SUPERION, Inc.

CUSTOM CARBIDE CUTTING TOOLS FOR UNIQUE APPLICATIONS



SUPERION, Inc.

SOLID CARBIDE AND CARBIDE HEAD BURNISHING DRILLS

FEATURES

- Closer Hole Tolerance
- Better Surface Finishes
- Ideal for Tap Drilling
- Creates Small Broken Chips
- Self Centering
- Submicro Grain Carbide

APPLICATIONS

- Cast Irons
- Die Cast Aluminum
- Aluminum Alloy
- Copper Alloy
- Non-Ferrous Materials
- Hard Plastics

SPECIALS AVAILABLE

- Coolant Thru
- Carbide head/Tipped
- Tapered Shank
- Multiple Step Tools
- TiN, TiCN, and ZrN Coatings
- Spiral Flutes
- PCD/CBN Tipped



V-Braze Solid carbide head multi-diameter combination spot facing drill



Solid carbide head burnishing drill with carbide tipped spot facer



Solid carbide head burnishing drill with oil holes



Solid carbide head step burnishing drill



Solid carbide spiral fluted spot facing drill



Solid carbide long flute burnishing drill



Solid carbide multi-diameter step drill



Solid carbide multi-diameter combination spot facing and chamfering drill



Solid carbide step drill



Solid carbide standard burnishing drill

HIGH PERFORMANCE PRODUCTION CUTTING TOOLS









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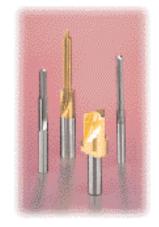


Drill Diameter	Dec.Eq. E.D.P.	Flute Length	Overall Length
3mm	BD.1181	35	75
1/8	BD.1250	1 3/8	3
3.5mm	BD.1378	35	75
5/32	BD.1563	1 9/16	3 11/32
4mm	BD.1575	40	85
4.5mm	BD.1772	40	85
3/16	BD.1875	1 3/4	4 1/8
5mm	BD.1969	45	105
#7	BD.2010	1 3/4	4 1/8
#3	BD.2130	1 3/4	4 1/8
5.5mm	BD.2165	45	105
7/32	BD.2188	1 7/8	4 1/2
6mm	BD.2362	48	115
1/4	BD.2500	1 7/8	4 1/2
6.5mm	BD.2559	58	115
F	BD.2570	2	4 1/2
1	BD.2720	2	4 1/2
7mm	BD.2756	50	115
9/32	BD.2812	2	4 1/2
7.5mm	BD.2953	60	115
5/16	BD.3125	2 3/8	4 1/2
8mm	BD.3150	60	115
8.5mm	BD.3346	60	115

Drill Diameter	Dec.Eq. E.D.P.	Flute Length	Overall Length
11/32	BD.3437	2 3/8	4 1/2
9mm	BD.3543	60	115
9.5mm	BD.3740	66	120
3/8	BD.3750	2 9/16	4 3/4
10mm	BD.3937	66	120
13/32	BD.4062	2 9/16	4/34
10.5mm	BD.4134	66	120
11mm	BD.4331	66	120
7/16	BD.4375	2 3/4	5
11.5mm	BD.4528	70	127
15/32	BD.4688	2 3/4	5
12mm	BD.4724	76	127
1/2	BD.5000	3	5
13mm	BD.5118	82	133
17/32	BD.5313	3 1/4	5 1/4
14mm	BD.5512	82	140
9/16	BD.5625	3 1/4	5 1/2
15mm	BD.5906	82	150
5/8	BD.6250	3 1/4	5 7/8
16mm	BD.6299	89	150
17mm	BD.6693	89	150
11/16	BD.6875	3 1/2	5 7/8
18mm	BD.7087	92	150
3/4	BD.7500	3 5/8	5 7/8

RATES	CUTTING SPEED Meters/Min (Feet/Min)	FEED RATE MM/Rev (Inch/Rev)	
Aluminum Copper Alloys	50~100 m/min (160~320 fpm)	0.05~0.1mm (0.002~0.004	
Cast Iron	25~50 m/min (80~160 fpm)		

CARBIDE — CERMET — PCD/CBN





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offer a wide selection of precision tools, as well as the equipment and staff to meet your specific needs for tools requiring precision tolerance or complex shapes.



