



PCD DRILLING TOOLS

PCD Solid Nib Drills

PCD Tipped Drills

PCD Tipped Drills With Internal Coolant

PCD Step Drills

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PCD Tipped Drills	521 522	E09	-	E12
PCD Tipped Drills With Internal Coolant	523 524	E13	-	E14
PCD Step Drills	531 532 534	E15		

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Overview

We manufacture a comprehensive range of PCD drills and step drills designed for both rough hole processing and finish cutting. Our drills feature various pointed geometries to cater to all drilling applications, whether it's for pre-cast, through, or blind holes. However, it's essential to consider other factors such as hole depth, wall thickness, and whether the cuts are interrupted or non-interrupted.

Our PCD drills and step drills are widely utilized in drilling aluminum, magnesium, wood, plastics, CFRP, GRP, and other new composite materials. They exhibit exceptional wear-resistant properties, especially when machining highly abrasive materials, resulting in significantly longer tool life compared to traditional carbide drills.



HELITRONIC POWER DIAMOND

With the assistance of our machine, we can machine spiral flutes in both carbide and PCD materials during a single clamping cycle. This is achieved using a combination of rotary erosion and grinding. This method offers great flexibility and ensures the production of high-quality tools.



ZOLLER VENTURION

The device allows us to measure tools automatically, ensuring high precision and efficiency.

Introduce of PCD Material



A2DS CHEVRON

Coarse grain sizes PCD material

- Tool life extended 10 times longer than carbide drills
- Half-round disc formats available
- EDM segments available and cut to order



A3DP PLANAR

Fine grain sizes PCD

- The material has almost infinite flexibility in drill point geometry
- Tool life is more than 10 times longer than tungsten carbide drills
- Large rake angles possible for lower tool forces



A3DC CONE

Medium grain sizes PCD material

- Significantly increase wear resistance over traditional coated carbide drills
- Consistent performance over the tool life
- Suitable for drilling CFRP stacked with aluminum and/or titanium

Tooling life of PCD Drill

Over 25 times than carbide drills

100%

Tooling life of Carbide Drill

10%

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Main Products

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1.PCD Solid-Nib Spiral Drill

The solid-nib drill is formed with a solid cylinder PCD material, developed specifically for the drilling of composites and composite/ Stack/AL/Ti applications, the solid nib has strong resistance to cracking and chipping, and the stability of the tool is significantly improved.

Process	512.
Material	Carbide Shank Solid PCD Nib
Accuracy	no-ferrous materials (check ① for more details)
Treatment	over10000 holders for sic working



2.PCD Mic Twist Drill(Solid-Nib)

The micro twist drill is a specific type of solid carbide drill. It has a drill tip diameter ranging from 1mm to 2mm, and its tooling life is obviously longer than that of traditional carbide drills.

Process	511.
Material	Carbide Shank Solid PCD Nib
Accuracy	no-ferrous materials (check ① for more details)
Treatment	25x than carbide drills



3.PCD Tipped Twist Drill

We use the latest material, CHEVRON, to braze onto the top of the carbide body. Then, we machine both the tool body and the PCD area at once using electrical discharge machining (EDM), resulting in consistent tools. These drills are widely used in new composite materials such as aluminum alloy, sic, carbon fiber, PMMA, and plastic.

Process	521.
Material	Carbide Shank PCD Tip
Accuracy	no-ferrous materials (check ① for more details)
Treatment	25x than carbide drills



4.PCD Tipped Twist Drill With Coolant

The PCD diamond brazed onto the entire end of the solid carbide body increases tool life over carbide. Additionally, the internal spiral coolant provides several benefits that save time and offer better tooling life. By reducing the temperature of both the drill and the drilling surface and increasing lubricity, the tool is subject to less wear and tear.

Process	524.
Material	Carbide Shank PCD Tip
Accuracy	no-ferrous materials (check ① for more details)
Treatment	internal coolant



5.PCD Step Drill

We have tipped the PCD blade on the top and chamfer of the drills. This kind of PCD step drill can directly locate the position of the holes and correctly drill the 45° or 60° chamfers. It helps workers reduce working difficulties and workload.

Process	534.
Material	Carbide Shank PCD Tip
Accuracy	no-ferrous materials (check ① for more details)
Treatment	internal coolant

Common Applications

- Aluminum alloys
- Silicon-aluminum alloys
- Brass and bronze alloys
- Copper alloys
- Zinc alloys
- Magnesium alloys
- Presintered tungsten carbide
- Sintered tungsten carbide
- Ceramics (unfired)
- Graphite
- Epoxy resins
- Fiberglass composites
- Carbon-phenolic
- Hard rubber
- Plastics

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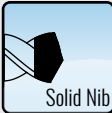
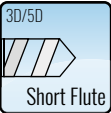
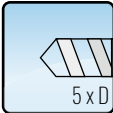
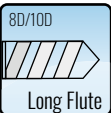
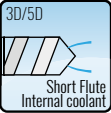
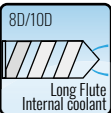
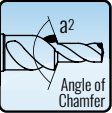
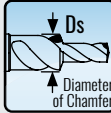
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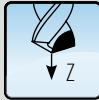
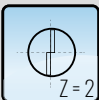
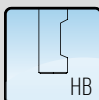
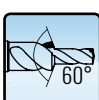
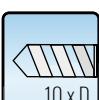
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5 2 2. 040 . 05D . 130a

TYPE OF DRILLS	TYPE OF BLADE	TYPE OF FLUTES	DIAMETER OF CUTTING	DRILLING LENGTH (length of flutes)	ANGLE DRILL POINT	ANGLE OF CHAMFER (For Step drill only)	DIAMETER OF CHAMFER (For Step drill only)
 PCD	 Solid Nib	 Short Flute	 D1	 5 x D	 a		
5 PCD	1 Solid Nib	1 SHORT FLUTES (3XD 5XD)	040 D1	05D FL	130 a		
	 Tiped	 Long Flute					
	2 PCD Tiped	2 LONG FLUTES (8XD 10XD)					
	 Step Drill	 Short Flute Internal coolant					
	3 PCD Step Drill	3 SHORT FLUTES WITH COOLANT (3XD 5XD)					
		 Long Flute Internal coolant					
		4 LONG FLUTES WITH COOLANT (8XD 10XD)					
						 a2	 Ds
						60 a2	060 Ds

Graphic Symbols

	The tools are suitable for aluminum and aluminum alloy machining		The angle of the drill point is 130 degrees
	The tools are suitable for machining the material: Sic and Ceramics		Machining direction: Z Machining in direction X Y and limited in the Z direction
	The tools are suitable for machining the material: CFRP, GFRP, Graphite		The tools have an internal coolant channel
	The tools can be re-grinded		The tools have two flutes
	The tools are suitable for machining the hardness material: tungsten carbide and non-ferrous hardness materials		Shank design HA
	The tools are suitable for machining the material non-ferrous metal: Copper, Brass, wood		Shank design HB
	The tools have carbide shank		The angle of the chamfer is 60 degree (Only for the step drills)
	Drilling length / length of flutes(three times of D2)		The PCD material on the top of tools is solid-nib type
	Drilling length / length of flutes(five times of D2)		The PCD material is brazed and tipped to the carbide shank
	The tools have carbide shank		The tools have one or more chamfers
	Drilling length / length of flutes(eight times of D2)		

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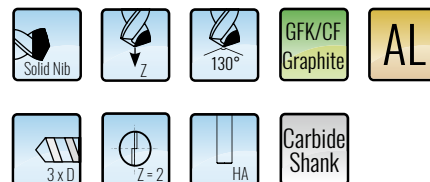
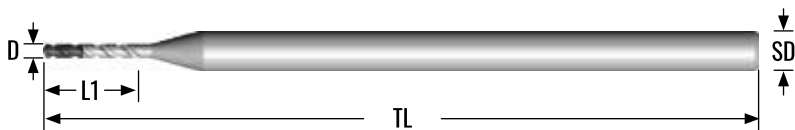
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511.3D

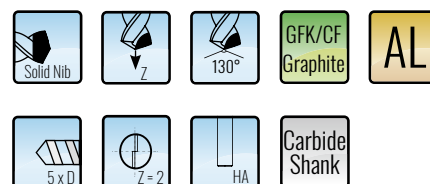
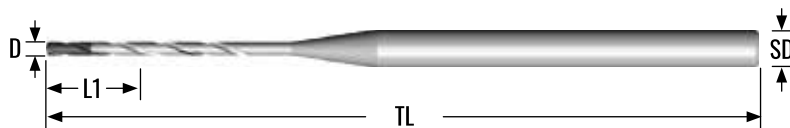


Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
511.010.03D.130a	1.0	9	40	3	130°
511.011.03D.130a	1.1	9	40	3	130°
511.012.03D.130a	1.2	9	40	3	130°
511.013.03D.130a	1.3	9	40	3	130°
511.014.03D.130a	1.4	9	40	3	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
511.015.03D.130a	1.5	9	40	3	130°
511.016.03D.130a	1.6	9	40	3	130°
511.017.03D.130a	1.7	9	40	3	130°
511.018.03D.130a	1.8	9	40	3	130°
511.019.03D.130a	1.9	9	40	3	130°

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511.5D



Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
511.010.05D.130a	1.0	15	55	3	130°
511.011.05D.130a	1.1	15	55	3	130°
511.012.05D.130a	1.2	15	55	3	130°
511.013.05D.130a	1.3	15	55	3	130°
511.014.05D.130a	1.4	15	55	3	130°

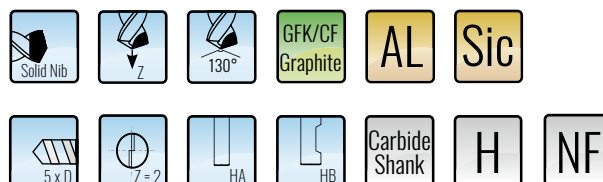
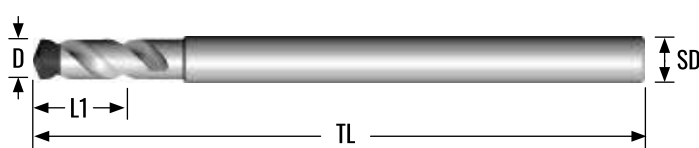
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511.015.05D.130a	1.5	15	55	3	130°
511.016.05D.130a	1.6	15	55	3	130°
511.017.05D.130a	1.7	15	55	3	130°
511.018.05D.130a	1.8	15	55	3	130°
511.019.05D.130a	1.9	15	55	3	130°

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Order Note

- Please refer to E 05 for PCD drilling tools code key description.
- To place an order, please refer to the designation code.
- For the item which not on the list pls contact our sales to get the quote.

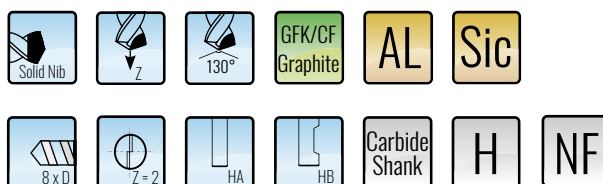
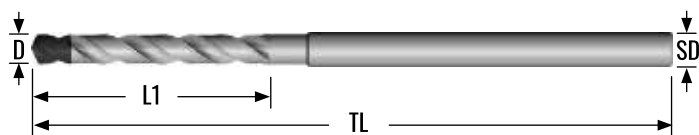
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Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
511.020.05D.130a	2	20	60	4	130°
511.021.05D.130a	2.1	20	60	4	130°
511.022.05D.130a	2.2	20	60	4	130°
511.023.05D.130a	2.3	20	60	4	130°
511.024.05D.130a	2.4	20	60	4	130°
511.025.05D.130a	2.5	20	60	4	130°
511.026.05D.130a	2.6	20	60	4	130°
511.027.05D.130a	2.7	20	60	4	130°
511.028.05D.130a	2.8	20	60	4	130°
511.029.05D.130a	2.9	20	60	4	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
511.030.05D.130a	3.0	20	60	4	130°
511.031.05D.130a	3.1	20	60	4	130°
511.032.05D.130a	3.2	20	60	4	130°
511.033.05D.130a	3.3	20	60	4	130°
511.034.05D.130a	3.4	20	60	4	130°
511.035.05D.130a	3.5	20	60	4	130°
511.036.05D.130a	3.6	20	60	4	130°
511.037.05D.130a	3.7	20	60	4	130°
511.038.05D.130a	3.8	20	60	4	130°
511.039.05D.130a	3.9	20	60	4	130°

512.8D



Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
512.020.08D.130a	2	35	75	4	130°
512.021.08D.130a	2.1	35	75	4	130°
512.022.08D.130a	2.2	35	75	4	130°
512.023.08D.130a	2.3	35	75	4	130°
512.024.08D.130a	2.4	35	75	4	130°
512.025.08D.130a	2.5	35	75	4	130°
512.026.08D.130a	2.6	35	75	4	130°
512.027.08D.130a	2.7	35	75	4	130°
512.028.08D.130a	2.8	35	75	4	130°
512.029.08D.130a	2.9	35	75	4	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
512.030.08D.130a	3.0	35	75	4	130°
512.031.08D.130a	3.1	35	75	4	130°
512.032.08D.130a	3.2	35	75	4	130°
512.033.08D.130a	3.3	35	75	4	130°
512.034.08D.130a	3.4	35	75	4	130°
512.035.08D.130a	3.5	35	75	4	130°
512.036.08D.130a	3.6	35	75	4	130°
512.037.08D.130a	3.7	35	75	4	130°
512.038.08D.130a	3.8	35	75	4	130°
512.039.08D.130a	3.9	35	75	4	130°

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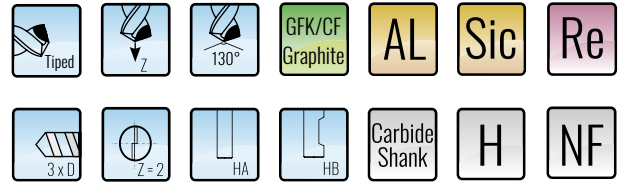
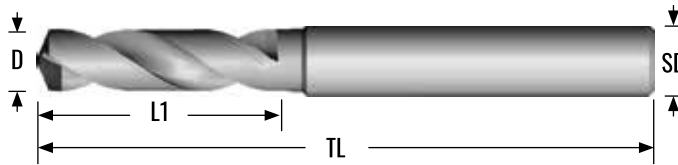
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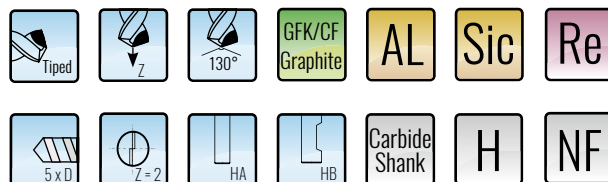
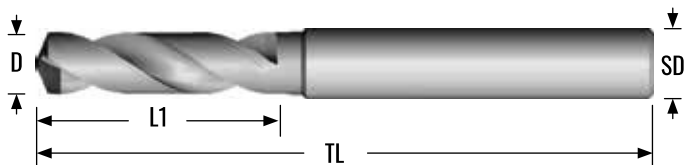


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521.038.03D.130a	3.8	15	55	4	130°
521.039.03D.130a	3.9	15	55	4	130°
521.040.03D.130a	4.0	15	55	4	130°
521.041.03D.130a	4.1	20	60	6	130°
521.042.03D.130a	4.2	20	60	6	130°
521.043.03D.130a	4.3	20	60	6	130°
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521.047.03D.130a	4.7	20	60	6	130°
521.048.03D.130a	4.8	20	60	6	130°
521.049.03D.130a	4.9	20	60	6	130°
521.050.03D.130a	5.0	20	60	6	130°
521.051.03D.130a	5.1	20	60	6	130°
521.052.03D.130a	5.2	20	60	6	130°
521.053.03D.130a	5.3	20	60	6	130°
521.054.03D.130a	5.4	20	60	6	130°
521.055.03D.130a	5.5	20	60	6	130°
521.056.03D.130a	5.6	20	60	6	130°
521.057.03D.130a	5.7	20	60	6	130°
521.058.03D.130a	5.8	20	60	6	130°
521.059.03D.130a	5.9	20	60	6	130°
521.060.03D.130a	6.0	20	60	6	130°
521.061.03D.130a	6.1	25	65	8	130°
521.062.03D.130a	6.2	25	65	8	130°
521.063.03D.130a	6.3	25	65	8	130°
521.064.03D.130a	6.4	25	65	8	130°
521.065.03D.130a	6.5	25	65	8	130°
521.066.03D.130a	6.6	25	65	8	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
521.067.03D.130a	6.7	25	65	8	130°
521.068.03D.130a	6.8	25	65	8	130°
521.069.03D.130a	6.9	25	65	8	130°
521.070.03D.130a	7.0	25	65	8	130°
521.071.03D.130a	7.1	25	65	8	130°
521.072.03D.130a	7.2	25	65	8	130°
521.073.03D.130a	7.3	25	65	8	130°
521.074.03D.130a	7.4	25	65	8	130°
521.075.03D.130a	7.5	25	65	8	130°
521.076.03D.130a	7.6	25	65	8	130°
521.077.03D.130a	7.7	25	65	8	130°
521.078.03D.130a	7.8	25	65	8	130°
521.079.03D.130a	7.9	25	65	8	130°
521.080.03D.130a	8.0	25	65	8	130°
521.082.03D.130a	8.2	35	75	10	130°
521.086.03D.130a	8.6	35	75	10	130°
521.088.03D.130a	8.8	35	75	10	130°
521.090.03D.130a	9.0	35	75	10	130°
521.092.03D.130a	9.2	35	75	10	130°
521.096.03D.130a	9.6	35	75	10	130°
521.098.03D.130a	9.8	35	75	10	130°
521.100.03D.130a	10.0	35	75	10	130°
521.102.03D.130a	10.2	40	80	12	130°
521.104.03D.130a	10.4	40	80	12	130°
521.106.03D.130a	10.6	40	80	12	130°
521.108.03D.130a	10.8	40	80	12	130°
521.110.03D.130a	11.0	40	80	12	130°
521.112.03D.130a	11.2	40	80	12	130°
521.114.03D.130a	11.4	40	80	12	130°
521.116.03D.130a	11.6	40	80	12	130°
521.118.03D.130a	11.8	40	80	12	130°
521.120.03D.130a	12.0	40	80	12	130°

A
PCD
INSERTSB
CBN
INSERTSC
SOLID CBN
INSERTSD
PCD
MILLING
CUTTERSE
PCD
DRILLING
TOOLSF
PCD
REAMERSG
DIAMOND
DRESSERSH
DIAMOND
CUSTOM-MADE
TOOLS

521.5D



Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
521.035.05D.130a	3.5	20	60	4	130°
521.036.05D.130a	3.6	20	60	4	130°
521.037.05D.130a	3.7	20	60	4	130°
521.038.05D.130a	3.8	20	60	4	130°
521.039.05D.130a	3.9	20	60	4	130°
521.040.05D.130a	4.0	20	60	4	130°
521.041.05D.130a	4.1	35	75	6	130°
521.042.05D.130a	4.2	35	75	6	130°
521.043.05D.130a	4.3	35	75	6	130°
521.044.05D.130a	4.4	35	75	6	130°
521.045.05D.130a	4.5	35	75	6	130°
521.046.05D.130a	4.6	35	75	6	130°
521.047.05D.130a	4.7	35	75	6	130°
521.048.05D.130a	4.8	35	75	6	130°
521.049.05D.130a	4.9	35	75	6	130°
521.050.05D.130a	5.0	35	75	6	130°
521.051.05D.130a	5.1	35	75	6	130°
521.052.05D.130a	5.2	35	75	6	130°
521.053.05D.130a	5.3	35	75	6	130°
521.054.05D.130a	5.4	35	75	6	130°
521.055.05D.130a	5.5	35	75	6	130°
521.056.05D.130a	5.6	35	75	6	130°
521.057.05D.130a	5.7	35	75	6	130°
521.058.05D.130a	5.8	35	75	6	130°
521.059.05D.130a	5.9	35	75	6	130°
521.060.05D.130a	6.0	35	75	6	130°
521.061.05D.130a	6.1	40	80	8	130°
521.062.05D.130a	6.2	40	80	8	130°
521.063.05D.130a	6.3	40	80	8	130°
521.064.05D.130a	6.4	40	80	8	130°
521.065.05D.130a	6.5	40	80	8	130°
521.066.05D.130a	6.6	40	80	8	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
521.067.05D.130a	6.7	40	80	8	130°
521.068.05D.130a	6.8	40	80	8	130°
521.069.05D.130a	6.9	40	80	8	130°
521.070.05D.130a	7.0	40	80	8	130°
521.071.05D.130a	7.1	40	80	8	130°
521.072.05D.130a	7.2	40	80	8	130°
521.073.05D.130a	7.3	40	80	8	130°
521.074.05D.130a	7.4	40	80	8	130°
521.075.05D.130a	7.5	40	80	8	130°
521.076.05D.130a	7.6	40	80	8	130°
521.077.05D.130a	7.7	40	80	8	130°
521.078.05D.130a	7.8	40	80	8	130°
521.079.05D.130a	7.9	40	80	8	130°
521.080.05D.130a	8.0	40	80	8	130°
521.082.05D.130a	8.2	60	100	10	130°
521.086.05D.130a	8.6	60	100	10	130°
521.088.05D.130a	8.8	60	100	10	130°
521.090.05D.130a	9.0	60	100	10	130°
521.092.05D.130a	9.2	60	100	10	130°
521.096.05D.130a	9.6	60	100	10	130°
521.098.05D.130a	9.8	60	100	10	130°
521.100.05D.130a	10.0	60	100	10	130°
521.102.05D.130a	10.2	60	100	12	130°
521.104.05D.130a	10.4	60	100	12	130°
521.106.05D.130a	10.6	60	100	12	130°
521.108.05D.130a	10.8	60	100	12	130°
521.110.05D.130a	11.0	60	100	12	130°
521.112.05D.130a	11.2	60	100	12	130°
521.114.05D.130a	11.4	60	100	12	130°
521.116.05D.130a	11.6	60	100	12	130°
521.118.05D.130a	11.8	60	100	12	130°
521.120.05D.130a	12.0	60	100	12	130°

A
PCD
INSERTS

B
CBN
INSERTS

C
SOLID CBN
INSERTS

D
PCD
MILLING
CUTTERS

E
PCD
DRILLING
TOOLS

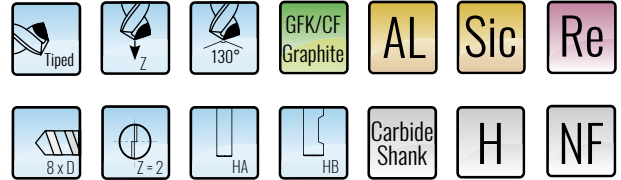
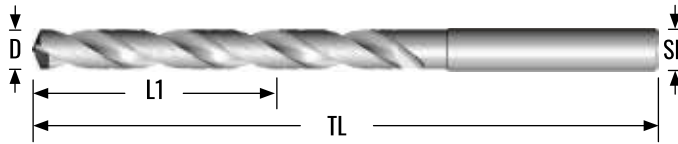
F
PCD
REAMERS

G
DIAMOND
DRESSERS

H
DIAMOND
CUSTOM-MADE
TOOLS

A
PCD
INSERTS

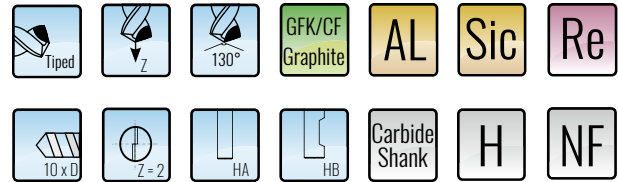
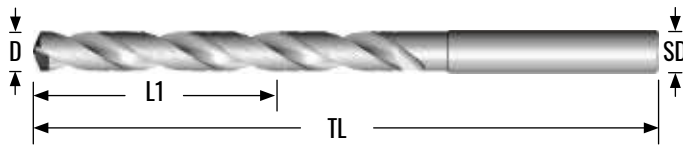
522.8D

B
CBN
INSERTSC
SOLID CBN
INSERTSD
PCD
MILLING
CUTTERSE
PCD
DRILLING
TOOLSF
PCD
REAMERSG
DIAMOND
DRESSERSH
DIAMOND
CUSTOM-MADE
TOOLS

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
522.035.08D.130a	3.5	35	75	4	130°
522.036.08D.130a	3.6	35	75	4	130°
522.037.08D.130a	3.7	35	75	4	130°
522.038.08D.130a	3.8	35	75	4	130°
522.039.08D.130a	3.9	35	75	4	130°
522.040.08D.130a	4.0	35	75	4	130°
522.041.08D.130a	4.1	60	100	6	130°
522.042.08D.130a	4.2	60	100	6	130°
522.043.08D.130a	4.3	60	100	6	130°
522.044.08D.130a	4.4	60	100	6	130°
522.045.08D.130a	4.5	60	100	6	130°
522.046.08D.130a	4.6	60	100	6	130°
522.047.08D.130a	4.7	60	100	6	130°
522.048.08D.130a	4.8	60	100	6	130°
522.049.08D.130a	4.9	60	100	6	130°
522.050.08D.130a	5.0	60	100	6	130°
522.051.08D.130a	5.1	60	100	6	130°
522.052.08D.130a	5.2	60	100	6	130°
522.053.08D.130a	5.3	60	100	6	130°
522.054.08D.130a	5.4	60	100	6	130°
522.055.08D.130a	5.5	60	100	6	130°
522.056.08D.130a	5.6	60	100	6	130°
522.057.08D.130a	5.7	60	100	6	130°
522.058.08D.130a	5.8	60	100	6	130°
522.059.08D.130a	5.9	60	100	6	130°
522.060.08D.130a	6.0	60	100	6	130°
522.061.08D.130a	6.1	70	110	8	130°
522.062.08D.130a	6.2	70	110	8	130°
522.063.08D.130a	6.3	70	110	8	130°
522.064.08D.130a	6.4	70	110	8	130°
522.065.08D.130a	6.5	70	110	8	130°
522.066.08D.130a	6.6	70	110	8	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
522.067.08D.130a	6.7	70	110	8	130°
522.068.08D.130a	6.8	70	110	8	130°
522.069.08D.130a	6.9	70	110	8	130°
522.070.08D.130a	7.0	70	110	8	130°
522.071.08D.130a	7.1	70	110	8	130°
522.072.08D.130a	7.2	70	110	8	130°
522.073.08D.130a	7.3	70	110	8	130°
522.074.08D.130a	7.4	70	110	8	130°
522.075.08D.130a	7.5	70	110	8	130°
522.076.08D.130a	7.6	70	110	8	130°
522.077.08D.130a	7.7	70	110	8	130°
522.078.08D.130a	7.8	70	110	8	130°
522.079.08D.130a	7.9	70	110	8	130°
522.080.08D.130a	8.0	70	110	8	130°
522.082.08D.130a	8.2	90	130	10	130°
522.086.08D.130a	8.6	90	130	10	130°
522.088.08D.130a	8.8	90	130	10	130°
522.090.08D.130a	9.0	90	130	10	130°
522.092.08D.130a	9.2	90	130	10	130°
522.096.08D.130a	9.6	90	130	10	130°
522.098.08D.130a	9.8	90	130	10	130°
522.100.08D.130a	10.0	90	130	10	130°
522.102.08D.130a	10.2	120	160	12	130°
522.104.08D.130a	10.4	120	160	12	130°
522.106.08D.130a	10.6	120	160	12	130°
522.108.08D.130a	10.8	120	160	12	130°
522.110.08D.130a	11.0	120	160	12	130°
522.112.08D.130a	11.2	120	160	12	130°
522.114.08D.130a	11.4	120	160	12	130°
522.116.08D.130a	11.6	120	160	12	130°
522.118.08D.130a	11.8	120	160	12	130°
522.120.08D.130a	12.0	120	160	12	130°

522.10D



Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
522.060.10D.130a	6.0	90	130	6	130°
522.061.10D.130a	6.1	90	130	8	130°
522.062.10D.130a	6.2	90	130	8	130°
522.063.10D.130a	6.3	90	130	8	130°
522.064.10D.130a	6.4	90	130	8	130°
522.065.10D.130a	6.5	90	130	8	130°
522.066.10D.130a	6.6	90	130	8	130°
522.067.10D.130a	6.7	90	130	8	130°
522.068.10D.130a	6.8	90	130	8	130°
522.069.10D.130a	6.9	90	130	8	130°
522.070.10D.130a	7.0	90	130	8	130°
522.071.10D.130a	7.1	90	130	8	130°
522.072.10D.130a	7.2	90	130	8	130°
522.073.10D.130a	7.3	90	130	8	130°
522.074.10D.130a	7.4	90	130	8	130°
522.075.10D.130a	7.5	90	130	8	130°
522.076.10D.130a	7.6	90	130	8	130°
522.077.10D.130a	7.7	90	130	8	130°
522.078.10D.130a	7.8	90	130	8	130°
522.079.10D.130a	7.9	90	130	8	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
522.080.10D.130a	8.0	90	130	8	130°
522.082.10D.130a	8.2	120	160	10	130°
522.086.10D.130a	8.6	120	160	10	130°
522.088.10D.130a	8.8	120	160	10	130°
522.090.10D.130a	9.0	120	160	10	130°
522.092.10D.130a	9.2	120	160	10	130°
522.096.10D.130a	9.6	120	160	10	130°
522.098.10D.130a	9.8	120	160	10	130°
522.100.10D.130a	10.0	120	160	10	130°
522.102.10D.130a	10.2	120	160	12	130°
522.104.10D.130a	10.4	120	160	12	130°
522.106.10D.130a	10.6	120	160	12	130°
522.108.10D.130a	10.8	120	160	12	130°
522.110.10D.130a	11.0	120	160	12	130°
522.112.10D.130a	11.2	120	160	12	130°
522.114.10D.130a	11.4	120	160	12	130°
522.116.10D.130a	11.6	120	160	12	130°
522.118.10D.130a	11.8	120	160	12	130°
522.120.10D.130a	12.0	120	160	12	130°

A
PCD
INSERTS

B
CBN
INSERTS

C
SOLID CBN
INSERTS

D
PCD
MILLING
CUTTERS

E
PCD
DRILLING
TOOLS

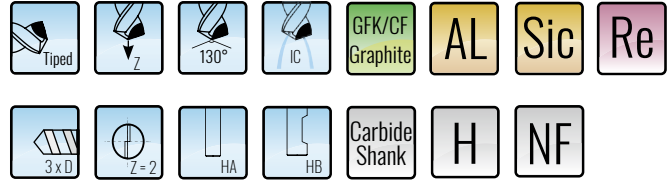
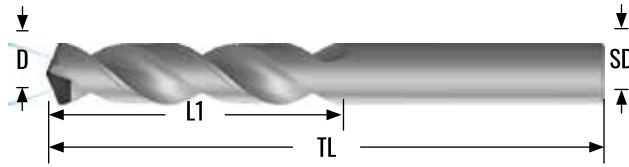
F
PCD
REAMERS

G
DIAMOND
DRESSERS

H
DIAMOND
CUSTOM-MADE
TOOLS

A
PCD
INSERTS

523.3D

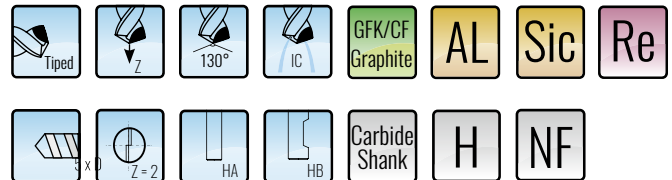
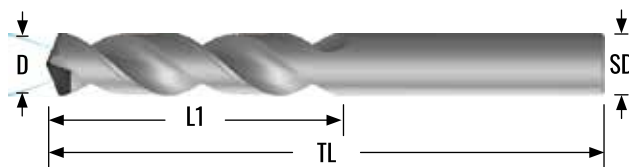


Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
523.080.03D.130a	8.0	25	65	8	130°
523.082.03D.130a	8.2	35	75	10	130°
523.086.03D.130a	8.6	35	75	10	130°
523.088.03D.130a	8.8	35	75	10	130°
523.090.03D.130a	9.0	35	75	10	130°
523.092.03D.130a	9.2	35	75	10	130°
523.096.03D.130a	9.6	35	75	10	130°
523.098.03D.130a	9.8	35	75	10	130°
523.100.03D.130a	10.0	35	75	10	130°
523.102.03D.130a	10.2	40	80	12	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
523.104.03D.130a	10.4	40	80	12	130°
523.106.03D.130a	10.6	40	80	12	130°
523.108.03D.130a	10.8	40	80	12	130°
523.110.03D.130a	11.0	40	80	12	130°
523.112.03D.130a	11.2	40	80	12	130°
523.114.03D.130a	11.4	40	80	12	130°
523.116.03D.130a	11.6	40	80	12	130°
523.118.03D.130a	11.8	40	80	12	130°
523.120.03D.130a	12.0	40	80	12	130°

B
CBN
INSERTSC
SOLID CBN
INSERTSD
PCD
MILLING
CUTTERSE
PCD
DRILLING
TOOLS

523.5D



Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
523.080.05D.130a	8.0	40	80	8	130°
523.082.05D.130a	8.2	60	100	10	130°
523.086.05D.130a	8.6	60	100	10	130°
523.088.05D.130a	8.8	60	100	10	130°
523.090.05D.130a	9.0	60	100	10	130°
523.092.05D.130a	9.2	60	100	10	130°
523.096.05D.130a	9.6	60	100	10	130°
523.098.05D.130a	9.8	60	100	10	130°
523.100.05D.130a	10.0	60	100	10	130°
523.102.05D.130a	10.2	60	100	12	130°

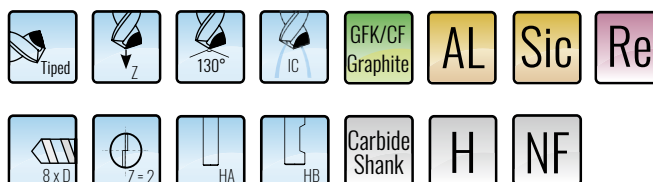
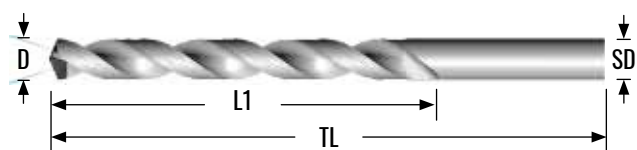
Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
523.104.05D.130a	10.4	60	100	12	130°
523.106.05D.130a	10.6	60	100	12	130°
523.108.05D.130a	10.8	60	100	12	130°
523.110.05D.130a	11.0	60	100	12	130°
523.112.05D.130a	11.2	60	100	12	130°
523.114.05D.130a	11.4	60	100	12	130°
523.116.05D.130a	11.6	60	100	12	130°
523.118.05D.130a	11.8	60	100	12	130°
523.120.05D.130a	12.0	60	100	12	130°

F
PCD
REAMERSG
DIAMOND
DRESSERSH
DIAMOND
CUSTOM-MADE
TOOLS

Order Note

- Please refer to E 05 for PCD drilling tools code key description.
- To place an order, please refer to the designation code.
- For the item which not on the list pls contact our sales to get the quote.

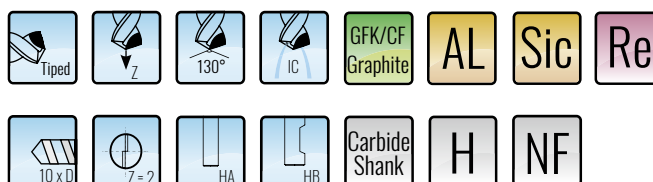
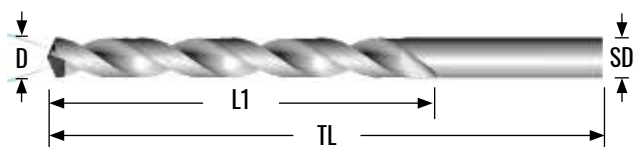
524.8D



Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
524.080.08D.130a	8.0	70	110	8	130°
524.082.08D.130a	8.2	90	130	10	130°
524.086.08D.130a	8.6	90	130	10	130°
524.088.08D.130a	8.8	90	130	10	130°
524.090.08D.130a	9.0	90	130	10	130°
524.092.08D.130a	9.2	90	130	10	130°
524.096.08D.130a	9.6	90	130	10	130°
524.098.08D.130a	9.8	90	130	10	130°
524.100.08D.130a	10.0	90	130	10	130°
524.102.08D.130a	10.2	120	160	12	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
524.104.08D.130a	10.4	120	160	12	130°
524.106.08D.130a	10.6	120	160	12	130°
524.108.08D.130a	10.8	120	160	12	130°
524.110.08D.130a	11.0	120	160	12	130°
524.112.08D.130a	11.2	120	160	12	130°
524.114.08D.130a	11.4	120	160	12	130°
524.116.08D.130a	11.6	120	160	12	130°
524.118.08D.130a	11.8	120	160	12	130°
524.120.08D.130a	12.0	120	160	12	130°

524.10D



Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
524.080.10D.130a	8.0	90	130	8	130°
524.082.10D.130a	8.2	120	160	10	130°
524.086.10D.130a	8.6	120	160	10	130°
524.088.10D.130a	8.8	120	160	10	130°
524.090.10D.130a	9.0	120	160	10	130°
524.092.10D.130a	9.2	120	160	10	130°
524.096.10D.130a	9.6	120	160	10	130°
524.098.10D.130a	9.8	120	160	10	130°
524.100.10D.130a	10.0	120	160	10	130°
524.102.10D.130a	10.2	120	160	12	130°

Order No.	D h7 [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE
524.104.10D.130a	10.4	120	160	12	130°
524.106.10D.130a	10.6	120	160	12	130°
524.108.10D.130a	10.8	120	160	12	130°
524.110.10D.130a	11.0	120	160	12	130°
524.112.10D.130a	11.2	120	160	12	130°
524.114.10D.130a	11.4	120	160	12	130°
524.116.10D.130a	11.6	120	160	12	130°
524.118.10D.130a	11.8	120	160	12	130°
524.120.10D.130a	12.0	120	160	12	130°

Order Note

- Please refer to E 05 for PCD drilling tools code key description.
- To place an order, please refer to the designation code.
- For the item which not on the list pls contact our sales to get the quote.

A
PCD
INSERTS

B
CBN
INSERTS

C
SOLID CBN
INSERTS

D
PCD
MILLING
CUTTERS

E
PCD
DRILLING
TOOLS

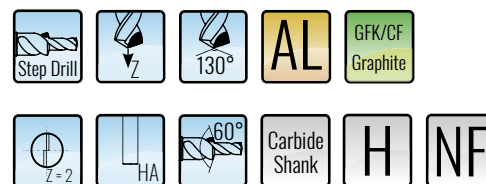
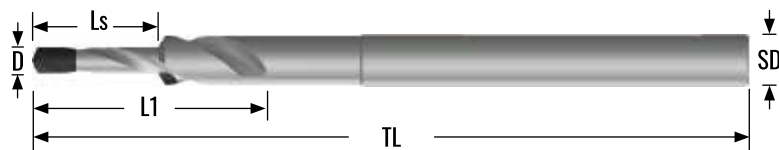
F
PCD
REAMERS

G
DIAMOND
DRESSERS

H
DIAMOND
CUSTOM-MADE
TOOLS

A
PCD
INSERTS

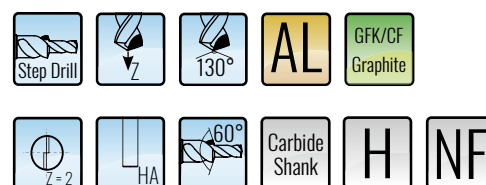
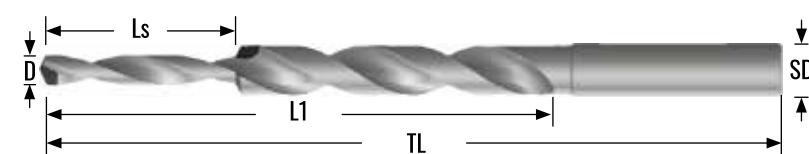
531



Order No.	D h7 [mm]	LS [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE	a2 Chamfer
531.015.06D.130a.60a2.020	1.5	5	30	60	3	130°	60°
531.020.06D.130a.60a2.025	2	5	30	60	3	130°	60°
531.030.06D.130a.60a2.040	3	6	40	80	6	130°	60°
531.035.06D.130a.60a2.040	3.5	6	40	80	6	130°	60°

B
CBN
INSERTS

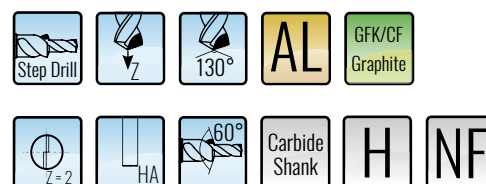
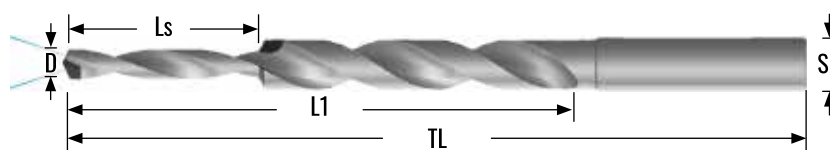
532



Order No.	D h7 [mm]	LS [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE	a2 Chamfer
532.060.10D.130a.60a2.070	6	70	90	130	8	130°	60°
532.080.10D.130a.60a2.090	8	90	120	160	10	130°	60°
532.090.10D.130a.60a2.011	9	110	120	160	12	130°	60°

E
PCD
DRILLING
TOOLSF
PCD
REAMERS

534



Order No.	D h7 [mm]	LS [mm]	L1 [mm]	TL [mm]	SD h6 [mm]	a ANGLE	a2 Chamfer
534.060.10D.130a.60a2.070	6	70	90	130	8	130°	60°
534.080.10D.130a.60a2.090	8	90	120	160	10	130°	60°
534.090.10D.130a.60a2.011	9	110	120	160	12	130°	60°

G
DIAMOND
DRESSERSH
DIAMOND
CUSTOM-MADE
TOOLS

Order Note

- Please refer to E 05 for PCD drilling tools code key description.
- To place an order, please refer to the designation code.
- For the item which not on the list pls contact our sales to get the quote.

A
PCD
INSERTS

B
CBN
INSERTS

C
SOLID CBN
INSERTS

D
PCD
MILLING
CUTTERS

E
PCD
DRILLING
TOOLS

F
PCD
REAMERS

G
DIAMOND
DRESSERS

H
DIAMOND
CUSTOM-MADE
TOOLS