



Rani Tool Corp.



DTS GmbH

Diamond Tooling Systems



PASSION FOR DIAMOND

- Solid brazed style PCD/CVD-D/CBN tipped boring bars
- Over 250 line items
- Sizes start at 1mm minimum bore up through 9mm
- Nice range of 4 “reaches” to better match your applications
- Three different radii are standard

- Excellent cutting geometry to produce fine finishes and tight tolerances
- Bars have locating flats for easy alignment
- Two styles—BS and BE for a broader application range
- 5/8" diameter adapters are available

BS

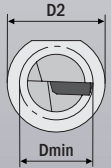
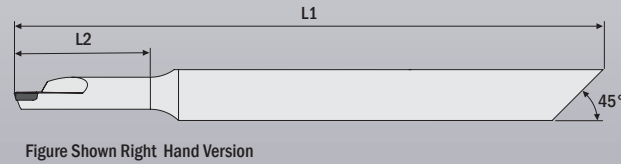
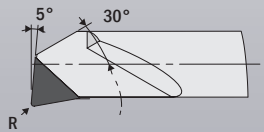


Figure Shown Right Hand Version

PASSION FOR DIAMOND

						PCD	CVD-D	CBN
Dmin	L2	L1	R	D2	Version	ITEM CODE	ITEM CODE	ITEM CODE
1	3	72	0.1	4 ^{H6}	RH		BS2050-1002	BS3550-1002
					LH		BS2050-1003	BS3550-1003
	10	80	0.1	4 ^{H6}	RH	BS1050-0000	BS2050-0000	BS3550-0000
					LH	BS1050-0001	BS2050-0001	BS3550-0001
1.5	3	71	0.1	4 ^{H6}	RH		BS2050-1007	BS3550-1007
					LH		BS2050-1008	BS3550-1008
	6	74	0.1	4 ^{H6}	RH		BS2050-1005	BS3550-1005
					LH		BS2050-1006	BS3550-1006
	15	80	0.1	4 ^{H6}	RH	BS1050-0005	BS2050-0005	BS3550-0005
					LH	BS1050-0006	BS2050-0006	BS3550-0006
2	6	74	0.1	4 ^{H6}	RH		BS2050-1012	BS3550-1012
					LH		BS2050-1013	BS3550-1013
	6	74	0.2	4 ^{H6}	RH		BS2050-2012	BS3550-2012
					LH		BS2050-2013	BS3550-2013
	10	80	0.1	4 ^{H6}	RH	BS1050-0010	BS2050-0010	BS3550-0010
					LH	BS1050-0011	BS2050-0011	BS3550-0011
2.5	6	74	0.1	4 ^{H6}	RH		BS2050-1022	BS3550-1022
					LH		BS2050-1023	BS3550-1023
	6	74	0.2	4 ^{H6}	RH		BS2050-2022	BS3550-2022
					LH		BS2050-2023	BS3550-2023
	10	80	0.1	4 ^{H6}	RH	BS1050-0020	BS2050-0020	BS3550-0020
					LH	BS1050-0021	BS2050-0021	BS3550-0021
3	6	74	0.1	4 ^{H6}	RH		BS2050-1028	BS3550-1028
					LH		BS2050-1029	BS3550-1029
	6	74	0.2	4 ^{H6}	RH		BS2050-2028	BS3550-2028
					LH		BS2050-2029	BS3550-2029
	10	78	0.1	4 ^{H6}	RH	BS1050-1026	BS2050-1026	BS3550-1026
					LH	BS1050-1027	BS2050-1027	BS3550-1027
	10	78	0.2	4 ^{H6}	RH	BS1050-2026	BS2050-2026	BS3550-2026
					LH	BS1050-2027	BS2050-2027	BS3550-2027
	15	83	0.1	4 ^{H6}	RH	BS1050-1024	BS2050-1024	BS3550-1024
					LH	BS1050-1025	BS2050-1025	BS3550-1025
15	83	0.2	4 ^{H6}	RH	BS1050-2024	BS2050-2024	BS3550-2024	
				LH	BS1050-2025	BS2050-2025	BS3550-2025	



- Precision machine a wide range of workpiece materials. PCD and CVD-D are used in low and high silicon aluminum alloys, all non-ferrous materials such as brass, carbide, ceramics, CFRP/GFRP, copper, graphite, MMC, PEEK, precious metals, Tungston alloys
- The CBN grade is used in hardened steel up to 68Rc, special alloys such as ASP, CPM, HARDOX, high temperature alloys, and hardened tool steels

BS

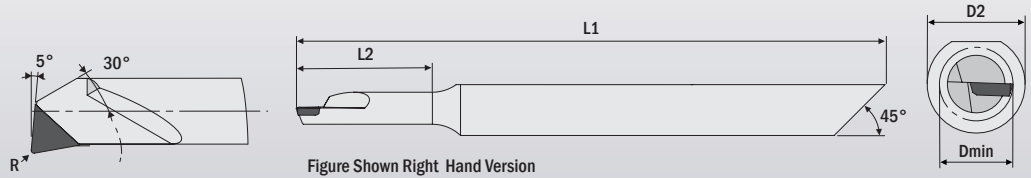


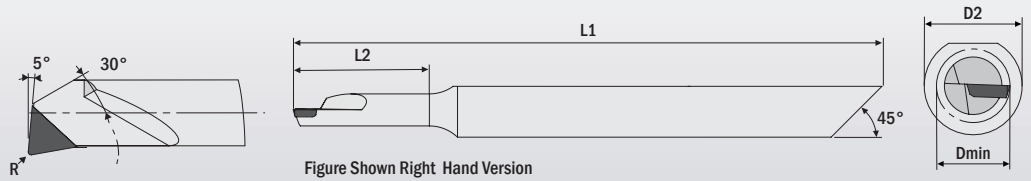
Figure Shown Right Hand Version

PASSION FOR DIAMOND

						PCD	CVD-D	CBN
Dmin	L2	L1	R	D2	Version	ITEM CODE	ITEM CODE	ITEM CODE
3.5	6	74	0.1	4 ^{H6}	RH		BS2050-1032	BS3550-1032
					LH		BS2050-1033	BS3550-1033
	6	74	0.2	4 ^{H6}	RH		BS2050-2032	BS3550-2032
					LH		BS2050-2033	BS3550-2033
	10	78	0.1	4 ^{H6}	RH		BS2050-1034	BS3550-1034
					LH		BS2050-1035	BS3550-1035
	10	78	0.2	4 ^{H6}	RH		BS2050-2034	BS3550-2034
					LH		BS2050-2035	BS3550-2035
	15	80	0.1	4 ^{H6}	RH	BS1050-0030	BS2050-0030	BS3550-0030
					LH	BS1050-0031	BS2050-0031	BS3550-0031
	15	83	0.2	4 ^{H6}	RH	BS1050-2030	BS2050-2030	BS3550-2030
					LH	BS1050-2031	BS2050-2031	BS3550-2031
21	89	0.1	4 ^{H6}	RH	BS1050-1036	BS2050-1036	BS3550-1036	
				LH	BS1050-1037	BS2050-1037	BS3550-1037	
21	89	0.2	4 ^{H6}	RH	BS1050-2036	BS2050-2036	BS3550-2036	
				LH	BS1050-2037	BS2050-2037	BS3550-2037	
4	10	78	0.1	4 ^{H6}	RH		BS2050-1132	BS3550-1132
					LH		BS2050-1133	BS3550-1133
	10	78	0.2	4 ^{H6}	RH		BS2050-2132	BS3550-2132
					LH		BS2050-2133	BS3550-2133
	15	80	0.1	4 ^{H6}	RH	BS1050-1140	BS2050-1140	BS3550-1140
					LH	BS1050-1141	BS2050-1141	BS3550-1141
	15	83	0.2	4 ^{H6}	RH	BS1050-2130	BS2050-2130	BS3550-2130
					LH	BS1050-2131	BS2050-2131	BS3550-2131
	21	89	0.1	4 ^{H6}	RH	BS1050-1134	BS2050-1134	BS3550-1038
					LH	BS1050-1135	BS2050-1135	BS3550-1039
	21	89	0.2	4 ^{H6}	RH	BS1050-2134	BS2050-2134	BS3550-2038
					LH	BS1050-2135	BS2050-2135	BS3550-2039
4.5		78	0.1	4 ^{H6}	RH		BS2050-1230	BS3550-1240
					LH		BS2050-1231	BS3550-1241
		78	0.2	4 ^{H6}	RH		BS2050-2230	BS3550-2240
					LH		BS2050-2231	BS3550-2241
		83	0.1	4 ^{H6}	RH	BS1050-1232	BS2050-1232	BS3550-1242
					LH	BS1050-1233	BS2050-1233	BS3550-1243
		83	0.2	4 ^{H6}	RH	BS1050-2232	BS2050-2232	BS3550-2242
					LH	BS1050-2233	BS2050-2233	BS3550-2243
		89	0.1	4 ^{H6}	RH		BS2050-1234	BS3550-1244
					LH		BS2050-1235	BS3550-1245
		89	0.2	4 ^{H6}	RH		BS2050-2234	BS3550-2244
					LH		BS2050-2235	BS3550-2245
5		80	0.1	4 ^{H6}	RH		BS2050-1240	BS3550-1040
					LH		BS2050-1241	BS3550-1041
		80	0.2	4 ^{H6}	RH	BS1050-2040	BS2050-2040	BS3550-2040
					LH	BS1050-2041	BS2050-2041	BS3550-2041
		80	0.4	4 ^{H6}	RH	BS1050-4040	BS2050-4040	BS3550-4040
					LH	BS1050-4041	BS2050-4041	BS3550-4041



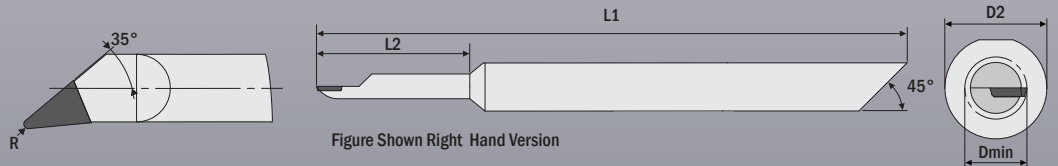
BS



PASSION FOR DIAMOND

						PCD	CVD-D	CBN
Dmin	L2	L1	R	D2	Version	ITEM CODE	ITEM CODE	ITEM CODE
6		100	0.1	5 ^{H6}	RH		BS2050-1050	BS3550-1050
					LH		BS2050-1051	BS3550-1051
		100	0.2	5 ^{H6}	RH	BS1050-2050	BS2050-2050	BS3550-2050
					LH	BS1050-2051	BS2050-2051	BS3550-2051
		100	0.4	5 ^{H6}	RH	BS1050-4050	BS2050-4050	BS3550-4050
					LH	BS1050-4051	BS2050-4051	BS3550-4051
7		100	0.2	6 ^{H6}	RH	BS1050-2060	BS2050-2060	BS3550-2060
					LH	BS1050-2061	BS2050-2061	BS3550-2061
		100	0.4	6 ^{H6}	RH	BS1050-4060	BS2050-4060	BS3550-4060
					LH	BS1050-4061	BS2050-4061	BS3550-4061
9		100	0.2	8 ^{H6}	RH	BS1050-2080	BS2050-2080	BS3550-2080
					LH	BS1050-2081	BS2050-2081	BS3550-2081
		100	0.4	8 ^{H6}	RH	BS1050-4080	BS2050-4080	BS3550-4080
					LH	BS1050-4081	BS2050-4081	BS3550-4081

BE



PASSION FOR DIAMOND

						PCD	CVD-D	CBN
Dmin	L2	L1	R	D2	Version	ITEM CODE	ITEM CODE	ITEM CODE
3.6	10	100	0.2	6 ^{H6}	RH		BE2050-2130	BE3550-2130
					LH		BE2050-2131	BE3550-2131
	18	100	0.2	6 ^{H6}	RH		BE2050-2030	BE3550-2030
					LH		BE2050-2031	BE3550-2031
7		100	0.2	6 ^{H6}	RH		BE2050-2060	BE3550-2060
					LH		BE2050-2061	BE3550-2061
		100	0.4	6 ^{H6}	RH		BE2050-4060	BE3550-4060
					LH		BE2050-4061	BE3550-4061

ADAPTERS



ITEM CODE	D	d	dH7	dH7mm	H	l
ADAP-0.625-40	0.625	0.197	0.157	4	0.551	3.94
ADAP-0.625-50	0.625	0.236	0.197	5	0.551	3.94
ADAP-0.625-60	0.625	0.315	0.236	6	0.551	3.94
ADAP-0.625-80	0.625	0.394	0.315	8	0.551	3.94



PCD	Is ideally suited for the machining of: Aluminium <10% Si Graphite Copper Copper Alloy Magnesium Brass PEEK Tungsten alloy
CVD-D	Is ideally suited for the machining of: Acrylic (PMMA) Aluminum >10% Si Glass, Fiberglass Carbide Ceramics Synthetics Copper, Copper Alloys Magnesium Silver, Gold, Platinum Titanium Composites (CFK, GFK) Zirconium
CBN-H	For the machining of: Steels up to Rc Hardened Sintered Steels

Type BS
Starting from Dmin 1,00mm

All coloured surfaces can be machined

Robust system for turning contours in bores

Type BE
Starting from Dmin 3,60mm

All coloured surfaces can be machined

For contouring turning on the plane surface

Check out the industries largest offering of Laser Chipbreaker PCD / CVD-D and CBN Multi-tipped Turning and Boring inserts.

Visit www.ranitool.com

RTC Rani Tool Corp.

DTS GmbH
Diamond Tooling Systems

PASSION FOR DIAMOND

CVD-D & PCD Chipbreaker Program

Introducing 2 Brand New Lasered Chipbreakers

- Over 250 new line items
- Greatly expanded offering of full edge inserts with chipbreakers
- PCD and CVD-D binderless diamond
- Wipers available for 80° and 55° inserts for up to 2 to 4 times higher feed rates with good surface finishes
- Can be used in smooth and interrupted cutting
- CBF chipbreaker has sharp cutting edges and produces minimal cutting pressure on thin-walled parts
- CBR chipbreaker has a landed edge for strength and produces excellent part finishes

RTC Rani Tool Corp.

DTS GmbH
Diamond Tooling Systems

PASSION FOR DIAMOND

12 Brand New CBN Grades greatly expanding our already impressive product offering!

- Over 1,000 New line items
- Grades for hard steel, powdered metal, hi-temp alloys
- Grey & ductile cast iron
- Smooth and highly interrupted cut
- Multiple cutting edges on each insert

CCGW Edge Tipped

Designation	PC	V	CS	F	MAX. SPEED	MAX. FEED	MAX. DEPTH	MAX. CH. W.	MAX. CH. L.	MAX. CH. R.	MAX. CH. D.	MAX. CH. W.	MAX. CH. L.	MAX. CH. R.	MAX. CH. D.
CCGW-01.00.0															
CCGW-01.00.0.2															
CCGW-01.00.0.2	250	004	110	018											
CCGW-01.00.0.2				019											
CCGW-01.00.0.2				020											
CCGW-01.00.0.2				024											
CCGW-01.00.0.2				026											
CCGW-01.00.0.2				028											
CCGW-01.00.0.2				030											
CCGW-01.00.0.2				032											
CCGW-01.00.0.2				033											
CCGW-01.00.0.2				035											
CCGW-01.00.0.2				038											
CCGW-01.00.0.2				040											
CCGW-01.00.0.2				042											
CCGW-01.00.0.2				044											
CCGW-01.00.0.2				046											
CCGW-01.00.0.2				048											
CCGW-01.00.0.2				050											
CCGW-01.00.0.2				052											
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CCGW-01.00.0.2				070											
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