and support we have from Nev and CERATIZIT is invaluable, we receive a great amount of technical support from Nev and Drew.'

For SRD, CERATIZIT did more than just provide excellent tooling paired with technical expertise. Speaking to Jack Wignall, Business Developer at SRD, he discussed how CERATIZIT 'encouraged us to continue to grow. It's a good reminder that there is always room for improvement in engineering – no matter how efficient you think your processes are. I definitely think this is the start of continuous improvement for SRD as we are determined to stay at the top of our game, and futureproofing the company means that we need to be up to date with tooling and machining techniques.'

The focus on futureproofing the company for SRD extends beyond its approach to highly specialised, precise machining. SRD invest in their apprentices, and are passionate about providing high quality, skilful training to their apprentices. Each apprentice working at SRD is given all the support they need to succeed in this industry. Whether that's more time set aside for them to complete course, or whether it's speaking to different people in the workshop, SRD are renowned for how positive a place it is to complete an apprenticeship.

Amongst the current apprentices is Adam Leadbeater, a hard-working and diligent apprentice who recently won Apprentice of the Year, a national award whose winner is selected from all apprentices in the UK. Adam completed his apprenticeship at SRD and chose to stay on at the company once he qualified. Adam highlighted how much support and encouragement he was given by SRD, and exaggerated how he felt he was more able to thrive in his apprenticeship because of their constant support. He said how 'A lot of companies don't let apprentices take time out of their working day to complete coursework, however, SRD always made sure that I had time to work on my apprenticeship and I felt incredibly supported by everyone in the company. It's such a positive place to be, and I still feel like I learn a lot every day. There is only room to grow in this company and you can always move forward if you want to. If you're wanting to push for improvement, then someone will always be there to help you achieve it.'

Dedicated to their apprenticeship programme, SRD even have a Training Mentor, Chris Barnes, who is the apprentices' first point of call for support in the workplace. Speaking about the value that is placed in the younger generation of engineers, he stated how 'We value our apprentices as it's getting increasingly harder to find skilled people who are eager to work hard and learn. SRD sees this as investing in the future of the company and in the future of highly skilled machinists. Our apprentices, like Adam, are all encouraged to ask questions and learn. Bringing in younger people is the best way to keep a company growing, and to ensure that the company is strong for generations to come.'

Chris supported Adam through his apprenticeship and was keen to say how proud he was of everything Adam has achieved with SRD. He further said 'We were all incredibly proud of Adam for winning Apprentice of the Year. We value all of our apprentices immensely, and it's rewarding to know that Adam's hard work, diligence and eagerness to better himself everyday didn't go unnoticed.'

The future looks bright for SRD and everyone who works every day to continuously improve themselves alongside the company they are passionate about working for. Paul reflected how 'the most exciting thing for us working with CERATIZIT is that this is still just the start of our relationship. If so much has been achieved already, then we can't wait to see what the future holds for us as we work together.'



Left: Jack Wignall business development manager from SRD
Right: Chris Bryant production manager from SRD

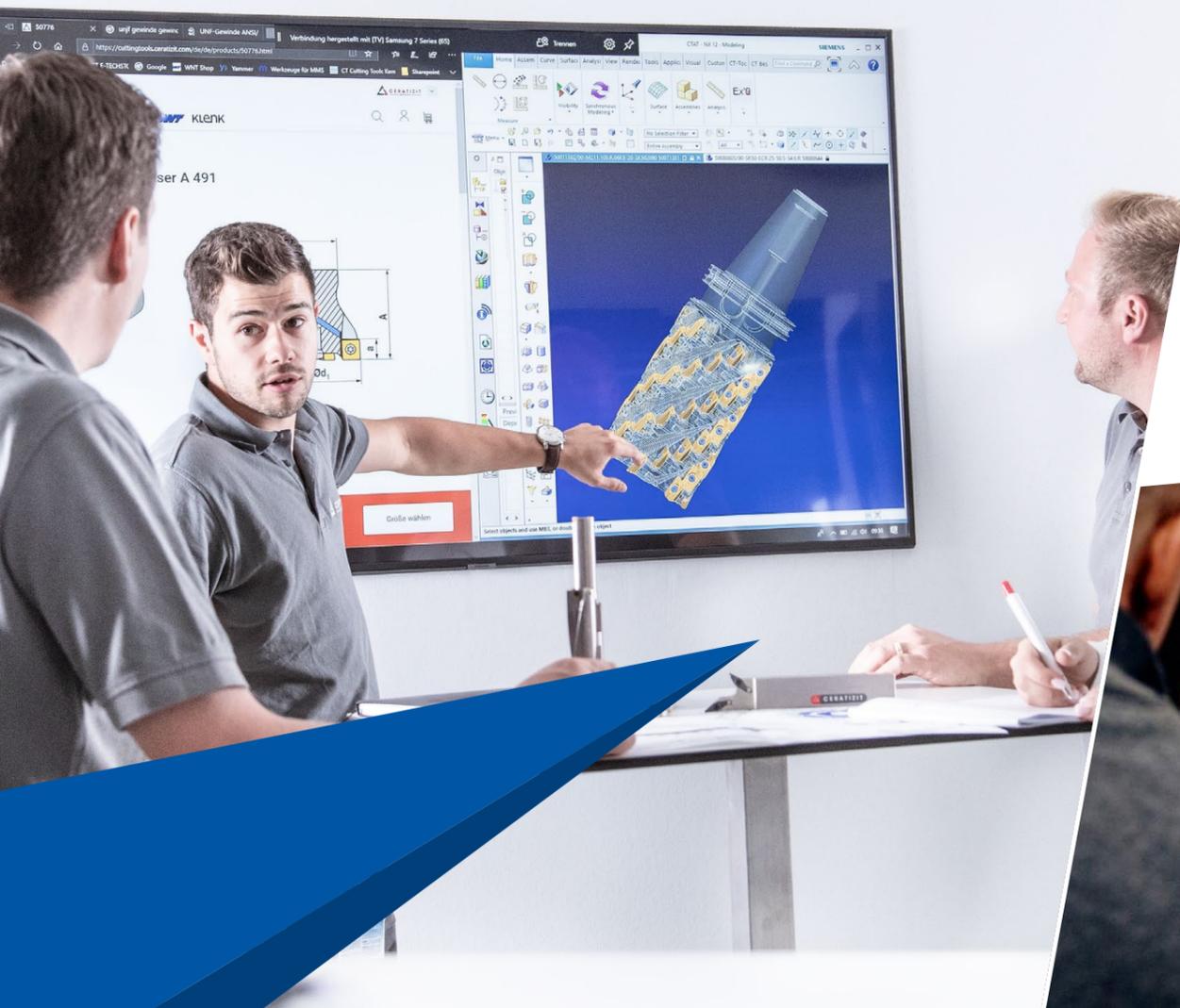




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- ▲ Customer cutting tool application training
- ▲ Process optimisation on customer components and application with cycle time reduction targets
- ▲ Ask your local technical sales engineer how our projectsteam can support you





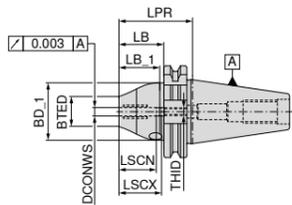
HyPower – Rough

- ▲ High pressure chuck – especially for milling
- ▲ Ideal for HSC and HPC applications
- ▲ High temperature resistance
- ▲ Also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw

WNT \ Performance



NEW



AD/B

G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	84 254 ... PG Y8	
										£	£
SK 40	12	50.0	32	49	27.1	46	36	30.9	M10x1	11279	658.80 296.00
SK 40	6	50.0	26	42	27.1	37	27	30.9	M5	10679	658.80 296.00
SK 40	8	50.0	28	42	27.1	37	27	30.9	M6	10879	658.80 296.00
SK 40	10	50.0	30	42	27.1	41	31	30.9	M8x1	11079	658.80 296.00
SK 40	16	64.5	38	49	41.6	49	39	45.4	M12x1	11679	658.80 296.00
SK 40	20	64.5	38	49	41.6	51	41	45.4	M16x1	12079	658.80 296.00

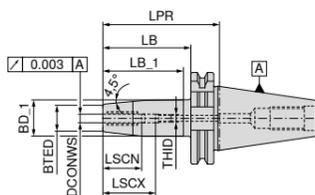
HyPower – Access 4.5°

- ▲ High pressure chuck with slim contour, original dimensions of a 4.5° shrink contour
- ▲ Especially for reaming and drilling applications
- ▲ Ideal for tool and die production
- ▲ Also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw

WNT \ Performance



NEW



AD/B

G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	84 255 ... PG Y8	
										£	£
SK 40	12	80	24	32	55.7	60.9	46	36	M10x1	11279	788.40 355.00
SK 40	6	80	21	27	55.7	60.9	37	27	M5	10679	788.40 355.00
SK 40	8	80	21	27	55.7	60.9	37	27	M6	10879	788.40 355.00
SK 40	10	80	24	32	55.7	60.9	41	31	M8x1	11079	788.40 355.00
SK 40	16	80	27	34	55.8	60.9	49	39	M12x1	11679	788.40 355.00
SK 40	20	80	33	42	57.2	60.9	51	41	M16x1	12079	788.40 355.00



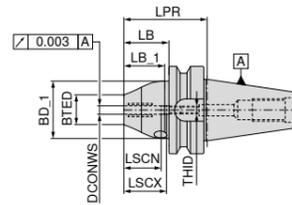
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Scope of supply:

Base body with backstop screw and pressure screw

WNT \ Performance



NEW



AD/B

G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	84 254 ... PG Y8	
										£	£
BT 40	12	58.0	32	49	27.2	33.0	46	36	M10x1	11269	658.80 296.00
BT 40	6	58.0	26	42	27.2	33.0	37	27	M5	10669	658.80 296.00
BT 40	8	58.0	28	42	27.2	33.0	37	27	M6	10869	658.80 296.00
BT 40	10	58.0	30	42	27.2	33.0	41	31	M8x1	11069	658.80 296.00
BT 40	16	72.5	38	49	41.7	47.5	49	38	M12x1	11669	658.80 296.00
BT 40	20	72.5	38	49	41.7	47.5	51	41	M16x1	12069	658.80 296.00

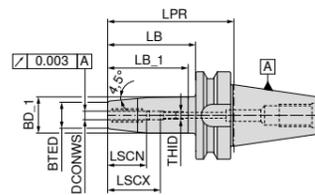
HyPower – Access 4.5°

- ▲ High pressure chuck with slim contour, original dimensions of a 4.5° shrink contour
- ▲ Especially for reaming and drilling applications
- ▲ Ideal for tool and die production
- ▲ Also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw

WNT \ Performance



NEW



AD/B

G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	84 255 ... PG Y8	
										£	£
BT 40	12	90	24	32	57.7	80	46	36	M10x1	11269	788.40 355.00
BT 40	6	90	21	27	57.7	80	37	27	M5	10669	788.40 355.00
BT 40	8	90	21	27	57.7	80	37	27	M6	10869	788.40 355.00
BT 40	10	90	24	32	57.7	80	41	31	M8x1	11069	788.40 355.00
BT 40	16	90	27	34	57.2	80	49	39	M12x1	11669	788.40 355.00
BT 40	20	90	33	42	57.5	80	51	41	M16x1	12069	788.40 355.00

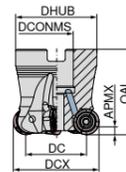
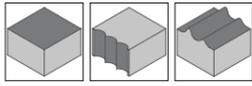
MaxiMill – 252 Shell mill

New generation heavy duty button milling system

- ▲ Cost-effective double-sided inserts
- ▲ Very high performance on stainless and HRSA



MaxiMill – 252 Shell mill



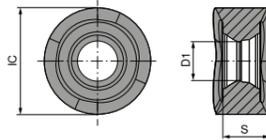
CERATIZIT \ Performance

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	434.20 65.00
250	557.25 79.00
252	558.66 79.00
263	651.43 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	1205M4ER	51 107 ...	PG 1H/17	50 521 ...	PG 1H/17
P		475	31.35 26.65	552	31.35 26.65
M					
K					
N					
S					
H					
O					



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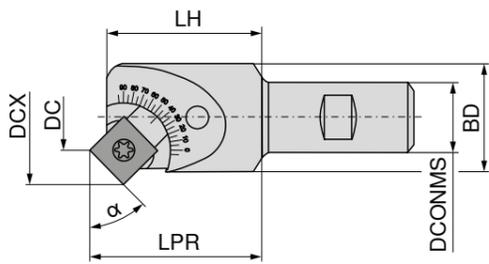


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Adjustable single angle milling cutter C 4500



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

50 690 ...	PG 2B/40
01600	£ 100.00
02000	£ 120.00

UltraMini – Set

▲ internal turning, grooving and chamfering



73 085 ...	PG Y5
999	£ 665.72

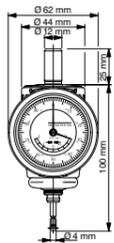
Set

Universal 3D-Tester HQ

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

Scope of supply

3D tester including tracer insert and Allen key



85 292 ...	PG XX
100	£ 300.00

Universal 3D-Tester HQ

Zero height setting gauge



Designation	Height mm	85 900 ...	PG Y7
Zero height setting gauge	100	018	£ 75.00

Assembly device for ISO adapters

▲ Aluminium



Collet chuck	80 720 ...	PG Y7
SK 30	030	£ 55.00
SK 40	040	£ 60.00
SK 50	050	£ 65.00

Twist drill sets DIN 338 – Type N short

▲ In metal box
▲ In 0.1 mm steps



10 158 ...	PG T2
050	£ 78.55
100	£ 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	£ 135.00

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



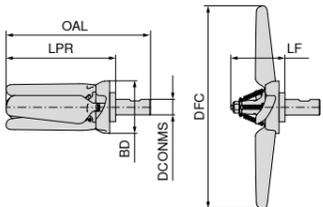
30 100 ...	PG U1
999	£ 30.00

Set

Cleaning propeller

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

WNT \ Standard

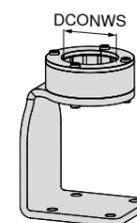


DCONMS mm	OAL mm	LPR mm	LF mm	DFC mm	BD mm	RPMX 1/min.
20	135	90	70	160	68	6000 - 12000
20	186.3	141.3	69.75	254	67.68	5000 - 8000

80 399 ...	PG Y7
16000	£ 241.00

80 399 ...	PG Y7
02000	£ 135.00

WNT \ Standard



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

Spare parts

for Article no.

80 399 16000

80 399 02000



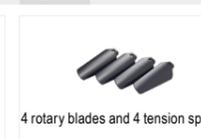
80 399 ... 36000



80 399 ... 46000



80 399 ... 30100



80 399 ... 30200





HSS DRILLING



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



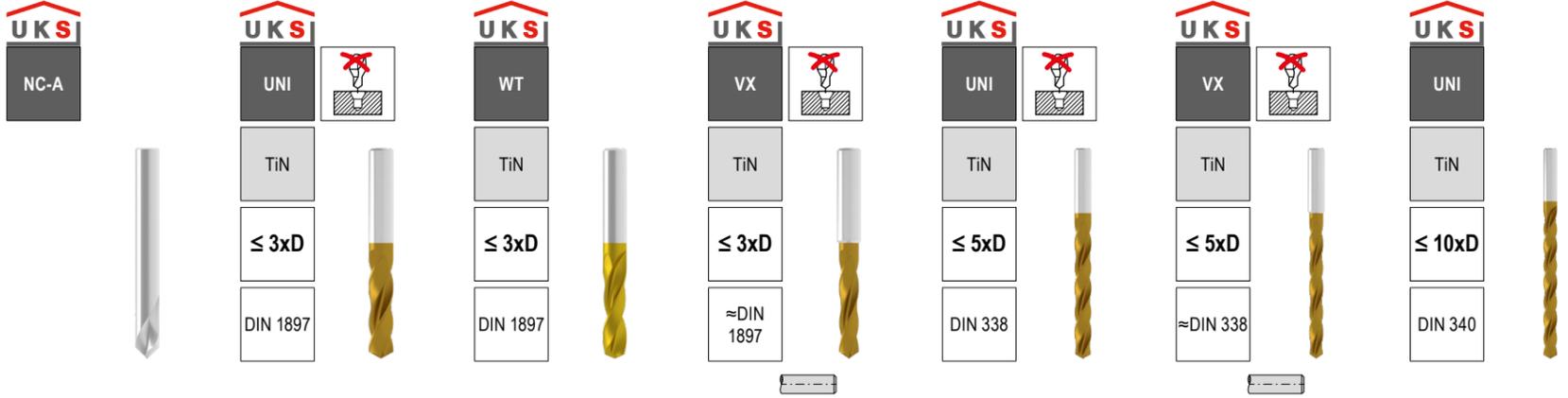
WT – problem solver for difficult to machine materials and applications.



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



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



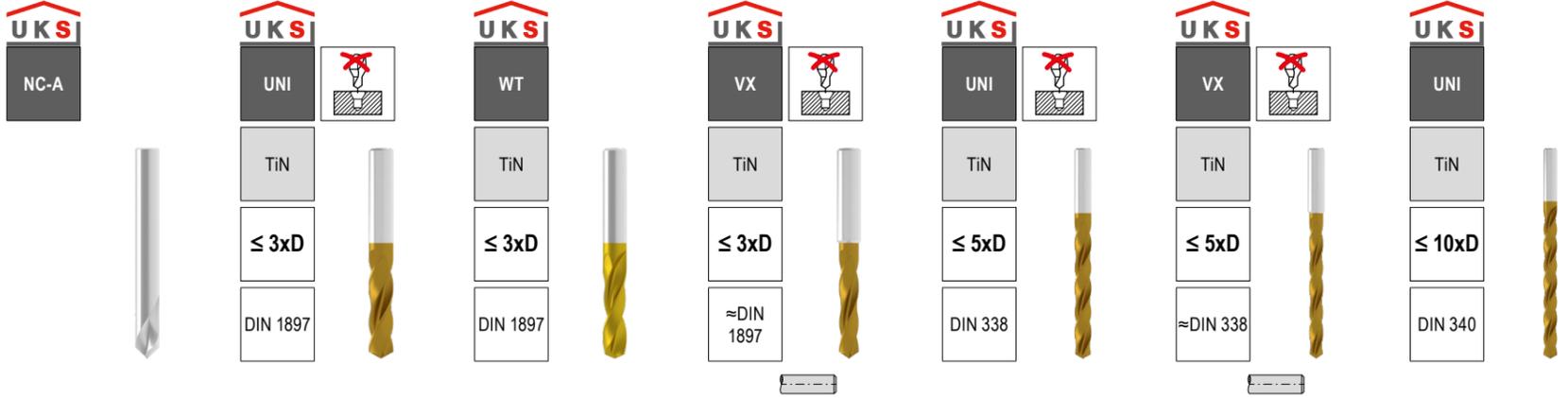
DC _{h8/6} mm	10 520 ... PG T2		10 107 ... PG T2		10 110 ... PG T2		10 122 ... PG T2		10 171 ... PG T2		10 124 ... PG T2		10 270 ... PG T2			
	£	£	£	£	£	£	£	£	£	£	£	£	£	£		
0.90					010	6.14	5.22	010	6.35	5.40			010	9.57	8.13	
1.00					011	6.14	5.22	011	6.35	5.69			011	10.67	9.07	
1.10					012	5.81	4.94	012	6.35	5.40			012	11.92	10.13	
1.20																
1.25																
1.30					013	6.14	5.22	013	6.60	5.69			013	11.75	9.99	
1.40					014	5.98	5.08	014	6.60	5.69			014	11.61	9.87	
1.45																
1.50					015	5.57	4.73	015	6.35	5.40			015	10.10	8.59	
1.55																
1.60					016	5.57	4.73	016	6.35	5.40			016	11.92	10.13	
1.65																
1.70					017	5.26	4.47	017	5.98	5.08			017	13.92	11.07	
1.80					018	5.57	4.73	018	5.35	5.40			018	12.43	10.57	
1.90					019	5.57	4.73	019	6.35	5.40			019	13.20	11.31	
2.00					020	4.89	4.16	020	5.57	4.73	020	11.96	10.17	020	9.87	8.39
2.10					021	5.26	4.47	021	5.98	5.08	021	13.55	11.52	021	11.30	9.68
2.20					022	5.81	4.94	022	6.35	5.40	022	14.60	12.41	022	11.61	9.87
2.30					023	5.62	4.78	023	6.35	5.40	023	14.60	12.41	023	11.30	9.68
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	10.55	8.97
2.50					025	5.26	4.47	025	6.35	5.40	025	13.36	11.36	025	10.10	8.59
2.55																
2.60					026	5.81	4.94	026	6.60	5.69	026	15.28	12.99	026	11.61	9.87
2.70					027	6.14	5.22	027	7.06	6.00	027	15.81	13.44	027	12.28	10.44
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	15.81	13.44	028	11.75	9.99
2.90					029	6.14	5.22	029	7.06	6.00	029	15.81	13.44	029	12.28	10.44
3.00	030	9.43	8.02	030	5.57	4.73	030	6.98	5.87	030	14.60	12.41	030	10.88	9.25	
3.10				031	5.98	5.08	031	6.98	5.87	031	14.60	12.41	031	10.34	8.78	
3.17				317	5.81	4.94				317	5.81	4.94				
3.20				032	5.62	4.78	032	6.55	5.55	032	14.60	12.41	032	10.34	8.78	
3.25																
3.30				033	6.14	5.22	033	7.06	6.00	033	14.60	12.41	033	12.79	10.87	
3.40				034	6.35	5.40	034	7.06	6.00	034	14.60	12.41	034	13.30	11.31	
3.50				035	6.14	5.22	035	6.35	5.40	035	13.98	11.80	035	13.92	11.07	
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	13.48	11.46	
3.70				037	6.68	5.68	037	7.65	6.50	037	15.81	13.44	037	13.42	11.15	
3.80				038	6.53	5.55	038	7.06	6.00	038	15.49	13.16	038	12.62	10.73	
3.90				039	7.29	6.28	039	7.65	6.50	039	15.81	13.44	039	14.43	12.01	
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	13.80	11.73	
4.10				041	6.98	5.87	041	7.06	6.00	041	12.85	10.92	041	14.94	11.93	
4.20				042	6.68	5.68	042	7.06	6.00	042	13.55	11.52	042	13.48	11.46	
4.25																
4.30				043	7.06	6.00	043	7.97	6.77	043	14.24	12.10	043	14.95	12.78	
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	13.30	11.31	
4.50				045	7.06	6.00	045	6.60	5.69	045	13.36	11.36	045	14.43	12.01	
4.60				046	7.75	6.59	046	8.97	7.54	046	16.88	14.35	046	13.63	11.59	
4.65																
4.70				047	8.16	6.94	047	9.21	7.83	047	17.22	14.64	047	15.77	13.40	
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	15.34	13.04	
4.90				049	9.15	7.78	049	9.21	7.83	049	17.22	14.64	049	15.55	13.22	
4.95																
5.00	050	10.15	8.63	050	7.22	6.14	050	7.42	6.31	050	14.60	12.41	050	15.77	13.40	
5.05																
5.10				051	9.66	8.21				051	16.88	14.35	051	17.44	14.82	
5.16				052	12.50	10.63				052	17.40	14.79	052	14.71	12.54	
5.20				053	11.96	10.17	053	9.21	7.83	053	17.59	14.95	053	18.92	16.00	
5.30				054	12.66	10.76				054	19.54	16.58	054	20.55	17.47	
5.40				055	12.50	10.63				055	15.48	13.16	055	16.39	13.93	
5.50				056	9.33	7.93	056	7.97	6.77	056	15.48	13.16	056	16.39	13.93	
5.55																
5.56				556	10.30	8.83				556	11.92	9.37				
5.60				057	15.28	12.99	057	10.15	8.63	057	19.54	16.58	057	21.42	18.21	
5.70				058	15.48	13.16	058	10.15	8.63	058	19.54	16.58	058	23.66	20.11	
5.75																
5.80				059	16.35	13.90	059	10.15	8.63	059	19.54	16.58	059	20.77	17.65	
5.90				060	16.54	14.06	060	10.50	8.93	060	19.54	16.58	060	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	19.69	16.74	
6.10				061	17.59	14.95	061	25.32	21.52	061	25.32	21.52	061	23.35	19.85	
6.20				062	17.92	15.23	062	25.32	21.52	062	25.32	21.52	062	20.94	17.80	
6.30				063	19.54	16.58	063	30.23	25.70	063	30.23	25.70	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	14.24	12.08	064	26.26	22.31	064	21.24	18.05	
6.50				065	19.98	9.27	065	14.24	12.08	065	26.26	22.31	065	20.40	17.34	
6.60				066	20.55	17.47	066	20.77	17.47	066	30.77	26.15	066	23.52	19.99	
6.70				067	20.93	17.79	067	20.77	17.47	067	30.77	26.15	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	25.89	22.01	
6.90				069	21.61	18.37	069	33.21	28.23	069	33.21	28.23	069	26.84	22.81	
7.00				070	12.50	10.63	070	12.20	10.45	070	25.32	21.52	070	24.26	20.71	

1) self-centering

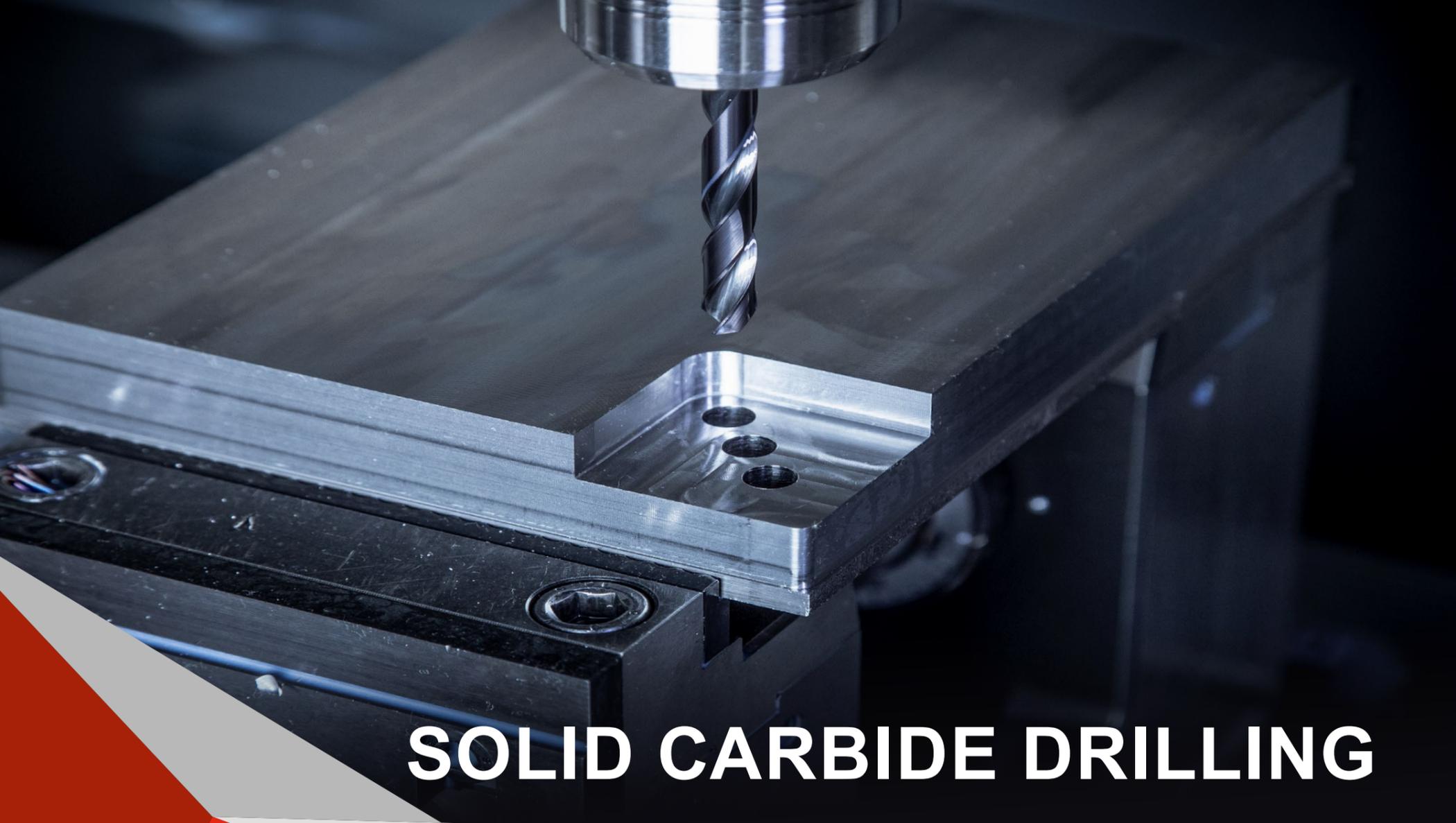
Ø DC_{h8} for Type UNI, WT and VX / Ø DC_{h6} for Type NC-A



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



DC _{h8/h6} 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	22.50 19.13			071	37.24 31.65	071	14.67 12.47	071	46.20 39.35	071	23.52 19.99	
7.14			714	23.03 19.58					714	21.04 18.62					
7.20			072	22.70 19.30	072	16.66 14.16	072	37.82 32.15	072	14.67 12.47	072	46.20 39.35	072	26.83 22.89	
7.30			073	22.84 19.41			073	37.82 32.15	073	14.67 12.47	073	46.20 39.35	073	28.15 23.93	
7.40			074	22.70 19.30	074	16.84 14.31	074	37.82 32.15	074	14.67 12.47	074	46.20 39.35	074	29.47 24.79	
7.45															
7.50			075	14.24 12.10	075	12.86 10.93	075	37.82 32.15	075	14.78 10.01	075	46.20 39.35	075	20.68 25.23	
7.55								075	26.74 22.70			075	46.20 39.30		
7.60			076	21.26 18.07	076	19.28 15.54	076	38.38 32.62	076	17.22 14.64	076	46.20 39.30	076	31.84 27.06	
7.70			077	26.37 22.41	077	19.28 15.54	077	41.34 35.11	077	17.72 15.06	077	46.20 39.30	077	38.87 25.56	
7.80			078	25.47 21.65	078	19.28 15.54	078	41.34 35.11	078	17.22 14.64	078	46.20 39.30	078	33.15 28.18	
7.90			079	27.94 23.75	079	19.28 15.54	079	41.34 35.11	079	17.72 15.06	079	46.20 39.30	079	34.96 27.17	
7.94			794	14.44 12.25					794	17.22 14.64					
8.00	080	17.35 14.75	080	13.76 11.70	080	19.23 11.25	080	37.42 23.31	080	14.38 12.16	080	46.20 39.30	080	27.13 23.06	
8.10			081	28.67 24.37			081	46.87 39.84	081	17.22 14.64	081	51.77 44.00	081	29.94 25.42	
8.20			082	29.90 25.42	082	19.28 15.54	082	46.87 39.84	082	18.44 15.67	082	51.77 44.00	082	32.62 27.73	
8.30			083	32.15 27.33			083	46.87 39.84	083	18.44 15.67	083	51.77 44.00	083	34.58 29.39	
8.40			084	33.04 28.08	084	19.20 16.32	084	46.87 39.84	084	19.34 16.44	084	51.77 44.00	084	37.17 31.59	
8.50			085	16.35 13.90	085	15.94 13.52	085	31.10 26.44	085	14.12 12.00	085	52.24 44.38	085	34.84 27.06	
8.60			086	19.64 16.69			086	48.70 41.40	086	31.57 26.83	086	48.17 40.94	086	31.63 26.89	
8.70			087	22.60 19.21	087	19.75 16.79	087	48.70 41.40	087	31.57 26.83	087	48.17 40.94	087	34.96 27.17	
8.73			873	25.80 22.01					873	29.74 17.63					
8.80			088	21.26 18.07	088	19.75 16.79	088	48.70 41.40	088	21.97 18.67	088	48.17 40.94	088	32.47 27.60	
8.90			089	27.86 23.77			089	48.70 41.40	089	27.42 23.05	089	48.17 40.94	089	32.89 28.04	
9.00			090	17.22 14.64	090	16.14 13.72	090	33.93 28.84	090	17.75 15.09	090	48.17 40.94	090	33.46 28.44	
9.10			091	23.55 20.02			091	61.06 51.90	091	29.40 25.07	091	51.77 44.00	091	33.46 28.44	
9.20			092	23.72 20.16	092	25.85 21.97	092	61.06 51.90	092	30.97 25.73	092	51.77 44.00	092	33.46 28.44	
9.30			093	14.82 35.55	093	25.85 21.97	093	61.06 51.90	093	26.88 22.85	093	51.77 44.00	093	33.46 28.44	
9.35								935	61.06 51.90	935	29.93 17.79				
9.40			094	27.50 23.38	094	25.85 21.97	094	61.06 51.90	094	32.24 28.23	094	51.77 44.00	094	33.46 28.44	
9.50			095	18.44 15.67	095	24.00 17.85	095	42.40 36.04	095	29.83 17.79	095	51.77 44.00	095	33.46 28.44	
9.55										955	56.46 47.99				
9.60			096	28.76 24.45	096	26.25 22.31	096	45.75 38.89	096	30.94 25.53	096	56.46 47.99	096	35.44 30.12	
9.70			097	27.86 23.77	097	26.25 22.31	097	45.75 38.89	097	35.29 30.00	097	56.46 47.99	097	37.17 31.59	
9.80			098	13.06 36.60	098	28.08 23.87	098	45.75 38.89	098	30.94 25.53	098	56.46 47.99	098	39.70 33.75	
9.90			099	29.88 25.40	099	29.08 23.87	099	45.75 38.89	099	27.66 23.51	099	56.46 47.99	099	49.15 36.68	
10.00	100	18.13 15.41	100	21.44 18.22	100	19.75 16.79	100	40.79 34.67	100	21.95 17.89	100	56.46 47.99	100	46.65 39.65	
10.10			101	28.76 24.45			101	27.46 23.09	101	27.46 23.09	101	74.58 60.85	101	58.87 43.32	
10.20			102	34.08 28.97	102	27.88 23.70	102	60.36 51.31	102	29.46 24.19	102	74.58 60.85	102	54.44 46.27	
10.30			103	26.74 22.70			103	61.41 52.20	103	29.72 20.16	103	74.58 60.85	103	58.73 49.92	
10.40			104	31.27 26.58			104	29.37 24.96	104	29.37 24.96	104	74.58 60.85	104	58.73 49.92	
10.50			105	36.94 31.37	105	26.57 22.58	105	58.63 49.84	105	29.83 25.10	105	74.58 60.85	105	59.63 50.69	
10.55															
10.70								107	64.09 54.48			107	78.62 66.83		
10.80								108	61.64 52.37			108	78.62 66.83		
11.00			110	39.35 33.45	110	26.57 22.58	110	58.63 49.84	110	32.36 27.51	110	66.26 56.32	110	70.78 60.16	
11.10			111	46.39 39.43			111	57.35 48.75							
11.20									111	62.99 53.03					
11.30									112	62.99 53.03	112	70.94 60.30			
11.40									113	62.99 53.31	113	70.94 60.30			
11.50									114	62.99 53.31	114	70.94 60.30			
11.60			115	44.66 37.96	115	27.70 23.55	115	61.06 51.90	115	41.34 35.11	115	70.94 60.30	115	74.69 60.94	
11.70									116	71.86 61.08	116	78.22 66.49			
11.80								117	68.65 58.35			117	78.22 66.49		
11.90								118	71.68 60.93			118	78.22 66.49		
12.00	120	27.88 23.70	120	52.53 44.65	120	31.60 26.94	120	70.12 59.60	120	46.04 39.13	120	78.22 66.49	120	72.53 61.65	
12.10								121	54.87 43.41	121	47.26 40.17				
12.15															
12.20			123	48.86 41.53	123	49.70 41.40	123	93.47 79.45	123	48.86 41.53	123	89.87 76.39			
12.30			125	52.90 44.97	125	33.24 28.23	125	72.23 61.40	925	47.26 40.17	125	89.87 76.39	125	79.44 67.52	
12.70			127	10.36 34.31			127	160.25 136.21	127	37.07 31.51	127	94.65 80.45			
12.80								128	76.09 64.68			128	94.65 80.45		
13.00			130	52.90 44.97	130	33.48 28.46	130	77.64 65.99	130	50.41 42.85	130	104.40 88.74	130	86.40 73.44	
13.10									131	68.77 54.20					
13.30									133	69.77 54.20					
13.50			135	52.90 44.97	135	36.50 31.10	135	116.25 98.81	135	69.77 54.20	135	135.30 115.08	135	88.88 74.87	
14.00			140	56.24 47.78	140	38.38 32.62	140	116.25 98.81	140	61.45 51.98	140	135.30 115.08	140	91.58 77.84	
14.50								145	148.88 126.55			145	173.22 147.24		
15.00								150	140.20 119.17			150	162.72 138.31		
15.50								155	154.63 128.89			155	176.35 149.90		
15.75															
16.00	160	36.33 30.88	160	52.23 44.40	160	52.23 44.40	160	146.48 124.51	160	227.09 193.03	160	170.27 144.73			
16.50								165	76.00 65.37	165	263.07 224.37	165	263.07 224.37		
17.00								170	75.85 64.47	170	227.09 193.03	170	263.07 224.37		
17.50								175	70.94 60.30	175	227.09 193.				



SOLID CARBIDE DRILLING



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



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

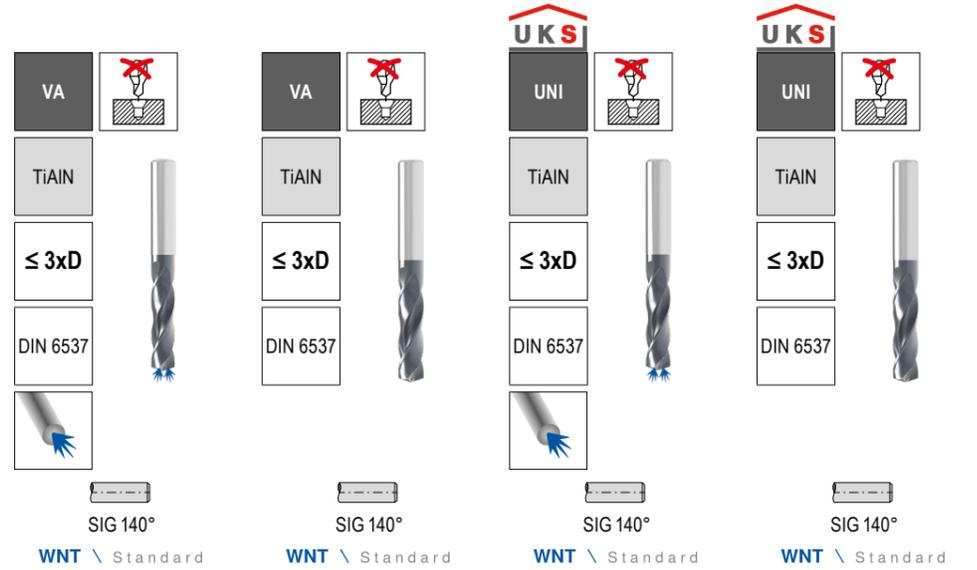
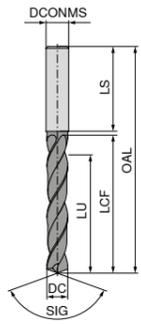


TB – for all materials and applications from 16xD up to 50xD.



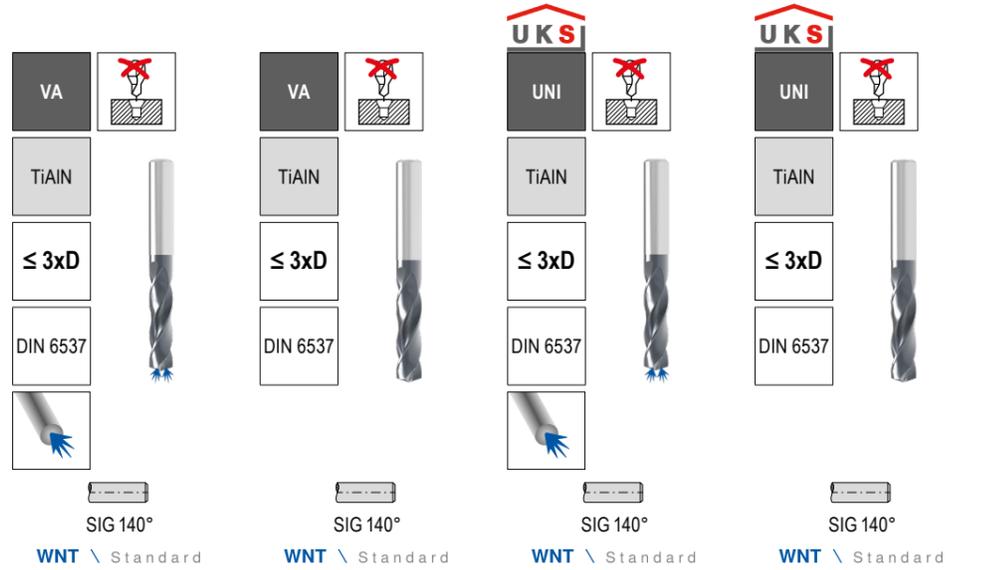
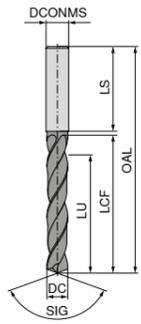
WTX Change – good solution for lathes with mis-alignment and lower powered machines. Cost effective solution in larger diameters above $\text{Ø } 20 \text{ mm}$ in 0.1 mm increments.

High Performance Drill, DIN 6537



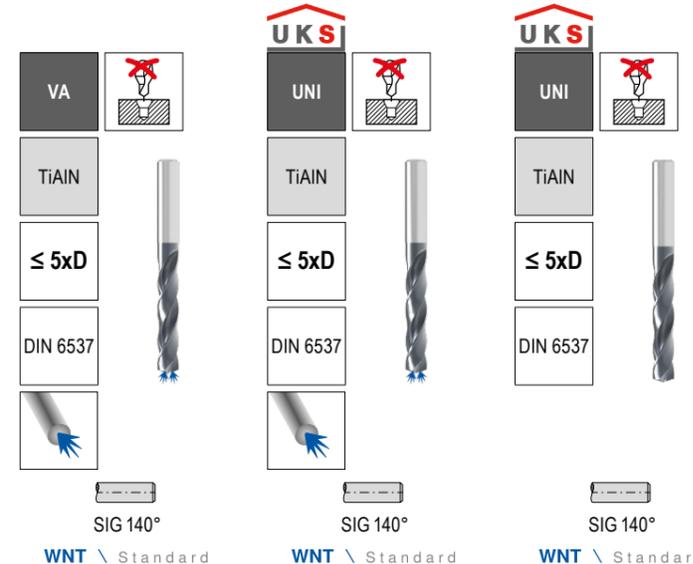
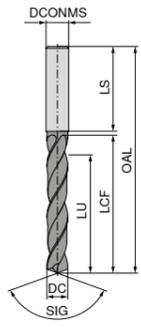
DC _{h7/m7}	DCONMS _{h6}	OAL	LCF	LU	LS	11 713 ...	PG T1/9C	11 711 ...	PG T1/9C	11 700 ...	PG T1/9C	11 706 ...	PG T1/9C
mm	mm	mm	mm	mm	mm	£	£	£	£	£	£	£	£
1.00	4	45	7	5.5	28	01000	36.04 36.00	01000	31.84 31.00	01000	31.45 31.00	01000	27.81 27.00
1.10	4	45	7	5.3	28	01100	36.04 36.00	01100	31.84 31.00	01100	31.45 31.00	01100	27.81 27.00
1.20	4	45	7	5.2	28	01200	36.04 36.00	01200	31.84 31.00	01200	31.45 31.00	01200	27.81 27.00
1.30	4	45	7	5.0	28	01300	36.04 36.00	01300	31.84 31.00	01300	31.45 31.00	01300	27.81 27.00
1.40	4	45	7	4.9	28	01400	36.04 36.00	01400	31.84 31.00	01400	31.45 31.00	01400	27.81 27.00
1.50	4	55	14	11.7	28	01500	36.04 36.00	01500	31.84 31.00	01500	31.45 31.00	01500	27.81 27.00
1.60	4	55	14	11.6	28	01600	36.04 36.00	01600	31.84 31.00	01600	31.45 31.00	01600	27.81 27.00
1.70	4	55	14	11.4	28	01700	36.04 36.00	01700	31.84 31.00	01700	31.45 31.00	01700	27.81 27.00
1.80	4	55	14	11.3	28	01800	36.04 36.00	01800	31.84 31.00	01800	31.45 31.00	01800	27.81 27.00
1.90	4	55	14	11.1	28	01900	36.04 36.00	01900	31.84 31.00	01900	31.45 31.00	01900	27.81 27.00
2.00	4	55	20	17.0	28	02000	36.04 36.00	02000	29.01 29.00	02000	31.45 31.00	02000	25.40 25.00
2.10	4	55	20	16.8	28	02100	36.04 36.00	02100	29.01 29.00	02100	31.45 31.00	02100	25.40 25.00
2.20	4	55	20	16.7	28	02200	36.04 36.00	02200	29.01 29.00	02200	31.45 31.00	02200	25.40 25.00
2.30	4	55	20	16.5	28	02300	36.04 36.00	02300	29.01 29.00	02300	31.45 31.00	02300	25.40 25.00
2.40	4	55	20	16.4	28	02400	36.04 36.00	02400	29.01 29.00	02400	31.45 31.00	02400	25.40 25.00
2.50	4	55	20	16.2	28	02500	36.04 36.00	02500	29.01 29.00	02500	31.45 31.00	02500	25.40 25.00
2.60	4	55	20	16.1	28	02600	36.04 36.00	02600	29.01 29.00	02600	31.45 31.00	02600	25.40 25.00
2.70	4	55	20	15.9	28	02700	36.04 36.00	02700	29.01 29.00	02700	31.45 31.00	02700	25.40 25.00
2.80	4	55	20	15.8	28	02800	36.04 36.00	02800	29.01 29.00	02800	31.45 31.00	02800	25.40 25.00
2.90	4	55	20	15.6	28	02900	36.04 36.00	02900	29.01 29.00	02900	31.45 31.00	02900	25.40 25.00
3.00	6	62	20	15.5	36	03000	32.12 32.00	03000	28.12 28.00	03000	26.60 26.00	03000	24.10 24.00
3.10	6	62	20	15.3	36	03100	32.12 32.00	03100	28.12 28.00	03100	26.60 26.00	03100	24.10 24.00
3.20	6	62	20	15.2	36	03200	32.12 32.00	03200	28.12 28.00	03200	26.60 26.00	03200	24.10 24.00
3.25	6	62	20	15.1	36			03250	26.60 26.00	03250	26.60 26.00	03250	24.10 24.00
3.30	6	62	20	15.0	36	03300	32.12 32.00	03300	28.12 28.00	03300	26.60 26.00	03300	24.10 24.00
3.40	6	62	20	14.9	36	03400	32.12 32.00	03400	28.12 28.00	03400	26.60 26.00	03400	24.10 24.00
3.50	6	62	20	14.7	36	03500	32.12 32.00	03500	28.12 28.00	03500	26.60 26.00	03500	24.10 24.00
3.60	6	62	20	14.6	36	03600	32.12 32.00	03600	28.12 28.00	03600	26.60 26.00	03600	24.10 24.00
3.70	6	62	20	14.4	36	03700	32.12 32.00	03700	28.12 28.00	03700	26.60 26.00	03700	24.10 24.00
3.80	6	66	24	18.3	36	03800	32.12 32.00	03800	28.12 28.00	03800	26.60 26.00	03800	24.10 24.00
3.90	6	66	24	18.1	36	03900	32.12 32.00	03900	28.12 28.00	03900	26.60 26.00	03900	24.10 24.00
4.00	6	66	24	18.0	36	04000	32.12 32.00	04000	28.12 28.00	04000	26.60 26.00	04000	24.10 24.00
4.10	6	66	24	17.8	36	04100	32.12 32.00	04100	28.12 28.00	04100	26.60 26.00	04100	24.10 24.00
4.20	6	66	24	17.7	36	04200	32.12 32.00	04200	28.12 28.00	04200	26.60 26.00	04200	24.10 24.00
4.30	6	66	24	17.5	36	04300	32.12 32.00	04300	28.12 28.00	04300	26.60 26.00	04300	24.10 24.00
4.40	6	66	24	17.4	36	04400	32.12 32.00	04400	28.12 28.00	04400	26.60 26.00	04400	24.10 24.00
4.50	6	66	24	17.2	36	04500	32.12 32.00	04500	28.12 28.00	04500	26.60 26.00	04500	24.10 24.00
4.60	6	66	24	17.1	36	04600	32.12 32.00	04600	28.12 28.00	04600	26.60 26.00	04600	24.10 24.00
4.65	6	66	24	17.0	36			04650	26.60 26.00	04650	26.60 26.00	04650	24.10 24.00
4.70	6	66	24	16.9	36	04700	32.12 32.00	04700	28.12 28.00	04700	26.60 26.00	04700	24.10 24.00
4.80	6	66	28	20.8	36	04800	32.12 32.00	04800	28.12 28.00	04800	26.60 26.00	04800	24.10 24.00
4.90	6	66	28	20.6	36	04900	32.12 32.00	04900	28.12 28.00	04900	26.60 26.00	04900	24.10 24.00
5.00	6	66	28	20.5	36	05000	32.12 32.00	05000	28.12 28.00	05000	26.60 26.00	05000	24.10 24.00
5.10	6	66	28	20.3	36	05100	32.12 32.00	05100	28.12 28.00	05100	26.60 26.00	05100	24.10 24.00
5.20	6	66	28	20.2	36	05200	32.12 32.00	05200	28.12 28.00	05200	26.60 26.00	05200	24.10 24.00
5.30	6	66	28	20.0	36	05300	32.12 32.00	05300	28.12 28.00	05300	26.60 26.00	05300	24.10 24.00
5.40	6	66	28	19.9	36	05400	32.12 32.00	05400	28.12 28.00	05400	26.60 26.00	05400	24.10 24.00
5.50	6	66	28	19.7	36	05500	32.12 32.00	05500	28.12 28.00	05500	26.60 26.00	05500	24.10 24.00
5.55	6	66	28	19.6	36			05550	26.60 26.00	05550	26.60 26.00	05550	24.10 24.00
5.60	6	66	28	19.6	36	05600	32.12 32.00	05600	28.12 28.00	05600	26.60 26.00	05600	24.10 24.00
5.65	6	66	28	19.5	36			05650	26.60 26.00	05650	26.60 26.00	05650	24.10 24.00
5.70	6	66	28	19.4	36	05700	32.12 32.00	05700	28.12 28.00	05700	26.60 26.00	05700	24.10 24.00
5.80	6	66	28	19.3	36	05800	32.12 32.00	05800	28.12 28.00	05800	26.60 26.00	05800	24.10 24.00
5.90	6	66	28	19.1	36	05900	32.12 32.00	05900	28.12 28.00	05900	26.60 26.00	05900	24.10 24.00
6.00	6	66	28	19.0	36	06000	32.12 32.00	06000	28.12 28.00	06000	26.60 26.00	06000	24.10 24.00
6.10	8	79	34	24.8	36	06100	43.88 43.00	06100	28.22 28.00	06100	37.49 37.00	06100	24.19 24.00
6.20	8	79	34	24.7	36	06200	43.88 43.00	06200	28.22 28.00	06200	37.49 37.00	06200	24.19 24.00
6.30	8	79	34	24.5	36	06300	43.88 43.00	06300	28.22 28.00	06300	37.49 37.00	06300	24.19 24.00
6.40	8	79	34	24.4	36	06400	43.88 43.00	06400	28.22 28.00	06400	37.49 37.00	06400	24.19 24.00
6.50	8	79	34	24.2	36	06500	43.88 43.00	06500	28.22 28.00	06500	37.49 37.00	06500	24.19 24.00
6.60	8	79	34	24.1	36	06600	43.88 43.00	06600	28.22 28.00	06600	37.49 37.00	06600	24.19 24.00
6.70	8	79	34	23.9	36	06700	43.88 43.00	06700	28.22 28.00	06700	37.49 37.00	06700	24.19 24.00
6.80	8	79	34	23.8	36	06800	43.88 43.00	06800	28.22 28.00	06800	37.49 37.00	06800	24.19 24.00
6.90	8	79	34	23.6	36	06900	43.88 43.00	06900	28.22 28.00	06900	37.49 37.00	06900	24.19 24.00
7.00	8	79	34	23.5	36	07000	43.88 43.00	07000	28.22 28.00	07000	37.49 37.00	07000	24.19 24.00
7.10	8	79	41	30.3	36	07100	43.88 43.00	07100	28.22 28.00	07100	37.49 37.00	07100	24.19 24.00
7.20	8	79	41	30.2	36	07200	43.88 43.00	07200	28.22 28.00	07200	37.49 37.00	07200	24.19 24.00
7.30	8	79	41	30.0	36	07300	43.88 43.00	07300	28.22 28.00	07300	37.49 37.00	07300	24.19 24.00
7.40	8	79	41	29.9	36								

High Performance Drill, DIN 6537



DC _{h7/m7} mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm	LS mm	11 713 ... PG T1/9C		11 711 ... PG T1/9C		11 700 ... PG T1/9C		11 706 ... PG T1/9C					
						£	£	£	£	£	£	£	£				
7.8	8	79	41	29.3	36	07800	43.88	43.00	07800	28.22	28.00	07800	37.40	37.00	07800	24.10	24.00
7.9	8	79	41	29.1	36	07900	43.88	43.00	07900	28.22	28.00	07900	37.40	37.00	07900	24.10	24.00
8.0	8	79	41	29.0	36	08000	43.88	43.00	08000	28.22	28.00	08000	37.40	37.00	08000	24.10	24.00
8.1	10	89	47	34.8	40	08100	49.73	49.00	08100	31.58	31.00	08100	42.33	42.00	08100	27.84	27.00
8.2	10	89	47	34.7	40	08200	49.73	49.00	08200	31.58	31.00	08200	42.33	42.00	08200	27.84	27.00
8.3	10	89	47	34.5	40	08300	49.73	49.00	08300	31.58	31.00	08300	42.33	42.00	08300	27.84	27.00
8.4	10	89	47	34.4	40	08400	49.73	49.00	08400	31.58	31.00	08400	42.33	42.00	08400	27.84	27.00
8.5	10	89	47	34.2	40	08500	49.73	49.00	08500	31.58	31.00	08500	42.33	42.00	08500	27.84	27.00
8.6	10	89	47	34.1	40	08600	49.73	49.00	08600	31.58	31.00	08600	42.33	42.00	08600	27.84	27.00
8.7	10	89	47	33.9	40	08700	49.73	49.00	08700	31.58	31.00	08700	42.33	42.00	08700	27.84	27.00
8.8	10	89	47	33.8	40	08800	49.73	49.00	08800	31.58	31.00	08800	42.33	42.00	08800	27.84	27.00
8.9	10	89	47	33.6	40	08900	49.73	49.00	08900	31.58	31.00	08900	42.33	42.00	08900	27.84	27.00
9.0	10	89	47	33.5	40	09000	49.73	49.00	09000	31.58	31.00	09000	42.33	42.00	09000	27.84	27.00
9.1	10	89	47	33.3	40	09100	49.73	49.00	09100	31.58	31.00	09100	42.33	42.00	09100	27.84	27.00
9.2	10	89	47	33.2	40	09200	49.73	49.00	09200	31.58	31.00	09200	42.33	42.00	09200	27.84	27.00
9.3	10	89	47	33.0	40	09300	49.73	49.00	09300	31.58	31.00	09300	42.33	42.00	09300	27.84	27.00
9.4	10	89	47	32.9	40	09400	49.73	49.00	09400	31.58	31.00	09400	42.33	42.00	09400	27.84	27.00
9.5	10	89	47	32.7	40	09500	49.73	49.00	09500	31.58	31.00	09500	42.33	42.00	09500	27.84	27.00
9.6	10	89	47	32.6	40	09600	49.73	49.00	09600	31.58	31.00	09600	42.33	42.00	09600	27.84	27.00
9.7	10	89	47	32.4	40	09700	49.73	49.00	09700	31.58	31.00	09700	42.33	42.00	09700	27.84	27.00
9.8	10	89	47	32.3	40	09800	49.73	49.00	09800	31.58	31.00	09800	42.33	42.00	09800	27.84	27.00
9.9	10	89	47	32.1	40	09900	49.73	49.00	09900	31.58	31.00	09900	42.33	42.00	09900	27.84	27.00
10.0	10	89	47	32.0	40	10000	49.73	49.00	10000	31.58	31.00	10000	42.33	42.00	10000	27.84	27.00
10.1	12	102	55	39.8	45	10100	71.66	71.00	10100	47.64	47.00	10100	60.47	60.00	10100	42.33	42.00
10.2	12	102	55	39.7	45	10200	71.66	71.00	10200	47.64	47.00	10200	60.47	60.00	10200	42.33	42.00
10.3	12	102	55	39.5	45	10300	71.66	71.00	10300	47.64	47.00	10300	60.47	60.00	10300	42.33	42.00
10.4	12	102	55	39.4	45	10400	71.66	71.00	10400	47.64	47.00	10400	60.47	60.00	10400	42.33	42.00
10.5	12	102	55	39.2	45	10500	71.66	71.00	10500	47.64	47.00	10500	60.47	60.00	10500	42.33	42.00
10.6	12	102	55	39.1	45	10600	71.66	71.00	10600	47.64	47.00	10600	60.47	60.00	10600	42.33	42.00
10.7	12	102	55	38.9	45	10700	71.66	71.00	10700	47.64	47.00	10700	60.47	60.00	10700	42.33	42.00
10.8	12	102	55	38.8	45	10800	71.66	71.00	10800	47.64	47.00	10800	60.47	60.00	10800	42.33	42.00
10.9	12	102	55	38.6	45	10900	71.66	71.00	10900	47.64	47.00	10900	60.47	60.00	10900	42.33	42.00
11.0	12	102	55	38.5	45	11000	71.66	71.00	11000	47.64	47.00	11000	60.47	60.00	11000	42.33	42.00
11.1	12	102	55	38.3	45	11100	71.66	71.00	11100	47.64	47.00	11100	60.47	60.00	11100	42.33	42.00
11.2	12	102	55	38.2	45	11200	71.66	71.00	11200	47.64	47.00	11200	60.47	60.00	11200	42.33	42.00
11.3	12	102	55	38.0	45	11300	71.66	71.00	11300	47.64	47.00	11300	60.47	60.00	11300	42.33	42.00
11.4	12	102	55	37.9	45	11400	71.66	71.00	11400	47.64	47.00	11400	60.47	60.00	11400	42.33	42.00
11.5	12	102	55	37.7	45	11500	71.66	71.00	11500	47.64	47.00	11500	60.47	60.00	11500	42.33	42.00
11.6	12	102	55	37.6	45	11600	71.66	71.00	11600	47.64	47.00	11600	60.47	60.00	11600	42.33	42.00
11.7	12	102	55	37.4	45	11700	71.66	71.00	11700	47.64	47.00	11700	60.47	60.00	11700	42.33	42.00
11.8	12	102	55	37.3	45	11800	71.66	71.00	11800	47.64	47.00	11800	60.47	60.00	11800	42.33	42.00
11.9	12	102	55	37.1	45	11900	71.66	71.00	11900	47.64	47.00	11900	60.47	60.00	11900	42.33	42.00
12.0	12	102	55	37.0	45	12000	71.66	71.00	12000	47.64	47.00	12000	60.47	60.00	12000	42.33	42.00
12.2	14	107	60	41.7	45	12200	96.04	96.00	12200	63.82	63.00	12200	81.03	81.00	12200	56.84	56.00
12.3	14	107	60	41.5	45	12300	96.04	96.00	12300	63.82	63.00	12300	81.03	81.00	12300	56.84	56.00
12.5	14	107	60	41.2	45	12500	96.04	96.00	12500	63.82	63.00	12500	81.03	81.00	12500	56.84	56.00
12.7	14	107	60	40.9	45	12700	96.04	96.00	12700	63.82	63.00	12700	81.03	81.00	12700	56.84	56.00
12.8	14	107	60	40.8	45	12800	96.04	96.00	12800	63.82	63.00	12800	81.03	81.00	12800	56.84	56.00
12.9	14	107	60	40.6	45	12900	96.04	96.00	12900	63.82	63.00	12900	81.03	81.00	12900	56.84	56.00
13.0	14	107	60	40.5	45	13000	96.04	96.00	13000	63.82	63.00	13000	81.03	81.00	13000	56.84	56.00
13.1	14	107	60	40.3	45	13100	96.04	96.00	13100	63.82	63.00	13100	81.03	81.00	13100	56.84	56.00
13.5	14	107	60	39.7	45	13500	96.04	96.00	13500	63.82	63.00	13500	81.03	81.00	13500	56.84	56.00
13.7	14	107	60	39.4	45	13700	96.04	96.00	13700	63.82	63.00	13700	81.03	81.00	13700	56.84	56.00
13.8	14	107	60	39.3	45	13800	96.04	96.00	13800	63.82	63.00	13800	81.03	81.00	13800	56.84	56.00
14.0	14	107	60	39.0	45	14000	96.04	96.00	14000	63.82	63.00	14000	81.03	81.00	14000	56.84	56.00
14.2	16	115	65	43.7	48	14200	123.08	123.00	14200	82.05	82.00	14200	105.00	105.00	14200	72.57	72.00
14.4	16	115	65	43.4	48	14400	123.08	123.00	14400	82.05	82.00	14400	105.00	105.00	14400	72.57	72.00
14.5	16	115	65	43.2	48	14500	123.08	123.00	14500	82.05	82.00	14500	105.00	105.00	14500	72.57	72.00
14.7	16	115	65	42.9	48	14700	123.08	123.00	14700	82.05	82.00	14700	105.00	105.00	14700	72.57	72.00
14.8	16	115	65	42.8	48	14800	123.08	123.00	14800	82.05	82.00	14800	105.00	105.00	14800	72.57	72.00
15.0	16	115	65	42.5	48	15000	123.08	123.00	15000	82.05	82.00	15000	105.00	105.00	15000	72.57	72.00
15.1	16	115	65	42.3	48	15100	123.08	123.00	15100	82.05	82.00	15100	105.00	105.00	15100	72.57	72.00
15.2	16	115	65	42.2	48	15200	123.08	123.00	15200	82.05	82.00	15200	105.00	105.00	15200	72.57	72.00
15.5	16	115	65	41.7	48	15500	123.08	123.00	15500	82.05	82.00	15500	105.00	105.00	15500	72.57	72.00
15.7	16	115	65	41.4	48	15700	123.08	123.00	15700	82.05	82.00	15700	105.00	105.00	15700	72.57	72.00
15.8	16	115	65	41.3	48	15800	123.08	123.00	15800	82.05	82.00	15800	105.00	105.00	15800	72.57	72.00
16.0	16	115	65	41.0	48	16000	123.08	123.00	16000	82.05	82.00	16000	105.00	105.00	16000	72.57	72.00
16.5	18	123	73	48.2	48	16500	188.10	188.00	16500	140.61	140.00	16500	158.00	158.00	16500	124.57	124.00
17.0	18	123	73	47.5	48	17000	188.10	188.00	1700								

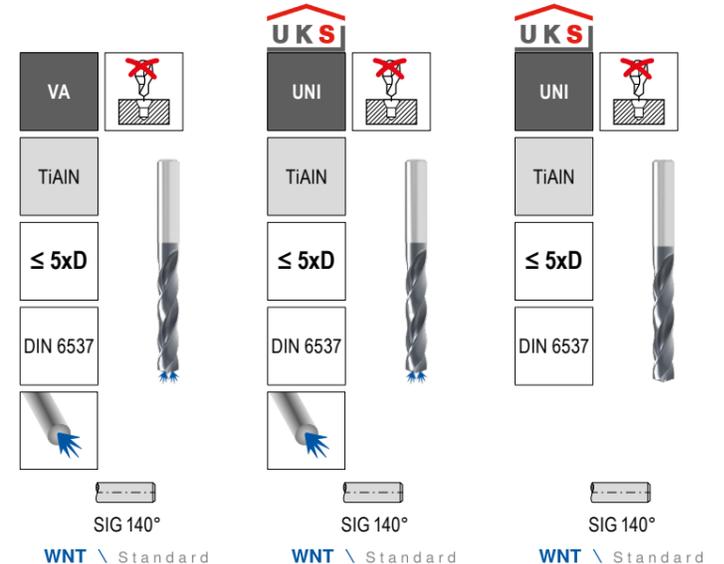
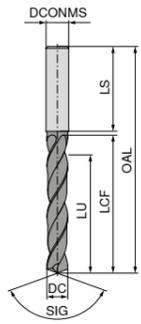
High Performance Drill, DIN 6537



DC	DCONMS	OAL	LCF	LU	LS
h7/m7	h6				
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	43.04	43.00	01000	36.28	36.00			
01100	43.04	43.00	01100	36.28	36.00			
01200	43.04	43.00	01200	36.28	36.00			
01300	43.04	43.00	01300	36.28	36.00			
01400	43.04	43.00	01400	36.28	36.00			
01500	43.04	43.00	01500	36.28	36.00			
01600	43.04	43.00	01600	36.28	36.00			
01700	43.04	43.00	01700	36.28	36.00			
01800	43.04	43.00	01800	36.28	36.00			
01900	43.04	43.00	01900	36.28	36.00			
02000	43.04	43.00	02000	36.28	36.00			
02100	43.04	43.00	02100	36.28	36.00			
02200	43.04	43.00	02200	36.28	36.00			
02300	43.04	43.00	02300	36.28	36.00			
02400	43.04	43.00	02400	36.28	36.00			
02500	43.04	43.00	02500	36.28	36.00			
02600	43.04	43.00	02600	36.28	36.00			
02700	43.04	43.00	02700	36.28	36.00			
02800	43.04	43.00	02800	36.28	36.00			
02900	43.04	43.00	02900	36.28	36.00			
03000	42.34	42.00	03000	36.28	36.00	03000	30.24	30.00
03100	42.34	42.00	03100	36.28	36.00	03100	30.24	30.00
03200	42.34	42.00	03200	36.28	36.00	03200	30.24	30.00
03300	42.34	42.00	03300	36.28	36.00	03300	30.24	30.00
03400	42.34	42.00	03400	36.28	36.00	03400	30.24	30.00
03500	42.34	42.00	03500	36.28	36.00	03500	30.24	30.00
03600	42.34	42.00	03600	36.28	36.00	03600	30.24	30.00
03700	42.34	42.00	03700	36.28	36.00	03700	30.24	30.00
03800	42.34	42.00	03800	36.28	36.00	03800	30.24	30.00
03900	42.34	42.00	03900	36.28	36.00	03900	30.24	30.00
04000	42.34	42.00	04000	36.28	36.00	04000	30.24	30.00
04100	42.34	42.00	04100	36.28	36.00	04100	30.24	30.00
04200	42.34	42.00	04200	36.28	36.00	04200	30.24	30.00
04300	42.34	42.00	04300	36.28	36.00	04300	30.24	30.00
04400	42.34	42.00	04400	36.28	36.00	04400	30.24	30.00
04500	42.34	42.00	04500	36.28	36.00	04500	30.24	30.00
04600	42.34	42.00	04600	36.28	36.00	04600	30.24	30.00
04700	42.34	42.00	04700	36.28	36.00	04700	30.24	30.00
04800	42.34	42.00	04800	36.28	36.00	04800	30.24	30.00
04900	42.34	42.00	04900	36.28	36.00	04900	30.24	30.00
05000	42.34	42.00	05000	36.28	36.00	05000	30.24	30.00
05100	42.34	42.00	05100	36.28	36.00	05100	30.24	30.00
05200	42.34	42.00	05200	36.28	36.00	05200	30.24	30.00
05300	42.34	42.00	05300	36.28	36.00	05300	30.24	30.00
05400	42.34	42.00	05400	36.28	36.00	05400	30.24	30.00
05500	42.34	42.00	05500	36.28	36.00	05500	30.24	30.00
05600	42.34	42.00	05600	36.28	36.00	05600	30.24	30.00
05700	42.34	42.00	05700	36.28	36.00	05700	30.24	30.00
05800	42.34	42.00	05800	36.28	36.00	05800	30.24	30.00
05900	42.34	42.00	05900	36.28	36.00	05900	30.24	30.00
06000	42.34	42.00	06000	36.28	36.00	06000	30.24	30.00
06100	48.65	48.00	06100	41.12	41.00	06100	30.24	30.00
06200	48.65	48.00	06200	41.12	41.00	06200	30.24	30.00
06300	48.65	48.00	06300	41.12	41.00	06300	30.24	30.00
06400	48.65	48.00	06400	41.12	41.00	06400	30.24	30.00
06500	48.65	48.00	06500	41.12	41.00	06500	30.24	30.00
06600	48.65	48.00	06600	41.12	41.00	06600	30.24	30.00
06700	48.65	48.00	06700	41.12	41.00	06700	30.24	30.00
06800	48.65	48.00	06800	41.12	41.00	06800	30.24	30.00
06900	48.65	48.00	06900	41.12	41.00	06900	30.24	30.00
07000	48.65	48.00	07000	41.12	41.00	07000	30.24	30.00
07100	48.65	48.00	07100	41.12	41.00	07100	30.24	30.00
07200	48.65	48.00	07200	41.12	41.00	07200	30.24	30.00
07300	48.65	48.00	07300	41.12	41.00	07300	30.24	30.00
07400	48.65	48.00	07400	41.12	41.00	07400	30.24	30.00
07450	48.65	48.00						
07500	48.65	48.00	07500	41.12	41.00	07500	30.24	30.00
07550	48.65	48.00	07550	41.12	41.00	07550	30.24	30.00
07600	48.65	48.00	07600	41.12	41.00	07600	30.24	30.00
07650	48.65	48.00	07650	41.12	41.00	07650	30.24	30.00
07700	48.65	48.00	07700	41.12	41.00	07700	30.24	30.00
07800	48.65	48.00	07800	41.12	41.00	07800	30.24	30.00
07900	48.65	48.00	07900	41.12	41.00	07900	30.24	30.00
08000	48.65	48.00	08000	41.12	41.00	08000	30.24	30.00
08100	55.62	55.00	08100	47.17	47.00	08100	32.65	32.00
08200	55.62	55.00	08200	<				

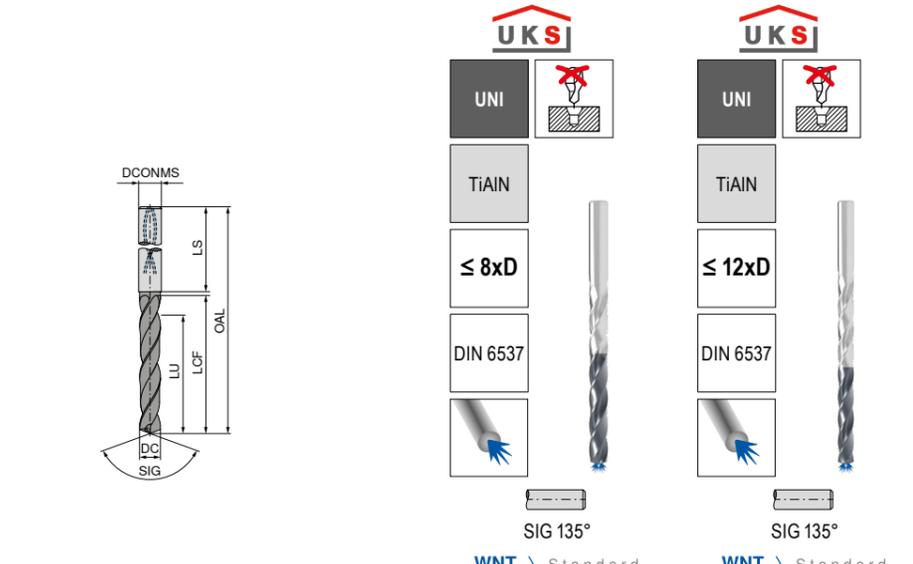
High Performance Drill, DIN 6537



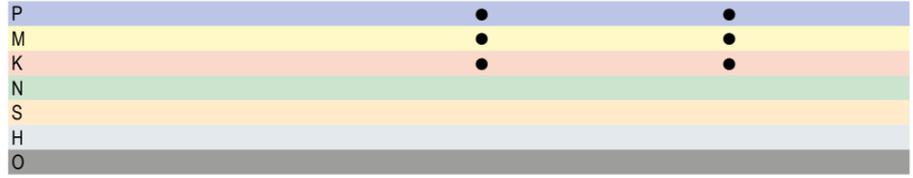
DC _{h7/m7}	DCONMS _{h6}	OAL	LCF	LU	LS
mm	mm	mm	mm	mm	mm
8.40	10	103	61	48.4	40
8.50	10	103	61	48.2	40
8.60	10	103	61	48.1	40
8.70	10	103	61	47.9	40
8.80	10	103	61	47.8	40
8.90	10	103	61	47.6	40
9.00	10	103	61	47.5	40
9.10	10	103	61	47.3	40
9.20	10	103	61	47.2	40
9.30	10	103	61	47.0	40
9.40	10	103	61	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	55.62 55.00	08400	47.17 47.00	08400	32.65 32.00
08500	55.62 55.00	08500	47.17 47.00	08500	32.65 32.00
08600	55.62 55.00	08600	47.17 47.00	08600	32.65 32.00
08700	55.62 55.00	08700	47.17 47.00	08700	32.65 32.00
08800	55.62 55.00	08800	47.17 47.00	08800	32.65 32.00
08900	55.62 55.00	08900	47.17 47.00	08900	32.65 32.00
09000	55.62 55.00	09000	47.17 47.00	09000	32.65 32.00
09100	55.62 55.00	09100	47.17 47.00	09100	32.65 32.00
09200	55.62 55.00	09200	47.17 47.00	09200	32.65 32.00
09300	55.62 55.00	09300	47.17 47.00	09300	32.65 32.00
09400	55.62 55.00	09400	47.17 47.00	09400	32.65 32.00
09500	55.62 55.00	09500	47.17 47.00	09500	32.65 32.00
09550		09550	47.17 47.00		
09600	55.62 55.00	09600	47.17 47.00	09600	32.65 32.00
09700	55.62 55.00	09700	47.17 47.00	09700	32.65 32.00
09800	55.62 55.00	09800	47.17 47.00	09800	32.65 32.00
09900	55.62 55.00	09900	47.17 47.00	09900	32.65 32.00
10000	55.62 55.00	10000	47.17 47.00	10000	32.65 32.00
10100	82.76 82.00	10100	70.14 70.00	10100	49.59 49.00
10200	82.76 82.00	10200	70.14 70.00	10200	49.59 49.00
10300	82.76 82.00	10300	70.14 70.00	10300	49.59 49.00
10400	82.76 82.00	10400	70.14 70.00	10400	49.59 49.00
10500	82.76 82.00	10500	70.14 70.00	10500	49.59 49.00
10600	82.76 82.00	10600	70.14 70.00	10600	49.59 49.00
10700	82.76 82.00	10700	70.14 70.00	10700	49.59 49.00
10800	82.76 82.00	10800	70.14 70.00	10800	49.59 49.00
10900	82.76 82.00	10900	70.14 70.00	10900	49.59 49.00
11000	82.76 82.00	11000	70.14 70.00	11000	49.59 49.00
11100	82.76 82.00	11100	70.14 70.00	11100	49.59 49.00
11200	82.76 82.00	11200	70.14 70.00	11200	49.59 49.00
11300	82.76 82.00	11300	70.14 70.00	11300	49.59 49.00
11400	82.76 82.00	11400	70.14 70.00	11400	49.59 49.00
11500	82.76 82.00	11500	70.14 70.00	11500	49.59 49.00
11600	82.76 82.00	11600	70.14 70.00	11600	49.59 49.00
11700	82.76 82.00	11700	70.14 70.00	11700	49.59 49.00
11800	82.76 82.00	11800	70.14 70.00	11800	49.59 49.00
11900	82.76 82.00	11900	70.14 70.00	11900	49.59 49.00
12000	82.76 82.00	12000	70.14 70.00	12000	49.59 49.00
12100	105.52 105.00	12100	89.50 89.00	12100	65.34 65.00
12200	105.52 105.00	12200	89.50 89.00	12200	65.34 65.00
12400	105.52 105.00	12400	89.50 89.00		
12500	105.52 105.00	12500	89.50 89.00	12500	65.34 65.00
12600	105.52 105.00	12600	89.50 89.00		
12700	105.52 105.00	12700	103.34 87.84	12700	79.23 61.40
12800	105.52 105.00	12800	89.50 89.00	12800	65.34 65.00
13000	105.52 105.00	13000	89.50 89.00	13000	65.34 65.00
13100	105.52 105.00	13100	89.50 89.00		
13200	105.52 105.00	13200	89.50 89.00	13200	65.34 65.00
13300	105.52 105.00	13300	89.50 89.00		
13500	105.52 105.00	13500	89.50 89.00	13500	65.34 65.00
13700	105.52 105.00				
13800	105.52 105.00	13800	89.50 89.00	13800	65.34 65.00
14000	105.52 105.00	14000	89.50 89.00	14000	65.34 65.00
14200	135.35 135.00	14200	114.89 114.00	14200	84.66 84.00
14300	135.35 135.00	14300	114.89 114.00		
14400	135.35 135.00	14400	114.89 114.00	14400	84.66 84.00
14500	135.35 135.00	14500	114.89 114.00	14500	84.66 84.00
14700	135.35 135.00				
14800	135.35 135.00	14800	114.89 114.00	14800	84.66 84.00
15000	135.35 135.00	15000	114.89 114.00	15000	84.66 84.00
15100	135.35 135.00	15100	114.89 114.00		
15200	135.35 135.00	15200	114.89 114.00	15200	84.66 84.00
15250		15250	114.89 114.00		
15300	135.35 135.00	15300	114.89 114.00		
15500	135.35 135.00	15500	114.89 114.00	15500	84.66 84.00
15700	135.35 135.00				
15800	135.35 135.00	15800	114.89 114.00	15800	84.66 84.00
16000	135.35 135.00	16000	114.89 114.00	16000	84.66 84.00
16200	209.32 209.00	16200	176.57 176.00		
16300	209.32 209.00	16300	176.57 176.00		
16500	209.32 209.00	16500	176.57 176.00	16500	137.88 137.00
16800	209.32 209.00	16800	176.57 176.00		
17000	209.32 209.00	17000	176.57 176.00	17000	137.88 137.00
17300	209.32 209.00	17300	176.57 176.00		
17500	209.32 209.00	17500	176.57 176.00	17500	137.88 137.00
18000	209.32 209.00	18000	176.57 176.00	18000	137.88 137.00
18500	227.70 227.00	18500	192.20 192.00	18500	147.55 147.00
18900	227.70 227.00	18900	192.20 192.00	18900	147.55 147.00
19000	227.70 227.00	19000	192.20 19		

High Performance Drill, factory standard



DC _{n7} 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
13.0	215.21	215.00	264.96	264.00
13.5	215.21	215.00	264.96	264.00
13.8	215.21	215.00	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

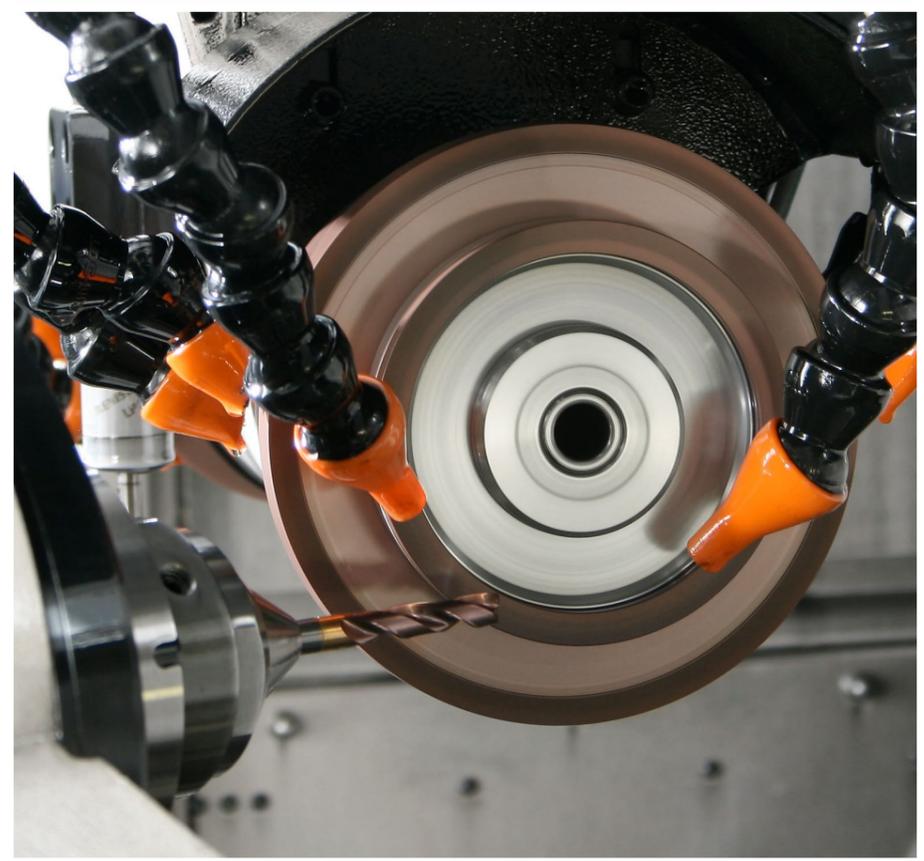


DC _{js8} mm	OAL mm	LCF mm	10 704 ...	PG T3
2	32	6	002	27.94 19.56
3	32	8	003	27.94 19.56
4	40	10	004	24.91 15.34
5	50	13	005	25.17 17.62
6	50	13	006	28.08 19.66
8	60	23	008	43.45 30.21
10	70	24	010	60.51 42.36
12	70	24	012	87.28 61.10
14	75	26	014	100.36 70.25
16	75	29	016	146.48 102.54
18	100	35	018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

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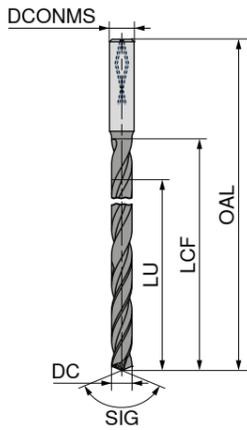


WTX – High performance deep hole drills

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



WNT \ Performance



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

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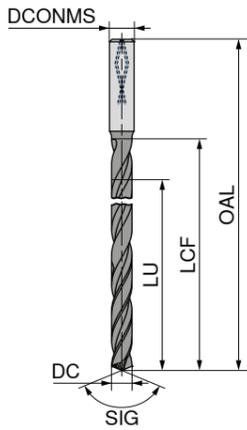
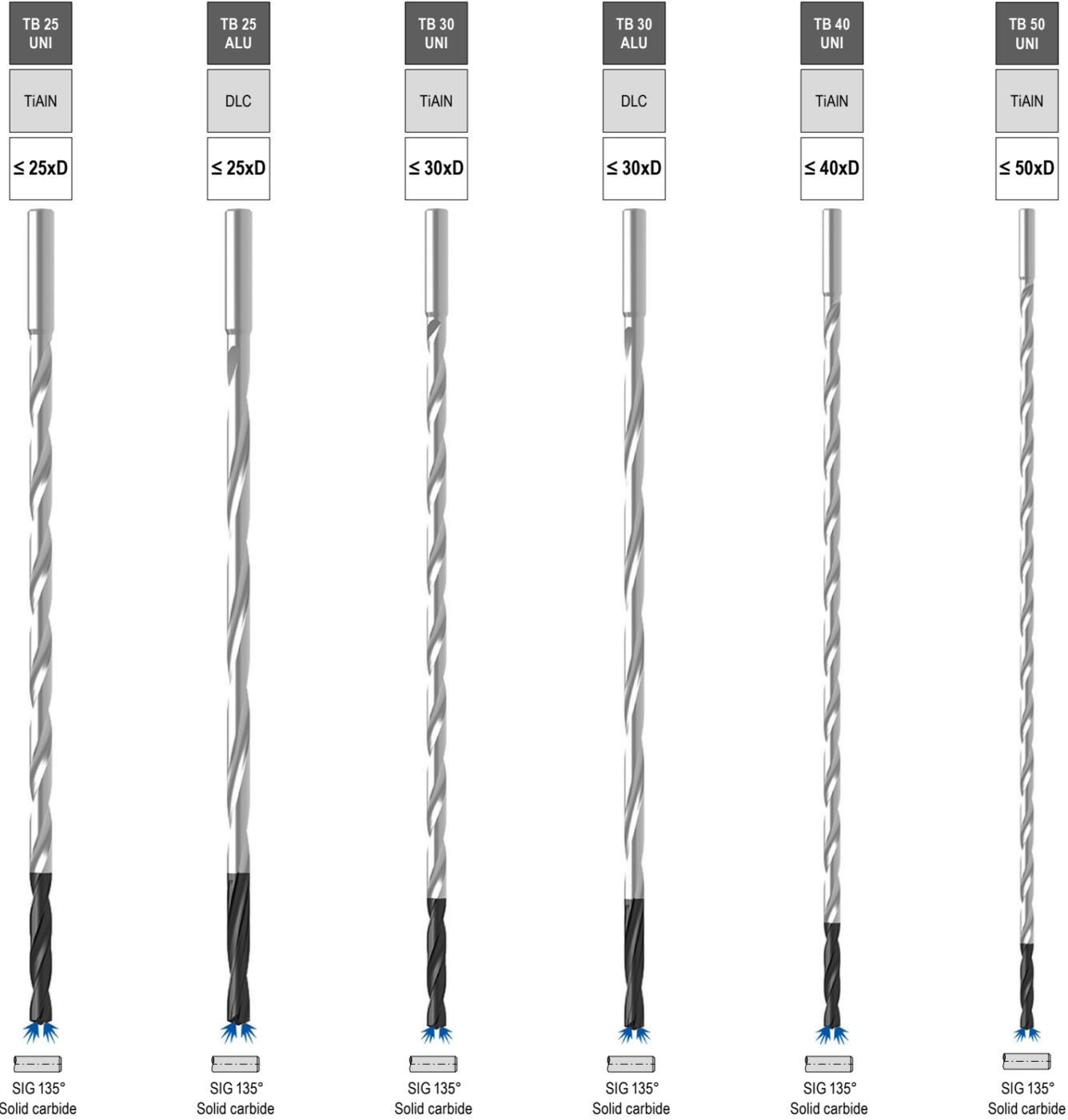


WTX – High performance deep hole drills

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



WNT \ Performance



DC fig 6/h7 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	143.65	143.00	143.65	143.00	152.55	152.00	152.55	152.00						
2.2	143.65	143.00	143.65	143.00	152.55	152.00	152.55	152.00						
2.3	143.65	143.00	143.65	143.00	152.55	152.00	152.55	152.00						
2.4	162.89	162.00	162.89	162.00	177.74	177.00	177.74	177.00						
2.5	162.89	162.00	162.89	162.00	177.74	177.00	177.74	177.00						
2.7	162.89	162.00	162.89	162.00	177.74	177.00	177.74	177.00						
2.8	162.89	162.00	162.89	162.00	177.74	177.00	177.74	177.00						
3.0	233.06	233.00	233.06	233.00	299.14	299.00	299.14	299.00	030	380.56	380.00	030	516.83	516.00
3.2	233.06	233.00	233.06	233.00	299.14	299.00	299.14	299.00						
3.3	257.68	257.00	257.68	257.00	308.03	308.00	308.03	308.00						
3.5	257.68	257.00	257.68	257.00	308.03	308.00	308.03	308.00						
3.8	266.55	266.00	266.55	266.00	308.03	308.00	308.03	308.00						
4.0	266.55	266.00	266.55	266.00	308.03	308.00	308.03	308.00	040	380.56	380.00	040	516.83	516.00
4.2	266.55	266.00	266.55	266.00	308.03	308.00	308.03	308.00	042	420.57	420.00	042	574.55	574.00
4.5	278.40	278.00	278.40	278.00	316.89	316.00	316.89	316.00	045	420.57	420.00	045	574.55	574.00
4.8	278.40	278.00	278.40	278.00	316.89	316.00	316.89	316.00	048	448.70	448.00	048	648.61	648.00
5.0	278.40	278.00	278.40	278.00	316.89	316.00	316.89	316.00	050	448.70	448.00	050	648.61	648.00
5.5	299.14	299.00	299.14	299.00	331.74	331.00	331.74	331.00	055	482.76	482.00	055	730.96	730.00
5.8	299.14	299.00	299.14	299.00	331.74	331.00	331.74	331.00	058	482.76	482.00	058	740.43	740.00
6.0	299.14	299.00	299.14	299.00	331.74	331.00	331.74	331.00	060	482.76	482.00	060	740.43	740.00
6.5	333.21	333.00	333.21	333.00	364.28	364.00	364.28	364.00	065	519.78	519.00	065	823.26	823.00
6.8	333.21	333.00	333.21	333.00	380.56	380.00	380.56	380.00	068	519.78	519.00	068	892.96	892.00
7.0	333.21	333.00	333.21	333.00	380.56	380.00	380.56	380.00	070	519.78	519.00			
7.5	370.22	370.00	370.22	370.00	380.56	380.00	380.56	380.00	075	577.53	577.00			
7.8	370.22	370.00	370.22	370.00	423.52	423.00	423.52	423.00	078	577.53	577.00			
8.0	370.22	370.00	370.22	370.00	423.52	423.00	423.52	423.00	080	577.53	577.00			
8.5	417.57	417.00	417.57	417.00	488.69	488.00	488.69	488.00	085	636.76	636.00			
8.8	453.13	453.00	453.13	453.00	513.84	513.00	513.84	513.00	088	636.76	636.00			
9.0	453.13	453.00	453.13	453.00	513.84	513.00	513.84	513.00	090	636.76	636.00			
9.8	453.13	453.00	453.13	453.00	513.84	513.00	513.84	513.00	098	636.76	636.00			
10.0	453.13	453.00	453.13	453.00	513.84	513.00	513.84	513.00	100	636.76	636.00			
10.2	544.96	544.00	544.96	544.00	556.02	556.00	556.02	556.00	102	556.02	556.00			
10.8	544.96	544.00	544.96	544.00	556.02	556.00	556.02	556.00	108	556.02	556.00			
11.8	544.96	544.00	544.96	544.00	556.02	556.00	556.02	556.00	118	556.02	556.00			
12.0	544.96	544.00	544.96	544.00	556.02	556.00	556.02	556.00	120	556.02	556.00			

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



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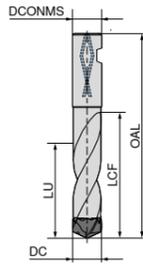
When you see this logo it's
in stock in Sheffield

WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



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

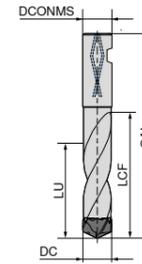
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£	£
120	298.56 173.00
125	298.56 173.00
130	298.56 173.00
135	298.56 173.00
140	298.56 173.00
145	298.56 173.00
150	298.56 173.00
161	308.47 179.00
160	308.47 179.00
166	308.47 179.00
165	308.47 179.00
176	308.47 179.00
175	308.47 179.00
185	364.56 211.00
195	364.56 211.00
205	404.44 234.00
215	404.44 234.00
225	442.41 256.00
235	442.41 256.00
245	480.02 278.00
255	480.02 278.00
265	480.02 278.00
275	480.02 278.00
285	557.55 323.00
295	557.55 323.00
305	645.29 356.00
315	645.29 356.00
325	663.43 384.00
335	663.43 384.00
345	663.43 384.00
355	763.75 442.00
375	794.94 458.00
395	844.68 470.00

WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



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

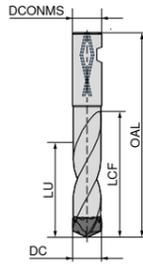
10 913 ...	PG W1
£	£
120	337.58 195.00
125	337.58 195.00
130	337.58 195.00
135	337.58 195.00
140	337.58 195.00
145	337.58 195.00
150	337.58 195.00
161	329.29 191.00
160	329.29 191.00
166	329.29 191.00
165	329.29 191.00
176	329.29 191.00
175	329.29 191.00
185	389.42 225.00
195	389.42 225.00
205	430.04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

WTX – Holder for Exchangeable drills

▲ with radial teeth



WNT \ Performance



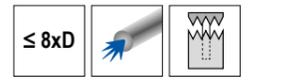
DC mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	125	78	62.0
12,50 - 12,99	14	130	81	65.0
13,00 - 13,49	14	130	84	67.0
13,50 - 13,99	16	140	88	70.0
14,00 - 14,49	16	140	90	72.0
14,50 - 14,99	16	145	94	75.0
15,00 - 15,49	16	145	96	77.0
15,50 - 16,49	20	160	103	82.0
15,50 - 16,49	18	155	103	82.0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

10 915 ...	PG W1
£	£
120	380.02 220.00
125	380.02 220.00
130	380.02 220.00
135	380.02 220.00
140	380.02 220.00
145	380.02 220.00
150	380.02 220.00
161	389.42 225.00
160	389.42 225.00
166	389.42 225.00
165	389.42 225.00
176	389.42 225.00
175	389.42 225.00
185	451.39 261.00
195	451.39 261.00
205	490.44 284.00
215	490.44 284.00
225	532.74 308.00
235	532.74 308.00
245	573.34 332.00
255	573.34 332.00
265	573.34 332.00
275	573.34 332.00
285	654.68 379.00
295	654.68 379.00
305	744.79 414.00
315	744.79 414.00
325	872.62 505.00
335	872.62 505.00
345	872.62 505.00
355	981.48 568.00
375	1,047.94 589.00
395	1,049.86 602.00

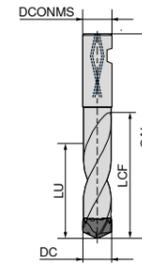
WTX – Holder for Exchangeable drills

▲ Pilot hole is recommended

▲ With radial teeth



WNT \ Performance

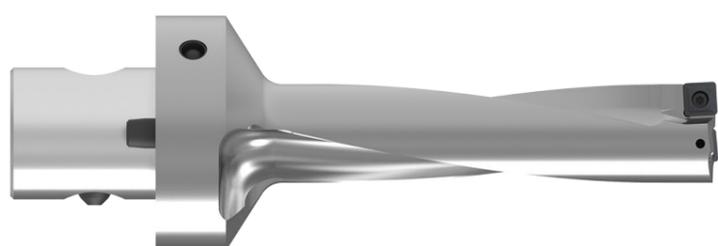


DC mm	DCONMS _{h6} mm	OAL mm	LCF mm	LU mm
12,00 - 12,49	14	165	116	100
12,50 - 12,99	14	170	121	104
13,00 - 13,49	14	175	126	108
13,50 - 13,99	16	180	129	111
14,00 - 14,49	16	185	134	115
14,50 - 14,99	16	190	139	120
15,00 - 15,49	16	195	144	124
15,50 - 16,49	20	210	152	131
15,50 - 16,49	18	205	152	131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

INDEXABLE INSERT DRILLS



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



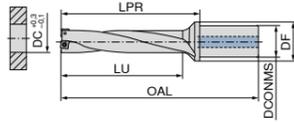
KUB Pentron – high performance problem solver with large selection of diameters and grades – see catalogue for full programme.



MaxiDrill 900 – Indexable insert drill

Scope of supply:

Indexable Insert Drill including clamping screws and key

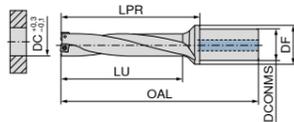


Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 852 ... PG 2B/41	
								£	£
MD900.2D.120.R.03-C20	12.0	28	20	90	24	40	SONT 031804	120	281.45 116.00
MD900.2D.125.R.03-C20	12.5	28	20	91	25	41	SONT 031804	125	281.45 116.00
MD900.2D.130.R.03-C20	13.0	28	20	92	26	42	SONT 031804	130	281.45 116.00
MD900.2D.135.R.03-C20	13.5	28	20	93	27	43	SONT 031804	135	281.45 116.00
MD900.2D.140.R.04-C20	14.0	30	20	96	28	46	SONT 042105	140	299.58 124.00
MD900.2D.145.R.04-C20	14.5	30	20	97	29	47	SONT 042105	145	299.58 124.00
MD900.2D.150.R.04-C20	15.0	30	20	98	30	48	SONT 042105	150	299.58 124.00
MD900.2D.155.R.04-C20	15.5	30	20	99	31	49	SONT 042105	155	299.58 124.00
MD900.2D.160.R.05-C20	16.0	30	20	100	32	50	SONT 052306	160	299.58 124.00
MD900.2D.165.R.05-C20	16.5	30	20	101	33	51	SONT 052306	165	299.58 124.00
MD900.2D.170.R.05-C20	17.0	30	20	102	34	52	SONT 052306	170	319.84 132.00
MD900.2D.175.R.05-C20	17.5	30	20	103	35	53	SONT 052306	175	319.84 132.00
MD900.2D.180.R.06-C25	18.0	32	25	111	36	55	SONT 062506	180	319.84 132.00
MD900.2D.185.R.06-C25	18.5	32	25	112	37	56	SONT 062506	185	319.84 132.00
MD900.2D.190.R.06-C25	19.0	32	25	113	38	57	SONT 062506	190	349.64 142.00
MD900.2D.195.R.06-C25	19.5	32	25	114	39	58	SONT 062506	195	349.64 142.00
MD900.2D.200.R.06-C25	20.0	32	25	115	40	59	SONT 062506	200	349.64 142.00
MD900.2D.205.R.06-C25	20.5	32	25	116	41	60	SONT 062506	205	349.64 142.00
MD900.2D.210.R.07-C25	21.0	32	25	118	42	62	SONT 072907	210	349.64 142.00
MD900.2D.220.R.07-C25	22.0	32	25	120	44	64	SONT 072907	220	349.64 142.00
MD900.2D.230.R.07-C25	23.0	32	25	122	46	66	SONT 072907	230	359.36 146.00
MD900.2D.240.R.08-C32	24.0	40	32	132	48	72	SONT 083308	240	359.36 146.00
MD900.2D.250.R.08-C32	25.0	40	32	134	50	74	SONT 083308	250	359.36 146.00
MD900.2D.260.R.08-C32	26.0	40	32	136	52	76	SONT 083308	260	391.92 162.00
MD900.2D.270.R.08-C32	27.0	40	32	138	54	78	SONT 083308	270	391.92 162.00
MD900.2D.280.R.09-C32	28.0	40	32	140	56	80	SONT 093808	280	391.92 162.00
MD900.2D.290.R.09-C32	29.0	40	32	142	58	82	SONT 093808	290	391.92 162.00
MD900.2D.300.R.09-C32	30.0	40	32	144	60	84	SONT 093808	300	391.92 162.00
MD900.2D.310.R.09-C32	31.0	40	32	146	62	86	SONT 093808	310	424.36 175.00
MD900.2D.320.R.09-C32	32.0	40	32	148	64	88	SONT 093808	320	424.36 175.00
MD900.2D.330.R.10-C40	33.0	50	40	163	66	93	SONT 104408	330	424.36 175.00
MD900.2D.340.R.10-C40	34.0	50	40	165	68	95	SONT 104408	340	424.36 175.00

MaxiDrill 900 – Indexable insert drill

Scope of supply:

Indexable Insert Drill including clamping screws and key



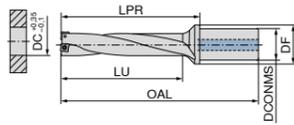
Designation	DC mm	DF mm	DCONMS mm	OAL mm	LU mm	LPR mm	Insert	10 853 ... PG 2B/41	
								£	£
MD900.3D.120.R.03-C20	12.0	28	20	102	36.0	52	SONT 031804	120	299.79 124.00
MD900.3D.125.R.03-C20	12.5	28	20	104	37.5	54	SONT 031804	125	299.79 124.00
MD900.3D.130.R.03-C20	13.0	28	20	105	39.0	55	SONT 031804	130	299.79 124.00
MD900.3D.135.R.03-C20	13.5	28	20	107	40.5	57	SONT 031804	135	299.79 124.00
MD900.3D.140.R.04-C20	14.0	30	20	109	42.0	59	SONT 042105	140	315.73 131.00
MD900.3D.145.R.04-C20	14.5	30	20	111	44.0	61	SONT 042105	145	315.73 131.00
MD900.3D.150.R.04-C20	15.0	30	20	112	45.0	62	SONT 042105	150	315.73 131.00
MD900.3D.155.R.04-C20	15.5	30	20	114	47.0	64	SONT 042105	155	329.24 134.00
MD900.3D.160.R.05-C20	16.0	30	20	115	48.0	65	SONT 052306	160	329.24 134.00
MD900.3D.165.R.05-C20	16.5	30	20	117	50.0	67	SONT 052306	165	329.24 134.00
MD900.3D.170.R.05-C20	17.0	30	20	118	51.0	68	SONT 052306	170	335.70 139.00
MD900.3D.175.R.05-C20	17.5	30	20	120	53.0	70	SONT 052306	175	335.70 139.00
MD900.3D.180.R.06-C25	18.0	32	25	128	54.0	72	SONT 062506	180	335.70 139.00
MD900.3D.185.R.06-C25	18.5	32	25	130	56.0	74	SONT 062506	185	335.70 139.00
MD900.3D.190.R.06-C25	19.0	32	25	131	57.0	75	SONT 062506	190	369.64 149.00
MD900.3D.195.R.06-C25	19.5	32	25	133	59.0	77	SONT 062506	195	369.64 149.00
MD900.3D.200.R.06-C25	20.0	32	25	134	60.0	78	SONT 062506	200	369.64 149.00
MD900.3D.205.R.06-C25	20.5	32	25	136	62.0	80	SONT 062506	205	369.64 149.00
MD900.3D.210.R.07-C25	21.0	32	25	138	63.0	82	SONT 072907	210	369.64 149.00
MD900.3D.215.R.07-C25	21.5	32	25	140	65.0	84	SONT 072907	215	369.64 149.00
MD900.3D.220.R.07-C25	22.0	32	25	141	66.0	85	SONT 072907	220	369.64 149.00
MD900.3D.225.R.07-C25	22.5	32	25	143	68.0	87	SONT 072907	225	371.94 154.00
MD900.3D.230.R.07-C25	23.0	32	25	144	69.0	88	SONT 072907	230	371.94 154.00
MD900.3D.235.R.07-C25	23.5	32	25	146	71.0	90	SONT 072907	235	371.94 154.00
MD900.3D.240.R.08-C32	24.0	40	32	155	72.0	95	SONT 083308	240	371.94 154.00
MD900.3D.245.R.08-C32	24.5	40	32	157	74.0	97	SONT 083308	245	371.94 154.00
MD900.3D.250.R.08-C32	25.0	40	32	158	75.0	98	SONT 083308	250	371.94 154.00
MD900.3D.255.R.08-C32	25.5	40	32	160	77.0	100	SONT 083308	255	371.94 154.00
MD900.3D.260.R.08-C32	26.0	40	32	161	78.0	101	SONT 083308	260	411.77 170.00
MD900.3D.265.R.08-C32	26.5	40	32	163	80.0	103	SONT 083308	265	411.77 170.00
MD900.3D.270.R.08-C32	27.0	40	32	164	81.0	104	SONT 083308	270	411.77 170.00
MD900.3D.275.R.08-C32	27.5	40	32	166	83.0	106	SONT 083308	275	411.77 170.00
MD900.3D.280.R.09-C32	28.0	40	32	167	84.0	107	SONT 093808	280	411.77 170.00
MD900.3D.285.R.09-C32	28.5	40	32	169	86.0	109	SONT 093808	285	411.77 170.00
MD900.3D.290.R.09-C32	29.0	40	32	170	87.0	110	SONT 093808	290	411.77 170.00
MD900.3D.295.R.09-C32	29.5	40	32	172	89.0	112	SONT 093808	295	411.77 170.00
MD900.3D.300.R.09-C32	30.0	40	32	173	90.0	113	SONT 093808	300	411.77 170.00
MD900.3D.305.R.09-C32	30.5	40	32	175	92.0	115	SONT 093808	305	411.77 170.00

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	439.95 179.00
MD900.2D.360.R.10-C40	36.0	50	40	169	72	99	SONT 104408	360	439.95 179.00
MD900.2D.370.R.12-C40	37.0	56	40	174	74	104	SONT 124810	370	448.93 185.00
MD900.2D.380.R.12-C40	38.0	56	40	176	76	106	SONT 124810	380	448.93 185.00
MD900.2D.390.R.12-C40	39.0	56	40	178	78	108	SONT 124810	390	448.93 185.00
MD900.2D.400.R.12-C40	40.0	56	40	180	80	110	SONT 124810	400	448.93 185.00
MD900.2D.410.R.12-C40	41.0	56	40	182	82	112	SONT 124810	410	448.93 185.00
MD900.2D.420.R.13-C40	42.0	60	40	187	84	117	SONT 135012	420	470.66 195.00
MD900.2D.430.R.13-C40	43.0	60	40	189	86	119	SONT 135012	430	470.66 195.00
MD900.2D.440.R.13-C40	44.0	60	40	191	88	121	SONT 135012	440	470.66 195.00
MD900.2D.450.R.13-C40	45.0	60	40	193	90	123	SONT 135012	450	470.66 195.00
MD900.2D.460.R.13-C40	46.0	60	40	195	92	125	SONT 135012	460	470.66 195.00
MD900.2D.470.R.15-C40	47.0	60	40	198	94	128	SONT 155312	470	494.43 204.00
MD900.2D.480.R.15-C40	48.0	60	40	200	96	130	SONT 155312	480	494.43 204.00
MD900.2D.490.R.15-C40	49.0	60	40	202	98	132	SONT 155312	490	533.44 221.00
MD900.2D.500.R.15-C40	50.0	60	40	204	100	134	SONT 155312	500	533.44 221.00
MD900.2D.510.R.15-C40	52.0	60	40	208	104	138	SONT 155312	520	547.77 226.00
MD900.2D.520.R.15-C40	51.0	60	40	206	102	136	SONT 155312	510	547.77 226.00
MD900.2D.530.R.15-C40	53.0	60	40	210	106	140	SONT 155312	530	547.77 226.00
MD900.2D.540.R.15-C40	54.0	60	40	212	108	142	SONT 155312	540	547.77 226.00
MD900.2D.550.R.17-C40	55.0	60	40	215	110	145	SONT 175612	550	547.77 226.00
MD900.2D.560.R.17-C40	56.0	60	40	217	112	147	SONT 175612	560	567.86 235.00
MD900.2D.570.R.17-C40	57.0	60	40	219	114	149	SONT 175612	570	567.86 235.00
MD									

MaxiDrill 900 – Indexable insert drill

Scope of supply:

Indexable Insert Drill including clamping screws and key

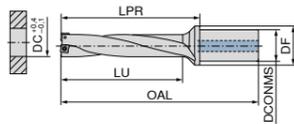


Designation	DC	DF	DCONMS	OAL	LU	LPR	Insert	10 854 ...	PG 2B/41
	mm	mm	mm	mm	mm	mm		£	£
MD900.4D.120.R.03-C20	12	28	20	114	48	64	SONT 031804	120	419.52 171.00
MD900.4D.130.R.03-C20	13	28	20	118	52	68	SONT 031804	130	419.52 171.00
MD900.4D.140.R.04-C20	14	30	20	123	56	73	SONT 042105	140	425.54 176.00
MD900.4D.150.R.04-C20	15	30	20	127	60	77	SONT 042105	150	425.54 176.00
MD900.4D.160.R.05-C20	16	30	20	131	64	81	SONT 052306	160	435.41 180.00
MD900.4D.170.R.05-C20	17	30	20	135	68	85	SONT 052306	170	451.94 187.00
MD900.4D.180.R.06-C25	18	32	25	146	72	90	SONT 062506	180	451.94 187.00
MD900.4D.190.R.06-C25	19	32	25	150	76	94	SONT 062506	190	485.43 201.00
MD900.4D.200.R.06-C25	20	32	25	154	80	98	SONT 062506	200	485.43 201.00
MD900.4D.210.R.07-C25	21	32	25	159	84	103	SONT 072907	210	485.43 201.00
MD900.4D.220.R.07-C25	22	32	25	163	88	107	SONT 072907	220	485.43 201.00
MD900.4D.230.R.07-C25	23	32	25	167	92	111	SONT 072907	230	501.68 207.00
MD900.4D.240.R.08-C32	24	40	32	179	96	119	SONT 083308	240	501.68 207.00
MD900.4D.250.R.08-C32	25	40	32	183	100	123	SONT 083308	250	501.68 207.00
MD900.4D.260.R.08-C32	26	40	32	187	104	127	SONT 083308	260	554.12 229.00
MD900.4D.270.R.08-C32	27	40	32	191	108	131	SONT 083308	270	554.12 229.00
MD900.4D.280.R.09-C32	28	40	32	195	112	135	SONT 093808	280	554.12 229.00
MD900.4D.290.R.09-C32	29	40	32	199	116	139	SONT 093808	290	554.12 229.00
MD900.4D.300.R.09-C32	30	40	32	203	120	143	SONT 093808	300	554.12 229.00
MD900.4D.310.R.09-C32	31	40	32	207	124	147	SONT 093808	310	601.46 249.00
MD900.4D.320.R.09-C32	32	40	32	211	128	151	SONT 093808	320	601.46 249.00
MD900.4D.330.R.10-C40	33	50	40	228	132	158	SONT 104408	330	601.46 249.00

MaxiDrill 900 – Indexable insert drill

Scope of supply:

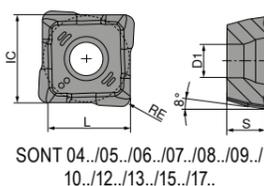
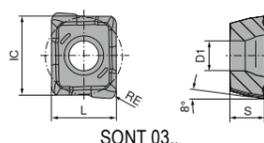
Indexable Insert Drill including clamping screws and key



Designation	DC	DF	DCONMS	OAL	LU	LPR	Insert	10 855 ...	PG 2B/41
	mm	mm	mm	mm	mm	mm		£	£
MD900.5D.120.R.03-C20	12	28	20	126	60	76	SONT 031804	120	494.32 204.00
MD900.5D.130.R.03-C20	13	28	20	131	65	81	SONT 031804	130	494.32 204.00
MD900.5D.140.R.04-C20	14	30	20	137	70	87	SONT 042105	140	505.41 209.00
MD900.5D.150.R.04-C20	15	30	20	142	75	92	SONT 042105	150	505.41 209.00
MD900.5D.160.R.05-C20	16	30	20	147	80	97	SONT 052306	160	517.97 214.00
MD900.5D.170.R.05-C20	17	30	20	152	85	102	SONT 052306	170	536.58 222.00
MD900.5D.180.R.06-C25	18	32	25	164	90	108	SONT 062506	180	536.58 222.00
MD900.5D.190.R.06-C25	19	32	25	169	95	113	SONT 062506	190	576.53 238.00
MD900.5D.200.R.06-C25	20	32	25	174	100	118	SONT 062506	200	576.53 238.00
MD900.5D.210.R.07-C25	21	32	25	180	105	124	SONT 072907	210	576.53 238.00
MD900.5D.220.R.07-C25	22	32	25	184	110	128	SONT 072907	220	576.53 238.00
MD900.5D.230.R.07-C25	23	32	25	189	115	133	SONT 072907	230	597.06 247.00
MD900.5D.240.R.08-C32	24	40	32	203	120	143	SONT 083308	240	597.06 247.00
MD900.5D.250.R.08-C32	25	40	32	208	125	148	SONT 083308	250	597.06 247.00
MD900.5D.260.R.08-C32	26	40	32	212	130	152	SONT 083308	260	658.94 272.00
MD900.5D.270.R.08-C32	27	40	32	217	135	157	SONT 083308	270	658.94 272.00

SONT

Designation	IC	D1	L	S
	mm	mm	mm	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	DF	DCONMS	OAL	LU	LPR	Insert	10 855 ...	PG 2B/41
	mm	mm	mm	mm	mm	mm		£	£
MD900.5D.280.R.09-C32	28	40	32	221	140	161	SONT 093808	280	658.94 272.00
MD900.5D.290.R.09-C32	29	40	32	226	145	166	SONT 093808	290	658.94 272.00
MD900.5D.300.R.09-C32	30	40	32	230	150	170	SONT 093808	300	658.94 272.00
MD900.5D.310.R.09-C32	31	40	32	235	155	175	SONT 093808	310	719.78 295.00
MD900.5D.320.R.09-C32	32	40	32	239	160	179	SONT 093808	320	719.78 295.00
MD900.5D.330.R.10-C40	33	50	40	259	165	191	SONT 104408	330	719.78 295.00
MD900.5D.340.R.10-C40	34	50	40	264	170	196	SONT 104408	340	719.78 295.00
MD900.5D.350.R.10-C40	35	50	40	269	175	201	SONT 104408	350	729.94 302.00
MD900.5D.360.R.10-C40	36	50	40	274	180	206	SONT 104408	360	729.94 302.00
MD900.5D.370.R.12-C40	37	56	40	285	185	215	SONT 124810	370	755.00 312.00
MD900.5D.380.R.12-C40	38	56	40	290	190	220	SONT 124810	380	755.00 312.00
MD900.5D.390.R.12-C40	39	56	40	295	195	225	SONT 124810	390	755.00 312.00
MD900.5D.400.R.12-C40	40	56	40	300	200	230	SONT 124810	400	755.00 312.00
MD900.5D.410.R.12-C40	41	56	40	305	205	235	SONT 124810	410	755.00 312.00

SONT

KOMET \ Standard



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

P	●	●
M	●	●
K	○	○
N	○	○
S	○	○
H		
O		

1) two usable cutting edges





REAMING



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



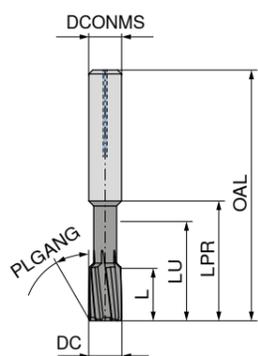
Type N – for all standard low volume applications.

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



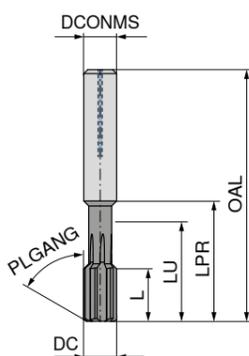
51P.57
Left Hand Helix
PLGANG 30°
ASG2210
Solid carbide
Through hole

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 ^{+0,004/+0,005} mm	OAL mm	L mm	LU mm	DCONMS ^{h6} mm	ZEFP
3,97	50	12	24	4	4
3,98	50	12	24	4	4
3,99	50	12	24	4	4
4,00	50	12	24	4	4
4,01	50	12	24	4	4
4,02	50	12	24	4	4
4,03	50	12	24	4	4
4,97	64	12	31	6	4
4,98	64	12	31	6	4
4,99	64	12	31	6	4
5,00	64	12	31	6	4
5,01	64	12	31	6	4
5,02	64	12	31	6	4
5,03	64	12	31	6	4
5,97	64	12	31	6	4
5,98	64	12	31	6	4
5,99	64	12	31	6	4
6,00	64	12	31	6	4
6,01	64	12	31	6	4
6,02	64	12	31	6	4
6,03	64	12	31	6	4
7,97	70	16	31	8	6
7,98	70	16	31	8	6
7,99	70	16	31	8	6
8,00	70	16	31	8	6
8,01	70	16	31	8	6
8,02	70	16	31	8	6
8,03	70	16	31	8	6
9,97	80	16	35	10	6
9,98	80	16	35	10	6
9,99	80	16	35	10	6
10,00	80	16	35	10	6
10,01	80	16	35	10	6
10,02	80	16	35	10	6
10,03	80	16	35	10	6
11,97	90	20	40	12	6
11,98	90	20	40	12	6
11,99	90	20	40	12	6
12,00	90	20	40	12	6
12,01	90	20	40	12	6
12,02	90	20	40	12	6
12,03	90	20	40	12	6

40 489 ...	PG U4/4R	£	£
03970		130.22	71.62
03980		130.22	71.62
03990		130.22	71.62
04000		130.22	71.62
04010		130.22	71.62
04020		130.22	71.62
04030		130.22	71.62
04970		133.00	73.15
04980		133.00	73.15
04990		133.00	73.15
05000		133.00	73.15
05010		133.00	73.15
05020		133.00	73.15
05030		133.00	73.15
05970		134.03	73.72
05980		134.03	73.72
05990		134.03	73.72
06000		134.03	73.72
06010		134.03	73.72
06020		134.03	73.72
06030		134.03	73.72
07970		140.50	77.28
07980		140.50	77.28
07990		140.50	77.28
08000		140.50	77.28
08010		140.50	77.28
08020		140.50	77.28
08030		140.50	77.28
09970		200.07	110.04
09980		200.07	110.04
09990		200.07	110.04
10000		200.07	110.04
10010		200.07	110.04
10020		200.07	110.04
10030		200.07	110.04
11970		266.40	146.36
11980		266.40	146.36
11990		266.40	146.36
12000		266.40	146.36
12010		266.40	146.36
12020		266.40	146.36
12030		266.40	146.36

DC ^{+0,004/+0,005} mm	OAL mm	L mm	LU mm	DCONMS ^{h6} mm	ZEFP
3,97	50	12	24	4	4
3,98	50	12	24	4	4
3,99	50	12	24	4	4
4,00	50	12	24	4	4
4,01	50	12	24	4	4
4,02	50	12	24	4	4
4,03	50	12	24	4	4
4,97	64	12	31	6	4
4,98	64	12	31	6	4
4,99	64	12	31	6	4
5,00	64	12	31	6	4
5,01	64	12	31	6	4
5,02	64	12	31	6	4
5,03	64	12	31	6	4
5,97	64	12	31	6	4
5,98	64	12	31	6	4
5,99	64	12	31	6	4
6,00	64	12	31	6	4
6,01	64	12	31	6	4
6,02	64	12	31	6	4
6,03	64	12	31	6	4
7,97	70	16	31	8	6
7,98	70	16	31	8	6
7,99	70	16	31	8	6
8,00	70	16	31	8	6
8,01	70	16	31	8	6
8,02	70	16	31	8	6
8,03	70	16	31	8	6
9,97	80	16	35	10	6
9,98	80	16	35	10	6
9,99	80	16	35	10	6
10,00	80	16	35	10	6
10,01	80	16	35	10	6
10,02	80	16	35	10	6
10,03	80	16	35	10	6
11,97	90	20	40	12	6
11,98	90	20	40	12	6
11,99	90	20	40	12	6
12,00	90	20	40	12	6
12,01	90	20	40	12	6
12,02	90	20	40	12	6
12,03	90	20	40	12	6

40 488 ...	PG U4/4R	£	£
03970		109.78	60.38
03980		109.78	60.38
03990		109.78	60.38
04000		109.78	60.38
04010		109.78	60.38
04020		109.78	60.38
04030		109.78	60.38
04970		112.55	61.90
04980		112.55	61.90
04990		112.55	61.90
05000		112.55	61.90
05010		112.55	61.90
05020		112.55	61.90
05030		112.55	61.90
05970		114.43	62.94
05980		114.43	62.94
05990		114.43	62.94
06000		114.43	62.94
06010		114.43	62.94
06020		114.43	62.94
06030		114.43	62.94
07970		120.07	66.04
07980		120.07	66.04
07990		120.07	66.04
08000		120.07	66.04
08010		120.07	66.04
08020		120.07	66.04
08030		120.07	66.04
09970		174.90	96.20
09980		174.90	96.20
09990		174.90	96.20
10000		174.90	96.20
10010		174.90	96.20
10020		174.90	96.20
10030		174.90	96.20
11970		233.56	128.46
11980		233.56	128.46
11990		233.56	128.46
12000		233.56	128.46
12010		233.56	128.46
12020		233.56	128.46
12030		233.56	128.46

P	●
M	●
K	●
N	○
S	○
H	○
O	○

P	●
M	●
K	●
N	○
S	○
H	○
O	○



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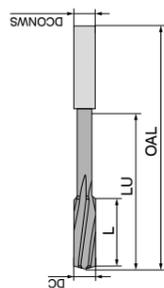
Ordering via the Online Shop
http://cuttingtools.ceratizit.com



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

▲ extremely irregular pitch

N



straight flute
Solid carbide



Left Hand Helix
Solid carbide

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

40 400 ... PG U4		40 410 ... PG U4			
£	£	£	£		
020	35.40	19.31	020	35.40	19.31
021	42.17	23.19	021	42.17	23.19
022	42.17	23.19	022	42.17	23.19
023	42.17	23.19	023	42.17	23.19
024	42.17	23.19	024	42.17	23.19
025	37.65	20.71	025	37.65	20.71
026	45.18	24.85	026	45.18	24.85
027	45.18	24.85	027	45.18	24.85
028	45.18	24.85	028	45.18	24.85
029	45.18	24.85	029	45.18	24.85
030	48.44	22.24	030	48.44	22.24
031	48.61	26.74	031	48.61	26.74
032	48.61	26.74	032	48.61	26.74
033	48.61	26.74	033	48.61	26.74
034	48.61	26.74	034	48.61	26.74
035	46.27	25.45	035	46.27	25.45
036	55.40	30.52	036	55.40	30.52
037	55.40	30.52	037	55.40	30.52
038	55.40	30.52	038	55.40	30.52
039	55.40	30.52	039	55.40	30.52
040	49.78	27.38	040	49.78	27.38
041	59.70	32.84	041	59.70	32.84
042	59.70	32.84	042	59.70	32.84
043	59.70	32.84	043	59.70	32.84
044	59.70	32.84	044	59.70	32.84
045	54.12	29.77	045	54.12	29.77
046	64.96	35.73	046	64.96	35.73
047	64.96	35.73	047	64.96	35.73
048	64.96	35.73	048	64.96	35.73
049	64.96	35.73	049	64.96	35.73
050	61.15	33.63	050	61.15	33.63
051	70.36	38.70	051	70.36	38.70
052	70.36	38.70	052	70.36	38.70
053	70.36	38.70	053	70.36	38.70
054	70.36	38.70	054	70.36	38.70
055	64.73	35.60	055	64.73	35.60
056	74.36	40.90	056	74.36	40.90
057	74.36	40.90	057	74.36	40.90
058	74.36	40.90	058	74.36	40.90
059	74.36	40.90	059	74.36	40.90
060	77.42	42.58	060	77.42	42.58
061	88.00	48.94	061	88.00	48.94
062	88.00	48.94	062	88.00	48.94
063	88.00	48.94	063	88.00	48.94
064	88.00	48.94	064	88.00	48.94
065	86.01	47.80	065	86.01	47.80
066	99.02	54.96	066	99.02	54.96

DC _{H7} mm	OAL mm	L mm	LU mm	DCONMS _{H7} mm	ZEFP	40 400 ... PG U4 £	40 410 ... PG U4 £	
6.7	101	28	63	6.3	6	067	99.02	54.96
6.8	109	31	69	7.1	6	068	99.02	54.96
6.9	109	31	69	7.1	6	069	99.02	54.96
7.0	109	31	69	7.1	6	070	87.02	53.36
7.1	109	31	69	7.1	6	071	111.58	61.37
7.2	109	31	69	7.1	6	072	111.58	61.37
7.3	109	31	69	7.1	6	073	111.58	61.37
7.4	109	31	69	7.1	6	074	111.58	61.37
7.5	109	31	69	7.1	6	075	104.88	57.68
7.6	117	33	75	8.0	6	076	120.58	66.32
7.7	117	33	75	8.0	6	077	120.58	66.32
7.8	117	33	75	8.0	6	078	120.58	66.32
7.9	117	33	75	8.0	6	079	120.58	66.32
8.0	117	33	75	8.0	6	080	111.66	61.41
8.1	117	33	75	8.0	6	081	122.84	67.56
8.2	117	33	75	8.0	6	082	122.84	67.56
8.3	117	33	75	8.0	6	083	122.84	67.56
8.4	117	33	75	8.0	6	084	122.84	67.56
8.5	117	33	75	8.0	6	085	121.08	66.59
8.6	125	36	81	9.0	6	086	133.13	73.22
8.7	125	36	81	9.0	6	087	133.13	73.22
8.8	125	36	81	9.0	6	088	133.13	73.22
8.9	125	36	81	9.0	6	089	133.13	73.22
9.0	125	36	81	9.0	6	090	120.82	71.40
9.1	125	36	81	9.0	6	091	142.74	78.51
9.2	125	36	81	9.0	6	092	142.74	78.51
9.3	125	36	81	9.0	6	093	142.74	78.51
9.4	125	36	81	9.0	6	094	142.74	78.51
9.5	125	36	81	9.0	6	095	139.20	76.56
9.6	133	38	87	10.0	6	096	153.11	84.21
9.7	133	38	87	10.0	6	097	153.11	84.21
9.8	133	38	87	10.0	6	098	153.11	84.21
9.9	133	38	87	10.0	6	099	153.11	84.21
10.0	133	38	87	10.0	6	100	149.70	82.38
10.1	133	38	87	10.0	6	101	164.78	90.63
10.2	133	38	87	10.0	6	102	164.78	90.63
10.3	133	38	87	10.0	6	103	164.78	90.63
10.4	133	38	87	10.0	6	104	164.78	90.63
10.5	133	38	87	10.0	6	105	156.55	86.10
10.6	133	38	87	10.0	6	106	172.24	94.73
10.7	142	41	96	10.0	6	107	172.24	94.73
10.8	142	41	96	10.0	6	108	172.24	94.73
10.9	142	41	96	10.0	6	109	172.24	94.73
11.0	142	41	96	10.0	6	110	169.68	93.32
11.1	142	41	96	10.0	6	111	186.64	102.65
11.2	142	41	96	10.0	6	112	186.64	102.65
11.3	142	41	96	10.0	6	113	186.64	102.65
11.4	142	41	96	10.0	6	114	186.64	102.65
11.5	142	41	96	10.0	6	115	180.00	99.00
11.6	142	41	96	10.0	6	116	198.00	108.95
11.7	142	41	96	10.0	6	117	198.00	108.95
11.8	142	41	96	10.0	6	118	198.00	108.95
11.9	151	44	100	10.0	6	119	198.00	108.95
12.0	151	44	100	10.0	6	120	195.11	107.31

P	●	●
M	○	○
K	○	○
N	●	●
S	○	○
H		
O		



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HSS TAPS



UNI – universal taps for all standard materials.



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

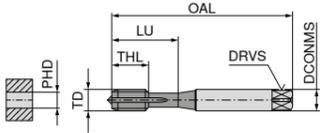


Roll tapping – 23-810 range. For all suitable applications and materials.

Through hole – Machine taps, right hand



WNT \ Standard



UKS	
UNI	ISO 2 6H
B	TiN
4-5	



POWDERSTEEL
HSS-PM

FHA 0°
≤ 1000 N/mm²
≤ 3xD

UKS	
VA	ISO 2 6H
B	nitr.
4-5	



POWDERSTEEL
HSS-PM

FHA 0°
≤ 1200 N/mm²
≤ 3xD

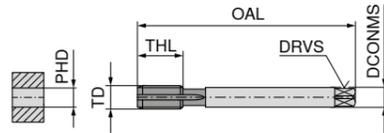
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	23 010 ...	PG T9
mm	mm	mm	mm	mm	mm	mm	mm		£	£
M2	0.40	45	2.8	2.1	1.6	4	13.5	2	020	11.66 9.91
M3	0.50	56	3.5	2.7	2.5	11	18.0	3	030	14.66 12.45
M4	0.70	63	4.5	3.4	3.3	13	21.0	3	040	13.36 11.36
M5	0.80	70	6.0	4.9	4.2	15	25.0	3	050	14.94 12.70
M6	1.00	80	6.0	4.9	5.0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

TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	23 450 ...	PG T9
mm	mm	mm	mm	mm	mm	mm	mm		£	£
M2	0.40	45	2.8	2.1	1.6	4	13.5	2	020	11.66 9.91
M3	0.50	56	3.5	2.7	2.5	11	18.0	3	030	14.66 12.45
M4	0.70	63	4.5	3.4	3.3	13	21.0	3	040	13.36 11.71
M5	0.80	70	6.0	4.9	4.2	15	25.0	3	050	14.94 12.70
M6	1.00	80	6.0	4.9	5.0	17	30.0	3	060	15.05 12.79
M8	1.25	90	8.0	6.2	6.8	20	35.0	3	080	16.92 14.38
M10	1.50	100	10.0	8.0	8.5	22	39.0	3	100	19.19 16.31

Through hole – Machine taps, right hand



WNT \ Standard



UKS	
UNI	ISO 2 6H
B	TiN
4-5	



POWDERSTEEL
HSS-PM

FHA 0°
≤ 1000 N/mm²
≤ 3xD

UKS	
VA	ISO 2 6H
B	nitr.
4-5	



POWDERSTEEL
HSS-PM

FHA 0°
≤ 1200 N/mm²
≤ 3xD

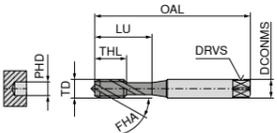
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	23 021 ...	PG T9
mm	mm	mm	mm	mm	mm	mm	mm		£	£
M12	1.75	110	9	7	10.2	24	3		120	34.41 26.70
M14	2.00	110	11	9	12.0	26	3		140	47.64 40.47
M16	2.00	110	12	9	14.0	27	3		160	44.21 37.58
M18	2.50	125	14	11	15.5	25	4		180	77.44 65.82
M20	2.50	140	16	12	17.5	32	3		200	89.04 68.01

TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	23 451 ...	PG T9
mm	mm	mm	mm	mm	mm	mm	mm		£	£
M12	1.75	110	9	7	10.2	24	3		120	34.26 29.12
M14	2.00	110	11	9	12.0	26	3		140	45.34 38.54
M16	2.00	110	12	9	14.0	27	3		160	47.91 40.72
M18	2.50	125	14	11	15.5	25	4		180	71.62 60.88

Blind hole – Machine taps, right hand



WNT \ Standard



UKS	
UNI	ISO 2 6H
C	TiN
2-3	



HSS-PM

FHA 50°
≤ 1000 N/mm²
≤ 2.5xD

UKS	
VA	ISO 2 6H
C	TiN
2-3	



HSS-PM

FHA 40°
≤ 1200 N/mm²
≤ 2.5xD

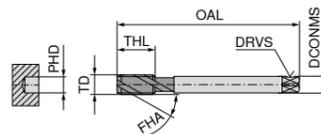
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	23 026 ...	PG T9
mm	mm	mm	mm	mm	mm	mm	mm		£	£
M3	0.50	56	3.5	2.7	2.5	6	18	3	030	16.62 14.13
M4	0.70	63	4.5	3.4	3.3	7	21	3	040	16.62 14.13
M5	0.80	70	6.0	4.9	4.2	8	25	3	050	17.94 15.22
M6	1.00	80	6.0	4.9	5.0	10	30	3	060	20.74 17.63
M8	1.25	90	8.0	6.2	6.8	14	35	3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

TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	23 456 ...	PG T9
mm	mm	mm	mm	mm	mm	mm	mm		£	£
M3	0.50	56	3.5	2.7	2.5	6	18	3	030	16.62 14.13
M4	0.70	63	4.5	3.4	3.3	7	21	3	040	18.19 15.46
M5	0.80	70	6.0	4.9	4.2	8	25	3	050	18.48 15.71
M6	1.00	80	6.0	4.9	5.0	10	30	3	060	23.73 20.17
M8	1.25	90	8.0	6.2	6.8	14	35	3	080	25.44 21.62
M10	1.50	100	10.0	8.0	8.5	16	39	3	100	35.99 29.83

Blind hole – Machine taps, right hand



WNT \ Standard



UKS	
UNI	ISO 2 6H
C	TiN
2-3	



HSS-PM

FHA 50°
≤ 1000 N/mm²
≤ 2.5xD

UKS	
VA	ISO 2 6H
C	TiN
2-3	



HSS-PM

FHA 40°
≤ 1200 N/mm²
≤ 2.5xD

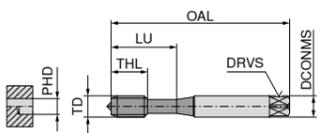
TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	23 027 ...	PG T9
mm	mm	mm	mm	mm	mm	mm	mm		£	£
M12	1.75	110	9	7	10.2	18	4		120	36.66 31.16
M14	2.00	110	11	9	12.0	20	4		140	52.73 44.82
M16	2.00	110	12	9	14.0	22	4		160	52.73 44.82
M16	2.00	110	12	9	14.0	22	3		160	63.23 53.75
M20	2.50	140	16	12	17.5	25	3		200	69.44 51.35

TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	23 457 ...	PG T9
mm	mm	mm	mm	mm	mm	mm	mm		£	£
M12	1.75	110	9	7	10.2	18	4		120	50.31 42.76
M16	2.00	110	12	9	14.0	22	3		160	63.23 53.75
M20	2.50	140	16	12	17.5	25	3		200	125.64 106.77

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/mm²
≤ 3xD

TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU
mm	mm	mm	mm	mm	mm	mm	mm
M2	0.40	45	2.8	2.1	1.85	7	12
M2,5	0.45	50	2.8	2.1	2.33	9	14
M3	0.50	56	3.5	2.7	2.80	11	18
M4	0.70	63	4.5	3.4	3.70	13	21
M5	0.80	70	6.0	4.9	4.65	15	25
M6	1.00	80	6.0	4.9	5.60	17	30
M8	1.25	90	8.0	6.2	7.45	20	35
M10	1.50	100	10.0	8.0	9.35	22	39

TD	TP	OAL	DCONMS	DRVS	PHD	THL	LU	Flutes	23 810 ...	PG T9
mm	mm	mm	mm	mm	mm	mm	mm		£	£
M2	0.40	45	2.8	2.1	1.85	7	12		020	50.35 42.80
M2,5	0.45	50	2.8	2.1	2.33	9	14		025	44.95 38.12
M3	0.50	56	3.5	2.7	2.80	11	18		030	32.65 27.75
M4	0.70	63	4.5	3.4	3.70	13	21		040	39.12 28.15
M5	0.80	70	6.0	4.9	4.65	15	25		050	35.50 30.18
M6	1.00	80	6.0	4.9	5.60	17	30		060	42.64 36.22
M8	1.25	90	8.0	6.2	7.45	20	35		080	47.59 40.45
M10	1.50	100	10.0	8.0	9.35	22	39		100	62.46 53.94

Cutting Data

23 010 ... / 23 021 ...	23 450 ... / 23 451 ...	23 026 ... / 23 027 ...
15	8	15
9	6	9
18		18
12	22	12

23 456 ... / 23 457 ...	23 810 ...
10	18
8	10
	10
24	22



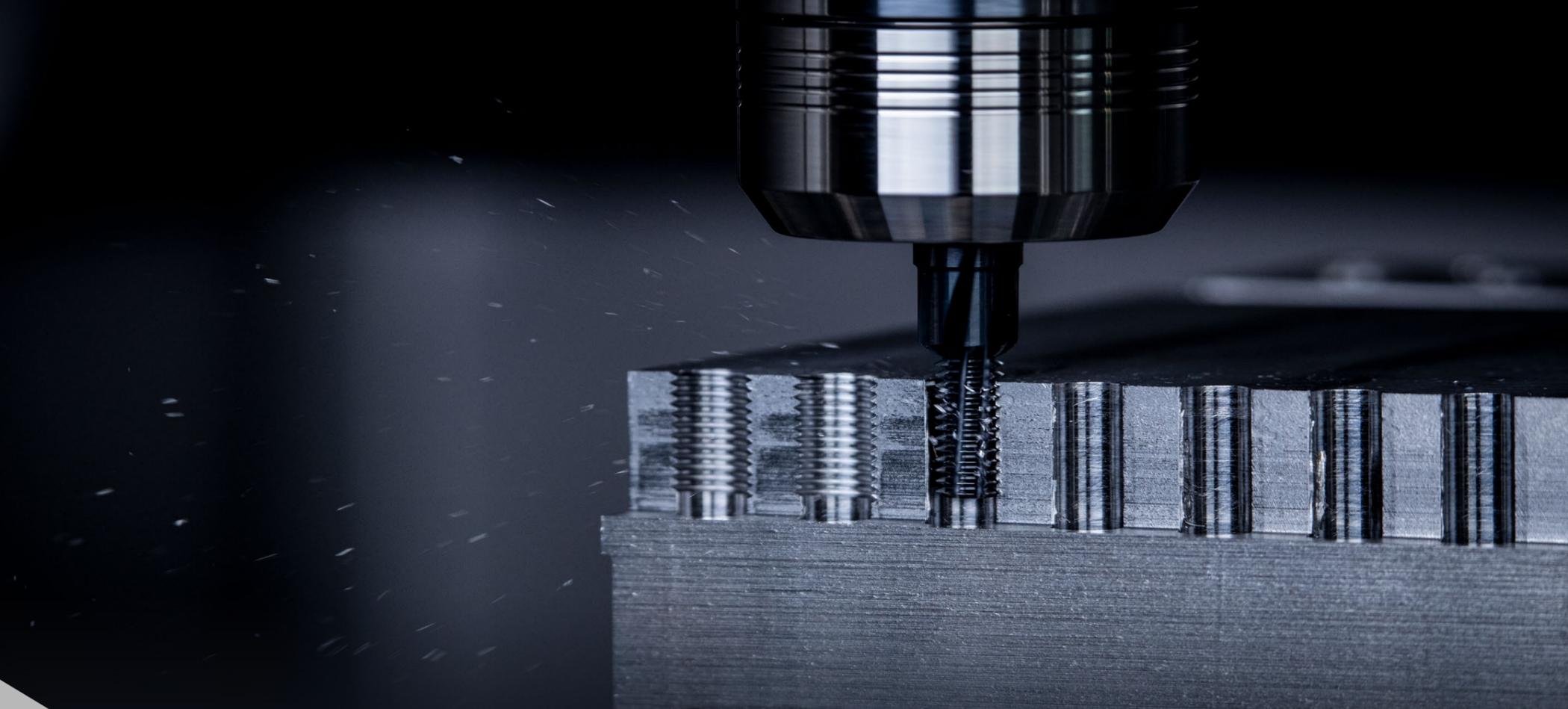
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THREAD MILLING CUTTERS



SGF

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

MonoThread – Thread milling cutter

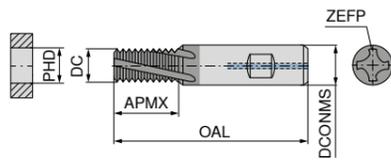
- ▲ Profile corrected
- ▲ Hard machining to Ø DC = 4 mm possible



≤ 2xD



M



Solid carbide

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

P	●
M	●
K	●
N	●
S	●
H	●
O	●

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

MonoThread – Thread milling cutter

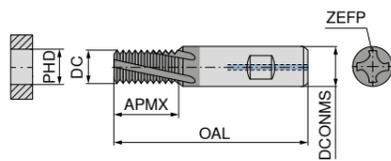
- ▲ Profile corrected
- ▲ Hard machining to Ø DC = 4 mm possible



≤ 2xD



MF



Solid carbide

DC mm	Thread	TP mm	APMX mm	DCONMS _{h6} 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 ¹⁾	119.91 110.00
4.8	M 6x0,75	0.75	14.5	6	55	3	5.25	06000 ¹⁾	119.91 110.00
6.0	M 8x1	1.00	19.3	6	60	3	7.00	08000	125.78 120.00
8.0	M 10x1,25	1.25	21.6	8	70	3	8.75	10000	152.07 150.00
9.9	M 12x1	1.00	27.3	10	75	4	11.00	12000	182.86 180.00
9.9	M 12x1,25	1.25	27.9	10	75	4	10.75	12100	182.86 180.00
9.9	M 12x1,5	1.50	27.5	10	75	4	10.50	12200	182.86 180.00
11.6	M 14x1	1.00	31.3	12	85	4	13.00	14000	212.88 210.00
11.6	M 14x1,5	1.50	32.0	12	85	4	12.50	14100	212.88 210.00
12.0	M 16x1,5	1.50	35.0	12	85	4	14.50	16000	222.55 220.00
14.0	M 18x1,5	1.50	42.5	14	90	4	16.50	18000	262.55 260.00
16.0	M 20x1,5	1.50	42.5	16	90	4	18.50	20000	272.69 270.00

P	●
M	●
K	●
N	●
S	●
H	●
O	●

- 1) DIN 6535 HA Shank / Without Through Coolant

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

MonoThread – Circular shank thread milling cutter

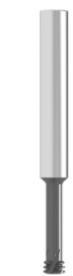
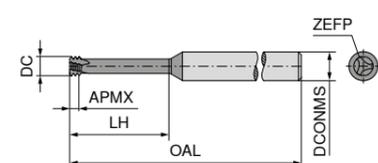
- ▲ Available on request from M1
- ▲ Profile corrected



≤ 3xD

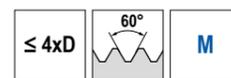


M



Solid carbide

DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEFP	50 802 ... PG W1	
								£	£
1.53	M2	0.40	39	0.80	6.0	3	3	02000	92.41 92.00
2.37	M3	0.50	58	1.35	9.5	6	3	03000	92.41 92.00
3.10	M4	0.70	58	1.95	12.5	6	3	04000	92.41 92.00
3.80	M5	0.80	58	2.30	16.0	6	3	05000	92.41 92.00
4.65	M6	1.00	58	2.70	20.0	6	3	06000	92.41 92.00
6.00	M8	1.25	58	3.20	24.0	6	3	08000	92.41 92.00
7.80	M10	1.50	64	3.80	31.5	8	3	10000	115.45 115.00
9.00	M12	1.75	73	4.55	37.8	10	3	12000	129.44 129.00



Solid carbide

DC mm	Thread	TP mm	OAL mm	APMX mm	LH mm	DCONMS _{h6} mm	ZEFP	50 803 ... PG W1	
								£	£
1.53	M2	0.40	39	1.00	10.4	3	3	02000	104.00 104.00
2.40	M3	0.50	39	1.30	12.5	3	3	03000	99.38 99.00
3.10	M4	0.70	58	1.80	16.7	6	3	04000	99.38 99.00
4.00	M5	0.80	58	2.10	20.8	6	3	05000	99.38 99.00
4.80	M6	1.00	58	2.55	25.0	6	3	06000	99.38 99.00
6.40	M8	1.25	64	3.15	33.5	8	3	08000	123.48 123.00
8.00	M10	1.50	76	3.85	41.5	8	3	10000	123.48 123.00

P	●
M	●
K	●
N	●
S	●
H	●
O	●

Our recycling service

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



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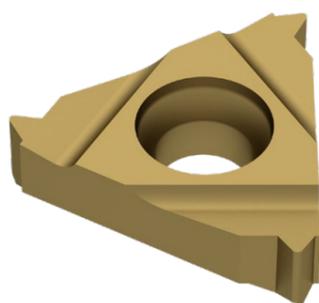


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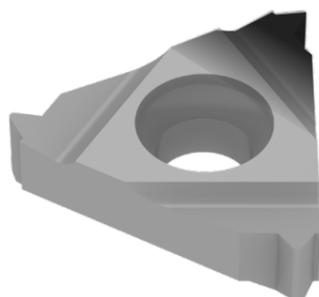


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THREAD TURNING



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



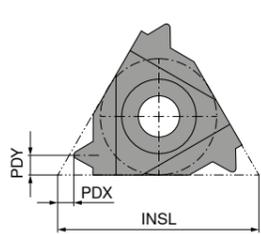
HCN2525 – for high performance and volume production in all materials.

Right hand external thread turning insert

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



WNT \ Performance



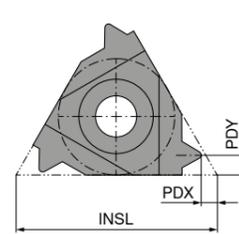
Designation	TP mm	INSL mm	PDX mm	PDY mm	ER 71 220 ... PG X3		ER 71 220 ... PG X3	
					£	£	£	£
16 ER 0,35	0.35	16	0.8	0.4			734	27.70 19.39
16 ER 0,4	0.40	16	0.7	0.4			736	27.70 19.39
16 ER 0,5	0.50	16	0.6	0.6	140	19.02 13.31	740	21.58 15.11
16 ER 0,7	0.70	16	0.6	0.6	141	21.06 14.74	741	22.28 15.60
16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

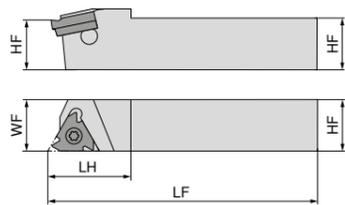


Designation	TP mm	INSL mm	PDX mm	PDY mm	IR 71 224 ... PG X3		IR 71 224 ... PG X3	
					£	£	£	£
16 IR 0,75	0.75	16	0.6	0.6	142	23.18 16.23	742	25.85 18.10
16 IR 1,0	1.00	16	0.6	0.7	144	18.45 12.92	744	21.05 14.74
16 IR 1,25	1.25	16	0.8	0.9			746	22.45 15.51
16 IR 1,5	1.50	16	0.8	1.0	148	18.45 12.92	748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

Standard External Thread Turning Holder

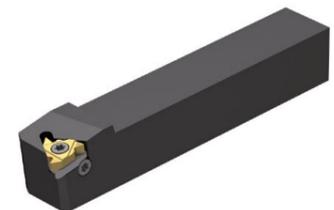
▲ Tool Holder with Approach Angle β = 1,5°

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

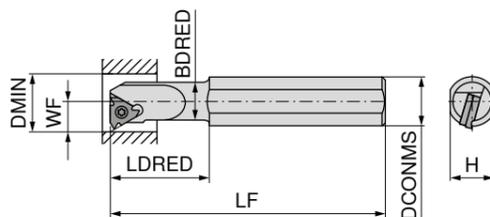


Right-hand	
71 280 ... PG Y2	£
012	135.55 47.00
016	166.85 58.00
020	166.85 58.00
025	190.42 66.00
032	209.27 73.00

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

1) without shim



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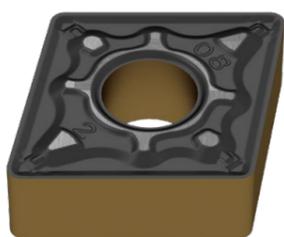
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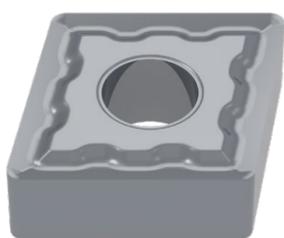
TURNING



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

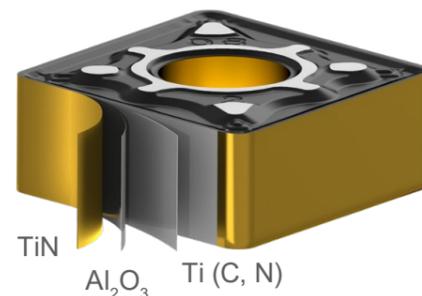
The new ISO-P grades with indicator layer for high-performance turning processes!



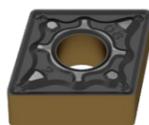
Machining with no compromises – with the CERATIZIT ISO-P carbide grades update

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



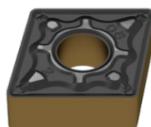
CTCP135-P

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

DRAGONSKIN

DRAGONSKIN

NEW



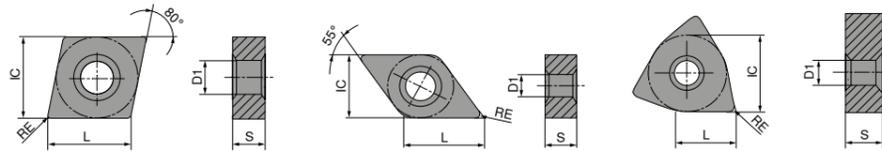
CTCP125-P

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

DRAGONSKIN

CNMG / DNMG / WNMG

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



CNMG

CERATIZIT \ Performance

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

-M50
CTCP115-P
DRAGONSKIN

M

76 135 ... PG 1A/08

	£	£
32801	12.10	9.89
33001	12.10	9.89
32001	12.10	9.89
33401	12.10	9.89
34201	21.31	15.98
34401	21.31	15.98
34601	21.31	15.98

-M50
CTCP125-P
DRAGONSKIN

M

76 135 ... PG 1A/08

	£	£
52801	12.10	9.89
53001	12.10	9.89
53201	12.10	9.89
53401	12.10	9.89
54201	21.31	15.98
54401	21.31	15.98
54601	21.31	15.98

-M50
CTCP135-P
DRAGONSKIN

M

76 135 ... PG 1A/08

	£	£
72801	12.10	9.89
73001	12.10	9.89
73201	12.10	9.89
73401	12.10	9.89
74201	21.31	15.98
74401	21.31	15.98
74601	21.31	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	14.97	10.55
30601	14.97	10.55
30801	14.97	10.55
31601	17.86	12.80
31801	17.86	12.80
32001	17.86	12.80
32201	17.86	12.80
32801	18.48	13.86
33001	18.48	13.86
33201	18.48	13.86
33401	18.48	13.86

-M50
CTCP125-P
DRAGONSKIN

M

76 136 ... PG 1A/08

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

-M50
CTCP135-P
DRAGONSKIN

M

76 136 ... PG 1A/08

	£	£
70401	14.97	10.55
70601	14.97	10.55
70801	14.97	10.55
71601	17.86	12.80
71801	17.86	12.80
72001	17.86	12.80
72201	17.86	12.80
72801	18.48	13.86
73001	18.48	13.86
73201	18.48	13.86
73401	18.48	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	11.50	8.63
30601	11.50	8.63
30801	11.50	8.63
31601	14.47	10.85
31801	14.47	10.85
32001	14.47	10.85
32201	14.47	10.85

-M50
CTCP125-P
DRAGONSKIN

M

76 139 ... PG 1A/08

	£	£
50401	11.50	8.63
50601	11.50	8.63
50801	11.50	8.63
51601	14.47	10.85
51801	14.47	10.85
52001	14.47	10.85
52201	14.47	10.85

-M50
CTCP135-P
DRAGONSKIN

M

76 139 ... PG 1A/08

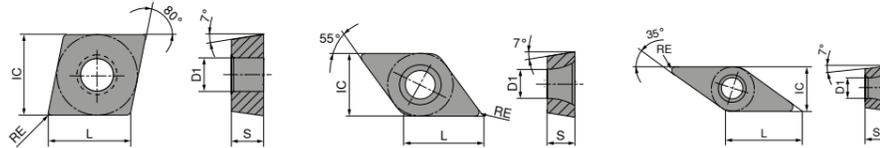
	£	£
70401	11.50	8.63
70601	11.50	8.63
70801	11.50	8.63
71601	14.47	10.85
71801	14.47	10.85
72001	14.47	10.85
72201	14.47	10.85

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	8.97 6.73
30601	8.97 6.73
31601	11.20 8.40
31801	11.20 8.40
32801	15.77 11.83
33001	15.77 11.83

-SM
CTCP125-P

DRAGONSKIN

M

76 252 ...	PG 1A/08
£	£
50401	8.97 6.73
51601	11.20 8.40
51801	11.20 8.40
52801	15.77 11.83
53001	15.77 11.83
53201	15.77 11.83

-SM
CTCP135-P

DRAGONSKIN

M

76 252 ...	PG 1A/08
£	£
70401	8.97 6.73
70601	8.97 6.73
71601	11.20 8.40
71801	11.20 8.40
72801	15.77 11.83
73001	15.77 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	8.97 6.73
30601	8.97 6.73
31601	12.63 9.47
31801	12.63 9.47

-SM
CTCP125-P

DRAGONSKIN

M

76 258 ...	PG 1A/08
£	£
50401	8.97 6.73
50601	8.97 6.73
51601	12.63 9.47
51801	12.63 9.47
52001	12.63 9.47

-SM
CTCP135-P

DRAGONSKIN

M

76 258 ...	PG 1A/08
£	£
70401	8.97 6.73
70601	8.97 6.73
71601	12.63 9.47
71801	12.63 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	18.48 13.86
32901	18.48 13.86
33001	18.48 13.86
33201	18.48 13.86

-SM
CTCP125-P

DRAGONSKIN

M

76 278 ...	PG 1A/08
£	£
52801	18.48 13.86
53001	18.48 13.86
53201	18.48 13.86

-SM
CTCP135-P

DRAGONSKIN

M

76 278 ...	PG 1A/08
£	£
72801	18.48 13.86
73001	18.48 13.86
73201	18.48 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

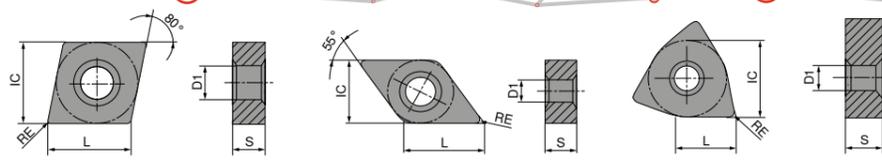


CTCM130

- ▲ 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	UKS		UKS	
	-M30		-M30	
M	CTCM120		CTCM130	
	DRAGONSKIN		DRAGONSKIN	
K	M		M	
	75 011 ...	PG 1A/08	75 011 ...	PG 1A/08
N	£	£	£	£
	13000	13.10 9.89	33000	13.10 9.89
S	13200	13.10 9.89	33200	13.10 9.89
	13400	13.10 9.89	33400	13.10 9.89
H				
O				

DNMG

CERATIZIT \ Performance

ISO	RE
	mm
110408EN	0.8
110412EN	1.2
150608EN	0.8
150612EN	1.2

P	UKS		UKS	
	-M30		-M30	
M	CTCM120		CTCM130	
	DRAGONSKIN		DRAGONSKIN	
K	M		M	
	75 014 ...	PG 1A/08	75 014 ...	PG 1A/08
N	£	£	£	£
	10600	14.07 10.55	30600	14.07 10.55
S	10800	14.07 10.55	30800	14.07 10.55
	13000	18.48 13.86	33000	18.48 13.86
H	13200	18.48 13.86	33200	18.48 13.86
O				

WNMG

CERATIZIT \ Performance

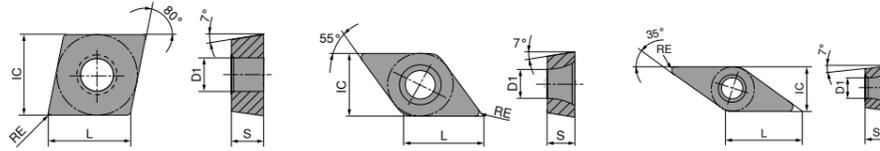
ISO	RE
	mm
060408EN	0.8
060412EN	1.2
080408EN	0.8
080412EN	1.2

P	UKS		UKS	
	-M30		-M30	
M	CTCM120		CTCM130	
	DRAGONSKIN		DRAGONSKIN	
K	M		M	
	75 025 ...	PG 1A/08	75 025 ...	PG 1A/08
N	£	£	£	£
	10600	11.50 8.63	30600	11.50 8.63
S	10800	11.50 8.63	30800	11.50 8.63
	11800	14.47 10.85	31800	14.47 10.85
H	12000	14.47 10.85	32000	14.47 10.85
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
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					

-M25
CTCM120

DRAGONSKIN

F

75 210 ... PG 1A/08

£	£
10400	8.97 6.73
11600	11.20 8.40
11800	11.20 8.40

-M25
CTCM130

DRAGONSKIN

F

75 210 ... PG 1A/08

£	£
30400	8.97 6.73
31600	11.20 8.40
31800	11.20 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					

-M25
CTCM120

DRAGONSKIN

F

75 213 ... PG 1A/08

£	£
10200	8.97 6.73
10400	8.97 6.73
11400	12.63 9.47
11600	12.63 9.47
11800	12.63 9.47

-M25
CTCM130

DRAGONSKIN

F

75 213 ... PG 1A/08

£	£
30200	8.97 6.73
30400	8.97 6.73
31400	12.63 9.47
31600	12.63 9.47
31800	12.63 9.47

VCMT

CERATIZIT \ Performance

ISO	RE
	mm
160404EN	0.4
160408EN	0.8

P					
M					
K					
N					
S					
H					
O					

-M25
CTCM120

DRAGONSKIN

F

75 219 ... PG 1A/08

£	£
12800	18.48 13.86
13000	18.48 13.86

-M25
CTCM130

DRAGONSKIN

F

75 219 ... PG 1A/08

£	£
32800	18.48 13.86
33000	18.48 13.86



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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

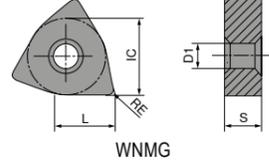
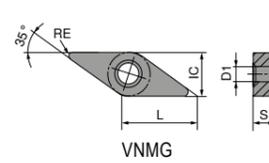
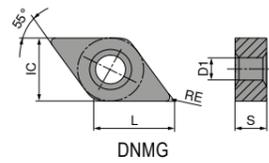
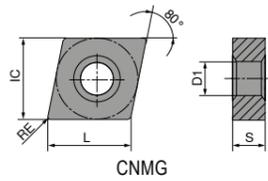
P M K N S

*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



-M34
CTPX710

DRAGONSKIN



CERATIZIT \ Performance

ISO	RE mm	M	75 003 ...	PG 1A/08
120404EN	0.4		62800	£ 12.41 / £ 9.31
120408EN	0.8		63000	£ 12.41 / £ 9.31
120412EN	1.2		63200	£ 12.41 / £ 9.31
120416EN	1.6		63400	£ 12.41 / £ 9.31

P	•
M	•
K	•
N	○
S	•
H	
O	

DNMG



-M34
CTPX710

DRAGONSKIN



CERATIZIT \ Performance

ISO	RE mm	M	75 004 ...	PG 1A/08
150404EN	0.4		61600	£ 17.82 / £ 13.37
150408EN	0.8		61800	£ 17.82 / £ 13.37
150412EN	1.2		62000	£ 17.82 / £ 13.37
150608EN	0.8		63000	£ 19.52 / £ 14.64
150612EN	1.2		63200	£ 19.52 / £ 14.64

P	•
M	•
K	•
N	○
S	•
H	
O	

VNMG



-M34
CTPX710

DRAGONSKIN



CERATIZIT \ Performance

ISO	RE mm	M	75 009 ...	PG 1A/08
160404EN	0.4		61600	£ 22.50 / £ 16.94
160408EN	0.8		61800	£ 22.50 / £ 16.94
160412EN	1.2		62000	£ 22.50 / £ 16.94

P	•
M	•
K	•
N	○
S	•
H	
O	

WNMG



-M34
CTPX710

DRAGONSKIN



CERATIZIT \ Performance

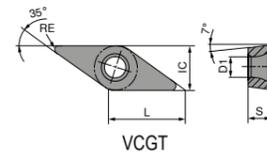
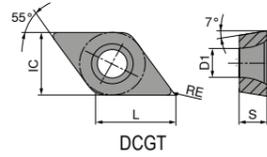
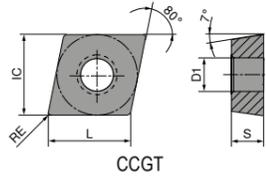
ISO	RE mm	M	75 008 ...	PG 1A/08
080408EN	0.8		61800	£ 15.12 / £ 11.34
080412EN	1.2		62000	£ 15.12 / £ 11.34

P	•
M	•
K	•
N	○
S	•
H	
O	



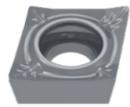
CCGT / DCGT / VCGT

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

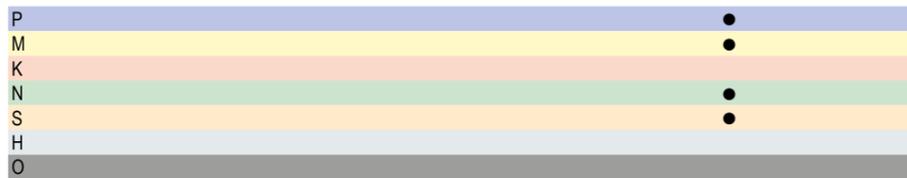


CCGT

CERATIZIT \ Performance

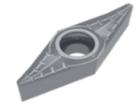


ISO	RE	M	70 248 ...	PG 1A/90
	mm			
060202FN	0.2	70200	15.00	11.25
060204FN	0.4	70400	15.00	11.25
09T302FN	0.2	71400	15.36	11.52
09T304FN	0.4	71600	15.36	11.52
09T308FN	0.8	71800	15.36	11.52
120404FN	0.4	72800	19.61	14.71
120408FN	0.8	73000	19.61	14.71

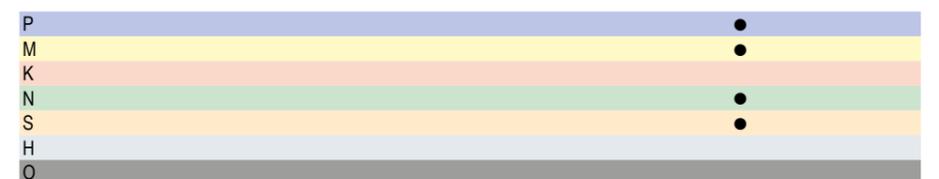


VCGT

CERATIZIT \ Performance

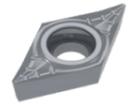


ISO	RE	M	70 282 ...	PG 1A/90
	mm			
110302FN	0.2	71400	20.02	15.02
110304FN	0.4	71600	20.02	15.02
160404FN	0.4	72800	24.81	18.61
160408FN	0.8	73000	24.81	18.61
160412FN	1.2	73200	24.81	18.61
220530FN	3.0	75000	33.06	24.80

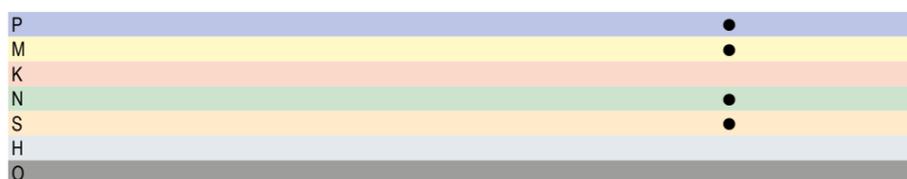


DCGT

CERATIZIT \ Performance



ISO	RE	M	70 263 ...	PG 1A/90
	mm			
070202FN	0.2	70200	13.58	10.19
070204FN	0.4	70400	13.58	10.19
11T302FN	0.2	71400	16.40	12.30
11T304FN	0.4	71600	16.40	12.30
11T308FN	0.8	71800	16.40	12.30



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ECOCUT



CTPP430 – universal grade for all materials.

The Original Multi Function Tool

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



EcoCut – Classic 1.5xD

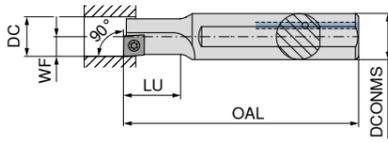
▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver



CERATIZIT \ Performance



Illustrations show right-hand versions

ISO designation	DC 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	183.66	61.00	010	183.66	61.00
012	186.67	62.00	012	186.67	62.00
014	191.17	63.00	014	191.17	63.00
016	194.18	64.00	016	194.18	64.00
018	223.96	74.00	018	223.96	74.00
020	252.47	84.00	020	252.47	84.00
025	291.15	96.00	025	291.15	96.00
032	330.06	109.00	032	330.06	109.00

EcoCut – Classic 2.25xD

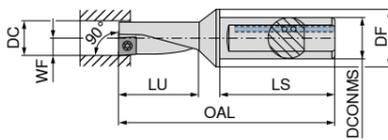
▲ Drilling and turning tool

Scope of supply:

Toolholder with 1 clamping screw + 2 spare screws and screwdriver

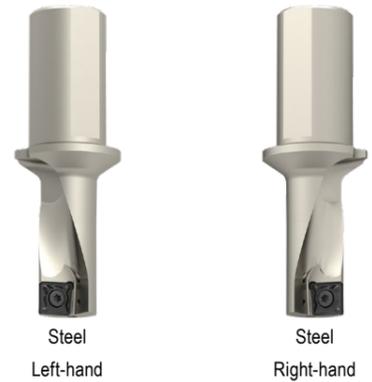


CERATIZIT \ Performance



Illustrations show right-hand versions

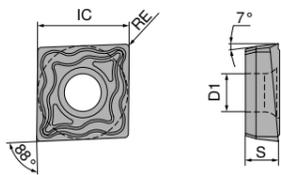
ISO designation	DC mm	DCONMS mm	OAL mm	LU mm	LS mm	WF mm	torque moment Nm	Insert
ECC 10 R/L 2,25D 05	10	12	69.5	22.5	42	5.0	0,7	XC.T 0502..
ECC 12 R/L 2,25D 06	12	16	78.0	27.0	45	6.0	1,0	XC.T 0602..
ECC 14 R/L 2,25D 07	14	16	83.5	31.5	45	7.0	1,2	XC.T 0703..
ECC 16 R/L 2,25D 08	16	20	94.0	36.0	50	8.0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



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



XCNT

70 386 ...		PG 1D/19
	£	£
923	17.86	13.40
903	17.86	13.40
924	17.86	13.40
904	17.86	13.40
905	17.86	13.40
906	18.13	13.60
907	18.39	13.79
908	19.32	14.49
938	19.32	14.49
910	22.10	16.58
940	22.10	16.58
912	23.38	17.48

P	●
M	●
K	○
N	○
S	○
H	○
O	○



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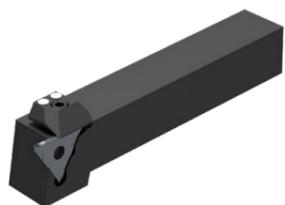
GROOVING TOOLS



SX System – first choice system for parting off.



M1 – first choice chipbreaker for parting off.

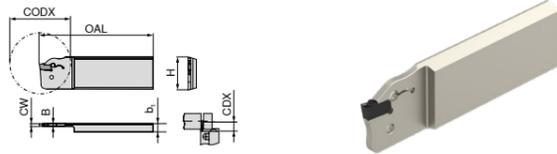


TX System – first choice grooving system for all materials and applications.



MonoClamp – Radial Blade SX reinforced

CERATIZIT \ Performance



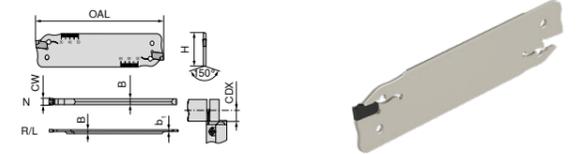
Illustrations show right-hand versions

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

1) can be used in both directions

MonoClamp – Radial Blade SX Standard

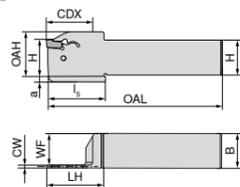
CERATIZIT \ Performance



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

MonoClamp – Radial Monoholder SX

CERATIZIT \ Performance

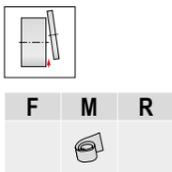


Illustrations show right-hand versions

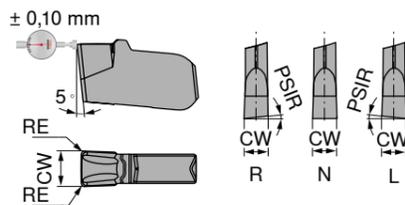
ISO designation	H	B	CW	WF	OAL	LH	I _s	OAH	CDX	a	Left-hand		Right-hand	
											70 846 ...	PG 2C/71	70 846 ...	PG 2C/71
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	£	£	£	£
E20 R/L 0026-2020K-K-SX3	20	20	3	18.75	125	32	33	31	26	5	32001	136.58 45.00	32000	136.58 45.00
E16 R/L 0026-1616K-K-SX2	16	16	2	15.20	125	32	33	26	26	4	21601	116.37 38.00	21600	116.37 38.00
E16 R/L 0026-1616K-K-SX3	16	16	3	14.75	125	32	33	26	26	4	31601	116.37 38.00	31600	116.37 38.00
E20 R/L 0026-2020K-K-SX2	20	20	2	19.20	125	32	33	31	26	5	22001	136.58 45.00	22000	136.58 45.00
E20 R/L 0033-2020K-K-SX4	20	20	4	18.30	125	39	40	32	33	5	42001	136.58 45.00	42000	136.58 45.00
E25 R/L 0026-2525M-K-SX3	25	25	3	23.75	150	33		31	26		32501	144.87 48.00	32500	144.87 48.00
E25 R/L 0033-2525M-K-SX4	25	25	4	23.30	150	41	42	37	33	5	42501	144.87 48.00	42500	144.87 48.00

Insert SX

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



CERATIZIT \ Performance



Designation	IH	CW _{+/-0.05}	70 342 ...	PG 1C/72
		mm	£	£
SX E2.00 L 6	L	2	612	13.94 10.46
SX E3.00 L 6	L	3	613	14.83 11.12
SX E4.00 L 6	L	4	614	15.65 11.74
SX E2.00 N 0.20	N	2	622	14.83 10.97
SX E3.00 N 0.20	N	3	623	15.66 11.67
SX E4.00 N 0.30	N	4	624	16.42 12.32
SX E2.00 R 6	R	2	602	13.94 10.46
SX E3.00 R 6	R	3	603	14.83 11.12
SX E4.00 R 6	R	4	604	15.65 11.74

P	●
M	●
K	●
N	○
S	●
H	●
O	○

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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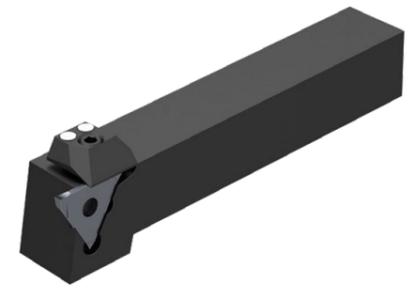
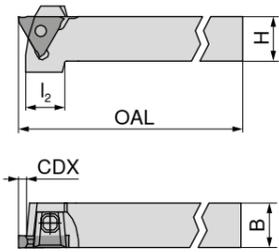


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MonoClamp – Radial/Axial TX Grooving Holder 0°, 6 mm cutting depth

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

CERATIZIT \ Performance



Illustrations show right-hand versions

ISO designation	H mm	B ± 0.1 mm	OAL mm	l_2 mm	CDX mm	for grooving inserts
R 207.1212.1	12	12	100	24	4	TX R/N/L ...1
R 207.1616.1	16	16	125	22	4	TX R/N/L ...1
R 207.2020.1	20	20	125	21	4	TX R/N/L ...1
R 207.2525.1	25	25	150		4	TX R/N/L ...1
R 207.1212.2	12	12	100	24	6	TX R/N/L ...2
R 207.1616.2	16	16	125	22	6	TX R/N/L ...2
R 207.2020.2	20	20	125	21	6	TX R/N/L ...2
R 207.2525.2	25	25	150		6	TX R/N/L ...2
R 207.1212.3	12	12	100	24	6	TX R/N/L ...3
R 207.1616.3	16	16	125	22	6	TX R/N/L ...3
R 207.2020.3	20	20	125	21	6	TX R/N/L ...3
R 207.2525.3	25	25	150		6	TX R/N/L ...3
R 207.3232.3	32	32	170		6	TX R/N/L ...3

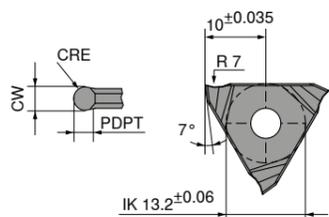
Right-hand

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

Radial TX insert for corner recessing

- ▲ Full radius for cutting width 0.5–5.0 mm

CERATIZIT \ Performance



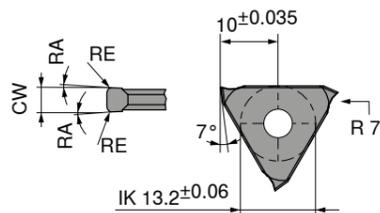
Neutral

Designation	CRE mm	CW ± 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	59.83	32.47
206	62.42	34.33

TX insert for fine and copy turning

CERATIZIT \ Performance



Neutral

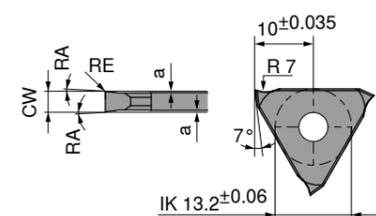
Designation	CW ± 0.03 mm
TX N 0150.02.1	1.5
TX N 0200.02.1	2.0
TX N 0200.04.1	2.0
TX N 0300.06.2	3.0
TX N 0300.02.2	3.0
TX N 0300.08.2	3.0
TX N 0400.08.3	4.0
TX N 0400.02.3	4.0
TX N 0400.12.3	4.0

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

TX insert for circlip grooves

- ▲ For circlip grooves according to DIN 471 / 472

CERATIZIT \ Performance



Neutral

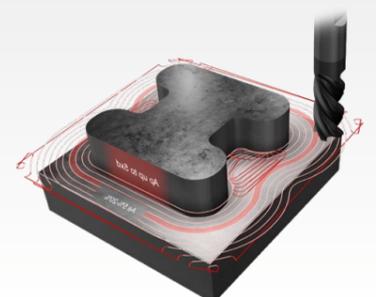
Designation	CW ± 0.05 mm	a ± 0.02 mm
TX N 0050.00.1	0.57	0.07
TX N 0060.00.1	0.67	0.07
TX N 0070.00.1	0.77	0.08
TX N 0080.00.1	0.87	0.08
TX N 0090.00.1	0.97	0.08
TX N 0100.00.1	1.07	0.09
TX N 0110.00.1	1.24	0.15
TX N 0130.00.1	1.44	0.15
TX N 0160.00.1	1.74	0.20
TX N 0185.00.1	1.99	0.20
TX N 0215.00.2	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	38.80	21.39
206	38.80	21.39
208	38.80	21.39
210	38.80	21.39
212	38.80	21.39
214	38.80	21.39
216	38.80	21.39
218	38.80	21.39
220	38.80	21.39
222	38.80	21.39
224	38.80	21.39
226	38.80	21.39
228	44.37	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.

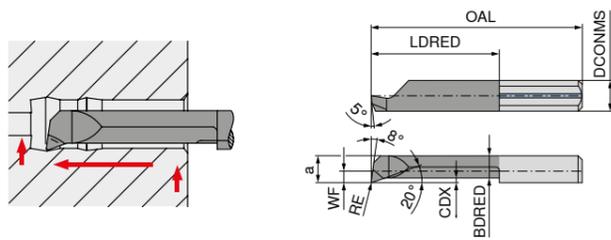


UltraMini – Inserts for internal turning and profiling

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance



TiN



Right-hand

73 004 ... PG Y5

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

	£	£
520	58.27	32.05
521	63.52	34.94
522	62.98	34.64
531	66.98	36.84
530	73.48	40.41
532	79.37	40.35
541	66.04	36.32
540	66.04	36.32
542	70.20	38.71
545	82.51	45.38
546	90.37	49.70
551	62.40	34.37
552	66.57	36.61
550	68.25	37.59
553	77.20	42.46
554	84.88	46.68
556	98.52	54.19
561	65.34	35.94
560	71.14	39.13
562	75.65	41.61
563	85.97	47.28
564	98.52	54.19
565	112.04	61.62
572	72.50	39.92
573	80.75	49.36
574	91.01	50.06
575	104.04	57.72
576	116.80	64.29
577	124.60	66.88
578	133.25	73.34

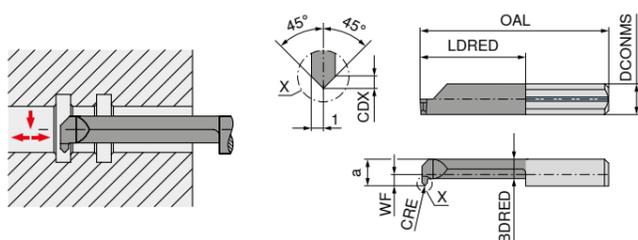
P	●
M	●
K	●
N	●
S	○
H	○
O	●

UltraMini – Inserts for internal turning and chamfering

▲ CDX = Maximum depth of cut when turning outwards



WNT \ Performance



TiN



Right-hand

73 006 ... PG Y5

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

	£	£
551	50.70	32.84
550	66.45	36.55
570	60.33	38.13

P	●
M	●
K	●
N	●
S	○
H	○
O	●



Stock around the clock!



Tool Supply 24/7

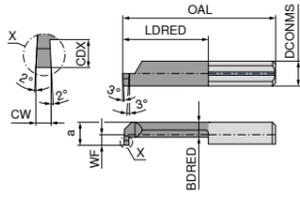
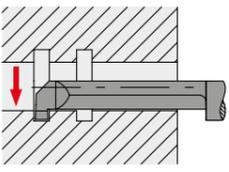
If you install a Tool-O-Mat it means that we take on all the procurement and stocking costs for you. You have 100 % availability of all tools at all times and without expenditure.



UltraMini – Inserts for Internal Grooving



WNT \ Performance



ISO designation	DCONMS ₁₆	WF	DMIN	a	OAL	LDRED	CDX	BDRED	CW
	mm	mm	mm	mm	mm	mm	mm	mm	mm
R 004.0100-10	4	1.5	4.0	3.5	24	10	0.8	2.4	1.0
R 004.0100-16	4	1.5	4.0	3.5	30	16	0.8	2.4	1.0
R 004.0100-20	4	1.5	4.0	3.5	34	20	0.8	2.4	1.0
R 005.0100-10	5	1.9	5.0	4.4	25	10	1.0	3.3	1.0
R 005.0150-10	5	1.9	5.0	4.4	25	10	1.0	3.3	1.5
R 005.0200-10	5	1.9	5.0	4.4	25	10	1.0	3.3	2.0
R 005.0100-15	5	1.9	5.0	4.4	30	15	1.0	3.3	1.0
R 005.0150-15	5	1.9	5.0	4.4	30	15	1.0	3.3	1.5
R 005.0200-15	5	1.9	5.0	4.4	30	15	1.0	3.3	2.0
R 005.0150-20	5	1.9	5.0	4.4	35	20	1.0	3.3	1.5
R 005.0100-20	5	1.9	5.0	4.4	35	20	1.0	3.3	1.0
R 005.0200-20	5	1.9	5.0	4.4	35	20	1.0	3.3	2.0
R 005.0100-25	5	1.9	5.0	4.4	40	25	1.0	3.3	1.0
R 005.0150-25	5	1.9	5.0	4.4	40	25	1.0	3.3	1.5
R 005.0200-25	5	1.9	5.0	4.4	40	25	1.0	3.3	2.0
R 005.0100-30	5	1.9	5.0	4.4	45	30	1.0	3.3	1.0
R 005.0150-30	5	1.9	5.0	4.4	45	30	1.0	3.3	1.5
R 005.0200-30	5	1.9	5.0	4.4	45	30	1.0	3.3	2.0
R 005.0100-35	5	1.9	5.0	4.4	50	35	1.0	3.3	1.0
R 006.0100-10	6	2.3	6.0	5.3	25	10	1.8	3.4	1.0
R 006.0150-10	6	2.3	6.0	5.3	25	10	1.8	3.4	1.5
R 006.0200-10	6	2.3	6.0	5.3	25	10	1.8	3.4	2.0
R 006.0100-15	6	2.3	6.0	5.3	30	15	1.8	3.4	1.0
R 006.0150-15	6	2.3	6.0	5.3	30	15	1.8	3.4	1.5
R 006.0200-15	6	2.3	6.0	5.3	30	15	1.8	3.4	2.0
R 006.0150-22	6	2.3	6.0	5.3	37	22	1.8	3.4	1.5
R 006.0100-22	6	2.3	6.0	5.3	37	22	1.8	3.4	1.0
R 006.0200-22	6	2.3	6.0	5.3	37	22	1.8	3.4	2.0
R 006.0100-25	6	2.3	6.0	5.3	40	25	1.8	3.4	1.0
R 006.0150-25	6	2.3	6.0	5.3	40	25	1.8	3.4	1.5
R 006.0200-25	6	2.3	6.0	5.3	40	25	1.8	3.4	2.0
R 006.0150-30	6	2.3	6.0	5.3	45	30	1.8	3.4	1.5
R 006.0100-30	6	2.3	6.0	5.3	45	30	1.8	3.4	1.0
R 006.0200-30	6	2.3	6.0	5.3	45	30	1.8	3.4	2.0
R 006.0150-35	6	2.3	6.0	5.3	50	35	1.8	3.4	1.5
R 006.0100-35	6	2.3	6.0	5.3	50	35	1.8	3.4	1.0
R 006.0100-42	6	2.3	6.0	5.3	57	42	1.8	3.4	1.0
R 007.0200-10	7	2.7	6.8	6.3	25	10	2.5	3.8	2.0
R 007.0100-10	7	2.7	6.8	6.3	25	10	2.5	3.8	1.0
R 007.0150-10	7	2.7	6.8	6.3	25	10	2.5	3.8	1.5
R 007.0150-15	7	2.7	6.8	6.3	30	15	2.5	3.8	1.5
R 007.0100-15	7	2.7	6.8	6.3	30	15	2.5	3.8	1.0
R 007.0200-15	7	2.7	6.8	6.3	30	15	2.5	3.8	2.0
R 007.0200-22	7	2.7	6.8	6.3	37	22	2.5	3.8	2.0
R 007.0100-22	7	2.7	6.8	6.3	37	22	2.5	3.8	1.0
R 007.0150-22	7	2.7	6.8	6.3	37	22	2.5	3.8	1.5
R 007.0150-25	7	2.7	6.8	6.3	40	25	2.5	3.8	1.5
R 007.0100-25	7	2.7	6.8	6.3	40	25	2.5	3.8	1.0
R 007.0200-25	7	2.7	6.8	6.3	40	25	2.5	3.8	2.0
R 007.0150-30	7	2.7	6.8	6.3	45	30	2.5	3.8	1.5
R 007.0100-30	7	2.7	6.8	6.3	45	30	2.5	3.8	1.0
R 007.0200-30	7	2.7	6.8	6.3	45	30	2.5	3.8	2.0
R 007.0100-35	7	2.7	7.0	6.3	50	35	2.5	3.8	1.0
R 007.0150-35	7	2.7	7.0	6.3	50	35	2.5	3.8	1.5
R 007.0200-35	7	2.7	7.0	6.3	50	35	2.5	3.8	2.0
R 007.0150-40	7	2.7	7.0	6.3	55	40	2.5	3.8	1.5
R 007.0100-40	7	2.7	7.0	6.3	55	40	2.5	3.8	1.0
R 007.0100-45	7	2.7	7.0	6.3	60	45	2.5	3.8	1.0
R 007.0100-50	7	2.7	7.0	6.3	65	50	2.5	3.8	1.0

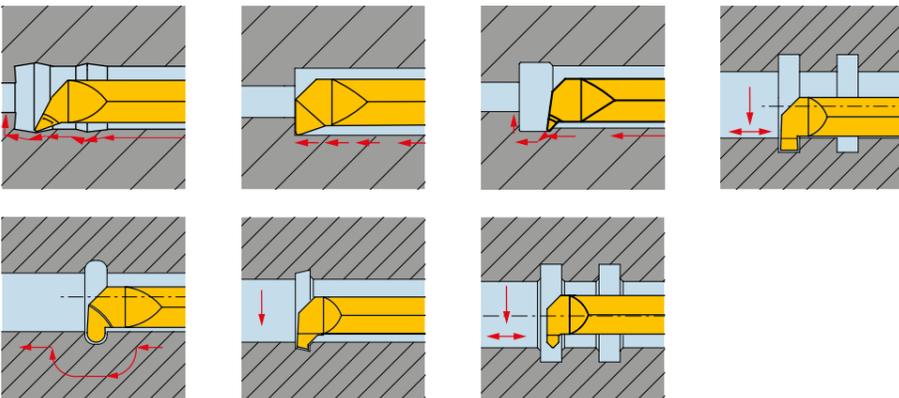
Right-hand

73 002 ...	PG Y5	£	£
540		58.83	32.36
541		71.85	39.52
542		77.44	42.59
650		57.88	31.83
654		59.82	32.96
658		59.82	32.96
651		67.80	37.29
655		67.80	37.29
659		67.80	37.29
552		76.76	42.22
551		76.76	42.22
553		76.76	42.22
652		85.05	46.78
656		85.05	46.78
750		85.60	47.08
653		94.66	52.06
657		94.66	52.06
751		95.38	52.46
680		103.32	56.83
660		58.85	32.42
664		58.45	31.05
668		58.95	32.42
661		68.35	37.59
665		68.35	37.59
669		68.35	37.59
562		77.38	42.52
561		77.38	42.52
563		77.38	42.52
662		85.68	47.08
666		85.68	47.08
760		85.68	47.08
667		95.38	52.46
663		95.38	52.46
761		95.38	52.46
684		103.32	56.83
682		103.32	56.83
685		116.81	63.81
670		58.82	32.96
570		58.82	32.96
575		58.82	32.96
576		68.88	37.99
571		68.88	37.99
671		68.88	37.99
672		78.96	43.40
572		78.96	43.40
577		78.96	43.40
578		86.54	47.58
573		86.54	47.58
673		86.54	47.58
579		98.89	51.64
574		97.00	53.35
674		94.04	50.06
688		106.23	58.43
690		106.23	58.43
692		106.23	58.43
702		117.88	64.79
700		117.88	64.79
712		127.86	70.38
714		136.84	75.25

P	●
M	●
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)

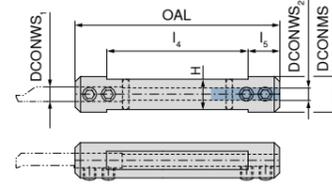
Cutting Data	56-59	Broaching – Recommendations for Correct Use	60
Symbol explanation, coatings and thread types	61		

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

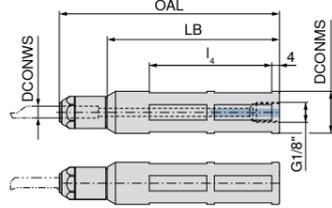


Designation	DCONWS ₁	DCONWS ₂	DCONMS	OAL	l ₄	l ₅	H	73 080 ...	PG Y5	£	£
	mm	mm	mm	mm	mm	mm	mm				
645.0012-D	4	5	12	75	55	10	10.3	163		248.68	120.82
645.0016-D	4	5	16	75	55	10	14.0	164		238.74	126.91
645.0020-D	4	5	20	90	70	10	18.0	165		248.47	136.66
676.0016-D	6	7	16	75	55	10	14.0	166		238.74	126.91
676.0020-D	6	7	20	90	70	10	18.0	167		248.47	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 ₁₆	OAL	LB	l ₄	73 089 ...	PG Y5	£	£
	mm	mm	mm	mm	mm				
UM600H.0012.4	4	12.00	115	90	64	124		414.67	228.07
UM600H.0016.4	4	16.00	115	90	64	164		376.24	206.92
UM600H.001905.4	4	19.05	115	90	64	194		403.69	222.03
UM600H.0020.4	4	20.00	115	90	64	204		398.20	219.01
UM600H.0022.4	4	22.00	115	90	64	224		405.86	222.78
UM600H.0025.4	4	25.00	115	90	64	254		413.38	227.32
UM600H.00254.4	4	25.40	115	90	64	264		421.54	231.85
UM600H.0028.4	4	28.00	115	90	64	284		421.54	231.85
UM600H.0012.5	5	12.00	115	90	64	125		414.67	228.07
UM600H.0016.5	5	16.00	115	90	64	165		376.24	206.92
UM600H.001905.5	5	19.05	115	90	64	195		403.69	222.03
UM600H.0020.5	5	20.00	115	90	64	205		398.20	219.01
UM600H.0022.5	5	22.00	115	90	64	225		405.86	222.78
UM600H.0025.5	5	25.00	115	90	64	255		413.38	227.32
UM600H.00254.5	5	25.40	115	90	64	265		421.54	231.85
UM600H.0028.5	5	28.00	115	90	64	285		421.54	231.85
UM600H.0012.6	6	12.00	115	90	64	126		414.67	228.07
UM600H.0016.6	6	16.00	115	90	64	166		376.24	206.92
UM600H.001905.6	6	19.05	115	90	64	196		403.69	222.03
UM600H.0020.6									

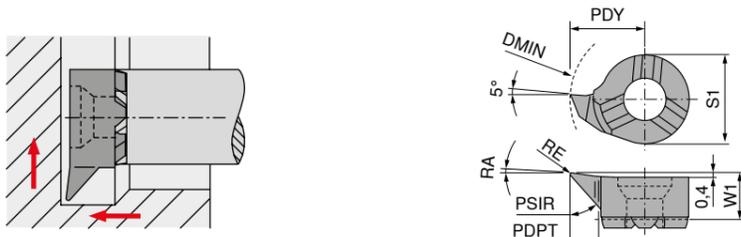
MiniCut – Internal undercut insert

▲ CDX = a_{pmax}

WNT \ Performance



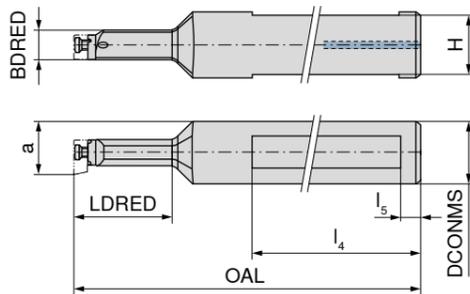
CWX500



Size	ISO designation	DMIN mm	PDPT mm	W1 mm	PDY mm	S1 mm	RE mm	CDX mm	PSIR °	RA °	Right-hand	
											73 326 ...	PG Y5
08	8,00. R.30°1,0	7.8	1.0	3.5	4.65	6	0.2	0.4	30	3	010	£ 29.89
	8,00. R.47°1,2	7.8	1.2	3.5	4.65	6	0.2	0.4	47	3	012	£ 25.97
11	11,00. R.30°2,3	11.0	2.3	4.2	6.70	8	0.2	0.6	30	3	423	£ 29.19
	11,00. R.47°2,3	11.0	2.3	4.2	6.70	8	0.2	0.6	47	3	323	£ 25.28
14	13,70. R.47°3,0	13.7	3.0	5.3	8.70	9	0.2	0.8	47	3	530	£ 25.97
	13,70. R.30°4,0	13.7	4.0	5.3	8.70	9	0.2	0.8	30	3	540	£ 29.89

MiniCut – Steel Tool holder

WNT \ Performance



Designation	a mm	DCONMS _{r7} mm	OAL mm	l ₄ mm	LDRED mm	BDRED mm	H mm	l ₅ mm	73 522 ...	
									PG Y5	£
8,00/16.N.12.1,0	7.8	16	80	60	12	15.0	15.0	5	012	£ 133.75
8,00/16.N.22.1,0	7.8	16	90	60	22	7.0	15.0	5	122	£ 153.48
11,00/16.N.16.2,3	10.7	16	97	60	16	14.5	14.5	5	016	£ 133.75
11,00/16.N.29.2,3	10.7	16	110	60	29	9.5	14.5	5	129	£ 153.48
14,00/16.N.18.4,0	13.8	16	100	60	18	11.0	14.5	5	018	£ 153.48
14,00/16.N.38.4,0	13.8	16	120	60	38	11.0	14.5	5	138	£ 153.48

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

Latest Dragonskin coating

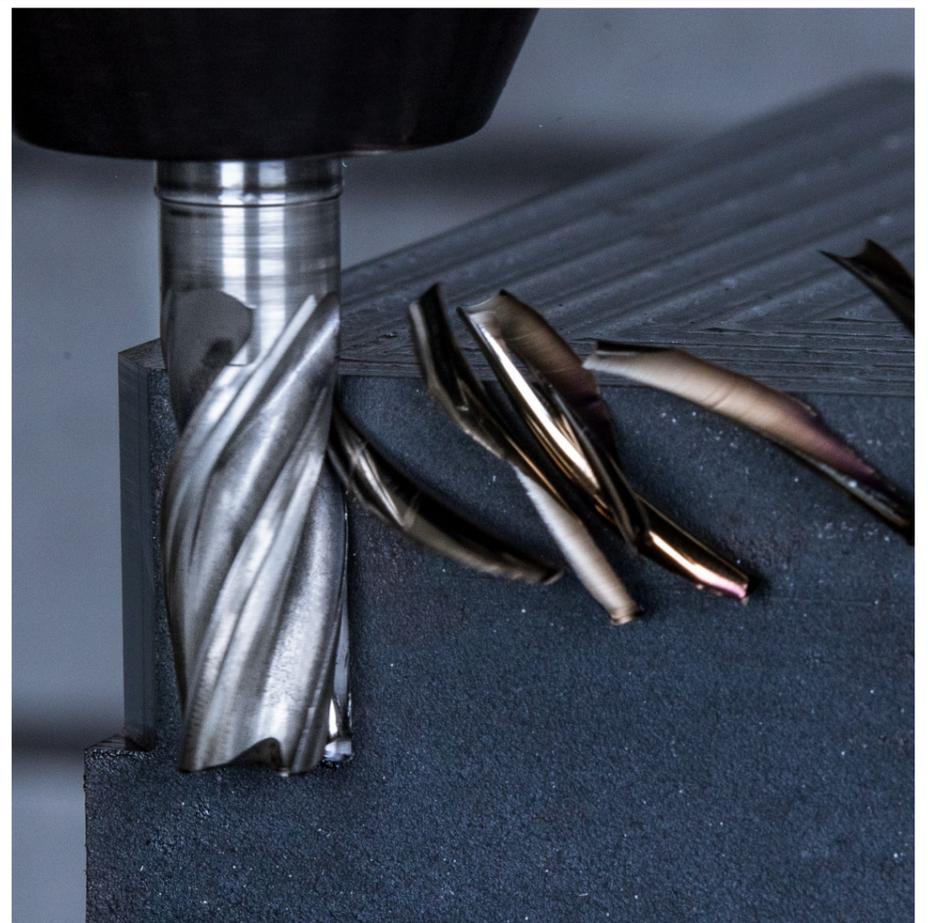
- ▲ Processing of almost all materials
- ▲ Increased temperature resistance
- ▲ Wet and dry machining

Improved chip clearance

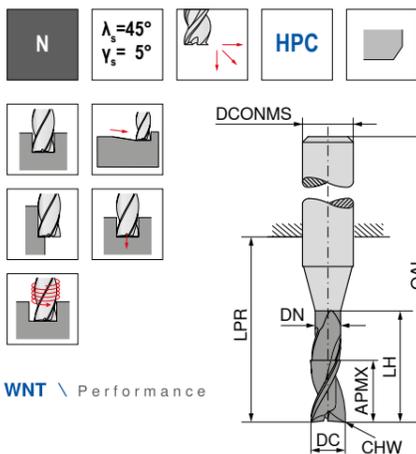
- ▲ Smoother processing
- ▲ Lower forces during chip formation
- ▲ Reduced heat generation

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

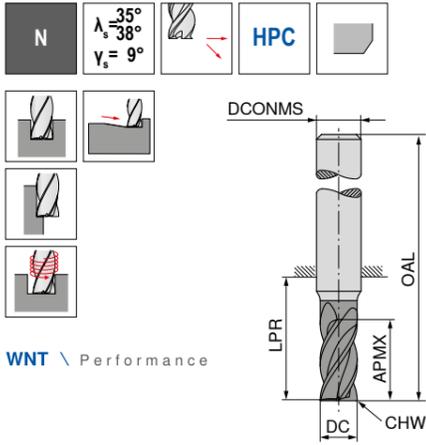
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K	•	•	•
N	○	○	○
S	•	•	•
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~DIN 6527	~DIN 6527	~DIN 6527
PG V0/5A	PG V0/5A	PG V0/5A
£	£	£
50 966 ...	50 966 ...	50 966 ...
03200	76.22 53.35	
03700	76.22 53.35	
04100	73.50 51.45	
04200	73.50 51.45	04400 77.40 54.24
04700	76.22 53.35	
05100	73.50 51.45	
05200	73.50 51.45	05400 77.40 54.24
05700	79.99 55.99	
06100	76.43 53.50	
06200	77.35 54.15	06400 85.94 60.16
06700	92.99 65.09	
07200	92.99 65.09	
07700	92.99 65.09	
08100	86.84 60.79	
08200	90.30 63.21	08400 96.54 67.58
08700	154.97 108.48	
09200	154.97 108.48	
09700	154.97 108.48	
10100	137.28 96.10	
10200	152.13 106.49	10400 171.86 120.30
12100	192.40 134.74	
12200	206.02 144.21	12400 233.25 163.28
14100	237.72 166.40	
14200	271.72 190.20	14400 302.10 211.47
16100	287.74 201.42	
16200	461.86 322.74	16400 466.19 326.33
18100	397.04 277.91	
18200	475.27 332.69	18400 601.97 420.75
20100	486.50 340.55	
20200	554.54 388.16	20400 694.90 485.80



SilverLine – End milling cutter



WNT \ Performance



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

50 972 ...	PG V0/5A		50 973 ...	PG V0/5A		50 972 ...	PG V0/5A		50 973 ...	PG V0/5A	
	£	£		£	£		£	£			
03100	63.07	44.15	03100	63.07	44.15	03200	63.07	44.15	03200	63.07	44.15
03600	63.07	44.15	03600	63.07	44.15	03700	63.07	44.15	03700	63.07	44.15
04100	63.07	44.15	04100	63.07	44.15	04200	63.07	44.15	04200	63.07	44.15
04600	64.39	45.07	04600	64.39	45.07	04700	64.39	45.07	04700	64.39	45.07
05100	64.39	45.07	05100	64.39	45.07	05200	64.39	45.07	05200	64.39	45.07
05600	62.29	43.60	05600	62.29	43.60	05700	62.29	43.60	05700	62.29	43.60
06100	62.29	43.60	06100	62.29	43.60	06200	62.29	43.60	06200	62.29	43.60
07100	82.82	57.97	07100	82.82	57.97	07200	82.82	57.97	07200	82.82	57.97
08100	82.82	57.97	08100	82.82	57.97	08200	82.82	57.97	08200	82.82	57.97
09100	108.10	75.67	09100	108.10	75.67	09200	108.10	75.67	09200	108.10	75.67
10100	108.10	75.67	10100	108.10	75.67	10200	108.10	75.67	10200	108.10	75.67
11100	170.86	119.60	11100	170.86	119.60	11200	170.86	119.60	11200	170.86	119.60
12100	170.86	119.60	12100	170.86	119.60	12200	170.86	119.60	12200	170.86	119.60
14100	249.57	153.70	14100	249.57	153.70	14200	249.57	153.70	14200	249.57	153.70
15100	271.23	189.86	15100	271.23	189.86	15200	271.23	189.86	15200	271.23	189.86
16100	271.23	189.86	16100	271.23	189.86	16200	271.23	189.86	16200	271.23	189.86
17100	368.80	258.16	17100	368.80	258.16	17200	368.80	258.16	17200	368.80	258.16
18100	368.80	258.16	18100	368.80	258.16	18200	368.80	258.16	18200	368.80	258.16
19100	418.48	292.94	19100	418.48	292.94	19200	418.48	292.94	19200	418.48	292.94
20100	418.48	292.94	20100	418.48	292.94	20200	418.48	292.94	20200	418.48	292.94

P	•	•	•	•
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N	○	○	○	○
S	•	•	•	•
H				
O				

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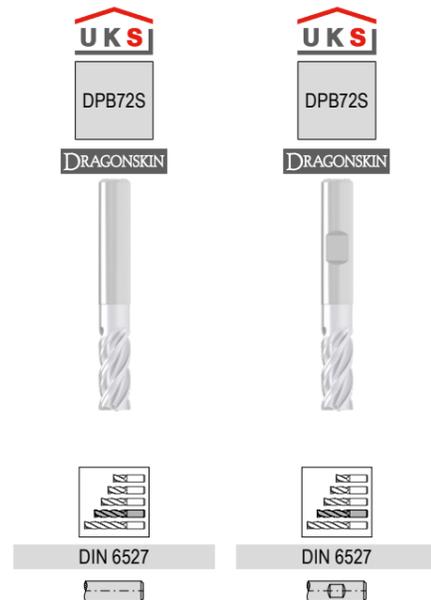
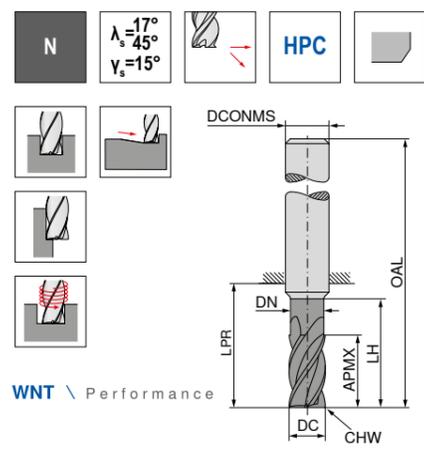
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SilverLine – End milling cutter

▲ Especially for high-volume milling

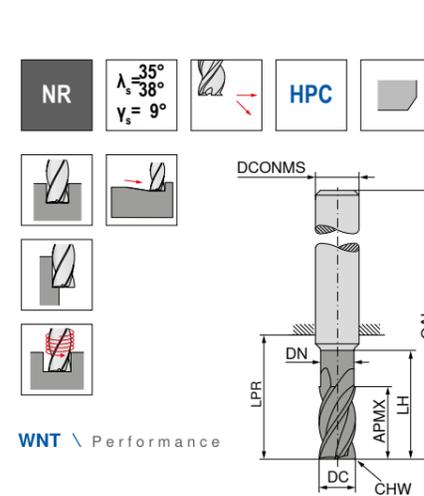


DC _{r8} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 976 ... PG V0/5A		50 977 ... PG V0/5A			
									£	£	£	£		
3	8	2.8	13	21	57	6	0.1	4	03200	88.00	61.66	03200	88.00	61.66
4	11	3.8	17	21	57	6	0.1	4	04200	88.00	61.66	04200	88.00	61.66
5	13	4.8	19	21	57	6	0.1	4	05200	88.00	61.66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

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

SilverLine – Rough milling cutter

▲ With roughing profile



DC _{r8} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	CHW mm	ZEFP	50 979 ... PG V0/5A		
									£	£	
3.0	8	2.8	13	21	57	6	0.1	4	03200	181.60	127.12
3.5	11	3.3	17	21	57	6	0.1	4	03700	181.60	127.12
4.0	11	3.8	17	21	57	6	0.1	4	04200	181.60	127.12
4.5	13	4.3	19	21	57	6	0.1	4	04700	181.60	127.12
5.0	13	4.8	19	21	57	6	0.1	4	05200	181.60	127.12
5.5	13	5.3	19	21	57	6	0.1	4	05700	181.60	127.12
6.0	13	5.8	19	21	57	6	0.1	4	06200	181.60	127.12
7.0	21	6.7	25	27	63	8	0.2	4	07200	195.62	136.93
8.0	21	7.7	25	27	63	8	0.2	4	08200	195.62	136.93
9.0	22	8.7	30	32	72	10	0.2	4	09200	205.52	143.86
10.0	22	9.7	30	32	72	10	0.2	4	10200	205.52	143.86
11.0	26	10.6	36	38	83	12	0.3	4	11200	206.92	200.84
12.0	26	11.6	36	38	83	12	0.3	4	12200	206.92	200.84
14.0	26	13.6	36	38	83	14	0.3	4	14200	410.72	287.50
15.0	36	14.5	42	44	92	16	0.3	4	15200	410.72	287.50
16.0	36	15.5	42	44	92	16	0.3	4	16200	410.72	287.50
17.0	36	16.5	42	44	92	18	0.3	4	17200	480.72	336.50
18.0	36	17.5	42	44	92	18	0.3	4	18200	480.72	336.50
19.0	41	18.5	52	54	104	20	0.3	4	19200	646.95	452.87
20.0	41	19.5	52	54	104	20	0.3	4	20200	646.95	452.87

P	●
M	●
K	●
N	○
S	●
H	●
O	●



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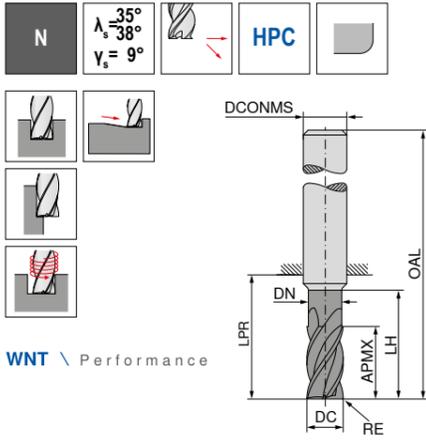
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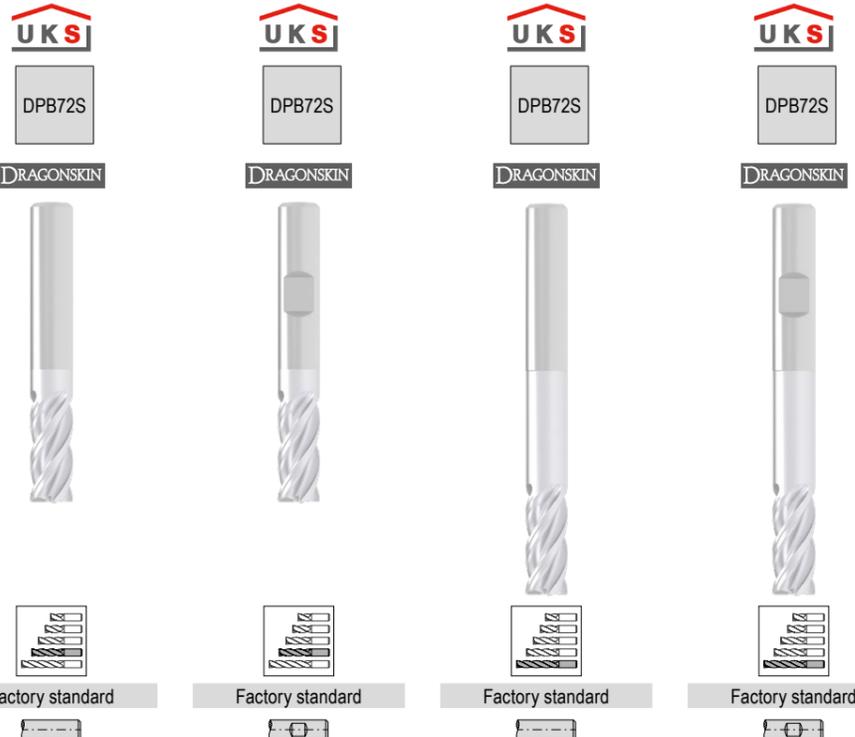
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SilverLine – End milling cutter with corner radius

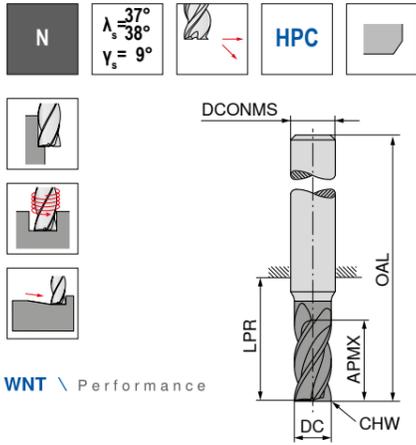


WNT \ Performance

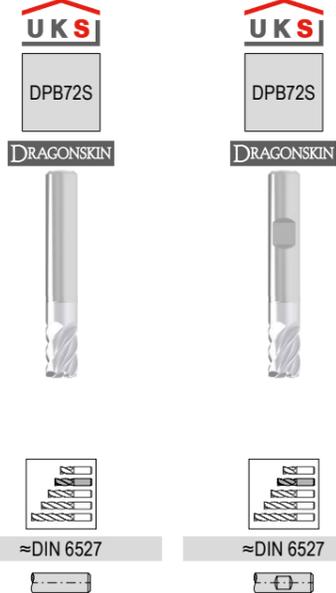


DC	RE	APMX	DN	LH	LPR	OAL	DCONMS	ZEFP	50 970 ... PG V0/5A		50 971 ... PG V0/5A		50 970 ... PG V0/5A		50 971 ... PG V0/5A	
									£	£	£	£	£	£	£	£
3	0.10	8.0	2.8	13	21	57	6	4	03201	85.04	59.51	03201	85.04	59.51		
3	0.40	8.0	2.8	13	21	57	6	4	03204	85.04	59.51	03204	85.04	59.51		
3	0.50	8.0	2.8	13	21	57	6	4	03205	85.04	59.51	03205	85.04	59.51		
3	1.00	8.0	2.8	13	21	57	6	4	03210	85.04	59.51	03210	85.04	59.51		
3	0.50	6.5	2.8	15	22	58	6	4								
3	0.30	6.5	2.8	15	22	58	6	4								
3	0.80	6.5	2.8	15	22	58	6	4								
4	0.40	11.0	3.8	17	21	57	6	4	04204	95.04	59.51	04204	95.04	59.51		
4	0.10	11.0	3.8	17	21	57	6	4	04201	95.04	59.51	04201	95.04	59.51		
4	0.50	11.0	3.8	17	21	57	6	4	04205	95.04	59.51	04205	95.04	59.51		
4	1.00	11.0	3.8	17	21	57	6	4	04210	95.04	59.51	04210	95.04	59.51		
4	0.50	8.5	3.8	20	26	62	6	4								
4	0.40	8.5	3.8	20	26	62	6	4								
4	0.80	8.5	3.8	20	26	62	6	4								
5	1.00	13.0	4.8	19	21	57	6	4	05210	86.39	60.47	05210	86.39	60.47		
5	0.10	13.0	4.8	19	21	57	6	4	05201	86.39	60.47	05201	86.39	60.47		
5	0.50	13.0	4.8	19	21	57	6	4	05205	86.39	60.47	05205	86.39	60.47		
5	0.80	10.5	4.8	25	34	70	6	4								
5	0.50	10.5	4.8	25	34	70	6	4								
6	1.00	13.0	5.8	19	21	57	6	4	06210	84.39	59.01	06210	84.39	59.01		
6	0.10	13.0	5.8	19	21	57	6	4	06201	84.39	59.01	06201	84.39	59.01		
6	0.50	13.0	5.8	19	21	57	6	4	06205	84.39	59.01	06205	84.39	59.01		
6	1.50	13.0	5.8	19	21	57	6	4	06215	84.39	59.01	06215	84.39	59.01		
6	0.80	13.0	5.8	30	34	70	6	4								
6	0.60	13.0	5.8	30	34	70	6	4								
6	1.00	13.0	5.8	30	34	70	6	4								
8	0.50	21.0	7.7	25	27	63	8	4	08205	105.69	73.98	08205	105.69	73.98		
8	0.15	21.0	7.7	25	27	63	8	4	08202	105.69	73.98	08202	105.69	73.98		
8	1.00	21.0	7.7	25	27	63	8	4	08210	105.69	73.98	08210	105.69	73.98		
8	1.50	21.0	7.7	25	27	63	8	4	08215	105.69	73.98	08215	105.69	73.98		
8	2.00	21.0	7.7	25	27	63	8	4	08220	105.69	73.98	08220	105.69	73.98		
8	1.50	17.0	7.7	40	44	80	8	4								
8	0.80	17.0	7.7	40	44	80	8	4								
8	1.00	17.0	7.7	40	44	80	8	4								
8	2.00	17.0	7.7	40	44	80	8	4								
10	0.15	22.0	9.7	30	32	72	10	4	10202	132.07	92.45	10202	132.07	92.45		
10	0.50	22.0	9.7	30	32	72	10	4	10205	132.07	92.45	10205	132.07	92.45		
10	1.00	22.0	9.7	30	32	72	10	4	10210	132.07	92.45	10210	132.07	92.45		
10	1.50	22.0	9.7	30	32	72	10	4	10215	132.07	92.45	10215	132.07	92.45		
10	2.00	22.0	9.7	30	32	72	10	4	10220	132.07	92.45	10220	132.07	92.45		
10	1.50	21.0	9.7	50	54	94	10	4								
10	0.50	21.0	9.7	50	54	94	10	4								
10	1.00	21.0	9.7	50	54	94	10	4								
10	2.00	21.0	9.7	50	54	94	10	4								
12	0.20	26.0	11.6	36	38	83	12	4	12202	203.88	142.72	12202	203.88	142.72		
12	0.50	26.0	11.6	36	38	83	12	4	12205	203.88	142.72	12205	203.88	142.72		
12	1.00	26.0	11.6	36	38	83	12	4	12210	203.88	142.72	12210	203.88	142.72		
12	1.50	26.0	11.6	36	38	83	12	4	12215	203.88	142.72	12215	203.88	142.72		
12	2.00	26.0	11.6	36	38	83	12	4	12220	203.88	142.72	12220	203.88	142.72		
12	3.00	26.0	11.6	36	38	83	12	4	12230	203.88	142.72	12230	203.88	142.72		
12	4.00	26.0	11.6	36	38	83	12	4	12240	203.88	142.72	12240	203.88	142.72		
12	2.00	25.0	11.6	60	64	109	12	4								
12	0.50	25.0	11.6	60	64	109	12	4								
12	1.00	25.0	11.6	60	64	109	12	4								
12	1.50	25.0	11.6	60	64	109	12	4								
12	3.00	25.0	11.6	60	64	109	12	4								
12	4.00	25.0	11.6	60	64	109	12	4								
14	0.30	26.0	13.6	36	38	83	14	4	14203	308.37	215.86	14203	308.37	215.86		
14	1.00	26.0	13.6	36	38	83	14	4	14210	308.37	215.86	14210	308.37	215.86		
14	2.00	26.0	13.6	36	38	83	14	4	14220	308.37	215.86	14220	308.37	215.86		
14	3.00	26.0	13.6	36	38	83	14	4	14230	308.37	215.86	14230	308.37	215.86		
14	4.00	26.0	13.6	36	38	83	14	4	14240	308.37	215.86	14240	308.37	215.86		
14	3.00	29.0	13.6	70	74	119	14	4								
14	1.00	29.0	13.6	70	74	119	14	4								
14	2.00	29.0	13.6	70	74	119	14	4								
14	4.00	29.0	13.6	70	74	119	14	4								
16	1.00	36.0	15.5	42	44	92	16	4	16210	308.37	215.86	16210	308.37	215.86		
16	0.30	36.0	15.5	42	44	92	16	4	16203	308.37	215.86	16203	308.37	215.86		
16	2.00	36.0	15.5	42	44	92	16	4	16220	308.37	215.86	16220	308.37	215.86		
16	3.00	36.0	15.5	42	44	92	16	4	16230	308.37	215.86	16230	308.37	215.86		
16	4.00	36.0	15.5	42	44	92	16	4	16240	308.37	215.86	16240	308.37	215.86		
16	3.00	33.0	15.5	80	84	132	16	4								
16	1.00	33.0	15.5	80	84	132	16	4								
16	2.00	33.0	15.5	80	84	132	16	4								
16	4.00	33.0	15.5	80	84	132	16	4								
18	1.00	36.0	17.5	42	44	92	18	4	18210	410.22	287.15	18210	410.22	287.15		
18	2.00	36.0	17.5	42	44	92	18	4	18220	410.22	287.15	18220	410.22	287.15		
18	3.00	36.0	17.5	42	44	92	18	4	18230	410.22	287.15	18230	410.22	287.15		
18	4.00	36.0	17.5	42	44	92	18	4	18240	410.22	287.15	18240	410.22	287.15		
18	3.00	38.0	17.5	90	94	142	18	4								
18	1.00	38.0	17.5	90	94	142	18	4								
18	2.00	38.0	17.5	90	94	142	18	4								
18	4.00	38.0	17.5	90	94	142	18	4								
20	0.30	41.0	19.5	52	54	104	20	4	20203	461.04	323.34	20203	461.04	323.34		
20	1.00	41.0	19.5	52	54	104	20	4	20210	461.04	323.34	20210	461.04	323.34		
20	2.00	41.0	19.5	52	54	104	20	4	20220	461.04	323.34	20220	461.04	323.34		
20	3.00	41.0	19.5	52	54	104	20	4	20230	461.04	323.34	20230	461.04	323.34		
20	4.00	41.0	19.5	52	54	104	20	4	20240	461.04	323.34	20240	461.04	323.34		
20	3.00	42.0	19.5	100	104	154	20	4								
20	1.00	42.0	19.5	100	104	154	20	4								

SilverLine – End milling cutter



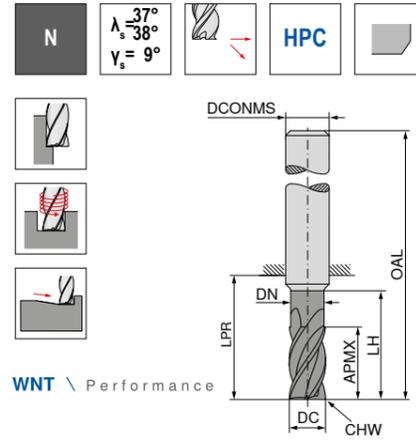
WNT \ Performance



DC _{es}	APMX	LPR	OAL	DCONMS _{h6}	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	06100	51.60 36.18
8	12	22	58	8	45	5	08100	68.78 48.09	08100	68.78 48.09
10	14	26	66	10	45	5	10100	89.65 62.76	10100	89.65 62.76
12	16	28	73	12	45	5	12100	114.72 99.20	12100	114.72 99.20
16	22	34	82	16	45	5	16100	224.66 157.43	16100	224.66 157.43
20	26	42	92	20	45	5	20100	346.92 242.84	20100	346.92 242.84

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SilverLine – End milling cutter



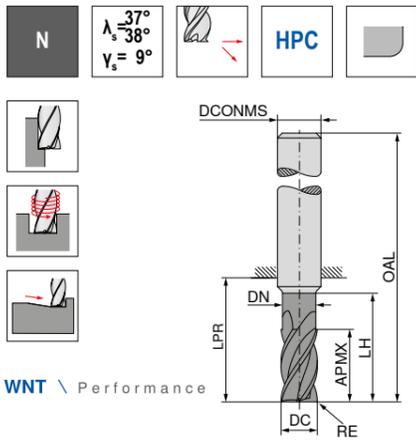
WNT \ Performance



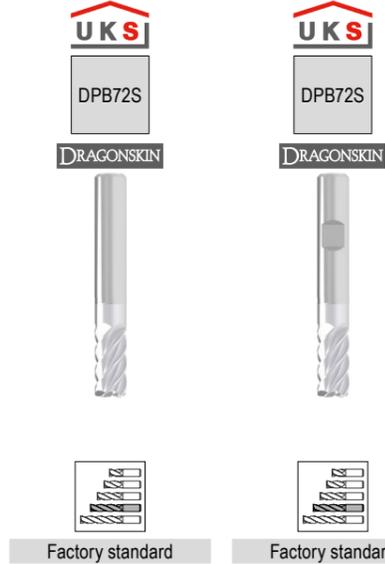
DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	α°	ZEPF	50 994 ...	PG V0/5A	50 996 ...	PG V0/5A
mm	mm	mm	mm	mm	mm	mm			£	£	£	£
6	13	5.8	19	21	57	6	45	5	06200	51.40 35.83	06200	51.40 35.83
8	21	7.7	25	27	63	8	45	5	08200	68.84 48.89	08200	68.84 48.89
10	22	9.7	30	32	72	10	45	5	10200	89.83 71.56	10200	89.83 71.56
12	26	11.6	36	38	83	12	45	5	12200	124.45 87.12	12200	124.45 87.12
16	36	15.5	42	44	92	16	45	5	16200	269.15 202.41	16200	269.15 202.41
20	41	19.5	52	54	104	20	45	5	20200	386.57 276.90	20200	386.57 276.90

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SilverLine – End milling cutter with corner radius



WNT \ Performance

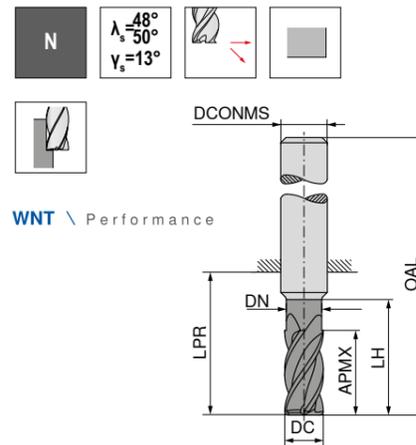


DC _{es}	RE _{±0.05}	APMX	LPR	OAL	DCONMS _{h6}	ZEPF	50 997 ...	PG V0/5A	50 998 ...	PG V0/5A
mm	mm	mm	mm	mm	mm		£	£	£	£
6	0.2	13	21	57	6	5	06202	73.65 51.56	06202	73.65 51.56
6	0.5	13	21	57	6	5	06205	73.65 51.56	06205	73.65 51.56
6	1.0	13	21	57	6	5	06210	73.65 51.56	06210	73.65 51.56
8	0.2	21	27	63	8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

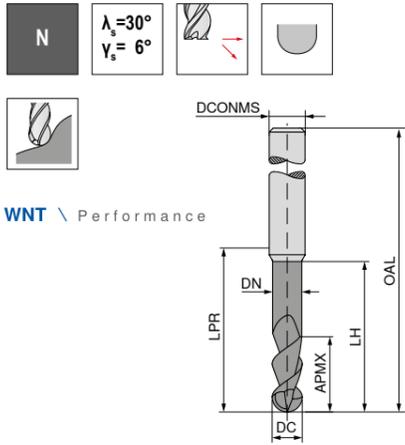


WNT \ Performance



DC _{es}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	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	93.88 65.66	06700	93.88 65.66
6	10	5.8	18	22	58	6	6	06200	93.88 65.70	06200	93.88 65.70
6	13	5.8	27	31	67	6	6	06400	127.26 89.08	06400	127.26 89.08
6	13	5.8	36	40	76	6	6	06900	158.97 111.28	06900	158.97 111.28
6	15	5.6	42	44	80	6	6	90000	127.24 89.05	90000	127.24 89.05
8	19	7.6	25	27	63	8	6	08700	107.74 75.42	08700	107.74 75.42
8	13	7.7	24	28	64	8	6	08200	107.36 75.15	08200	107.36 75.15
8	17	7.7	36	40	76	8	6	08400	157.43 110.20	08400	157.43 110.20
8	17	7.7	48	53	89	8	6	08900	156.76 137.75	08900	156.76 137.75
8	20	7.6	62	64	100	8	6	90100	157.22 110.05	90100	157.22 110.05
10	22	9.6	30	32	72	10	6	10700	184.56 129.19	10700	184.56 129.19
10	16	9.7	30	34	74	10	6	10200	185.66 129.54	10200	185.66 129.54
10	21	9.7	45	49	89	10	6	10400	235.94 165.14	10400	235.94 165.14
10	25	9.6	58	60	100	10	6	10900	235.35 164.68	10900	235.35 164.68
10	21	9.7	60	64	104	10	6	90200	294.83 206.38	90200	294.83 206.38
12	26	11.5	36	38	83	12	6	12700	250.18 175.07	12700	250.18 175.07
12	19	11.6	36	40	85	12	6	12200	250.76 175.53	12200	250.76 175.53
12	25	11.6	54	58	103	12	6	12400	265.16 255.61	12400	265.16 255.61
12	30	11.5	73	75	120	12	6	12900	264.67 255.27	12900	264.67 255.27
12	25	11.6	72	76	121	12	6	90300	256.28 319.40	90300	256.28 319.40
16	32	15.0	42	44	92	16	6	16700	466.35 326.45	16700	466.35 326.45
16	25	15.5	48	52	100	16	6	16200	466.53 326.57	16200	466.53 326.57
16	33	15.5	72	76	124	16	6	16400	649.66 449.86	16400	649.66 449.86
16	33	15.5	96	100	148	16	6	16900	669.26 562.30	16900	669.26 562.30
16	40	15.0	100	102	150	16	6	90400	642.86 449.40	90400	642.86 449.40
20	38	19.0	52	54	104	20	6	20700	674.89 470.32	20700	674.89 470.32
20	32	19.5	60	64	114	20	6	20200	672.52 470.55	20200	672.52 470.55
20	42	19.5	90	94	144	20	6	20400	885.94 619.51	20400	885.94 619.51
20	50	19.0	98	100	150	20	6	20900	884.68 619.28	20900	884.68 619.28
20	42	19.5	120	124	174	20	6	90500	1107.37 7		

SilverLine – Ball Nosed Cutter



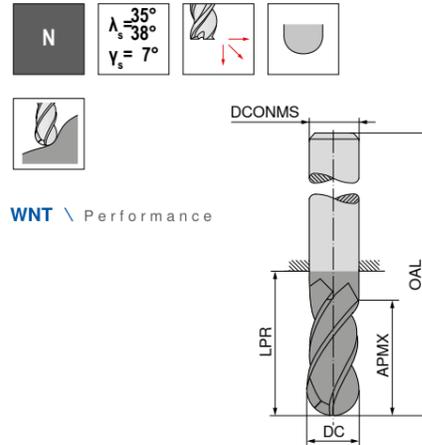
WNT \ Performance



DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	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	80.10	56.07	
3	7	3.0	8.8	24	60	6	2				03415 107.45 75.22
4	8	3.8	12.0	18	54	6	2	04120	80.10	56.07	
4	10	4.0	12.5	39	75	6	2				04420 107.45 75.22
5	9	4.8	16.0	18	54	6	2	05125	80.10	56.07	
5	12	5.0	15.0	39	75	6	2				05425 111.75 78.23
6	10	5.7	16.0	18	54	6	2	06130	80.10	56.07	
6	12	6.0	15.0	64	100	6	2				06430 129.42 90.59
7	11	6.6	20.0	22	58	8	2	07135	97.50	68.25	
8	12	7.6	20.0	22	58	8	2	08140	97.50	68.25	
8	14	8.0	17.5	64	100	8	2				08440 151.28 105.90
10	14	9.6	24.0	26	66	10	2	10150	121.02	85.34	
10	18	10.0	22.5	60	100	10	2				10450 205.69 143.98
12	16	11.5	26.0	28	73	12	2	12160	177.13	123.99	
12	22	12.0	27.5	55	100	12	2				12460 265.30 185.71
14	18	13.3	28.0	30	75	14	2	14170	205.69	143.98	
14	26	14.0	32.5	75	120	14	2				14470 423.10 296.17
16	22	15.2	32.0	34	82	16	2	16180	260.09	182.69	
16	30	16.0	37.5	102	150	16	2				16480 570.03 399.02
18	24	17.1	34.0	36	84	18	2	18190	430.03	301.02	
20	26	19.0	40.0	42	92	20	2	20110	430.03	301.02	
20	38	20.0	47.5	100	150	20	2				20410 755.11 528.79

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H	○	○
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SilverLine – Ball Nosed Cutter



WNT \ Performance

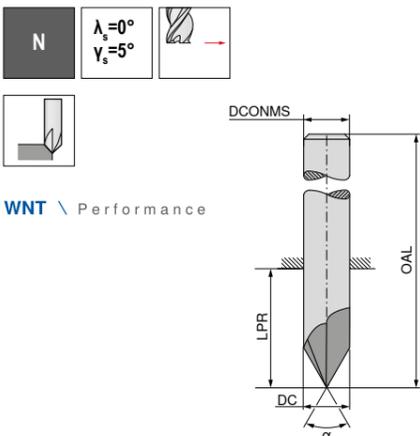


DC _{h6}	APMX	LPR	OAL	DCONMS _{h6}	ZEPF	50 990 ...	PG V0/5A
mm	mm	mm	mm	mm		£	£
4	11	21	57	6	4	04220	77.98 54.59
5	13	21	57	6	4	05225	77.98 54.59
6	13	21	57	6	4	06230	91.23 63.86
8	19	36	72	8	4	08280	119.94 79.13
10	22	32	72	10	4	10250	142.72 99.90
12	26	38	83	12	4	12260	225.84 158.09
16	32	44	92	16	4	16280	333.30 233.31
20	38	54	104	20	4	20210	482.03 338.12

P	●
M	○
K	●
N	○
S	○
H	○
O	○

SilverLine – NC deburring cutter

▲ High performance 5 flute chamfering tool



WNT \ Performance



DC _{h6}	OAL	LPR	DCONMS _{h6}	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	45.28	29.43	06000	49.77	32.35	08000	64.84	42.15
6	55	19	6	5	10000	77.89	50.11	10000	77.89	50.11	10000	77.89	50.11
8	58	22	8	5	12000	98.49	64.02	12000	98.49	64.02	12000	98.49	64.02
10	60	20	10	5	16000	153.34	99.67	16000	153.34	99.67	16000	153.34	99.67

P	●	●	●	●
M	○	○	○	○
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.

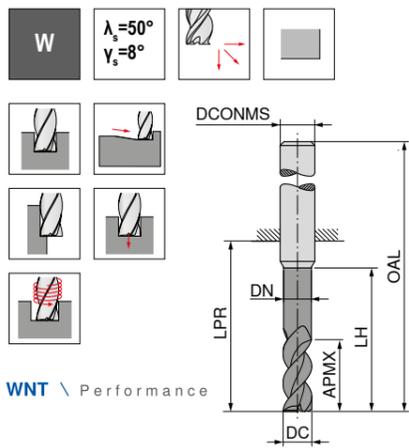
“
Our AluLine milling cutter impresses with its outstanding coating. It achieves first-rate results even in dry machining.

Product Manager CERATIZIT, Michael Wucher

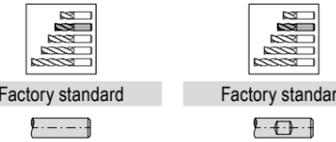
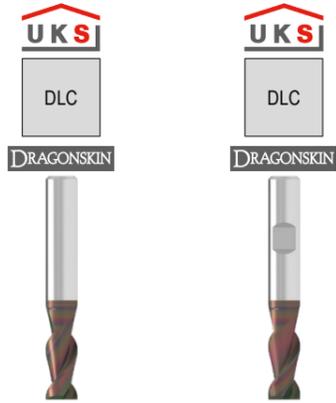
 Cutting datas can be found in our main catalogue, Chapter 14 Solid Carbide milling cutters on page 410-413

AluLine – End milling cutter

▲ With polished chip flutes



WNT \ Performance

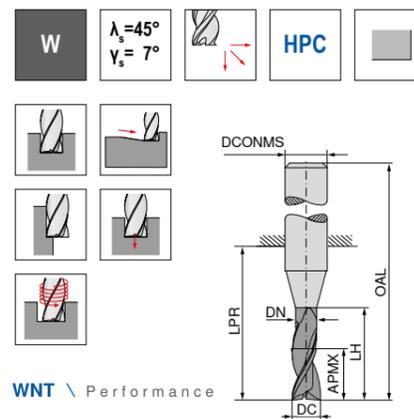


DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	53 625 ...	PG V1/5B	53 626 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm		£	£	£	£		
5.0	10.5	4.8	15	22	58	6	2	05100	62.66	40.73	05100	62.66	40.73
5.5	13.0	5.3	18	22	58	6	2	05600	73.32	47.66	05600	73.32	47.66
6.0	13.0	5.8	18	22	58	6	2	06100	70.66	45.93	06100	70.66	45.93
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	113.30	73.65	09100	113.30	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	149.30	96.19	11600	149.30	96.19
12.0	25.0	11.6	36	40	85	12	2	12100	146.66	94.52	12100	146.66	94.52
12.5	29.0	12.1	42	46	91	14	2	12600	207.07	135.18	12600	207.07	135.18
13.0	29.0	12.6	42	46	91	14	2	13100	206.66	134.31	13100	206.66	134.31
13.5	29.0	13.1	42	46	91	14	2	13600	205.30	133.44	13600	205.30	133.44
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	277.30	180.24	15100	277.30	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	269.30	188.04	16100	269.30	188.04
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	353.28	229.63	17100	353.28	229.63
17.5	38.0	17.0	54	58	106	18	2	17600	343.94	223.56	17600	343.94	223.56
18.0	38.0	17.5	54	58	106	18	2	18100	343.94	223.56	18100	343.94	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	430.50	279.88	19100	430.50	279.88
19.5	42.0	19.0	60	64	114	20	2	19600	419.82	272.95	19600	419.82	272.95
20.0	42.0	19.5	60	64	114	20	2	20100	423.93	275.55	20100	423.93	275.55

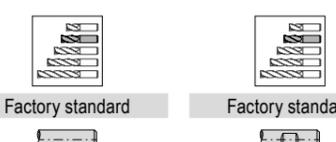
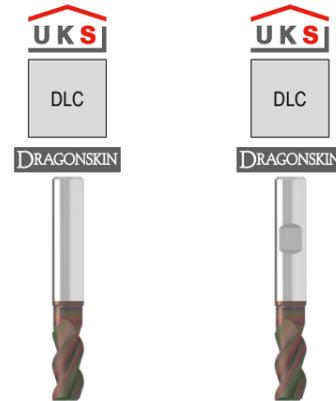
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AluLine – End milling cutter

▲ With polished chip flutes



WNT \ Performance



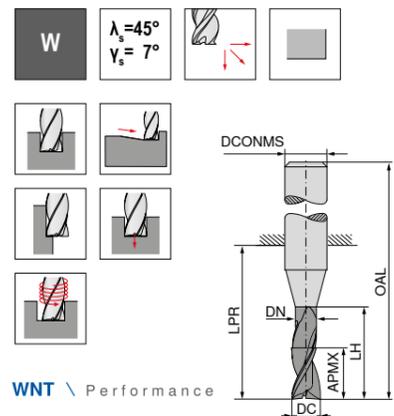
DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	53 617 ...	PG V1/5B	53 618 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm		£	£	£	£		
2.0	4.5	1.8	6.0	14	50	6	3	02100	58.67	38.14	02100	58.67	38.14
2.5	5.5	2.3	7.5	19	55	6	3	02600	57.33	37.26	02600	57.33	37.26
3.0	6.5	2.8	9.0	19	55	6	3	03100	58.67	38.14	03100	58.67	38.14
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	158.65	103.12	11100	158.65	103.12
11.5	25.0	11.1	36.0	40	85	12	3	11600	159.31	99.65	11600	159.31	99.65
12.0	25.0	11.6	36.0	40	85	12	3	12100	158.65	103.12	12100	158.65	103.12
12.5	29.0	12.1	42.0	46	91	14	3	12600	207.07	135.18	12600	207.07	135.18
13.0	29.0	12.6	42.0	46	91	14	3	13100	206.66	134.31	13100	206.66	134.31
13.5	29.0	13.1	42.0	46	91	14	3	13600	205.30	133.44	13600	205.30	133.44
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	277.30	180.24	15100	277.30	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	269.30	188.04	16100	269.30	188.04
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	353.28	229.63	17100	353.28	229.63
17.5	38.0	17.0	54.0	58	106	18	3	17600	343.94	223.56	17600	343.94	223.56
18.0	38.0	17.5	54.0	58	106	18	3	18100	343.94	223.56	18100	343.94	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	430.50	279.88	19100	430.50	279.88
19.5	42.0	19.0	60.0	64	114	20	3	19600	419.82	272.95	19600	419.82	272.95
20.0	42.0	19.5	60.0	64	114	20	3	20100	423.93	275.55	20100	423.93	275.55

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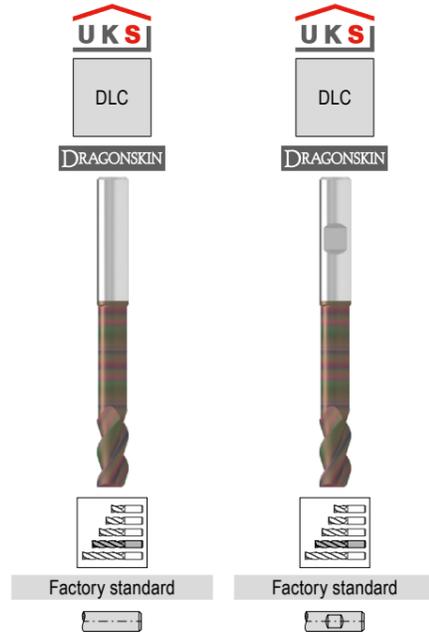


AluLine – End milling cutter

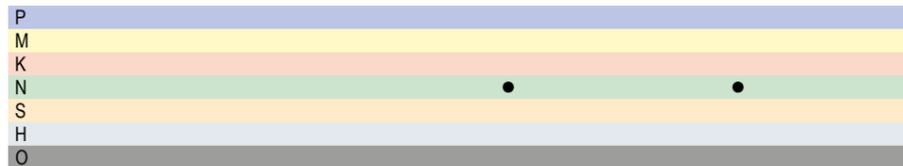
▲ With polished chip flutes



WNT \ Performance

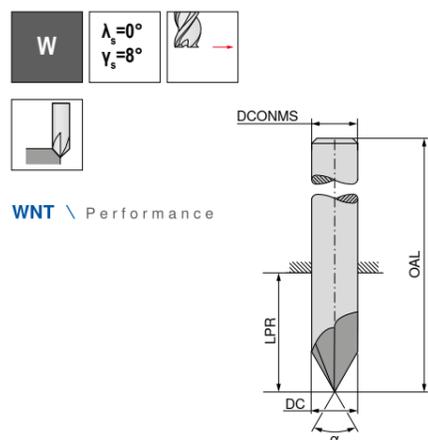


DC _{h6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEPF	53 617 ...	PG V1/5B	53 618 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm		£	£	£	£		
2.0	5.5	1.8	10.0	19	55	6	3	02200	66.66	43.33	02200	66.66	43.33
2.5	6.5	2.3	12.5	22	58	6	3	02700	66.66	43.33	02700	66.66	43.33
3.0	8.0	2.8	15.0	22	58	6	3	03200	67.99	44.19	03200	67.99	44.19
3.5	10.5	3.3	20.0	26	62	6	3	03700	70.66	45.93	03700	70.66	45.93
4.0	10.5	3.8	20.0	26	62	6	3	04200	74.99	46.79	04200	74.99	46.79
4.5	13.0	4.3	25.0	34	70	6	3	04700	86.66	56.32	04700	86.66	56.32
5.0	13.0	4.8	25.0	34	70	6	3	05200	78.66	51.13	05200	78.66	51.13
5.5	16.0	5.3	30.0	34	70	6	3	05700	80.32	58.06	05700	80.32	58.06
6.0	16.0	5.8	30.0	34	70	6	3	06200	84.32	52.86	06200	84.32	52.86
6.5	21.0	6.2	40.0	44	80	8	3	06700	95.99	62.39	06700	95.99	62.39
7.0	21.0	6.7	40.0	44	80	8	3	07200	93.32	60.66	07200	93.32	60.66
7.5	21.0	7.2	40.0	44	80	8	3	07700	94.99	59.79	07700	94.99	59.79
8.0	21.0	7.7	40.0	44	80	8	3	08200	89.32	58.06	08200	89.32	58.06
8.5	26.0	8.2	50.0	54	94	10	3	08700	141.30	91.85	08700	141.30	91.85
9.0	26.0	8.7	50.0	54	94	10	3	09200	137.32	89.26	09200	137.32	89.26
9.5	26.0	9.2	50.0	54	94	10	3	09700	134.66	87.52	09700	134.66	87.52
10.0	26.0	9.7	50.0	54	94	10	3	10200	130.64	84.92	10200	130.64	84.92
10.5	31.0	10.1	60.0	64	109	12	3	10700	190.63	123.91	10700	190.63	123.91
11.0	31.0	10.6	60.0	64	109	12	3	11200	185.30	120.45	11200	185.30	120.45
11.5	31.0	11.1	60.0	64	109	12	3	11700	181.30	117.85	11700	181.30	117.85
12.0	31.0	11.6	60.0	64	109	12	3	12200	185.30	120.45	12200	185.30	120.45
12.5	36.0	12.1	70.0	74	119	14	3	12700	243.96	158.57	12700	243.96	158.57
13.0	36.0	12.6	70.0	74	119	14	3	13200	240.64	157.70	13200	240.64	157.70
13.5	36.0	13.1	70.0	74	119	14	3	13700	244.30	156.85	13700	244.30	156.85
14.0	36.0	13.6	70.0	74	119	14	3	14200	251.96	163.77	14200	251.96	163.77
14.5	41.0	14.0	80.0	84	132	16	3	14700	331.94	215.76	14700	331.94	215.76
15.0	41.0	14.5	80.0	84	132	16	3	15200	325.28	211.43	15200	325.28	211.43
15.5	41.0	15.0	80.0	84	132	16	3	15700	348.64	207.10	15700	348.64	207.10
16.0	41.0	15.5	80.0	84	132	16	3	16200	338.64	220.10	16200	338.64	220.10
16.5	47.0	16.0	90.0	94	142	18	3	16700	428.64	277.30	16700	428.64	277.30
17.0	47.0	16.5	90.0	94	142	18	3	17200	415.93	270.35	17200	415.93	270.35
17.5	47.0	17.0	90.0	94	142	18	3	17700	405.97	263.43	17700	405.97	263.43
18.0	47.0	17.5	90.0	94	142	18	3	18200	409.92	262.55	18200	409.92	262.55
18.5	52.0	18.0	100.0	104	154	20	3	18700	561.94	364.81	18700	561.94	364.81
19.0	52.0	18.5	100.0	104	154	20	3	19200	546.57	355.27	19200	546.57	355.27
19.5	52.0	19.0	100.0	104	154	20	3	19700	534.90	345.74	19700	534.90	345.74
20.0	52.0	19.5	100.0	104	154	20	3	20200	534.57	347.47	20200	534.57	347.47



AluLine – NC deburring cutter

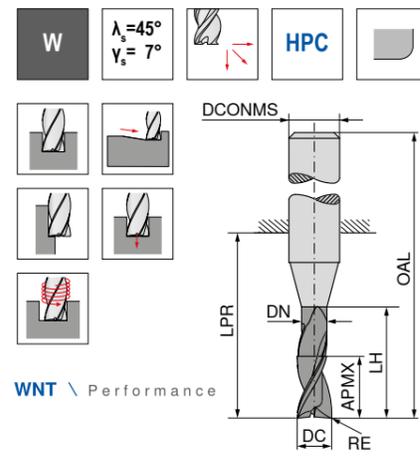
▲ Point angle $\alpha = 90^\circ$



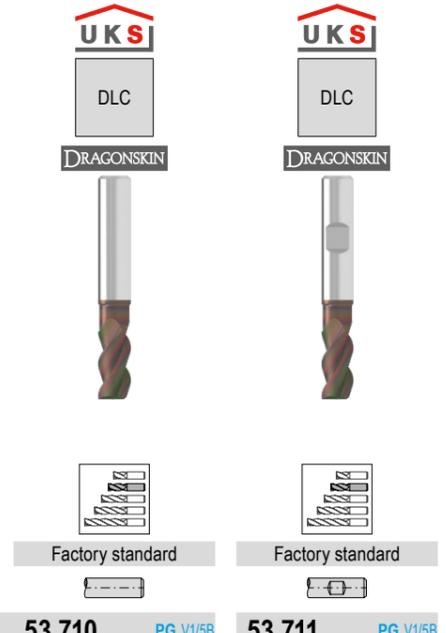
WNT \ Performance

AluLine – End milling cutter with corner radius

▲ With polished chip flutes



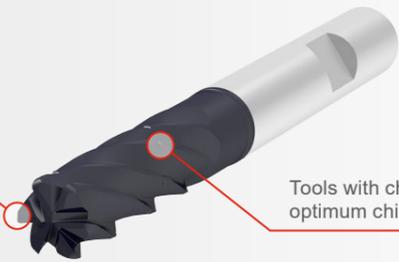
WNT \ Performance



DC _{h6}	RE _{±0.05}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEPF	53 710 ...	PG V1/5B	53 711 ...	PG V1/5B		
mm	mm	mm	mm	mm	mm	mm	mm		£	£	£	£		
2	0.5	4.5	1.8	6	14	50	6	3	02105	50.99	38.99	02105	50.99	38.99
2	0.3	4.5	1.8	6	14	50	6	3	02103	50.99	38.99	02103	50.99	38.99
3	1.0	6.5	2.7	9	19	55	6	3	03110	61.32	39.86	03110	61.32	39.86
3	0.3	6.5	2.7	9	19	55	6	3	03103	61.32	39.86	03103	61.32	39.86
3	0.5	6.5	2.7	9	19	55	6	3	03105	61.32	39.86	03105	61.32	39.86
4	0.5	8.5	3.7	12	19	55	6	3	04105	65.32	42.46	04105	65.32	42.46
4	0.3	8.5	3.7	12	19	55	6	3	04103	65.32	42.46	04103	65.32	42.46
4	1.0	8.5	3.7	12	19	55	6	3	04110	65.32	42.46	04110	65.32	42.46
5	1.0	10.5	4.7	15	22	58	6	3	05110	74.98	46.79	05110	74.98	46.79
5	0.3	10.5	4.7	15	22	58	6	3	05103	74.98	46.79	05103	74.98	46.79
5	0.5	10.5	4.7	15	22	58	6	3	05105	74.98	46.79	05105	74.98	46.79
6	1.0	13.0	5.7	18	22	58	6	3	06110	74.66	48.53	06110	74.66	48.53
6	0.3	13.0	5.7	18	22	58	6	3	06103	74.66	48.53	06103	74.66	48.53
6	0.5	13.0	5.7	18	22	58	6	3	06105	74.66	48.53	06105	74.66	48.53
6	1.5	13.0	5.7	18	22	58	6	3	06115	74.66	48.53	06115	74.66	48.53
8	0.3	17.0	7.4	24	28	64	8	3	08103	84.32	52.86	08103	84.32	52.86
8	0.5	17.0	7.4	24	28	64	8	3	08105	84.32	52.86	08105	84.32	52.86
8	1.0	17.0	7.4	24	28	64	8	3	08110	84.32	52.86	08110	84.32	52.86
8	1.5	17.0	7.4	24	28	64	8	3	08115	84.32	52.86	08115	84.32	52.86
8	2.0	17.0	7.4	24	28	64	8	3	08120	84.32	52.86	08120	84.32	52.86
10	1.5	21.0	9.2	30	34	74	10	3	10115	118.65	77.12	10115	118.65	77.12
10	0.3	21.0	9.2	30	34	74	10	3	10103	118.65	77.12	10103	118.65	77.12
10	0.5	21.0	9.2	30	34	74	10	3	10105	118.65	77.12	10105	118.65	77.12
10	1.0	21.0	9.2	30	34	74	10	3	10110	118.65	77.12	10110	118.65	77.12
10	2.0	21.0	9.2	30	34	74	10	3	10120	118.65	77.12	10120	118.65	77.12
10	3.0	21.0	9.2	30	34	74	10	3	10130	118.65	77.12	10130	118.65	77.12
12	1.5	25.0	11.0	36	40	85	12	3	12115	167.96	109.17	12115	167.96	109.17
12	0.3	25.0	11.0	36	40	85	12	3	12103	167.96	109.17	12103	167.96	109.17
12	0.5	25.0	11.0	36	40	85	12	3	12105	167.96	109.17	12105	167.96	109.17
12	1.0	25.0	11.0	36	40	85	12	3	12110	167.96	109.17	12110	167.96	109.17
12	2.0	25.0	11.0	36	40	85	12	3	12120	167.96	109.17	12120	167.96	109.17
12	3.0	25.0	11.0	36	40	85	12	3	12130	167.96	109.17	12130	167.96	109.17
12	4.0	25.0	11.0	36	40	85	12	3	12140	167.96	109.17	12140	167.96	109.17
16	1.5	33.0	15.0	48	52	100	16	3	16115	267.96	174.17	16115	267.96	174.17
16	0.3	33.0	15.0	48	52	100	16	3	16103	267.96	174.17	16103	267.96	174.17
16	0.5	33.0	15.0	48	52	100	16	3	16105	267.96	174.17	16105	267.96	174.17
16	1.0	33.0	15.0	48	52	100	16	3	16110	267.96	174.17	16110	267.96	174.17
16	2.0	33.0	15.0	48	52	100	16	3	16120	267.96	174.17	16120	267.96	174.17
16	3.0	33.0	15.0	48	52	100	16	3	16130	267.96	174.17	16130	267.96	174.17
16	4.0	33.0	15.0	48	52	100	16	3	16140	267.96	174.17	16140	267.96	174.17
20	2.0	42.0	19.0	60	64	114	20	3	20120	414.59	269.48	20120	414.59	26

CircularLine

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



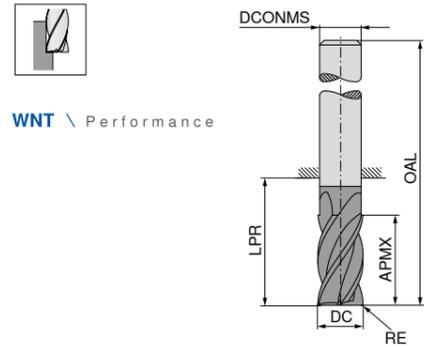
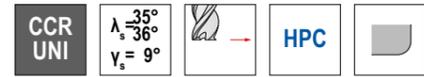
Tools with chip breakers for optimum chip removal

DRAGONSKIN



CircularLine – End milling cutter with corner radius

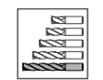
- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 5 x DC



WNT \ Performance

DPX72S

DRAGONSKIN



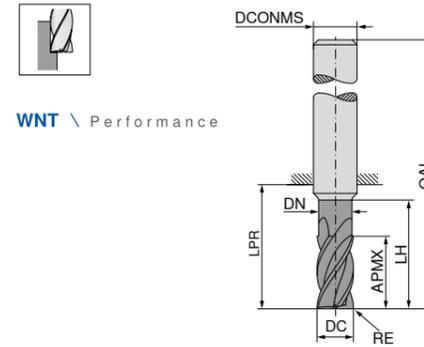
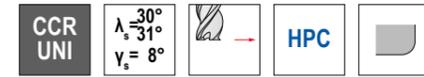
Factory standard

DC _{e8}	RE _{±0.05}	APMX	LPR	OAL	DCONMS _{h6}	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

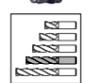
- ▲ Chip breaker 0.9 x DC
- ▲ Cutting depth: 3 x DC



WNT \ Performance

UKS

DPX72S



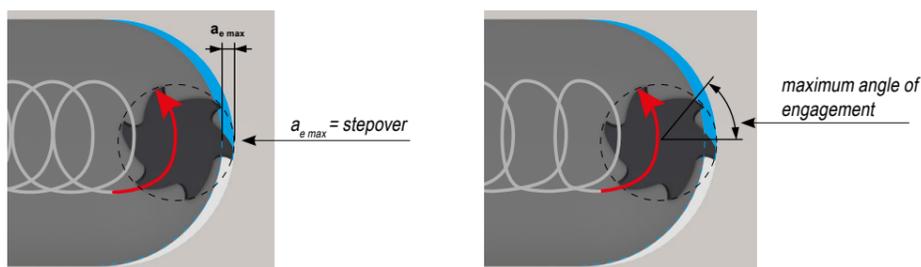
Factory standard

DC _{e8}	RE _{±0.05}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	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	86.60 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

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

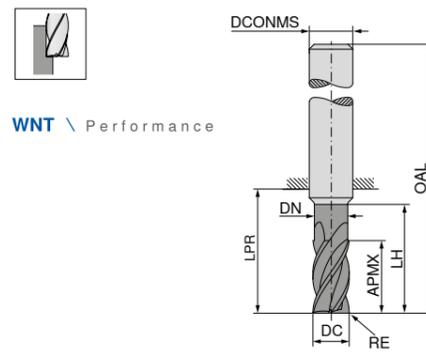
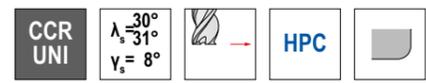
$$f_z \approx h_m \sqrt{\frac{DC}{a_e}}$$

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

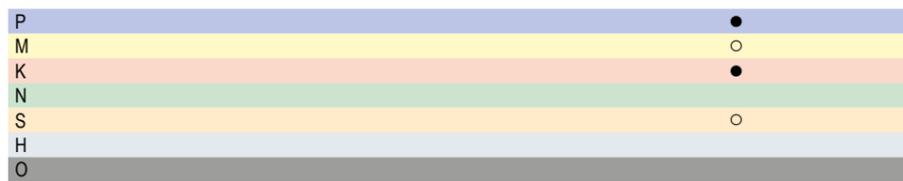


CircularLine – End milling cutter with corner radius

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

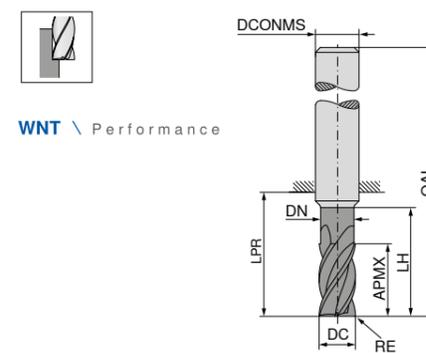
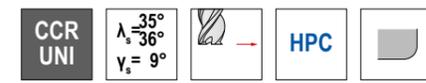


DC _{e8}	OAL	RE _{±0.05}	APMX	DN	LH	LPR	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
6	57	1.0	13	5.8	19	21	6	6
6	57	0.2	13	5.8	19	21	6	6
6	57	1.5	13	5.8	19	21	6	6
8	63	1.5	21	7.7	25	27	8	8
8	63	0.2	21	7.7	25	27	8	8
8	63	1.0	21	7.7	25	27	8	8
8	63	2.0	21	7.7	25	27	8	8
10	72	1.5	22	9.7	30	32	10	10
10	72	0.2	22	9.7	30	32	10	10
10	72	1.0	22	9.7	30	32	10	10
10	72	1.6	22	9.7	30	32	10	10
10	72	2.0	22	9.7	30	32	10	10
12	83	1.5	26	11.6	36	38	12	12
12	83	0.2	26	11.6	36	38	12	12
12	83	1.0	26	11.6	36	38	12	12
12	83	1.6	26	11.6	36	38	12	12
12	83	2.0	26	11.6	36	38	12	12
12	83	3.0	26	11.6	36	38	12	12
16	92	4.0	36	15.5	42	44	16	16
16	92	0.2	36	15.5	42	44	16	16
16	92	1.0	36	15.5	42	44	16	16
16	92	1.5	36	15.5	42	44	16	16
16	92	1.6	36	15.5	42	44	16	16
16	92	2.0	36	15.5	42	44	16	16
16	92	3.0	36	15.5	42	44	16	16
20	104	1.6	41	19.5	52	54	20	20
20	104	0.2	41	19.5	52	54	20	20
20	104	1.0	41	19.5	52	54	20	20
20	104	1.5	41	19.5	52	54	20	20
20	104	2.0	41	19.5	52	54	20	20
20	104	3.0	41	19.5	52	54	20	20
20	104	4.0	41	19.5	52	54	20	20

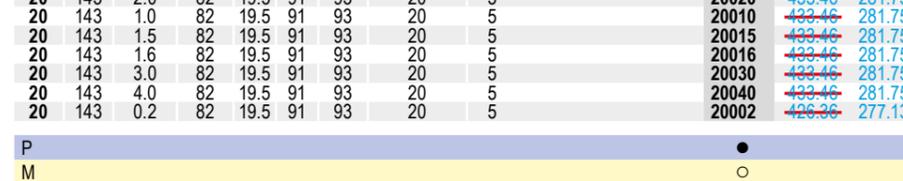


CircularLine – End milling cutter with corner radius

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

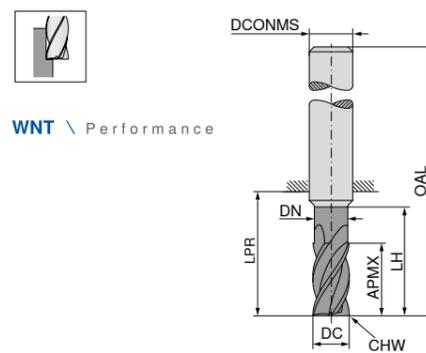


DC _{e8}	OAL	RE _{±0.05}	APMX	DN	LH	LPR	DCONMS _{h6}	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
6	67	1.5	25	5.8	29	31	6	5
6	67	1.0	25	5.8	29	31	6	5
6	67	0.2	25	5.8	29	31	6	5
8	76	1.5	33	7.7	38	40	8	5
8	76	1.0	33	7.7	38	40	8	5
8	76	2.0	33	7.7	38	40	8	5
8	76	0.2	33	7.7	38	40	8	5
10	89	1.5	41	9.7	47	49	10	5
10	89	1.0	41	9.7	47	49	10	5
10	89	1.6	41	9.7	47	49	10	5
10	89	2.0	41	9.7	47	49	10	5
10	89	0.2	41	9.7	47	49	10	5
12	102	1.0	49	11.6	55	57	12	5
12	102	1.5	49	11.6	55	57	12	5
12	102	1.6	49	11.6	55	57	12	5
12	102	2.0	49	11.6	55	57	12	5
12	102	3.0	49	11.6	55	57	12	5
12	102	0.2	49	11.6	55	57	12	5
16	123	1.6	65	15.5	73	75	16	5
16	123	1.0	65	15.5	73	75	16	5
16	123	1.5	65	15.5	73	75	16	5
16	123	2.0	65	15.5	73	75	16	5
16	123	3.0	65	15.5	73	75	16	5
16	123	4.0	65	15.5	73	75	16	5
16	123	0.2	65	15.5	73	75	16	5
20	143	2.0	82	19.5	91	93	20	5
20	143	1.0	82	19.5	91	93	20	5
20	143	1.5	82	19.5	91	93	20	5
20	143	1.6	82	19.5	91	93	20	5
20	143	3.0	82	19.5	91	93	20	5
20	143	4.0	82	19.5	91	93	20	5
20	143	0.2	82	19.5	91	93	20	5

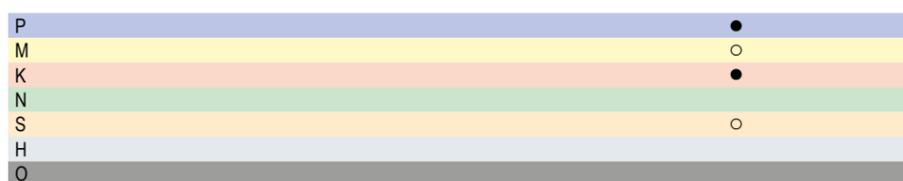


CircularLine – End milling cutter

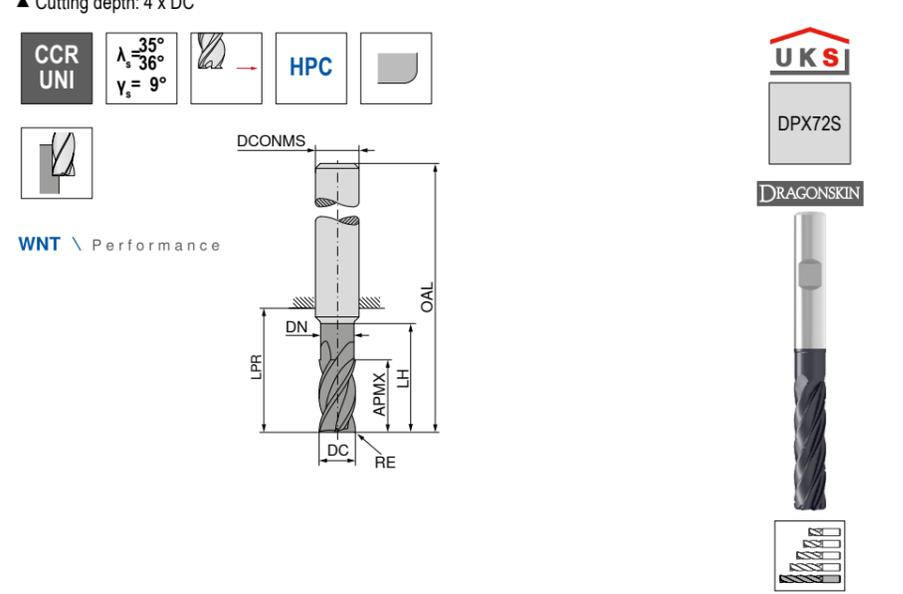
▲ Chip breaker 0.9 x DC
▲ Cutting depth: 4 x DC



DC _{e8}	OAL	APMX	DN	LH	LPR	DCONMS _{h6}	CHW	ZEFP
mm	mm	mm	mm	mm	mm	mm	mm	
6	67	25	5.8	29	31	6	0.2	5
8	76	33	7.7	38	40	8	0.2	5
10	89	41	9.7	47	49	10	0.2	5
12	102	49	11.6	55	57	12	0.2	5
16	123	65	15.5	73	75	16	0.2	5
20	143	82	19.5	91	93	20	0.2	5



53 586 ...	PG V1/5B	
£	£	
06010	68.63	44.54
06002	68.63	44.30
06015	68.63	44.54
08015	90.96	59.14
08002	90.96	57.77
08010	90.96	59.14
08020	90.96	59.14
10015	117.35	76.26
10002	117.35	74.22
10010	117.35	76.26
10016	117.35	76.26
10020	117.35	76.26
12015	147.83	95.89
12002	147.83	95.45
12010	147.83	95.89
12016	147.83	95.89
12020	147.83	95.89
12030	147.83	95.89
16040	205.29	198.41
16002	205.29	190.39
16010	205.29	205.29
16015	205.29	198.41
16016	205.29	198.41
16020	205.29	198.41
16030	205.29	198.41
20016	276.51	276.51
20002	276.51	273.74
20010	276.51	276.51
20015	276.51	276.51
20020	276.51	276.51
20030	276.51	276.51
20040	276.51	276.51



53 593 ...	PG V1/5B	
£	£	
06015	71.95	46.18
06010	71.95	46.18
06002	60.64	45.27
08015	90.96	59.12
08010	90.96	59.12
08020	90.96	59.12
08002	89.65	58.21
10015	126.40	82.22
10010	126.40	82.22
10016	126.40	82.22
10020	126.40	82.22
10002	123.65	80.37
12010	154.94	100.69
12015	154.94	100.69
12016	154.94	100.69
12020	154.94	100.69
12030	154.94	100.69
12002	150.65	97.92
16016	208.40	200.46
16010	208.40	200.46
16015	208.40	200.46
16020	208.40	200.46
16030	208.40	200.46
16040	208.40	200.46
16002	202.72	196.77
20020	277.13	281.75
20010	277.13	281.75
20015	277.13	281.75
20016	277.13	281.75
20030	277.13	281.75
20040	277.13	281.75
20002	277.13	277.13



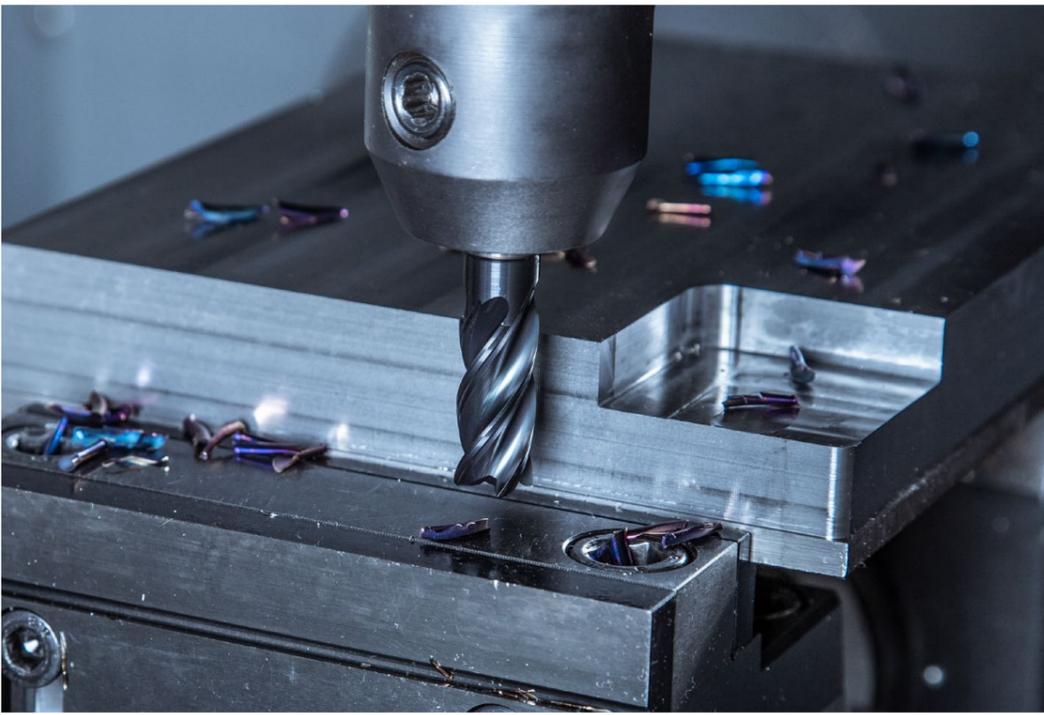
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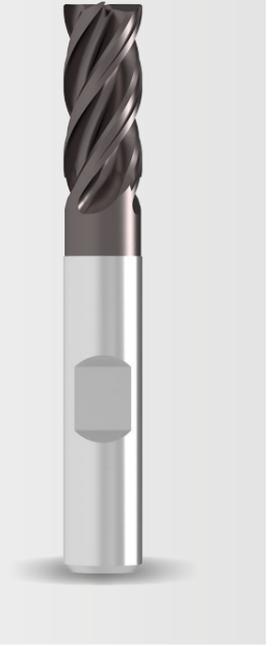
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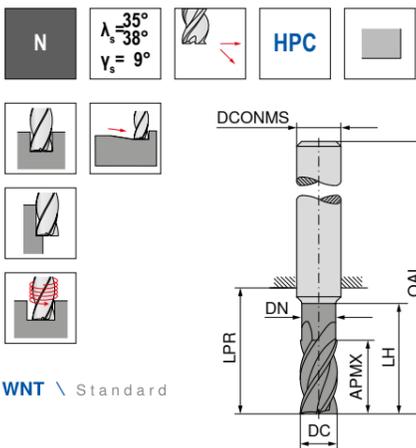
When you see this logo it's
in stock in Sheffield



TI 1000 STANDARD LINE

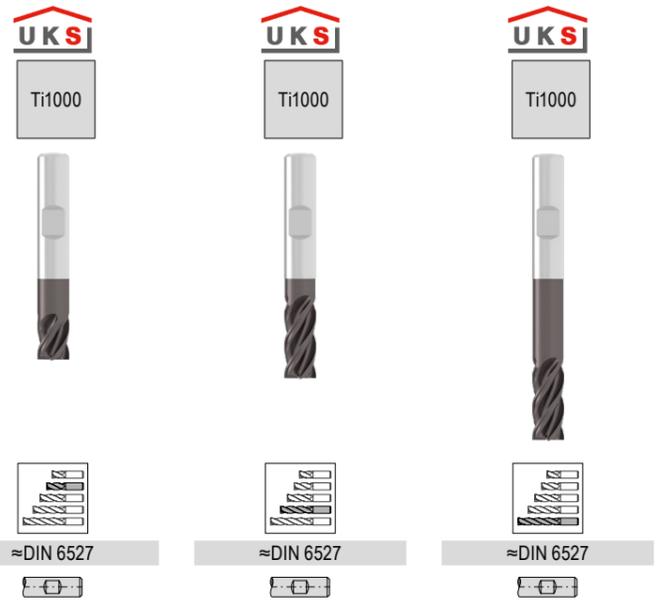


End milling cutter



DC _{h10} mm	APMX mm	DN mm	LH mm	LPR mm	OAL mm	DCONMS _{h6} mm	ZEFP
3	5			14	50	6	4
3	8	2.8	13	21	57	6	4
3	8	2.8	15	22	69	6	4
4	8			18	54	6	4
4	11	3.8	17	21	57	6	4
4	11	3.8	20	26	69	6	4
5	9			18	54	6	4
5	13	4.8	19	21	57	6	4
5	13	4.8	25	34	69	6	4
6	10			18	54	6	4
6	13	5.8	19	21	57	6	4
6	13	5.8	30	34	69	6	4
8	12			22	58	8	4
8	21	7.7	25	27	63	8	4
8	17	7.7	40	44	79	8	4
10	14			26	66	10	4
10	22	9.7	30	32	72	10	4
10	21	9.7	50	54	93	10	4
12	16			28	73	12	4
12	26	11.6	36	38	83	12	4
12	25	11.6	60	64	108	12	4
16	22			34	82	16	4
16	32	15.5	42	44	92	16	4
16	33	15.5	80	84	132	16	4
20	26			42	92	20	4
20	41	19.5	52	54	104	20	4
20	42	19.5	100	104	154	20	4

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



54 070 ...	PG V3/5C	54 070 ...	PG V3/5C	54 070 ...	PG V3/5C
£	£	£	£	£	£
03100	15.72	15.00	03200	15.72	15.00
04100	15.72	15.00	04200	15.72	15.00
05100	15.72	15.00	05200	15.72	15.00
06100	15.72	15.00	06200	19.35	19.00
08100	22.08	22.00	08200	24.19	24.00
10100	29.02	29.00	10200	32.65	32.00
12100	42.33	42.00	12200	50.70	50.00
16100	73.77	73.00	16200	79.64	78.00
20100	110.05	110.00	20200	118.52	118.00
			20400	160.85	160.00



DRAGONSKIN

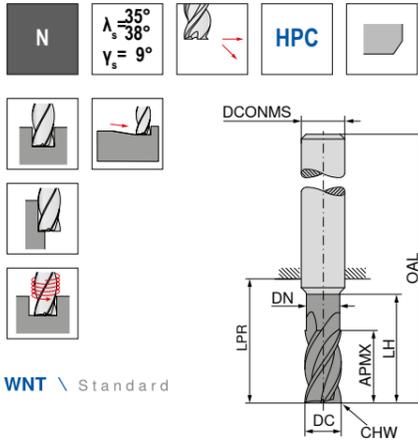
by CERATIZIT



For more information
cutting.tools/en/dragonskin



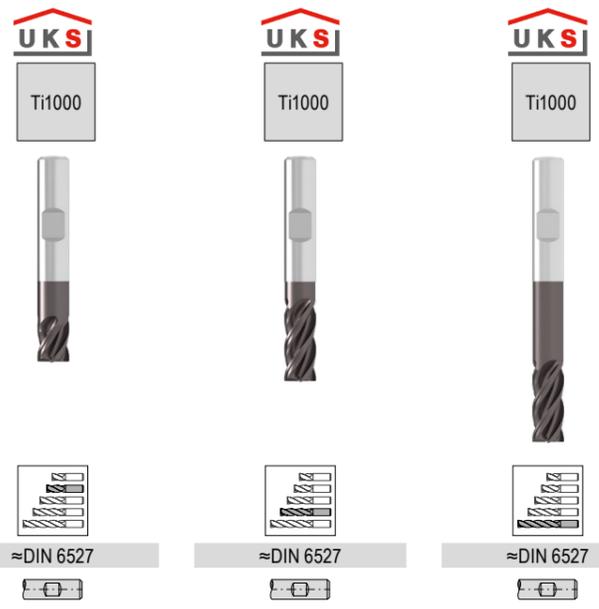
End milling cutter



WNT \ Standard

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

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



54 071 ...	PG V3/5C	54 071 ...	PG V3/5C	54 071 ...	PG V3/5C
03100	£ 15.72 / £ 15.00	03200	£ 15.72 / £ 15.00	03400	£ 22.08 / £ 22.00
04100	£ 15.72 / £ 15.00	04200	£ 15.72 / £ 15.00	04400	£ 22.08 / £ 22.00
05100	£ 15.72 / £ 15.00	05200	£ 15.72 / £ 15.00	05400	£ 25.40 / £ 25.00
06100	£ 15.72 / £ 15.00	06200	£ 19.35 / £ 19.00	06400	£ 29.02 / £ 29.00
08100	£ 22.08 / £ 22.00	08200	£ 24.19 / £ 24.00	08400	£ 36.28 / £ 36.00
10100	£ 29.02 / £ 29.00	10200	£ 32.65 / £ 32.00	10400	£ 50.79 / £ 50.00
12100	£ 42.33 / £ 42.00	12200	£ 50.79 / £ 50.00	12400	£ 62.89 / £ 62.00
16100	£ 73.77 / £ 73.00	16200	£ 78.61 / £ 78.00	16400	£ 117.31 / £ 117.00
20100	£ 110.05 / £ 110.00	20200	£ 118.52 / £ 118.00	20400	£ 160.85 / £ 160.00

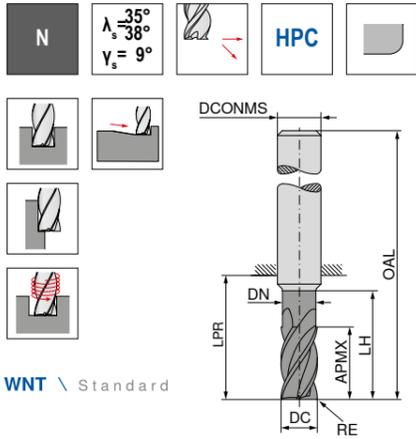
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End milling cutter with corner radius



WNT \ Standard

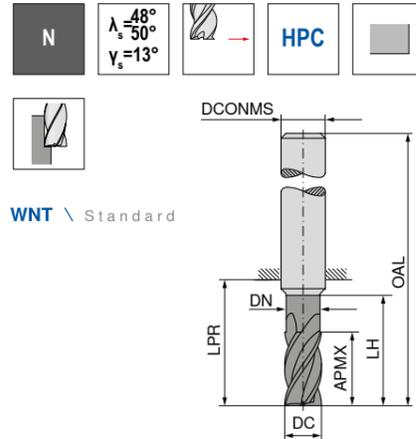


≈DIN 6527

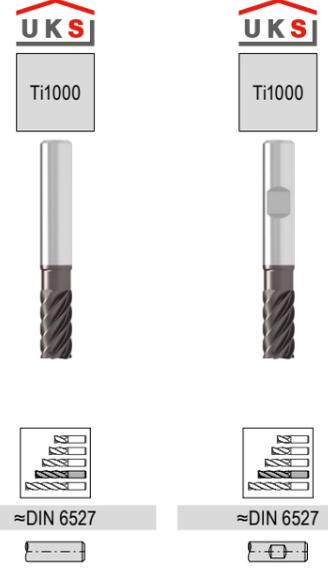
DC _{h10}	RE	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	ZEFP	54 072 ...	PG V3/5C	54 072 ...	PG V3/5C	
mm	mm	mm	mm	mm	mm	mm	mm		£	£	£	£	
3	0.1	8	2.8	13	21	57	6	4	03201	20.55	20.00		
3	0.3	8	2.8	13	21	57	6	4	03203	20.55	20.00		
3	0.5	8	2.8	13	21	57	6	4	03205	20.55	20.00		
3	1.0	8	2.8	13	21	57	6	4	03210	20.55	20.00		
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	22.00	22.00		
6	0.1	13	5.8	19	21	57	6	4	06201	22.00	22.00		
6	0.5	13	5.8	19	21	57	6	4	06205	22.00	22.00		
6	1.0	13	5.8	19	21	57	6	4	06210	22.00	22.00		
6	1.5	13	5.8	19	21	57	6	4	06215	22.00	22.00		
6	2.0	13	5.8	19	21	57	6	4	06220	22.00	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	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	139.00	139.00
16	0.3	33	15.5	80	84	132	16	4			16403	139.00	139.00
16	0.5	33	15.5	80	84	132	16	4			16405	139.00	139.00
16	1.0	33	15.5	80	84	132	16	4			16410	139.00	139.00
16	2.0	33	15.5	80	84	132	16	4			16420	139.00	139.00
16	3.0	33	15.5	80	84	132	16	4			16430	139.00	139.00
16	4.0	33	15.5	80	84	132	16	4			16440	139.00	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



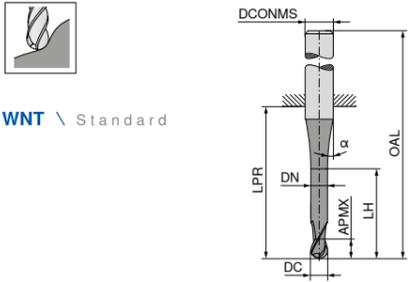
≈DIN 6527

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

P	●	●
M	●	●
K	○	○
N	○	○
S</		

Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm



WNT \ Standard



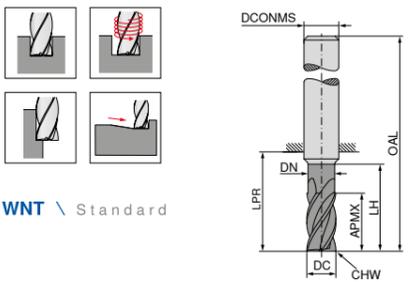
≈DIN 6527

DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	α°	ZEFP	54 073 ...	PG V3/5C
mm	mm	mm	mm	mm	mm	mm			£	£
3	5	2.9	9	14	50	6	15	2	03115	19.35 19.00
4	8	3.9	12	18	54	6	45	2	04120	19.35 19.00
5	9	4.9	15	18	54	6	45	2	05125	19.35 19.00
6	10	5.9	17	18	54	6	45	2	06130	20.55 20.00
8	12	7.8	20	22	58	8	45	2	08140	26.60 26.00
10	14	9.8	26	26	66	10	45	2	10150	33.86 33.00
12	16	11.8	28	28	73	12	45	2	12160	43.36 48.00
16	22	15.7	32	34	82	16	45	2	16180	70.82 79.00
20	26	19.7	40	42	92	20	45	2	20110	113.69 113.00

P	●
M	○
K	●
N	●
S	○
H	○
O	●

Rough milling cutter

▲ With roughing profile



WNT \ Standard

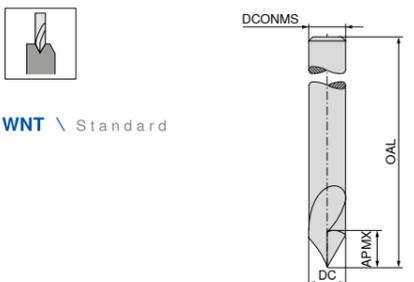
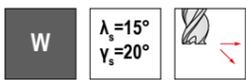


≈DIN 6527

DC _{r6}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	CHW	ZEFP	54 077 ...	PG V3/5C
mm	mm	mm	mm	mm	mm	mm	mm		£	£
4	11	3.8	17	21	57	6	0.1	4	00400	22.08 22.00
5	13	4.8	19	21	57	6	0.1	4	00500	22.08 22.00
6	13	5.8	19	21	57	6	0.1	4	00600	27.84 27.00
8	21	7.7	25	27	63	8	0.2	4	00800	35.07 35.00
10	22	9.7	30	32	72	10	0.2	4	01000	43.54 43.00
12	26	11.6	36	38	83	12	0.3	4	01200	71.36 71.00
16	36	15.5	42	44	92	16	0.3	4	01600	107.64 107.00
20	41	19.5	52	54	104	20	0.3	4	02000	159.64 159.00

P	●
M	●
K	●
N	○
S	○
H	○
O	○

Engraving cutter 60°



WNT \ Standard



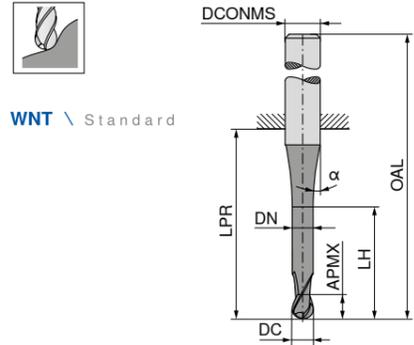
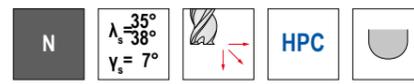
Factory standard

DC _{h6}	APMX	OAL	DCONMS _{h6}	ZEFP	52 195 ...	PG V1
mm	mm	mm	mm		£	£
3	15	50	3	1	030	64.58 41.98
4	18	50	4	1	040	67.80 44.07
6	20	54	6	1	060	73.83 47.99

P	○
M	○
K	○
N	○
S	○
H	○
O	●

Ball Nosed Cutter

▲ Radius accuracy: ± 0,01 mm



WNT \ Standard



≈DIN 6527

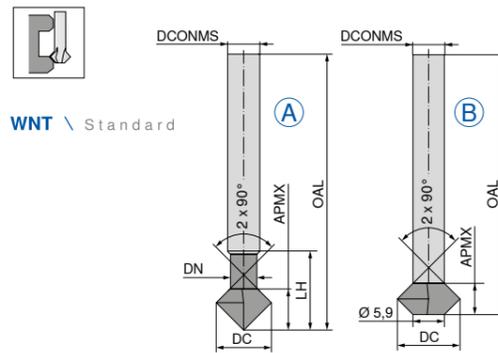
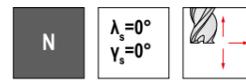


≈DIN 6527

DC _{h10}	APMX	DN	LH	LPR	OAL	DCONMS _{h6}	α°	ZEFP	54 074 ...	PG V3/5C	54 074 ...	PG V3/5C
mm	mm	mm	mm	mm	mm	mm			£	£	£	£
3	8			21	57	6	30	4	03115	19.35 19.00		
3	8	2.9	15	21	57	6	45	4			03215	19.35 19.00
4	11			21	57	6	30	4	04120	19.35 19.00		
4	11	3.9	16	21	57	6	45	4			04220	19.35 19.00
5	13			21	57	6	30	4	05125	19.35 19.00		
5	13	4.9	19	21	57	6	45	4			05225	19.35 19.00
6	13			21	57	6	30	4	06130	20.55 20.00		
6	13	5.9	19	21	57	6	45	4			06430	22.08 22.00
8	19			36	72	8	30	4	08140	26.60 26.00		
8	19	7.8	25	27	72	8	45	4			08440	27.84 27.00
10	22			32	72	10	30	4	10150	33.86 33.00		
10	22	9.7	30	32	72	10	45	4			10450	36.28 36.00
12	26			38	83	12	30	4	12160	43.36 48.00		
12	26	11.7	36	38	83	12	45	4			12460	56.84 56.00
16	32			44	92	16	30	4	16180	70.82 79.00		
16	32	15.5	42	44	92	16	45	4			16480	83.45 83.00
20	38			54	104	20	30	4	20110	113.69 113.00		
20	38	19.5	52	54	104	20	45	4			20410	120.94 120.00

P	●
M	●
K	●
N	○
S	○
H	○
O	○

NC front and rear chamfer milling cutter



WNT \ Standard



Factory standard

DC	APMX	DN	LH	OAL	DCONMS _{h6}	ZEFP	Fig.	52 159 ...	PG V1
mm	mm	mm	mm	mm	mm			£	£
3	2.0	2.2	12.0	75	4	4	A	030	120.53 78.34
4	2.7	2.9	17.7	75	4	4	A	040	119.86 77.91
5	3.0	3.9	18.0	75	5	4	A	050	124.54 80.93
6	4.0	3.9	19.0	100	6	4	A	060	124.62 81.00
8	2.0			100	6	4	B	080	165.04 107.28
10	4.0			100	6	4	B	100	203.76 132.44
12	6.0			100	6	4	B	120	242.86 157.86

P	●
M	○
K	●
N	○
S	○
H	○
O	●



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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.

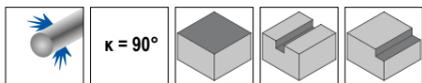


M1 – first choice chipbreaker for parting off.

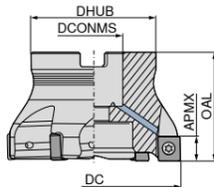


CTWN215 – first choice for aluminium and other non ferrous materials.

MaxiMill – 491-09 Shell mill



CERATIZIT \ Performance

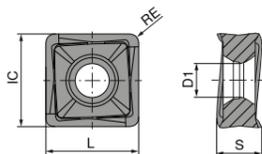


Designation	DC mm	OAL mm	DHUB mm	DCONMS _{H6} mm	APMX mm	Insert	ZNF
A491.40.R.03-09	40	40	38	16	6	SNHU 09T3	3
A491.40.R.05-09	40	40	38	16	6	SNHU 09T3	5
A491.50.R.04-09	50	40	43	22	6	SNHU 09T3	4
A491.50.R.06-09	50	40	43	22	6	SNHU 09T3	6
A491.63.R.05-09	63	40	48	22	6	SNHU 09T3	5
A491.63.R.08-09	63	40	48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

50 775 ...	PG 2B/40	50 776 ...	PG 2B/40
240	447.80 56.00	240	520.53 65.00
250	486.20 62.00	250	568.90 71.00
263	583.19 74.00	263	702.00 87.00
280	629.52 78.00	280	774.73 96.00

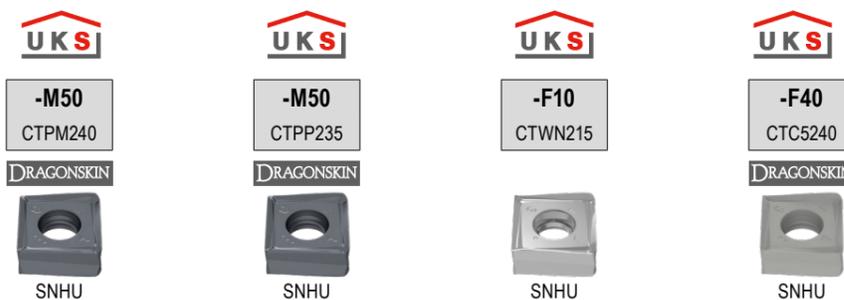
SNHU

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



SNHU

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ISO	RE mm	51 120 ...	PG 1B/61	51 120 ...	PG 1B/61	51 118 ...	PG 1B/61	51 126 ...	PG 1H/17
09T308ER	0.8		£		£		£	15800	31.70 23.78
09T308FR	0.8								
09T308SR	0.8	408	25.34 19.01	108	25.34 19.01	358	25.34 19.01		
09T312FR	1.2								
09T312SR	1.2	41200	25.34 19.01	11200	25.34 19.01	36200	25.34 19.01		
09T316FR	1.6								
09T316SR	1.6	41600	25.34 19.01	11600	25.34 19.01	36600	25.34 19.01		

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

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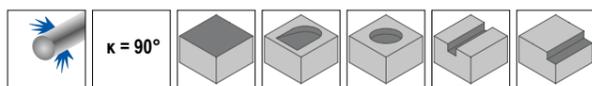
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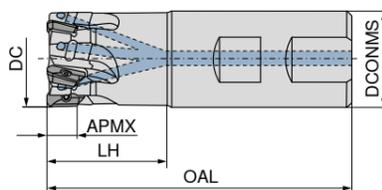
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MaxiMill – 211-11 End milling cutter

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



CERATIZIT \ Performance

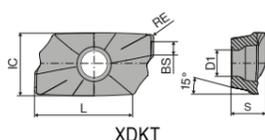


ISO designation	DC mm	OAL mm	LH mm	DCONMS _{h6} mm	APMX mm	RPMX 1/min.	Insert	ZNF
C211.16.R.02-11-A-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-B-25	16	75	25	16	10	42000	XD.T 11T3	2
C211.16.R.02-11-A15-32-165	16	165	32	15	10	14800	XD.T 11T3	2
C211.16.R.02-11-A-32-165	16	165	32	16	10	14800	XD.T 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	266.10	33.00	016	266.10	33.00
316	266.10	33.00	216	266.10	33.00
120	302.11	37.00	020	302.11	37.00
12002	280.53	37.00	320	302.11	37.00
620	280.53	35.00	420	280.53	35.00
420	280.53	35.00	625	316.54	39.00
125	328.12	42.00	025	328.12	42.00
325	328.12	42.00	425	316.54	39.00
825	316.54	39.00	02502	295.07	38.00
13204	352.45	46.00	032	374.15	46.00
132	374.15	46.00	53204	352.45	46.00
332	374.15	46.00	432	352.45	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



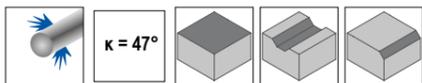
ISO	50 478 ... PG 1A/90		50 463 ... PG 1H/17		51 037 ... PG 1B/61		51 037 ... PG 1B/61	
	£	£	£	£	£	£	£	£
11T302FR	20.39	15.29	502	20.88	17.75	104	46.23	12.17
11T304ER	20.39	15.29	504	20.88	17.75	404	46.23	12.17
11T304FR	20.39	15.29	508	20.88	17.75	108	46.23	12.17
11T304SR	20.39	15.29	512	20.88	17.75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

1) Insert radius >1.6 mm: Modify cutter body

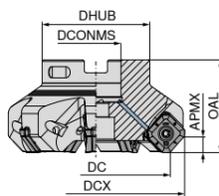


MaxiMill – 271-12 Face mill

▲ 8 cutting edges per insert



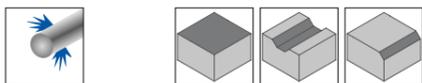
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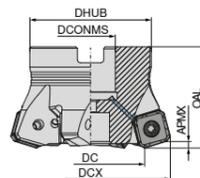
ISO designation	DC mm	DCX mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
A271.40.R.04-12	40	53	4	6.8	40	38	16	17900	3,2	SOHU 1204.. / XOHU 1204..
A271.50.R.05-12	50	63	5	6.8	40	43	22	15200	3,2	SOHU 1204.. / XOHU 1204..
A271.63.R.07-12	63	76	7	6.8	40	48	22	13100	3,2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

50 787 ... PG 2B/40		50 787 ... PG 2B/40	
£	£	£	£
04004	470.55	58.00	
05005	482.32	60.00	
06307	611.73	76.00	
08008	705.82	88.00	08006 611.73 76.00
10010	882.33	109.00	10007 776.35 96.00

MaxiMill – 271-12 HFC Face mill



CERATIZIT \ Performance

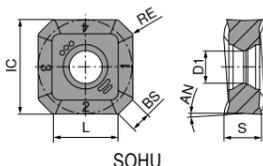


ISO designation	DC mm	ZNF	APMX mm	OAL mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	torque moment Nm	Insert
A271.50.R.04-12-HFC	30	4	2.6	40	43	22	14600	3,2	SOHU 1204..
A271.63.R.06-12-HFC	43	6	2.6	40	48	22	12500	3,2	SOHU 1204..
A271.80.R.07-12-HFC	60	7	2.6	50	58	27	10800	3,2	SOHU 1204..

50 788 ... PG 2B/40	
£	£
05004	482.32 60.00
06306	611.73 76.00
08007	705.82 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	36.60 31.11	12000	29.77 22.33	42000	29.77 22.33

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

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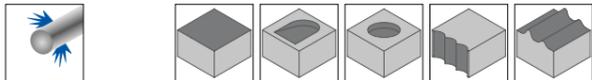
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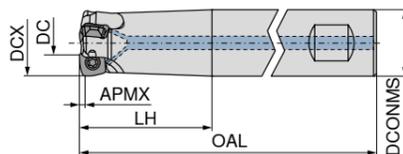
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THE Cutting Tool Solution

MaxiMill – HFC high-feed end mill



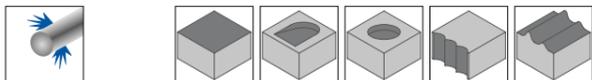
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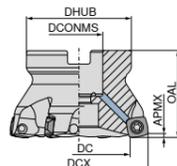
ISO designation	DC	OAL	LH	DCONMS _{H6}	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	1/min.		
CHFC.16.R.02-06-A-40-200	7.0	200	40	16	0.8	4600	XPLX 0603..	2
CHFC.16.R.02-06-B-40	7.0	89	40	16	0.8	17300	XPLX 0603..	2
CHFC.20.R.03-06-A-50-225	11.0	225	50	20	0.8	4200	XPLX 0603..	3
CHFC.20.R.03-06-B-50	11.0	101	50	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	266.10	35.00	616	266.10	35.00
720	302.11	39.00	620	302.11	39.00
025	348.62	40.00			
125	348.62	42.00			
132	384.21	41.00			
725	388.12	44.00			
035	357.29	44.00	625	338.12	44.00
032	357.29	44.00			
732	374.15	49.00			
			632	374.15	49.00

MaxiMill – HFC high-feed face mill



CERATIZIT \ Performance

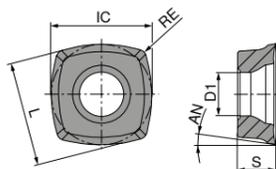


ISO designation	DC	OAL	DCONMS _{H6}	DHUB	APMX	RPMX	Insert	ZNF
	mm	mm	mm	mm	mm	1/min.		
AHFC.32.R.03-09	19.3	40	16	38	1	27700	XDLX 09T3..	3
AHFC.35.R.04-09	19.3	40	16	38	1	26700	XDLX 09T3..	4
AHFC.40.R.04-09	27.3	40	16	38	1	26400	XDLX 09T3..	4
AHFC.42.R.05-09	29.3	40	16	38	1	26100	XDLX 09T3..	5
AHFC.50.R.05-09	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	357.29	44.00			
035	388.62	47.00			
140	398.29	49.00			
142	418.29	52.00			
150	468.14	58.00			
152	488.47	61.00			
163	535.99	66.00			
16600	559.28	73.00			
040	373.99	46.00			
042	398.29	49.00			
050	442.71	55.00			
052	468.14	58.00			
063	512.67	64.00			
066	535.99	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

-M50
CTPP235

-M50
CTPM240

DRAGONSKIN

DRAGONSKIN

DRAGONSKIN



XPLX

XPLX

XPLX

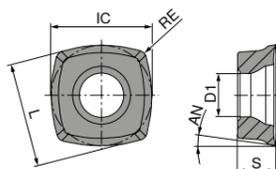
50 518 ...	PG 1H/17	50 518 ...	PG 1H/17		
	£	£	£		
558	17.38	14.77			

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

51 019 ...	PG 1B/61	51 019 ...	PG 1B/61		
	£	£	£		
405	14.25	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

-M50
CTPP235

-M50
CTPM240

DRAGONSKIN

DRAGONSKIN

DRAGONSKIN



XDLX

XDLX

XDLX

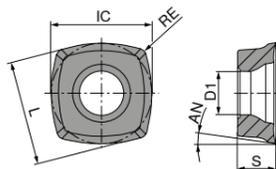
50 503 ...	PG 1H/17	50 503 ...	PG 1H/17		
	£	£	£		
558	17.72	15.06			

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

51 016 ...	PG 1B/61	51 016 ...	PG 1B/61		
	£	£	£		
408	14.68	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

-M50
CTPP235

-M50
CTPM240

DRAGONSKIN

DRAGONSKIN

DRAGONSKIN



XOHX

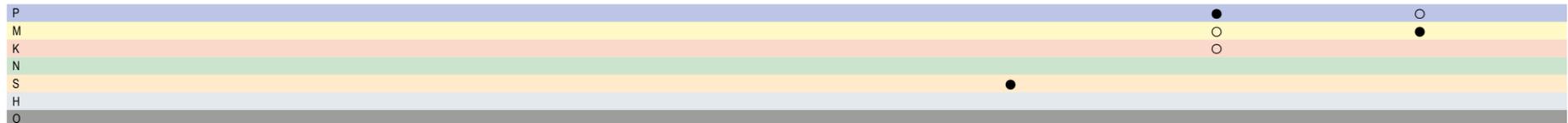
XOLX

XOLX

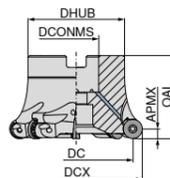
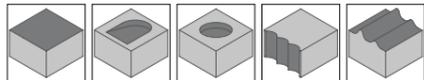
51 124 ...	PG 1H/17	51 124 ...	PG 1H/17		
	£	£	£		
16000	26.96	22.92			

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

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



MaxiMill – 251 RS Shell mill



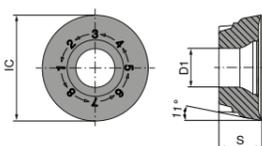
CERATIZIT \ Performance

ISO designation	DCX mm	DC mm	OAL mm	APMX mm	DHUB mm	DCONMS _{H6} mm	RPMX 1/min.	Insert	ZNF
A251.40.R.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	£ 51.00
142	£ 59.00
150	£ 61.00
152	£ 61.00
340	£ 47.00
050	£ 57.00
052	£ 63.00
063	£ 70.00
166	£ 78.00
080	£ 79.00

RPHX / RPNX

Designation	IC mm	D1 mm	S mm
RP.X 10T3..	10	3.4	3.97
RP.X 1204..	12	4.4	4.76



RPHX / RPNX

CERATIZIT \ Performance

-M31
CTC5240
DRAGONSKIN

RPHX

-M50
CTPP235
DRAGONSKIN

RPNX

-F50
CTPP235
DRAGONSKIN

RPHX

-M50
CTPM240
DRAGONSKIN

RPHX

ISO	50 493 ... PG 1H/17		51 054 ... PG 1B/61		51 051 ... PG 1B/61		51 050 ... PG 1B/61	
	£	£	£	£	£	£	£	£
10T3M4EN	550	15.90						
10T3M8EN	551	15.90						
10T3M8SN			12000	8.46	12000	11.10	420	11.10
1204M4EN	552	17.51						
1204M6EN	56200	17.51						
1204M8EN	582	17.51						
1204M8SN			125	9.72	125	12.17	425	12.17

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

1) Insert with 4 indexes

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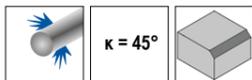
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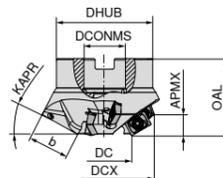
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MaxiMill – 242 Chamfer Cutter

▲ 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	434.52 65.00
14503	434.52 65.00
11503	434.52 65.00
16003	434.52 65.00
17503 ¹⁾	434.52 65.00

1) Version with Powerscrew

LDFT

CERATIZIT \ Performance

-F10
CTPX715

DRAGONSKIN



LDFT

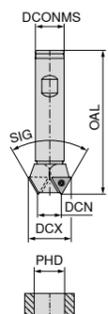
ISO designation	IC mm	D1 mm	L mm	BS mm	S mm	ISO	RE mm
LDFT 150408FR	9.52	4.4	15	1.2	4.76	150408FR	0.8

51 157 ...	PG 1A/90
00802	28.36 21.27

Indexable chamfer milling 90°

Scope of supply:
Indexable insert countersink including clamping screws

KOMET \ Performance

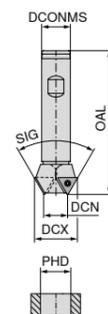


DCX mm	DCN mm	PHD mm	ZEFP	DCONMS mm	OAL mm	Insert	30 196 ...	PG U1/4D
19	7	9.5	2	16	100	TOHX 090204	19000	468.40 50.00
23	11	12.0	2	16	100	TOHX 090204	23000	472.91 50.00
26	11	12.0	1	16	100	TOHX 090204	26000	477.30 50.00
30	12	13.0	2	20	100	TOHX 140305	30000	499.98 50.00
34	16	17.0	2	20	100	TOHX 140305	34000	507.69 50.00
37	19	20.0	2	20	100	TOHX 140305	37000	507.69 50.00

Indexable chamfer milling 60°

Scope of supply:
Indexable insert countersink including clamping screws

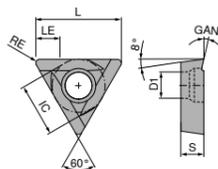
KOMET \ Performance



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	472.91 50.00
20.0	11.6	12.0	2	16	100	TOHX 090204	20000	477.30 50.00
22.0	13.6	14.0	2	16	100	TOHX 090204	22000	499.98 50.00
23.5	15.1	15.5	2	16	100	TOHX 090204	23500	507.69 50.00
25.5	17.1	17.5	2	16	100	TOHX 090204	25500	507.69 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	25.45 19.09
30200	21.85 16.39
31800	24.72 18.54
32600	27.87 20.90

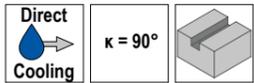
P	•	•
M	•	•
K	•	•
N	○	○
S	•	•
H	○	○
O		



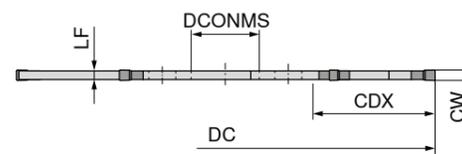
MaxiMill – Slot-SX side and face milling cutter

Scope of supply:

Side and face milling cutters **without** assembly key, **without** clamping screws



CERATIZIT \ Performance



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

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

Spare parts

for Article no.

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



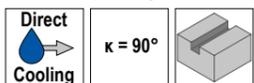
Ejector SX

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

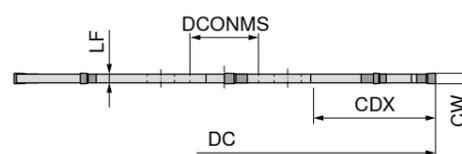
MaxiMill – Slot-SX side and face milling cutter

Scope of supply:

Side and face milling cutters **without** assembly key, **without** clamping screws



CERATIZIT \ Performance



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

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

Spare parts

for Article no.

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



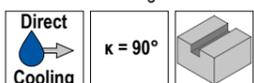
Ejector SX

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

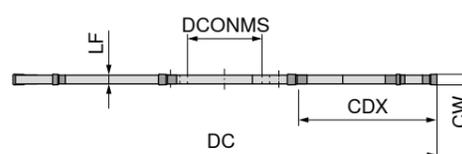
MaxiMill – Slot-SX side and face milling cutter

Scope of supply:

Side and face milling cutters **without** assembly key, **without** clamping screws



CERATIZIT \ Performance



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

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

Spare parts

for Article no.

50 385 12502
50 385 12503



Ejector SX

70 950 ...	
£	£
25.00	836
25.00	836



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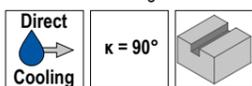


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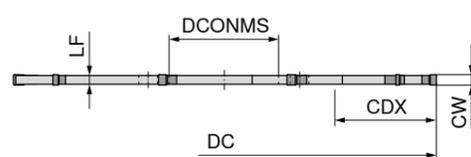
MaxiMill – Slot-SX side and face milling cutter

Scope of supply:

Side and face milling cutters **without** assembly key, **without** clamping screws



CERATIZIT \ Performance



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

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

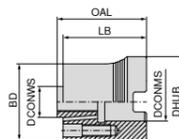
MaxiMill – Slot-SX multipurpose milling cutter adapter

Scope of supply:

Multipurpose milling cutter adapter including screws



CERATIZIT \ Performance



Designation	DCONMS mm	DCONWS _{H6} 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

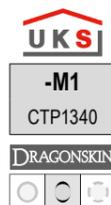
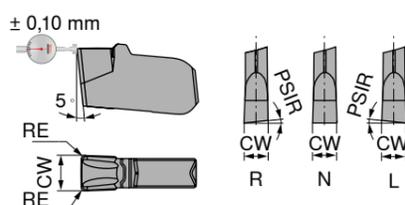
50 395 ...		PG 2E/45
£	£	
01300	182.73	23.00
02200	187.56	23.00
03200	204.77	25.00
04000	259.41	32.00
04100	259.41	32.00

Insert SX

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



CERATIZIT \ Performance



Designation	IH	CW _{+/-0,05} mm	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	11.63	10.97
623	15.56	11.67
624	16.42	12.32
625	17.47	13.10
626	18.83	14.12

P	●
M	●
K	●
N	○
S	●
H	
O	○





ADAPTERS AND ACCESSORIES



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



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



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

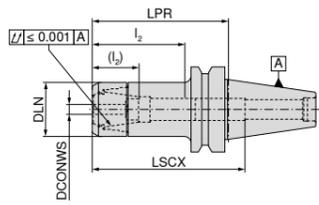
ER Precision Collet chuck – Centro-P

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

Scope of supply:

Holder without nut, without backstop

Centro-P WNT \ Performance



G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	LSCX	I ₂ (I ₂)	for collet	84 524 ...	PG Y8
	mm	mm	mm	mm	mm		£	£
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	210	177.22 59.00
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	310	240.35 69.00
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	410	288.42 95.00
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	510	368.46 102.00
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	116	267.19 67.00
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	216	177.22 59.00
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	316	240.35 69.00
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	416	320.39 102.00
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	516	379.96 109.00
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	616	479.53 126.00
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	120	267.19 67.00
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	220	177.22 59.00
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	320	240.35 69.00
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	420	320.39 102.00
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	520	379.96 109.00

LSCX = clamping depth without back stop screw for shanks
 I₂ = with back stop screw 1, dimension in brackets () = with back stop screw 2
 dimension LPR when using tightening nuts with seals 4 mm longer

Roll key

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

WNT \ Performance

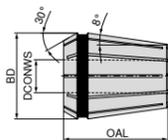


for lock nut	DLN	84 950 ...	PG Y8
	mm	£	£
426E / ER 16 CP	30	027	139.88 46.00
430E / ER 25 CP	40	054	169.84 54.00
470E / ER 32 CP + STD	50	056	152.95 51.00

ER precision collet for precision collet chucks – Centro-P

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

ER-B 2 µm WNT \ Performance



DCONWS	BD = 17 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	84 598 ...	PG Y8
mm	£	£	£	£	£	£
1.0	010	413.96 38.00				
1.1	011	269.83 67.00				
1.2	012	269.83 67.00				
1.4	014	269.83 67.00				
1.5	015	413.96 38.00				
1.6	016	269.83 67.00				
1.8	018	269.83 67.00				
2.0	020	67.24 32.00	020	100.77 33.00	020	103.96 34.00
2.2	022	186.83 60.00				
2.4	024	186.83 60.00				
2.5	025	67.24 32.00	025	100.77 33.00		
2.6	026	186.83 60.00				
2.8	028	186.83 60.00				
3.0	030	82.45 27.00	030	84.75 28.00	030	85.90 28.00
3.2	032	186.83 53.00				
3.4	034	144.85 47.00				
3.5	035	184.87 35.00	035	100.96 36.00		
3.6	036	186.83 53.00				
3.8	038	186.83 53.00				
4.0	040	82.45 27.00	040	84.75 28.00	040	85.90 28.00
4.5	045	184.87 35.00	045	100.96 36.00		
5.0	050	82.45 27.00	050	84.75 28.00	050	85.90 28.00
5.5	055	184.87 35.00	055	100.96 36.00		
5.6	056	186.83 53.00				
6.0	060	82.45 27.00	060	84.75 28.00	060	85.90 28.00
6.3	063	186.83 53.00				
6.5	065	184.87 35.00	065	100.96 36.00		

Clamping range covered: H10 corresponding to shank Ø DCONWS

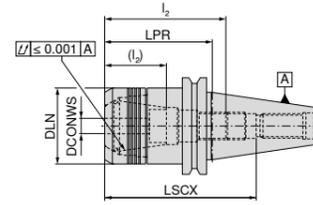
ER Precision Collet chuck – Centro-P

- ▲ 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



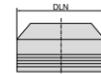
G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	LSCX	I ₂ (I ₂)	for collet	84 414 ...	PG Y8
	mm	mm	mm	mm	mm		£	£
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)	510	290.62 96.00
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)	910	320.75 106.00
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)	816	262.93 87.00
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)	516	245.95 104.00
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)	916	232.75 110.00
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)	620	245.95 104.00
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)	920	232.75 110.00
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)	520	248.88 179.00
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)	720	380.56 291.00

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



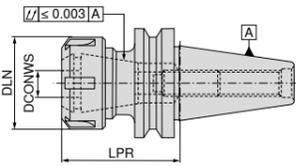
ER-Collet chuck

▲ 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_{max} 25000

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 509 ...	PG Y8/3B
short	BT 40	1 - 10	60	32	56	426E (ER16)	110	106.76 35.00
	BT 40	1 - 16	70	42	104	430E (ER25)	116	111.95 37.00
	BT 40	2 - 20	70	50	136	470E (ER32)	120	111.95 37.00
	BT 40	3 - 26	70	63	176	472E (ER40)	126	118.18 39.00
medium length	BT 40	1 - 10	120	32	56	426E (ER16)	410	122.04 40.00
	BT 40	1 - 16	120	42	104	430E (ER25)	416	122.04 40.00
	BT 40	2 - 20	120	50	136	470E (ER32)	420	122.04 40.00

Shell mill adapter

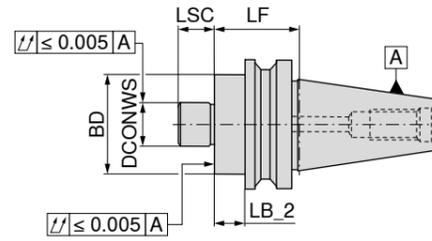
▲ With fixed drive dogs and enlarged contact face for milling cutters with transverse groove

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

Scope of supply:

Toolholder with clamping screw

WNT \ Standard



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

Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 514 ...	PG Y8/3B
short	BT 40	16	25	52	38	17	116	138.59 46.00
	BT 40	22	25	52	48	19	122	150.89 50.00
	BT 40	27	25	52	58	21	127	152.53 50.00
	BT 40	32	23	50	78	24	132	160.92 53.00
	BT 40	40	23	50	88	27	140 ¹⁾	174.98 58.00

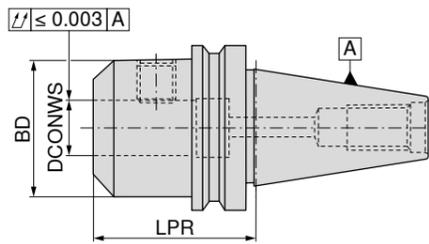
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

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



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



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

Version	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 501 ...	PG Y8/3B	82 504 ...	PG Y8/3B
short	BT 40	6	50	25	106	106.76 35.00	106	152.55 50.00
	BT 40	8	50	28	108	106.76 35.00	108	152.55 50.00
	BT 40	10	63	35	110	106.76 35.00	110	152.55 50.00
	BT 40	12	63	42	112	106.76 35.00	112	152.55 50.00
	BT 40	14	63	44	114	106.76 35.00	114	152.55 50.00
	BT 40	16	63	48	116	106.76 35.00	116	152.55 50.00
	BT 40	18	63	50	118	106.76 35.00	118	152.55 50.00
	BT 40	20	63	52	120	106.76 35.00	120	152.55 50.00
	BT 40	25	100	65	125	106.76 35.00		
	BT 40	32	100	72	132 ¹⁾	122.04 40.00		
medium length	BT 40	6	100	25	506	114.39 38.00		
	BT 40	8	100	28	508	114.39 38.00		
	BT 40	10	100	35	510	114.39 38.00		
	BT 40	12	100	42	512	114.39 38.00		
	BT 40	14	100	44	514	114.39 38.00		
	BT 40	16	100	48	516	156.79 52.00		
	BT 40	18	100	50	518	114.39 38.00		
	BT 40	20	100	52	520	156.79 52.00		
extra-long	BT 40	6	160	25	606	122.04 40.00		
	BT 40	8	160	28	608	122.04 40.00		
	BT 40	10	160	35	610	122.04 40.00		
	BT 40	12	160	42	612	122.04 40.00		
	BT 40	14	160	44	614	122.04 40.00		
	BT 40	16	160	48	616	122.04 40.00		
	BT 40	18	160	50	618	122.04 40.00		
	BT 40	20	160	52	620	122.04 40.00		
	BT 40	25	160	65	625 ¹⁾	122.04 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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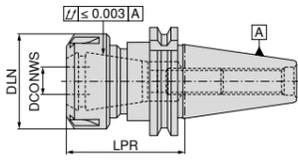
ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop

WNT \ Standard



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

Version	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 415 ... PG Y8/3B	
							£	£
short	SK 40	1 - 10	60	32	56	426E (ER16)	110	106.76 35.00
	SK 40	1 - 16	70	42	104	430E (ER25)	116	111.95 37.00
	SK 40	2 - 20	70	50	136	470E (ER32)	120	111.95 37.00
	SK 40	3 - 26	70	63	176	472E (ER40)	126	118.18 39.00
medium length	SK 40	1 - 10	120	32	56	426E (ER16)	410	122.04 40.00
	SK 40	1 - 16	120	42	104	430E (ER25)	416	122.04 40.00
	SK 40	2 - 20	120	50	136	470E (ER32)	420	122.04 40.00

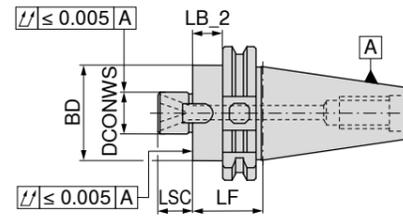
Shell mill adapter

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

Scope of supply:

Toolholder with clamping screw

WNT \ Standard



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

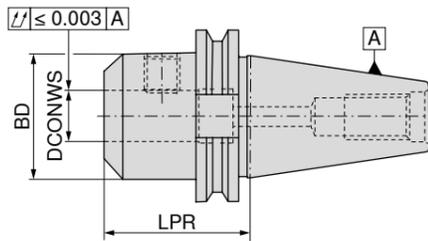
Version	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 428 ... PG Y8/3B	
							£	£
short	SK 40	16	25	44	38	17	116	138.59 46.00
	SK 40	22	25	44	48	19	122	150.89 50.00
	SK 40	27	36	55	58	21	127	152.53 50.00
	SK 40	32	31	50	78	24	132	160.92 53.00
	SK 40	40	31	50	88	27	140 ¹⁾	174.98 58.00

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



Version	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	AD/B G 2,5 n _{max} 25000		AD/Be G 2,5 n _{max} 25000	
					82 401 ... PG Y8/3B	82 404 ... PG Y8/3B	£	£
short	SK 40	6	50	25	106	106.76 35.00	106	152.55 50.00
	SK 40	8	50	28	108	106.76 35.00	108	152.55 50.00
	SK 40	10	50	35	110	106.76 35.00	110	152.55 50.00
	SK 40	12	50	42	112	106.76 35.00	112	152.55 50.00
	SK 40	14	50	44	114	106.76 35.00	114	152.55 50.00
	SK 40	16	63	48	116	106.76 35.00	116	152.55 50.00
	SK 40	18	63	50	118	106.76 35.00	118	152.55 50.00
	SK 40	20	63	52	120	106.76 35.00	120	152.55 50.00
	SK 40	25	100	65	125 ¹⁾	106.76 35.00		
	SK 40	32	100	72	132 ¹⁾	122.04 40.00		
medium length	SK 40	6	100	25	506	114.39 38.00		
	SK 40	8	100	28	508	114.39 38.00		
	SK 40	10	100	35	510	114.39 38.00		
	SK 40	12	100	42	512	114.39 38.00		
	SK 40	14	100	44	514	114.39 38.00		
	SK 40	16	100	48	516	156.79 52.00		
	SK 40	18	100	50	518	114.39 38.00		
	SK 40	20	100	52	520	156.79 52.00		
extra-long	SK 40	6	160	25	606	122.04 40.00		
	SK 40	8	160	28	608	122.04 40.00		
	SK 40	10	160	35	610	122.04 40.00		
	SK 40	12	160	42	612	122.04 40.00		
	SK 40	14	160	44	614	122.04 40.00		
	SK 40	16	160	48	616	122.04 40.00		
	SK 40	18	160	50	618	122.04 40.00		
	SK 40	20	160	52	620	122.04 40.00		
	SK 40	25	160	65	625 ¹⁾	122.04 40.00		

1) Version with two grub screws

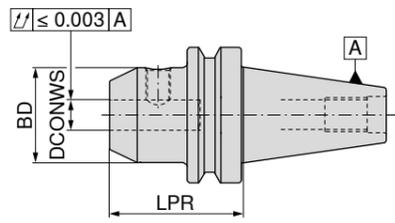
Spare parts can be found in → Chapter 16 Adaptors and accessories in the clamping technology catalogue.



Cylindrical shank adapter (Weldon) – BT-FC

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

WNT \ Standard



AD
G 2,5 n_{max} 25000

Version	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	84 552 ... PG Y8	
					£	£
short	BT-FC 30	6	50	25	006	133.50 44.00
	BT-FC 30	8	50	28	008	133.50 44.00
	BT-FC 30	10	50	35	010	133.50 44.00
	BT-FC 30	12	50	42	012	133.50 44.00
	BT-FC 30	16	63	48	016	143.34 47.00
	BT-FC 30	20	63	52	020	143.34 47.00
	BT-FC 40	6	50	25	106	169.30 56.00
	BT-FC 40	8	50	28	108	169.81 54.00
	BT-FC 40	10	63	35	110	169.81 54.00
	BT-FC 40	12	63	42	112	169.81 54.00
	BT-FC 40	16	63	48	116	169.81 54.00
	BT-FC 40	20	63	52	120	169.81 54.00
	BT-FC 40	25	90	65	125 ¹⁾	217.78 72.00
	BT-FC 40	32	100	72	132 ¹⁾	217.78 72.00
	BT-FC 50	6	63	25	306	251.28 83.00
	BT-FC 50	8	63	28	308	243.85 81.00
	BT-FC 50	10	63	35	310	243.85 81.00
	BT-FC 50	12	80	42	312	243.85 81.00
	BT-FC 50	16	80	48	316	243.85 81.00
	BT-FC 50	20	80	52	320	243.85 81.00
BT-FC 50	25	100	65	325 ¹⁾	279.16 92.00	
BT-FC 50	32	105	72	332 ¹⁾	279.16 92.00	

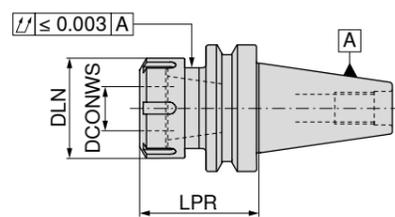
1) Version with two grub screws

ER Collet chuck – BT-FC

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

Scope of supply:
Toolholder including nut

WNT \ Standard



AD
G 2,5 n_{max} 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 ¹⁾	159.76 50.00
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	016	159.76 50.00
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	020	159.76 50.00
	BT-FC 40	1 - 10	63	28	56	426E (ER16)	110 ¹⁾	189.90 63.00
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	116	189.90 63.00
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	120	189.90 63.00
	BT-FC 50	1 - 16	70	42	104	430E (ER25)	316	258.70 86.00
	BT-FC 50	2 - 20	70	50	136	470E (ER32)	320	258.70 86.00
medium length	BT-FC 50	1 - 10	100	28	56	426E (ER16)	310 ¹⁾	258.70 86.00

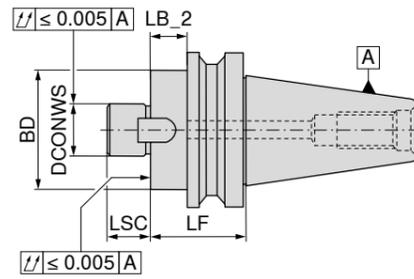
1) with 6 position lock nut

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



AD
G 6,3 n_{max} 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	147.06 49.00
	BT-FC 30	22	18	39.0	50	19	022	147.06 49.00
	BT-FC 30	27	18	39.0	60	21	027	147.06 49.00
	BT-FC 30	32	28	49.0	80	24	032	147.06 49.00
	BT-FC 40	16	8	34.0	40	17	116	176.84 58.00
	BT-FC 40	22	8	34.0	50	19	122	176.84 58.00
	BT-FC 40	27	8	34.0	60	21	127	176.84 58.00
	BT-FC 40	32	23	49.0	80	24	132	176.84 58.00
	BT-FC 40	40	23	49.0	89	27	140	176.84 58.00
	BT-FC 50	22	12	48.5	50	19	322	204.72 68.00
	BT-FC 50	27	12	48.5	60	21	327	204.72 68.00
	BT-FC 50	32	12	48.5	80	24	332	217.78 72.00
	BT-FC 50	40	17	53.5	89	27	340	217.78 72.00

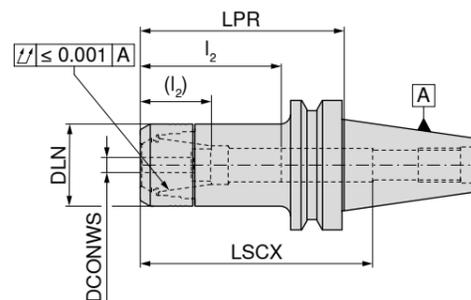
ER Precision Collet chuck – Centro-P – BT-FC

- ▲ 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_{max} = 80 bar
- ▲ also available with Balluff chip on request

Scope of supply:

Holder without nut, without backstop

Centro-P WNT \ Performance



AD
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	l ₂ (l ₂) mm	for collet	84 525 ... PG Y8	
							£	£
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	002	307.67 102.00
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	012	341.96 103.00
BT-FC 30	2 - 20	75	45	84	42 - 62 (24 - 45)	470E (ER32)	022	341.96 103.00
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	102	347.42 113.00
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	112	347.42 115.00
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	122	347.42 115.00

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



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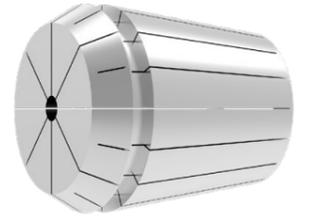
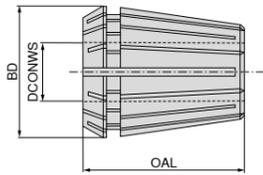


When you see this logo it's
in stock in Sheffield

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	29.16 11.00	01000	30.14 10.00	02000	31.30 11.00				
2	02000	29.16 11.00	02000	30.14 10.00	03000	23.49 7.00	03000	25.29 8.00	03000	31.92 10.00
3	03000	23.71 9.00	03000	24.92 7.00	04000	23.49 7.00	04000	25.29 8.00	04000	31.92 10.00
4	04000	23.71 9.00	04000	24.92 7.00	05000	23.49 7.00	05000	25.29 8.00	05000	31.92 10.00
5	05000	23.71 9.00	05000	24.92 7.00	06000	23.49 7.00	06000	25.29 8.00	06000	31.92 10.00
6	06000	23.71 9.00	06000	24.92 7.00	07000	23.49 7.00	07000	25.29 8.00	07000	31.92 10.00
7	07000	23.71 9.00	07000	24.92 7.00	08000	23.49 7.00	08000	25.29 8.00	08000	31.92 10.00
8	08000	23.71 9.00	08000	24.92 7.00	09000	23.49 7.00	09000	25.29 8.00	09000	31.92 10.00
9	09000	23.71 9.00	09000	24.92 7.00	10000	23.49 7.00	10000	25.29 8.00	10000	31.92 10.00
10	10000	23.71 9.00	10000	24.92 7.00	11000	23.49 7.00	11000	25.29 8.00	11000	31.92 10.00
11			11000	24.92 7.00	12000	23.49 7.00	12000	25.29 8.00	12000	31.92 10.00
12			12000	24.92 7.00	13000	23.49 7.00	13000	25.29 8.00	13000	31.92 10.00
13			13000	24.92 7.00	14000	23.49 7.00	14000	25.29 8.00	14000	31.92 10.00
14					15000	23.49 7.00	15000	25.29 8.00	15000	31.92 10.00
15					16000	23.49 7.00	16000	25.29 8.00	16000	31.92 10.00
16							17000	25.29 8.00	17000	31.92 10.00
17							18000	25.29 8.00	18000	31.92 10.00
18							19000	25.29 8.00	19000	31.92 10.00
19							20000	25.29 8.00	20000	31.92 10.00
20									21000	31.92 10.00
21									22000	31.92 10.00
22									23000	31.92 10.00
23									24000	31.92 10.00
24									25000	31.92 10.00
25									26000	31.92 10.00
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 262.56 141.00

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 281.94 141.00

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 370.28 141.00

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 454.41 150.00

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



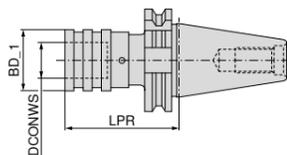
UKS

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

Quick change tap chuck with length compensation

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

WNT \ Standard

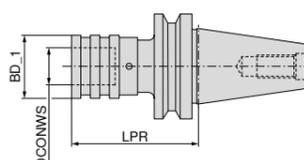


Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 428 ... PG Y8
SK 30	M6 - M20	02	101	55	31	15	320 565.40 220.00
SK 30	M3 - M12	01	60	38	19	9	312 585.68 194.00
SK 40	M6 - M20	02	100	55	31	15	420 499.14 162.00
SK 40	M3 - M12	01	60	38	19	9	412 452.32 150.00
SK 50	M6 - M20	02	83	55	31	15	520 731.76 242.00
SK 50	M3 - M12	01	62	38	19	9	512 675.54 223.00

Quick change tap chuck with length compensation

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

WNT \ Standard



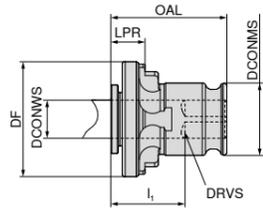
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 528 ... PG Y8
BT 30	M3 - M12	01	63	38	19	9	312 588.80 195.00
BT 30	M6 - M20	02	96	55	31	15	320 738.41 244.00
BT 40	M3 - M12	01	68	38	19	9	412 472.44 156.00
BT 40	M6 - M20	02	93	55	31	15	420 499.14 162.00
BT 50	M3 - M12	01	80	38	19	9	512 791.71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



Quick change tap adapter

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

WNT \ Standard



AD

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR
	mm	mm			mm	mm	mm	mm
01	11.0	9.0		M14	30	19	28.5	7
01	3.5	2.7	M3		30	19	28.5	7
01	4.5	3.4	M4		30	19	28.5	7
01	4.0	3.0	M3,5		30	19	28.5	7
01	2.8	2.1	M2 - M2,6		30	19	28.5	7
01	5.5	4.3		M7	30	19	28.5	7
01	6.0	4.9	M4,5 - M6	M8	30	19	28.5	7
01	7.0	5.5	M7	M10	30	19	28.5	7
01	8.0	6.2	M8	M11	30	19	28.5	7
01	9.0	7.0	M9	M12	30	19	28.5	7
01	10.0	8.0	M10		30	19	28.5	7
02	11.0	9.0		M14	46	31	46.0	11
02	6.0	4.9	M4,5 - M6		46	31	46.0	11
02	7.0	5.5	M7		46	31	46.0	11
02	8.0	6.2	M8		46	31	46.0	11
02	9.0	7.0	M9		46	31	46.0	11
02	10.0	8.0	M10		46	31	46.0	11
02	12.0	9.0		M16	46	31	46.0	11
02	14.0	11.0		M18	46	31	46.0	11
02	16.0	12.0		M20	46	31	46.0	11
02	18.0	14.5		M22 - M24	46	31	46.0	11

83 610 ...	PG Y8	£	£
110		48.71	16.00
100		48.71	16.00
101		48.71	16.00
102		48.71	16.00
103		48.71	16.00
104		48.71	16.00
105		48.71	16.00
106		48.71	16.00
107		48.71	16.00
108		48.71	16.00
109		48.71	16.00
205		66.99	22.00
200		66.99	22.00
201		66.99	22.00
202		66.99	22.00
203		66.99	22.00
204		66.99	22.00
206		66.99	22.00
207		66.99	22.00
208		66.99	22.00
209		66.99	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	mm	Nm
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	60
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	60
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	90
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	90
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	145
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	145

82 530 ...	PG Y8	£	£
030		21.99	7.00
040		18.83	6.00
050		26.71	9.00

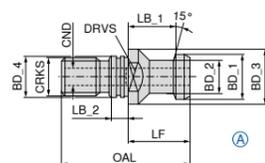
82 534 ...	PG Y8	£	£
030		21.99	7.00
040		21.99	7.00
050		28.28	9.00

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	mm	Nm
SK 30	13	9	17	13	M12	44	24	19	5	3.5	14	60
SK 40	19	14	23	17	M16	54	26	20	7	7.0	19	90
SK 50	28	21	36	25	M24	74	34	25	10	11.5	30	145

82 468 ...	PG Y8	£	£
030		17.92	6.00
040		16.25	5.00
050		22.64	7.00



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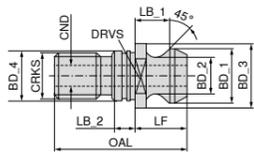
Pull studs for tool holders according to ISO 7388-1

- ▲ CAT Mazak
- ▲ Face ground flat

Scope of supply:

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

WNT \ Standard



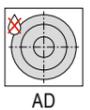
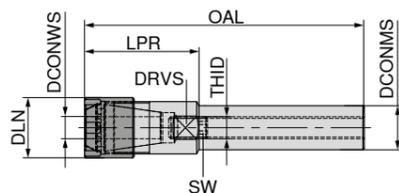
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
SK 40	18.79	12.44	21.8	17	M16	41.26	16.25	11.17	4.0	7.0	19	90
SK 50	29.10	19.60	37.0	25	M24	65.50	25.55	17.95	5.5	11.5	30	145

82 487 ...	PG Y8
	£
040	16.25 5.00
050	23.83 8.00

ER collet chuck with mini clamping nut

- ▲ with cylindrical shank

WNT \ Standard



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

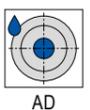
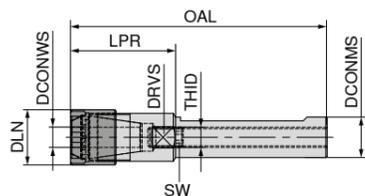
83 453 ...	PG Y8
	£
081 ¹⁾	156.92 52.00
122	331.88 110.00
163	326.96 108.00
164	331.88 110.00
165	326.96 108.00
204	333.86 77.00
254	370.56 89.00
256	340.83 113.00

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

- ▲ with cylindrical shank and clamping flat

WNT \ Standard



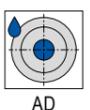
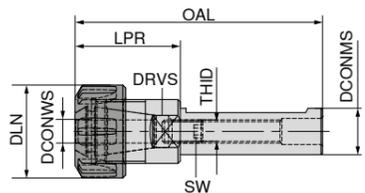
DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	for collet
mm	mm	mm	mm	mm		mm	
20	1 - 10	168	28	22	M11x1	17	426E (ER16)
20	1 - 13	138	38	28	M11x1	22	428E (ER20)
20	1 - 16	146	46	35	M14x1	27	430E (ER25)
25	1 - 13	168	28	28	M14x1	22	428E (ER20)
25	1 - 16	189	39	35	M18x1	27	430E (ER25)

83 454 ...	PG Y8
	£
204	333.86 77.00
206	188.14 56.00
208	196.96 65.00
254	370.56 89.00
256	340.83 113.00

ER Collet Chuck

- ▲ with cylindrical shank and clamping flat

WNT \ Standard



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

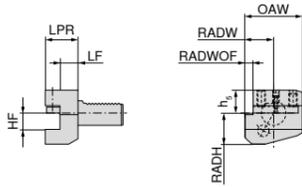
83 455 ...	PG Y8
	£
401	190.32 66.00
402	246.97 81.00
405	228.38 76.00

Note: Spanner to be ordered separately.



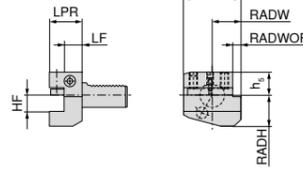
Radial tool holders, short

WNT \ Performance



B2

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



B1



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

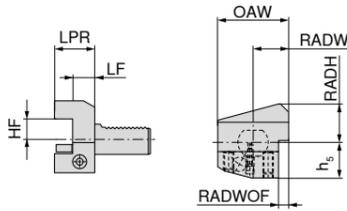


Right-hand

82 185 ...	PG Y8
£	£
160	224.30 74.00
200	284.44 68.00
201	286.85 78.00
300	487.99 62.00
301	344.43 103.00
400	494.83 63.00
500	320.43 106.00

Radial tool holders, overhead, short

WNT \ Performance



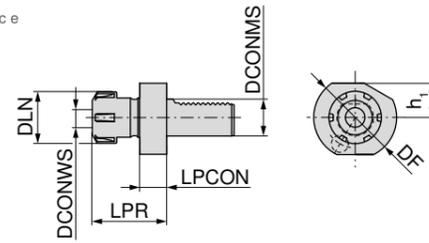
Right-hand

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

82 193 ...	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

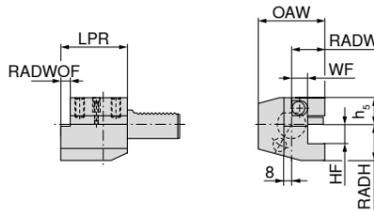


DCONMS _{h6}	DCONWS	DF	DLN	h ₁	LPR	LPCON	for collet
mm	mm	mm	mm	mm	mm	mm	
16	1 - 10	40	28	18.0	43.5	14	426E (ER16)
16	1 - 13	40	34	18.0	44.0	14	428E (ER20)
20	1 - 16	50	42	23.0	57.0	18	430E (ER25)
20	2 - 20	50	50	23.0	62.0	18	470E (ER32)
30	1 - 16	68	42	28.0	57.0	22	430E (ER25)
30	2 - 20	68	50	28.0	75.0	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	220.84 106.00
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 _{h6}	HF _{0/-0,1}	OAW	RADW	WF _{0/+0,3}	h ₅	RADH	LPR	RADWOF
mm	mm	mm	mm	mm	mm	mm	mm	mm
30	20	70	35.0	17.0	28.0	38	70	10.0
40	25	85	42.5	20.5	32.5	48	85	12.5
50	32	100	50.0	25.5	35.0	60	100	16.0

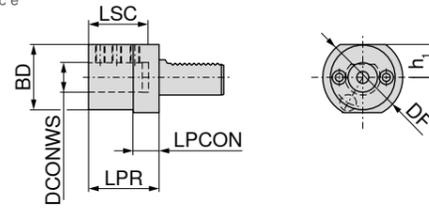
82 211 ...	PG Y8
£	£
300	248.06 72.00
400	253.66 84.00
500	269.85 122.00

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

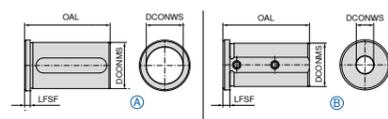
82 268 ...	PG Y8
£	£
160	277.41 92.00
161	244.74 70.00
162	244.74 70.00
163	244.74 70.00
164	244.74 70.00
200	196.83 65.00
201	196.83 65.00
202	196.83 65.00
203	196.83 65.00
204	196.83 65.00
205	196.83 65.00
300	194.83 63.00
301	194.83 63.00
302	194.83 63.00
303	194.83 63.00
304	194.83 63.00
305	194.83 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	167.34 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	131.26 43.00
332	131.26 43.00
336	131.26 43.00
340	131.26 43.00
345	131.26 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



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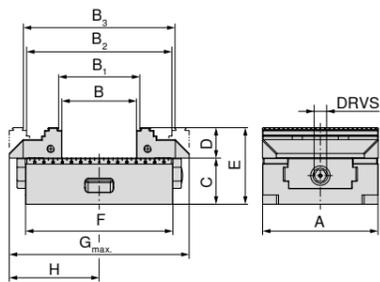


When you see this logo it's
in stock in Sheffield

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

80 878 ...	PG Y4
£	£
08700	743.00 650.00
08800	845.00 750.00
15300	899.00 850.00

Base plate, round



80 899 ...	PG Y4
£	£
125	523.00 380.00

MNG indexing bolt



80 899 ...	PG Y4
£	£
51500	46.00 11.00

MNG pull studs



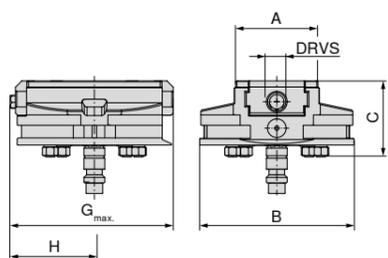
80 899 ...	PG Y4
£	£
025	45.00 32.00

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

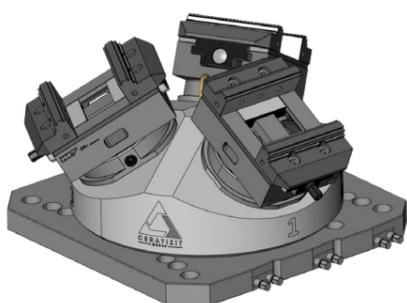
- ▲ Sealed centric vice for Erowa ITS 148
- ▲ Ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability

ZSG 4 WNT \ Standard



A	C	F	G _{max}	DRVS	MXC	WT
mm	mm	mm	mm	mm	kN	kg
80	73	148	130	12	25	5,6

80 878 ...	PG Y4
£	£
08900	1,254.00 1,100.00



i Talk to us about your bespoke workholding requirements we can make for you in our Sheffield Tech 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:

www.ceratizit.com/int/en/sustainability.html

Our warehouse in your machine shop...

Access to cutting tools 24/7
With full control.

Major cashflow benefits
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
Only one consolidated invoice per month, with no management fee.

For all vending customers
We will collect your used carbide, recycle it back into our system and pay you a 10% premium on market rate for it, current rate £16.50 per Kg.



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