

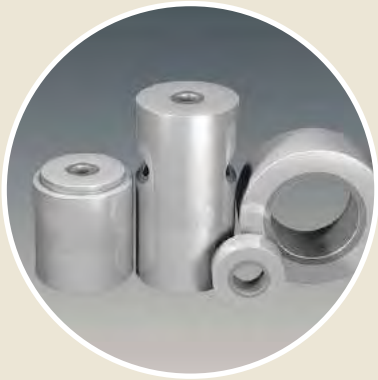
New

## CBNCoat Drills | Solid CBN Reamers

CBN



Medical Technology  
Microtechnology



Tool and  
Mold Forming



Automotive  
Mechanical Engineering



Aerospace

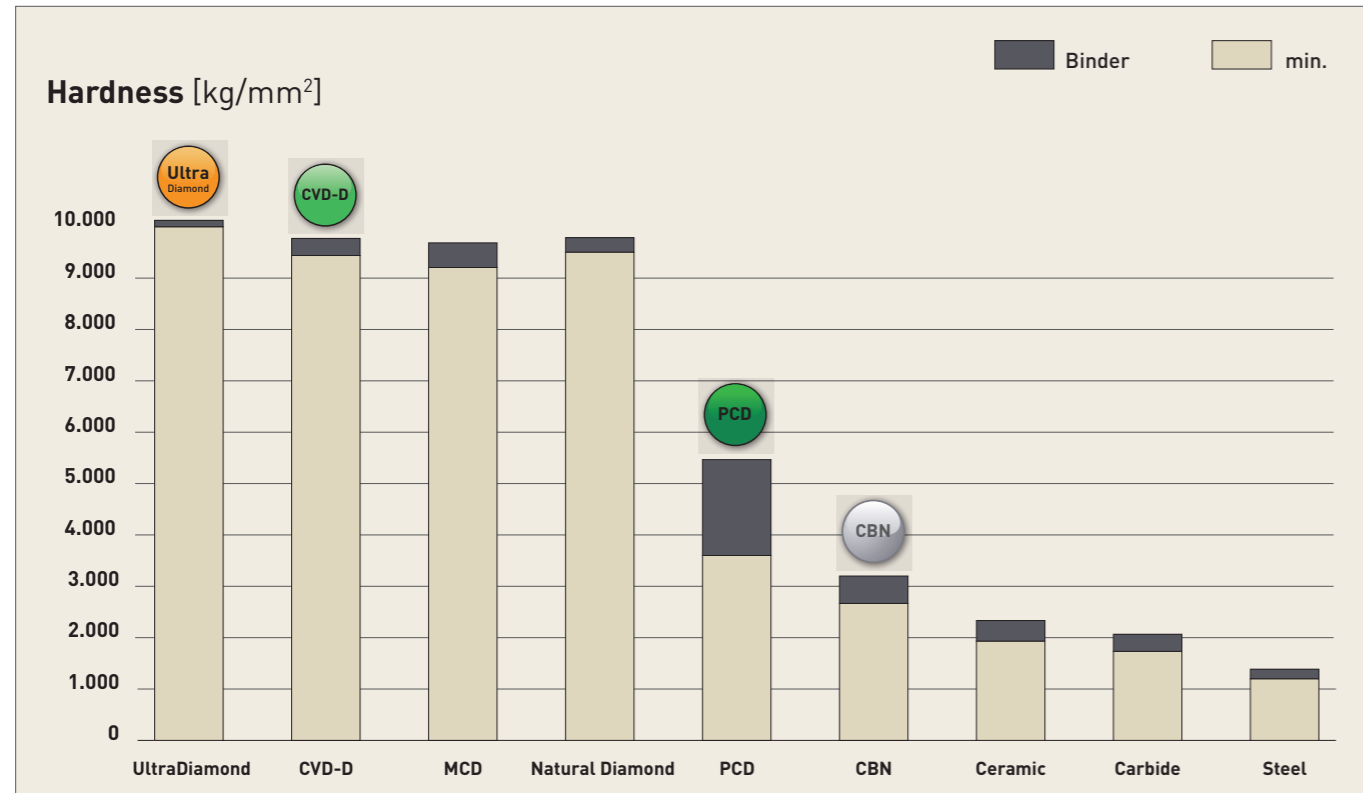


# PASSION FOR DIAMOND...

ultrahard cutting materials at a glance



... is not just a slogan for us - we live this passion in our daily dealings with our customers and we are your partner when it comes to diamond or CBN tools.



## Polycrystalline diamond (PCD)

The well-known Standard Diamond

PCD is a synthetically produced, extremely tough, intergrown mass of diamond particles with a random orientation in a metal matrix. It is produced by sintering selected diamond particles under high pressure and high temperatures.

Graphite serves as a catalyst allowing the PDC crystals to intergrow. PCD has a high thermal conductivity and good heat dissipation away from the cutting edge. In addition, PCD has the highest bending fracture strength of all cutting materials.

PCD is very well suited for machining aluminum with a Si content of up to 12% and/or other abrasive fillers. The thermal hardness is about 750°C. The areas of application are like those of CVD thick-film diamond, but CVD thick film has a higher cost effectiveness with hard-brittle materials or aluminum from a Si content of 12%.

## CVD-Thickfilm Diamond (CVD-D)

The Star among Diamond Cutting Materials

For the machining of hard-brittle materials such as Ceramics, glass, glass-Ceramics, tungsten Carbide, MMC and fiber-reinforced composites such as CFRP and GFRP. Due to the lack of a bonding matrix, the diamond content is much higher than with PCD. In the group of ultra-hard cutting materials, binderless CVD-D is one of the hardest man-made diamond cutting materials.

CVD-D is characterized by high hardness as well as high wear resistance. These properties make CVD-D the perfect cutting material for machining abrasive materials. Compared to PCD, which is damaged by the abrasive particles due to its soft metallic binder phase, the CVD-D cutting edge remains stable due to its binderless anchoring in the diamond matrix.

With the correct use of CVD-D, the tool life can be increased by up to 10 times (and even more) compared to PCD!

## Binderless Diamond (UltraDiamond)

The hardest Mono Crystal

Single-crystal elements are laser-cut from diamond blanks in a defined orientation using laser segmentation technology. This new technology makes it possible, in addition to polycrystalline cutting materials such as PCD and CVD-D, to also braze a monocrystal (UltraDiamond) under high vacuum on any tool carrier. Compared to PCD, the tool life can be increased by approx. 15 to 25 times and compared to CVD-D by approx. 2 to 5 times.

The areas of application are similar to PCD and CVD-D, but this monocrystalline cutting material offers a further significant increase in tool life in all applications where PCD and CVD-D reach the limits of economic viability. The UltraDiamond cutting material makes economical machining of very hard, highly brittle materials such as Ceramics, glass, glass-Ceramics and hard metals with low cobalt binder and nickel binder (<10%) possible.

## Polycrystalline Cubic Boron Nitride (CBN)

Chemically resistant and stable at high temperatures

of up to 1,400°C. Boron nitride powder is the starting point for the production of CBN, which has been available since the end of the 1960s. It is produced under high pressure and at temperatures of over 1,500°C and the many different substrates are specifically adapted to the final application.

CBN is now considered the second hardest material after diamond cutting materials!

The applications of CBN take place in the automotive industry, aerospace, tool and die and mold making as well as in mechanical engineering. The wide range as cutting and abrasive material includes hardened steels, cast irons, chilled Cast Iron, sintered materials, stellites, nickel- and cobalt-based superalloys. In many applications, cubic boron nitride is preferred to diamond cutting materials because it is absolutely stable in air at temperatures up to 1,400°C. Diamond, on the other hand, begins to decompose at a temperature of approx. 750°C. Compared to PCD, CBN is also characterized by its chemical resistance to ferrous materials.

# Our Cutting Material Assignment

about the materials

Green ✓ First choice  
 Orange ✓ Possible alternative

ISO	Material	CBNCoat	CBNSolid
H	Powder metallurgical steel, hardened	✓	✓
	Special Alloys (ASP,CPM,Hardox)	✓	✓
	Steel, hardened up to 72 HRC	✓	✓
	Tool steel, hardened up to 72 HRC	✓	✓
P	Sintered steel	✓	✓
	Sintered steel, hardened	✓	✓
K	Grey Cast Iron (GCI)	✓	✓
	Ductile Cast Iron (DCI)	✓	✓
	Shell Chilled Cast Iron	✓	✓
S	Ni-, Co-, Fe- and Cr-Alloys	✓	✓
	Titanium Alloys	✓	✓
M	Stainless steel, hardened	✓	✓
N	Carbide, > 20% Co *		✓

# All Systems

for drilling and reaming

## CBNCoat Drills

Ø 2,00 up to Ø 12,00



A new coating called „CBNCoat“ has been developed for our CBNCoat Drills, which enables us to economically machine hardened materials up to 68HRC. Due to this new special coating, drilling of significantly softer materials is also possible without any problems.

Due to the special grinding, separate pre-centering is no longer necessary in many cases.

Overview of the main areas of application:

- ✓ Steel, hardened up to 68 HRC
- ✓ Tool Steel, hardened up to 68 HRC
- ✓ Inconel
- ✓ Titanium

## Solid CBN Reamers

Ø 1,50 up to Ø 6,03



Our Solid CBN Reamers are developed for use in high hardness materials. They can be used to produce H5, H6 and H7 bores in materials with a hardness of 50-72 HRC.

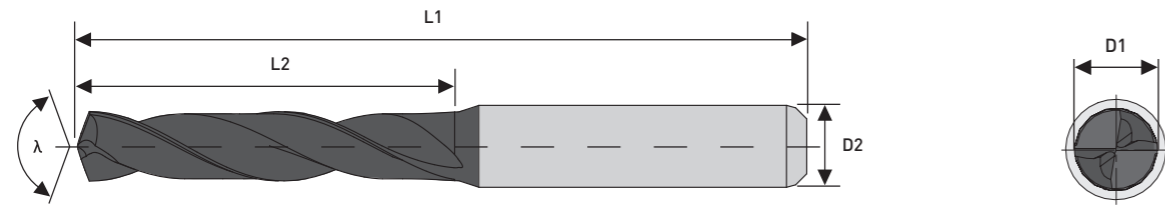
Due to the helix angle we guarantee an ideal chip removal and roundness!

Overview of the main areas of application:

- ✓ Tool Steel, hardened up to 72 HRC
- ✓ Steel, hardened up to 72 HRC
- ✓ Inconel
- ✓ Titanium
- ✓ Carbide

# CBNCoat Drills

for hard drilling up to 68 HRC



Cutting edges: 2  
Coated  
Shank according to DIN 6335-HA  
Standard: DIN 6537 K  
Shank tolerance: D2h6  
Blade tolerance: D1h7

D1	L2	L1	D2	λ	Item No. <span style="color: red;">New</span>
2,00	20,00	55,00	4,00	140°	B05980-0005
2,10	20,00	55,00	4,00	140°	B05980-0010
2,20	20,00	55,00	4,00	140°	B05980-0015
2,30	20,00	55,00	4,00	140°	B05980-0020
2,40	20,00	55,00	4,00	140°	B05980-0025
2,50	20,00	55,00	4,00	140°	B05980-0030
2,55	20,00	55,00	4,00	140°	B05980-0035
2,60	20,00	55,00	4,00	140°	B05980-0040
2,70	20,00	55,00	4,00	140°	B05980-0045
2,80	20,00	55,00	4,00	140°	B05980-0050
2,90	20,00	55,00	4,00	140°	B05980-0055
3,00	20,00	62,00	6,00	140°	B05980-0060
3,10	20,00	62,00	6,00	140°	B05980-0065
3,20	20,00	62,00	6,00	140°	B05980-0070
3,30	20,00	62,00	6,00	140°	B05980-0075

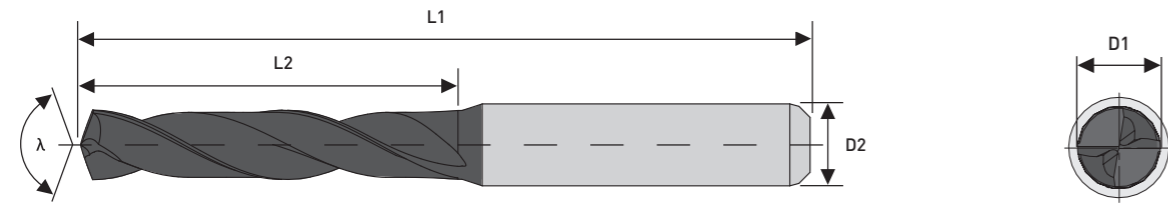
D1	L2	L1	D2	λ	Item No. <span style="color: red;">New</span>
3,40	20,00	62,00	6,00	140°	B05980-0080
3,50	20,00	62,00	6,00	140°	B05980-0085
3,60	20,00	62,00	6,00	140°	B05980-0090
3,70	20,00	62,00	6,00	140°	B05980-0095
3,80	24,00	66,00	6,00	140°	B05980-0100
3,90	24,00	66,00	6,00	140°	B05980-0105
4,00	24,00	66,00	6,00	140°	B05980-0110
4,10	24,00	66,00	6,00	140°	B05980-0115
4,20	24,00	66,00	6,00	140°	B05980-0120
4,30	24,00	66,00	6,00	140°	B05980-0125
4,40	24,00	66,00	6,00	140°	B05980-0130
4,50	24,00	66,00	6,00	140°	B05980-0135
4,60	24,00	66,00	6,00	140°	B05980-0140
4,70	24,00	66,00	6,00	140°	B05980-0145
4,80	28,00	66,00	6,00	140°	B05980-0150
4,90	28,00	66,00	6,00	140°	B05980-0155
5,00	28,00	66,00	6,00	140°	B05980-0160
5,10	28,00	66,00	6,00	140°	B05980-0165
5,20	28,00	66,00	6,00	140°	B05980-0170
5,30	28,00	66,00	6,00	140°	B05980-0175
5,40	28,00	66,00	6,00	140°	B05980-0180
5,50	28,00	66,00	6,00	140°	B05980-0185
5,60	28,00	66,00	6,00	140°	B05980-0190

### Application range:

- CBNCoat Steel hardened and Tool Steel up to 68 HRC, powder metallurgical Steel, Grey Cast Iron (GCI), Ductile Cast Iron (DCI) ...

# CBNCoat Drills

for hard drilling up to 68 HRC



Cutting edges: 2  
Coated  
Shank according to DIN 6335-HA  
Standard: DIN 6537 K  
Shank tolerance: D2h6  
Blade tolerance: D1h7

D1	L2	L1	D2	λ	Item No. <span style="color: red;">New</span>
5,70	28,00	66,00	6,00	140°	B05980-0195
5,80	28,00	66,00	6,00	140°	B05980-0200
5,90	28,00	66,00	6,00	140°	B05980-0205
6,00	28,00	66,00	6,00	140°	B05980-0210
6,10	34,00	79,00	8,00	140°	B05980-0215
6,20	34,00	79,00	8,00	140°	B05980-0220
6,30	34,00	79,00	8,00	140°	B05980-0225
6,40	34,00	79,00	8,00	140°	B05980-0230
6,50	34,00	79,00	8,00	140°	B05980-0235
6,60	34,00	79,00	8,00	140°	B05980-0240
6,70	34,00	79,00	8,00	140°	B05980-0245
6,80	34,00	79,00	8,00	140°	B05980-0250
6,90	34,00	79,00	8,00	140°	B05980-0255
7,00	34,00	79,00	8,00	140°	B05980-0260
7,10	41,00	79,00	8,00	140°	B05980-0265

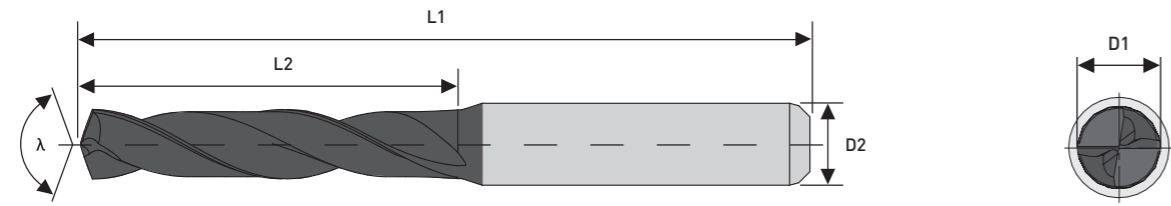
D1	L2	L1	D2	λ	Item No. <span style="color: red;">New</span>
7,20	41,00	79,00	8,00	140°	B05980-0270
7,30	41,00	79,00	8,00	140°	B05980-0275
7,40	41,00	79,00	8,00	140°	B05980-0280
7,50	41,00	79,00	8,00	140°	B05980-0285
7,60	41,00	79,00	8,00	140°	B05980-0290
7,70	41,00	79,00	8,00	140°	B05980-0295
7,80	41,00	79,00	8,00	140°	B05980-0300
7,90	41,00	79,00	8,00	140°	B05980-0305
8,00	41,00	79,00	8,00	140°	B05980-0310
8,10	47,00	89,00	10,00	140°	B05980-0315
8,20	47,00	89,00	10,00	140°	B05980-0320
8,30	47,00	89,00	10,00	140°	B05980-0325
8,40	47,00	89,00	10,00	140°	B05980-0330
8,50	47,00	89,00	10,00	140°	B05980-0335
8,60	47,00	89,00	10,00	140°	B05980-0340
8,70	47,00	89,00	10,00	140°	B05980-0345
8,80	47,00	89,00	10,00	140°	B05980-0350
8,90	47,00	89,00	10,00	140°	B05980-0355
9,00	47,00	89,00	10,00	140°	B05980-0360
9,10	47,00	89,00	10,00	140°	B05980-0365
9,20	47,00	89,00	10,00	140°	B05980-0370
9,30	47,00	89,00	10,00	140°	B05980-0375
9,40	47,00	89,00	10,00	140°	B05980-0380

### Application range:

- CBNCoat Steel hardened and Tool Steel up to 68 HRC, powder metallurgical Steel, Grey Cast Iron (GCI), Ductile Cast Iron (DCI) ...

# CBNCoat Drills

for hard drilling up to 68 HRC



Cutting edges: 2  
Coated  
Shank according to DIN 6335-HA  
Standard: DIN 6537 K  
Shank tolerance: D2h6  
Blade tolerance: D1h7

D1	L2	L1	D2	λ	Item No. <span style="color: red; font-weight: bold;">New</span>
9,50	47,00	89,00	10,00	140°	B05980-0385
9,60	47,00	89,00	10,00	140°	B05980-0390
9,70	47,00	89,00	10,00	140°	B05980-0395
9,80	47,00	89,00	10,00	140°	B05980-0400
9,90	47,00	89,00	10,00	140°	B05980-0405
10,00	47,00	89,00	10,00	140°	B05980-0410
10,10	55,00	102,00	12,00	140°	B05980-0415
10,20	55,00	102,00	12,00	140°	B05980-0420
10,30	55,00	102,00	12,00	140°	B05980-0425
10,40	55,00	102,00	12,00	140°	B05980-0430
10,50	55,00	102,00	12,00	140°	B05980-0435
10,60	55,00	102,00	12,00	140°	B05980-0440
10,70	55,00	102,00	12,00	140°	B05980-0445
10,80	55,00	102,00	12,00	140°	B05980-0450
10,90	55,00	102,00	12,00	140°	B05980-0455

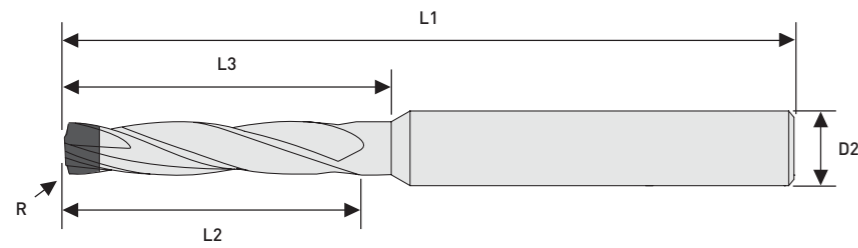
D1	L2	L1	D2	λ	Item No. <span style="color: red; font-weight: bold;">New</span>
11,00	55,00	102,00	12,00	140°	B05980-0460
11,10	55,00	102,00	12,00	140°	B05980-0465
11,20	55,00	102,00	12,00	140°	B05980-0470
11,30	55,00	102,00	12,00	140°	B05980-0475
11,40	55,00	102,00	12,00	140°	B05980-0480
11,50	55,00	102,00	12,00	140°	B05980-0485
11,60	55,00	102,00	12,00	140°	B05980-0490
11,70	55,00	102,00	12,00	140°	B05980-0495
11,80	55,00	102,00	12,00	140°	B05980-0500
11,90	55,00	102,00	12,00	140°	B05980-0505
12,00	55,00	102,00	12,00	140°	B05980-0510

### Application range:

- CBNCoat Steel hardened and Tool Steel up to 68 HRC, powder metallurgical Steel, Grey Cast Iron (GCI), Ductile Cast Iron (DCI) ...

# Solid CBN Reamers with helix angle

for hard reaming up to 72 HRC



Cutting edges: 4  
Shank tolerance: D2h4  
Blade tolerance: D1 + 0,004mm  
helix angle right

D1	L3	L2	L1	D2	R	Item No. <span style="color: red;">New</span>
1,50	10,00	8,00	48,00	3,00	0,20	RA5940-0002
1,60	10,00	8,00	48,00	3,00	0,20	RA5940-0004
1,70	10,00	8,00	48,00	3,00	0,20	RA5940-0006
1,80	10,00	8,00	48,00	3,00	0,20	RA5940-0008
1,90	10,00	8,00	48,00	3,00	0,20	RA5940-0010
1,98	15,00	13,00	48,00	3,00	0,20	RA5940-0012
1,99	15,00	13,00	48,00	3,00	0,20	RA5940-0014
2,00	15,00	13,00	48,00	3,00	0,20	RA5940-0016
2,01	15,00	13,00	48,00	3,00	0,20	RA5940-0018
2,02	15,00	13,00	48,00	3,00	0,20	RA5940-0020
2,03	15,00	13,00	48,00	3,00	0,20	RA5940-0022
2,10	15,00	13,00	48,00	3,00	0,30	RA5940-0024
2,20	15,00	13,00	48,00	3,00	0,30	RA5940-0026
2,30	15,00	13,00	48,00	3,00	0,30	RA5940-0028
2,40	15,00	13,00	48,00	3,00	0,30	RA5940-0030

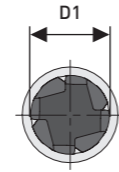
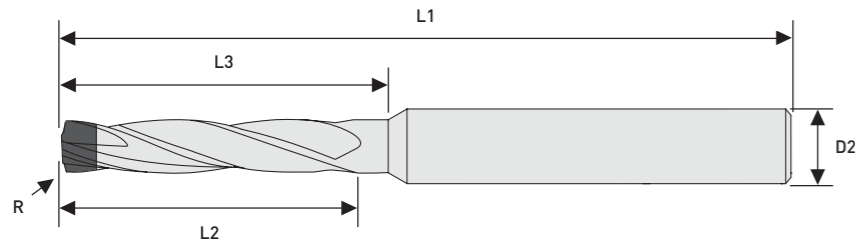
D1	L3	L2	L1	D2	R	Item No. <span style="color: red;">New</span>
2,50	15,00	13,00	48,00	3,00	0,30	RA5940-0032
2,60	15,00	13,00	48,00	3,00	0,30	RA5940-0034
2,70	15,00	13,00	48,00	3,00	0,30	RA5940-0036
2,80	15,00	13,00	48,00	3,00	0,30	RA5940-0038
2,90	15,00	13,00	48,00	3,00	0,30	RA5940-0040
2,98	20,00	18,00	58,00	3,00	0,30	RA5940-0042
2,99	20,00	18,00	58,00	3,00	0,30	RA5940-0044
3,00	20,00	18,00	58,00	3,00	0,30	RA5940-0046
3,01	20,00	18,00	58,00	3,00	0,30	RA5940-0048
3,02	20,00	18,00	58,00	3,00	0,30	RA5940-0050
3,03	20,00	18,00	58,00	3,00	0,30	RA5940-0052
3,10	20,00	18,00	58,00	4,00	0,30	RA5940-0054
3,20	20,00	18,00	58,00	4,00	0,30	RA5940-0056
3,30	20,00	18,00	58,00	4,00	0,30	RA5940-0058
3,40	20,00	18,00	58,00	4,00	0,30	RA5940-0060
3,50	20,00	18,00	58,00	4,00	0,30	RA5940-0062
3,60	20,00	18,00	58,00	4,00	0,30	RA5940-0064
3,70	20,00	18,00	58,00	4,00	0,30	RA5940-0066
3,80	20,00	18,00	58,00	4,00	0,30	RA5940-0068
3,90	20,00	18,00	58,00	4,00	0,30	RA5940-0070
3,98	25,00	23,00	58,00	4,00	0,30	RA5940-0072
3,99	25,00	23,00	58,00	4,00	0,30	RA5940-0074
4,00	25,00	23,00	58,00	4,00	0,40	RA5940-0076

### Application range:

- CBN Steel hardened and Tool Steel up to 72 HRC, powder metallurgical Steel, Sintered steel hardened, Grey Cast Iron hardened, Carbide ...

# Solid CBN Reamers with helix angle

for hard reaming up to 72 HRC



Cutting edges: 4  
Shank tolerance: D2h4  
Blade tolerance: D1 + 0,004mm  
helix angle right

D1	L3	L2	L1	D2	R	Item No. <span style="color: red; font-weight: bold;">New</span>
4,01	25,00	23,00	58,00	4,00	0,40	RA5940-0078
4,02	25,00	23,00	58,00	4,00	0,40	RA5940-0080
4,03	25,00	23,00	58,00	4,00	0,40	RA5940-0082
4,10	25,00	23,00	58,00	6,00	0,40	RA5940-0084
4,20	25,00	23,00	58,00	6,00	0,40	RA5940-0086
4,30	25,00	23,00	58,00	6,00	0,40	RA5940-0088
4,40	25,00	23,00	58,00	6,00	0,40	RA5940-0090
4,50	25,00	23,00	58,00	6,00	0,40	RA5940-0092
4,60	25,00	23,00	58,00	6,00	0,40	RA5940-0094
4,70	25,00	23,00	58,00	6,00	0,40	RA5940-0096
4,80	25,00	23,00	58,00	6,00	0,40	RA5940-0098
4,90	25,00	23,00	58,00	6,00	0,40	RA5940-0100
4,98	30,00	28,00	68,00	6,00	0,40	RA5940-0102
4,99	30,00	28,00	68,00	6,00	0,40	RA5940-0104
5,00	30,00	28,00	68,00	6,00	0,50	RA5940-0106

D1	L3	L2	L1	D2	R	Item No. <span style="color: red; font-weight: bold;">New</span>
5,01	30,00	28,00	68,00	6,00	0,50	RA5940-0108
5,02	30,00	28,00	68,00	6,00	0,50	RA5940-0110
5,03	30,00	28,00	68,00	6,00	0,50	RA5940-0112
5,10	30,00	28,00	68,00	6,00	0,50	RA5940-0114
5,20	30,00	28,00	68,00	6,00	0,50	RA5940-0116
5,30	30,00	28,00	68,00	6,00	0,50	RA5940-0118
5,40	30,00	28,00	68,00	6,00	0,50	RA5940-0120
5,50	30,00	28,00	68,00	6,00	0,50	RA5940-0122
5,60	30,00	28,00	68,00	6,00	0,50	RA5940-0124
5,70	30,00	28,00	68,00	6,00	0,50	RA5940-0126
5,80	30,00	28,00	68,00	6,00	0,50	RA5940-0128
5,90	30,00	28,00	68,00	6,00	0,50	RA5940-0130
5,98	30,00	28,00	68,00	6,00	0,50	RA5940-0132
5,99	30,00	28,00	68,00	6,00	0,50	RA5940-0134
6,00	30,00	28,00	68,00	6,00	0,50	RA5940-0136
6,01	30,00	28,00	68,00	6,00	0,50	RA5940-0138
6,02	30,00	28,00	68,00	6,00	0,50	RA5940-0140
6,03	30,00	28,00	68,00	6,00	0,50	RA5940-0142

### Application range:

- CBN Steel hardened and Tool Steel up to 72 HRC, powder metallurgical Steel, Sintered steel hardened, Grey Cast Iron hardened, Carbide ...



# Cutting Parameters

for our CBNCoat Drills

**Vc X 3.28 = SFM**

**Ap / 25.4 = DOC inches**

**F / 25.4 = inch per revolution**



		CBNCoat Drills								
		V <sub>c</sub> [m/min]	F [mm/rev]	F [mm/rev]	F [mm/rev]	F [mm/rev]	F [mm/rev]	F [mm/U]	F [mm/rev]	F [mm/rev]
Material		Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	
		Tool Steel, hardened up to 68 HRC	min.	10	0,020	0,030	0,050	0,060	0,070	0,070
max.	30		0,050	0,060	0,080	0,100	0,100	0,100	0,110	0,120
Steel, hardened up to 48-55 HRC	min.	20	0,010	0,030	0,050	0,060	0,070	0,070	0,080	0,090
	max.	35	0,050	0,060	0,080	0,090	0,100	0,100	0,110	0,120
Steel, hardened up to 55-60 HRC	min.	10	0,010	0,030	0,050	0,060	0,070	0,070	0,080	0,090
	max.	25	0,050	0,060	0,080	0,090	0,100	0,100	0,110	0,120
Steel, hardened up to 60-68 HRC	min.	10	0,010	0,030	0,050	0,060	0,070	0,070	0,080	0,090
	max.	20	0,050	0,060	0,080	0,090	0,100	0,100	0,110	0,120

## Cooling Recommended

While machining with CBNCoat Drills, proper cooling is a key point.



1. Choice: Emulsion
2. Choice: Oil

# Cutting Parameters

for our Solid CBN Reamers

**Vc X 3.28 = SFM**

**Ap / 25.4 = DOC inches**

**F / 25.4 = inch per revolution**



		Solid CBN Reamers						
		V <sub>c</sub> [m/min]	F [mm/rev]	F [mm/rev]	F [mm/rev]	F [mm/rev]	F [mm/rev]	
Material		Ø 1,5	Ø 2	Ø 3	Ø 4	Ø 5	Ø 6	
		Steel, hardened 48-55 HRC	min.	10	0,010	0,010	0,020	0,030
max.	30		0,030	0,040	0,070	0,070	0,090	0,090
Steel, hardened 55-60 HRC	min.	10	0,010	0,010	0,020	0,030	0,030	0,030
	max.	25	0,030	0,040	0,070	0,070	0,090	0,090
Steel, hardened 60-72 HRC	min.	10	0,010	0,010	0,030	0,030	0,030	0,030
	max.	25	0,030	0,030	0,070	0,070	0,090	0,090
Tool Steel	min.	10	0,010	0,010	0,030	0,030	0,030	0,030
	max.	30	0,030	0,030	0,070	0,070	0,090	0,090
Cast iron	min.	25	0,010	0,010	0,030	0,030	0,030	0,030
	max.	55	0,020	0,020	0,070	0,070	0,090	0,090
Carbide	min.	on request						
	max.							

## Cooling Recommended

While machining with Solid - CBN Reamers, proper cooling is a key point.



1. Choice: Emulsion or Oil
2. Choice: Luft

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All rights are reserved. Errors, misprints or printing errors do not entitle to claims. The pictorial and graphic representation of our tools do not necessarily have to correspond to the actual tool in all details.

We reserve the right to make production-related technical changes and changes to the delivery program. The cutting values given are guide values which must be adjusted according to the process environment.

### Safety Instructions:

- ▶ Tools equipped with ultra-hard cutting edges are very sharp laser cut tools.
- ▶ Careful handling of the tools during unpacking and their use is recommended.
- ▶ Wearing protective gloves reduces the risk of injury.
- ▶ Material chipping and tool breakage may occur during machining, wearing safety glasses is recommended.
- ▶ Balanced holders are recommended for speeds above 10,000 rpm.
- ▶ We do not accept any responsibility for tools that have been modified, reground or used incorrectly and beyond their normal service life.
- ▶ Protective goggles are recommended when using tools, sparks may also occur, make sure that no fire can occur.



PASSION FOR DIAMOND

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