

Metric Products

The entire content of this chapter can be found
in the Metric Catalog.

Use the QR code or the link shown below.



<https://cutting.tools/us/en/digitalcatalogmetric>



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WNT \ Performance

Premium quality tools for high performance.

The premium quality tools from the **WNT Performance** product line have been designed for specific applications and are distinguished by their outstanding performance. If you make high demands on the performance of your production and want to achieve the very best results, we recommend the Premium tools in this product line.

WNT \ Standard

Quality tools for standard applications.

The quality tools of the **WNT Standard** product line are high quality, powerful and reliable and enjoy the highest trust of our customers worldwide. Tools from this product line are the first choice for many standard applications and guarantee optimal results.

Symbol explanation

Shank



Plain cylindrical shank



Cylindrical shank with lateral driving face „Weldon“



Cylindrical shank with angled clamping flat „Whistle Notch“



Cylindrical shank with lateral driving face (similar to ISO 9766)

Version



Internal coolant supply



self-centering



▲ Pilot hole necessary
▲ min. 2xD

- = Main Application
- = Extended application

Tool types

HFDS

An explanation of the tool types can be found on →
Page 158.

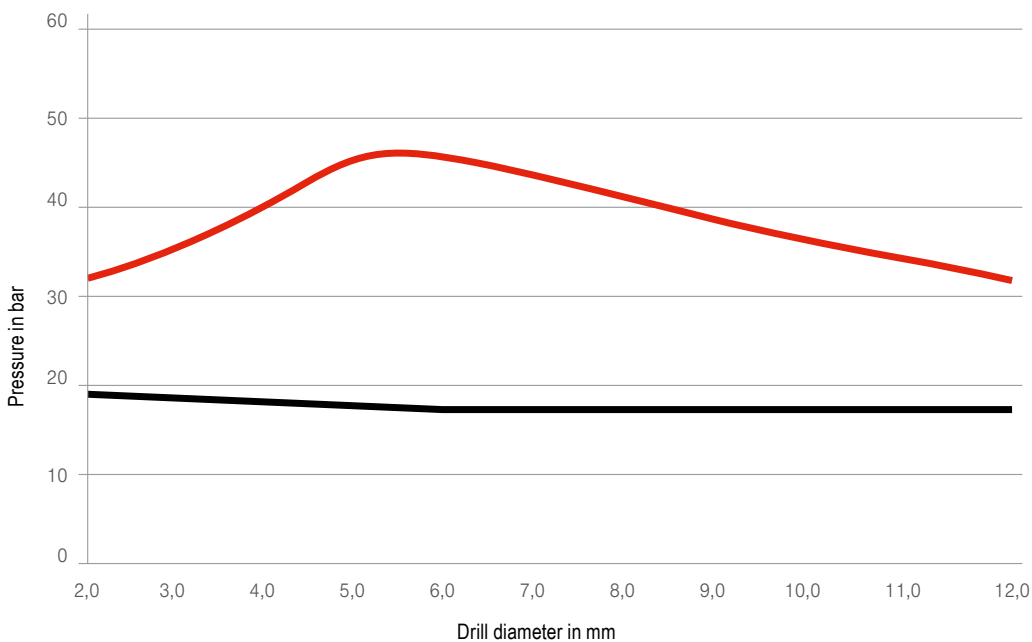


Recommended application – WTX Performance Tools

● = Main Application
○ = Extended application

WTX – Type		Solid drilling	Flat bottom hole	High-feed machining	High speed machining	Stack plate drilling	Drilling through a cross hole	Angled hole entrance	Angled drill exit	Drilling a precise fit	deep holes	miniature holes
Monobloc Tool	WTX – UNI	●				●	●					
	WTX – Speed UNI	●			●	●						
	WTX – HFDS	●		●		●	●					
	WTX – Feed UNI	●		●		●	●	●	●			
	WTX – Speed VA	●			●							
	WTX – VA	●										
	WTX – Ti	●					●					
	WTX – AL	●										
	WTX – 180	●	●				●	●	●			
	WTX – Quattro 4F	●							○			
	WTX – Feed BR	●		●		○	○	○	○	●		
	WTX – H	●										
	WTX – TB	●									●	
	WTX – Micro	●									●	●
	WTX – Mini	●										●
Modular	WTX – Change Feed UNI	●		●				●	●			
	WTX – Change Drill heads	●										

Coolant diagram



— Recommended coolant pressure
— Minimum coolant Pressure

Additional application criteria for WTX drills can be found on → **Page 159**.

Toolfinder

Product name	Tool type	Description	Internal coolant supply	Replaceable cutting heads	1xD	3xD	5xD	8xD	12xD	Video
Solid carbide drills										
WTX	UNI	▲ highest performance for all materials up to 1200 N/mm ² ▲ suitable for volume production	✗ ✓			13-17 24-27	36-39 42-46	60-63		▶
	UNI	▲ Quality tool for standard applications ▲ Attractive price-performance ratio	✗ ✓			18-21 28-31	40 51-54	64	72	▶
WTX	Speed UNI	▲ High-performance drill for high cutting speeds ▲ Innovative DPX14S Dragonskin ▲ New cutting edge geometry	✓			24-27	42-46	60-63		▶
WTX	HFDS	▲ High-feed drill with four cutting edges ▲ Innovative cutting edge geometry enables maximum positioning accuracy ▲ Optimal cooling with four spiral coolant holes	✓			35	59			▶
WTX	Feed UNI	▲ High-feed drill with three cutting edges ▲ Suitable for difficult drilling applications ▲ High positioning accuracy	✓				58	68	73	▶
WTX	Quattro 4F	▲ with additional guide land for best alignment accuracy, concentricity and positional accuracy	✓				42-46	60-63	69-71	
WTX	180	▲ for inclined surfaces up to 45° and flat bottom holes	✓			34	57			
	N	▲ uncoated solid carbide drills ▲ universal application	✗			23	41			
Mini-drill										
WTX	MINI	▲ Available from Ø 0.1 mm ▲ Standard shank Ø 3.0 mm for use in heat shrink adapters	✗				78			
WTX	MICRO	▲ Universal high-performance micro drill ▲ Specialised geometry and coating ▲ WTX - Micro (5xD) pilot drill for deep hole twist drill	✓				79	79	80	▶
Drill Reamers										
WTX	Feed BR/BR100	▲ solid carbide high performance drill reamer ▲ excellent surface quality ▲ for blind and through holes	✓			83+85	84+85			
Stepped drills										
WTX	SB	▲ Solid carbide short step drill for core hole plus countersink for thread cutting and thread forming	✗ ✓			86 87				
NC Spot Drill										
	NC-A	▲ spiral fluted ▲ 90°, 120°, 142°	✗		88+89					
Centre drills										
	ZB	▲ spiral fluted ▲ 120°	✗		90					
Drill with replaceable cutting heads										
WTX	Change Feed UNI	▲ three-edged exchangeable head drill with solid carbide drill head type Feed UNI from Ø 14.0 mm to 32.0 mm ▲ universal application (steel, cast iron)	✓	91+92	93	93	94			▶
WTX	Change UNI	exchangeable head drill with type UNI solid carbide drill head from Ø 12.0 mm to 41.0 mm for steels <700 N/mm ²	✓	95-100	101	101	102	102	103	▶
WTX	Change P	▲ exchangeable head drill with type P solid carbide drill head from Ø 12.0 mm to 41.0 mm ▲ for steels >700 N/mm ²	✓	95-100	101	101	102	102	103	▶
WPC	Change UNI	▲ Indexable insert drill with solid carbide indexable insert type UNI from Ø 14.0 to 30.0 mm ▲ Universal application on steel and cast iron materials	✓	104	105	105				
Exchangeable head NC spot drill										
	NC-A	▲ NC spot drill – exchange head system ▲ 90°, 120°, 142°	✗	107						

✗ = without through coolant












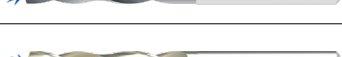






✓ = with thru coolant

Toolfinder

	Product name	Tool type	Description	Internal coolant supply	Replaceable cutting heads	1xD	3xD	5xD	8xD	12xD	Video
Solid carbide drills											
Stainless steel	WTX	VA	<ul style="list-style-type: none"> ▲ highest performance for corrosion and acid resistant steels and aluminium ▲ for volume production 	✗ ✓			13-17 24-27	36-39 47-50	65-67		
		VA	<ul style="list-style-type: none"> ▲ Quality tool for corrosion-resistant and acid-resistant steels and aluminium ▲ Attractive price-performance ratio 	✗ ✓			18-21 28-31	51-54			
	WTX	Speed VA	<ul style="list-style-type: none"> ▲ double the cutting speed in corrosion and acid-resistant steels and aluminium 	✓				47-50		69-71	
Drill with replaceable cutting heads											
	WTX	Change VA	<ul style="list-style-type: none"> ▲ exchangeable head drill with solid carbide drill head type VA from Ø 12.0 mm to 32.0 mm 	✓	95-100	101	101	102	102	103	▶
Solid carbide drills											
Cast iron	WTX	UNI	<ul style="list-style-type: none"> ▲ highest performance for all materials up to 1200 N/mm² ▲ suitable for volume production 	✗ ✓			13-17 24-27	36-39 42-46	60-63		▶
	Drill with replaceable cutting heads										
	WTX	Change GG	<ul style="list-style-type: none"> ▲ exchangeable head drill with solid carbide drill head type GG from Ø 12.0 mm to 32.0 mm 	✓	95-100	101	101	102	102	103	▶
Solid carbide drills											
Non-ferrous metals	WTX	AL	<ul style="list-style-type: none"> ▲ solid carbide high performance drill, especially for the machining of aluminum, copper and brass ▲ for volume production 	✓				47-50	65-67	69-71	
	Drill with replaceable cutting heads										
	WTX	Change AL	<ul style="list-style-type: none"> ▲ exchangeable head drill with solid carbide drill head type AL from Ø 12.0 mm to 32.0 mm 	✓	95-100	101	101	102	102	103	▶
Solid carbide drills											
Heat-resistant	WTX	Ti	<ul style="list-style-type: none"> ▲ highest performance in titanium, titanium alloys and heat resistant alloys 	✓			32+33	55+56			
Solid carbide drills											
Hardened steel	WTX	H	<ul style="list-style-type: none"> ▲ highest performance in hardened steel from 46 to 70 HRC 	✗			22				▶
Deep Hole Drills											
	Product name	Tool type	Description	Internal coolant supply	16xD	20xD	25xD	30xD	40xD	50xD	Video
Steel/Universal	WTX	MICRO	<ul style="list-style-type: none"> ▲ Available from Ø 0.8 mm ▲ Universal high-performance micro deep hole twist drill ▲ Specialised geometry and coating ▲ Hole depths up to 30xD possible 	✓	80	81	81	82			▶
	WTX	CP 20 UNI	<ul style="list-style-type: none"> ▲ Ensures an even safer deep hole drilling process ▲ Excellent alignment precision ▲ For optimal guidance of the deep hole twist drill for hole depths > 30xD 	✓		74					
	WTX	TB UNI	<ul style="list-style-type: none"> ▲ solid carbide deep hole drill to 50xD without peck ▲ 4 facet geometry for excellent alignment accuracy 	✓	75	75	76	76	77	77	
Non-ferrous metals	WTX	TB ALU	<ul style="list-style-type: none"> ▲ solid carbide deep hole drills, up to 30xD without pecking ▲ 6-facet head geometry for excellent alignment accuracy 	✓	75	75	76	76			

✗ = without through coolant ✓ = with thru coolant

Overview Solid Carbide Drills

Product name	Tool type	Boring depth	Diameter in inch	Material	Coating	Performance	Standard
			Ø DC	Steel P Stainless steel M Cast iron K Non-ferrous metals N Heat-resistant S Hardened steel H Non metal materials O	<input checked="" type="checkbox"/> coated <input type="checkbox"/> uncoated	WNT / Performance WNT / Standard	Page No.
3xD without thro' coolant							
	WTX	UNI	≤ 3xD	3-25	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	13-17
	WTX	VA	≤ 3xD	2-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	13-17
		UNI	≤ 3xD	1-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	18-21
		VA	≤ 3xD	1-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	18-21
	WTX	H	≤ 3xD	2,55-14	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	up to 70 HRC 22
		N	≤ 3xD	0,5-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input type="checkbox"/>	23
3xD with thro' coolant							
	WTX	Speed UNI	≤ 3xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	24-27
	WTX	UNI	≤ 3xD	3-25	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	24-27
	WTX	VA	≤ 3xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	24-27
		UNI	≤ 3xD	1-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	28-31
		VA	≤ 3xD	1-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	28-31
	WTX	Ti	≤ 3xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	32+33
	WTX	180	≤ 3xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	180° Point angle 34
	WTX	HFDS	≤ 3xD	6-16	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	4 flute 35
5xD without thro' coolant							
	WTX	UNI	≤ 5xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	36-39
	WTX	VA	≤ 5xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	36-39
		UNI	≤ 5xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input checked="" type="checkbox"/>	40
		N	≤ 5xD	0,5-16	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	<input type="checkbox"/>	41

Overview Solid Carbide Drills

Product name	Tool type	Boring depth	Ø DC	Material	Coating	Performance	Standard
5xD with thro' coolant							
	WTX	Speed UNI	≤ 5xD	3-18	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	42-46
	WTX	UNI	≤ 5xD	3-25	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	42-46
	WTX	Quattro 4F	≤ 5xD	3-18	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	42-46
	WTX	Speed VA	≤ 5xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	47-50
	WTX	VA	≤ 5xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	47-50
	WTX	AL	≤ 5xD	2,5-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	47-50
		UNI	≤ 5xD	1-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	51-54
		VA	≤ 5xD	1-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	51-54
	WTX	Ti	≤ 5xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	55+56
	WTX	180	≤ 5xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	180° Point angle 57
	WTX	Feed UNI	≤ 5xD	4-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	3 flute 58
	WTX	HFDS	≤ 5xD	6-16	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	4 flute 59
8xD with thro' coolant							
	WTX	Speed UNI	≤ 8xD	3-18	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	60-63
	WTX	UNI	≤ 8xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	60-63
	WTX	Quattro 4F	≤ 8xD	3-18	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	60-63
		UNI	≤ 8xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	64
	WTX	VA	≤ 8xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	65-67
	WTX	AL	≤ 8xD	3-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	65-67
	WTX	Feed UNI	≤ 8xD	4-20	Steel, Stainless steel, Cast iron, Non-ferrous metals, Heat-resistant, Hardened steel, Non metal materials	coated	3 flute 68


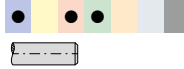

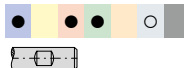

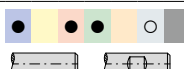







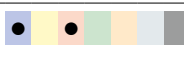

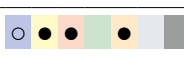

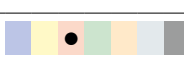

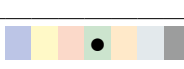

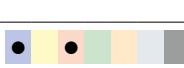








Overview Solid Carbide Drills

Product name	Tool type	Boring depth	Diameter in inch	Material compatibility	Coating	Performance	Standard
			Ø DC	P Steel M Stainless steel K Cast iron N Non-ferrous metals S Heat-resistant H Hardened steel O Non metal materials	<input checked="" type="checkbox"/> coated <input type="checkbox"/> uncoated	WNT / Performance WNT / Standard	Page No.
12xD with thro' coolant							
	WTX	Speed VA	≤ 12xD	3-17,5	● ● ● ○ ● ● ●	<input checked="" type="checkbox"/>	69-71
	WTX	Quattro 4F	≤ 12xD	3-18	● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	69-71
	WTX	AL	≤ 12xD	3-20	● ● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	69-71
		UNI	≤ 12xD	3-20	● ● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	72
	WTX	Feed UNI	≤ 12xD	4-20	● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	73
Deep hole twist drill 16xD to 50xD							
	WTX	CP 20 UNI	≤ 20xD	3-9	● ● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	74
	WTX	TB UNI	≤ 16xD ≤ 20xD	2-12	● ● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	75
	WTX	TB UNI	≤ 25xD ≤ 30xD	2-12	● ● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	76
	WTX	TB UNI	≤ 40xD	3-9	● ● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	77
	WTX	TB UNI	≤ 50xD	3-6,8	● ● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	77
	WTX	TB ALU	≤ 16xD ≤ 20xD	2-12	● ● ● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	75
	WTX	TB ALU	≤ 25xD ≤ 30xD	2-12	● ● ● ● ● ● ○ ● ●	<input checked="" type="checkbox"/>	76

Overview Solid Carbide Drills

Product name	Tool type	Boring depth	Diameter in inch	Material compatibility	Coating	Performance	Standard
Ø DC				P Steel M Stainless steel K Cast iron N Non-ferrous metals S Heat-resistant H Hardened steel O Non metal materials	<input checked="" type="checkbox"/> coated <input type="checkbox"/> uncoated	WNT / Performance WNT / Standard	Page No.
Micro drill 5xD to 30xD							
	WTX	MINI	≤ 5xD	0,1–2,9		<input checked="" type="checkbox"/>	78
	WTX	MICRO	≤ 5xD	0,8–2,9		<input checked="" type="checkbox"/>	79
	WTX	MICRO	≤ 8xD	0,8–2,9		<input checked="" type="checkbox"/>	79
	WTX	MICRO	≤ 12xD	0,8–2,9		<input checked="" type="checkbox"/>	80
	WTX	MICRO	≤ 16xD	0,8–2,9		<input checked="" type="checkbox"/>	80
	WTX	MICRO	≤ 20xD	0,8–2,9		<input checked="" type="checkbox"/>	81
	WTX	MICRO	≤ 25xD	0,8–2,9		<input checked="" type="checkbox"/>	81
	WTX	MICRO	≤ 30xD	0,8–2,9		<input checked="" type="checkbox"/>	82
Drill Reamers							
	WTX	Feed BR100	≤ 3xD ≤ 5xD	3,97 12,02		<input checked="" type="checkbox"/>	83+84
	WTX	Feed BR	≤ 3xD	4–16		<input checked="" type="checkbox"/>	85
	WTX	Feed BR	≤ 5xD	4–20		<input checked="" type="checkbox"/>	85
Stepped drills							
	WTX	SB		2,5–14		<input checked="" type="checkbox"/>	86
	WTX	SB		2,8–15		<input checked="" type="checkbox"/>	86
	WTX	SB		3,3–14		<input checked="" type="checkbox"/>	87
	WTX	SB		3,7–15		<input checked="" type="checkbox"/>	87

Overview Solid Carbide Drills

Product name	Tool type	Point angle	Diameter in inch	Material compatibility	Coating	Performance	Standard
SIG	Ø DC	90° 120° 142°	Steel Stainless steel Cast iron Non-ferrous metals Heat-resistant Hardened steel Non metal materials	coated uncoated	WNT / Performance WNT / Standard	Page No.	
NC Spot Drill							
	NC-A	90° 120° 142°	2-20		<input type="checkbox"/>		88
	NC-A	90° 120° 142°	2-20		<input checked="" type="checkbox"/>		88
	NC-A	90° 120° 142°	3-16		<input checked="" type="checkbox"/>	long version	89
Centre drills							
	ZB	120°	0,5-6,3		<input type="checkbox"/>		90
Drill with replaceable cutting heads							
Replaceable cutting heads							
	WTX	Change Feed	14-32		<input checked="" type="checkbox"/>	3 Edges	91+92
	WTX	Change UNI	12-41		<input checked="" type="checkbox"/>		95-100
	WTX	Change P	12-41		<input checked="" type="checkbox"/>		95-100
	WTX	Change VA	12-32		<input checked="" type="checkbox"/>		95-100
	WTX	Change GG	12-32		<input checked="" type="checkbox"/>		95-100
	WTX	Change ALU	12-32		<input checked="" type="checkbox"/>		95-100
	WPC	Change UNI	14-30		<input checked="" type="checkbox"/>		104
Tool holder							
	WTX	Change Feed	14-32			3xD / 5xD / 8xD	93+94
	WTX	Change	12-41			1xD / 3xD / 5xD / 8xD / 12xD	101-103
	WPC	Change	14-30			3xD / 5xD	105
MultiChange NC spot drill							
	NC-A	90° 120° 142°	8-20		<input checked="" type="checkbox"/>		107



WV
83 726 612
Ø 12 x 85mm
6.2.3 425000 1mm