

SOLID CARBIDE BORING BARS

SOLID CARBIDE BORING BARS

Right Hand, With Radius, NC Generation

FEATURES:

- Provides for vastly increased speed and feed rates in cutting aluminum, copper, stainless steels, high temperature alloys
- Manufactured with a 4RMS finish
- Mirror polished cutting surface
- Lockdown flat automatically locates tool on center
- Highly shock resistant, will not chip or break under normal machining conditions
- Made in the USA!



CHUCK JAWS
LATHE WORKHOLDING

MACHINE VISES
MAGNETIC CHUCKS

RETENTION KNOBS
ER, DA, TG COLLETS

TOOLHOLDERS
TAP HOLDERS

INDEXABLE DRILLS
TURNING & BORING

ENDMILLS, DRILLS
TAPS & REAMERS

ABRASIVES
MEASURING TOOLS

MRO & SAFETY
FLAT STOCK/DRILL ROD

Min. Bore	Shank Dia	OAL	Max. Bore Depth	Proj.	Part Number	Price Each
0.050	1/8	1-1/2	0.150	0.013	MO-BB050015	\$15.50
0.050	1/8	1-1/2	0.200	0.013	MO-BB050020	\$15.50
0.050	1/8	1-1/2	0.300	0.013	MO-BB050030	\$15.50
0.050	1/8	1-1/2	0.400	0.013	MO-BB050040	\$15.50
0.060	1/8	1-1/2	0.150	0.015	MO-BB060015	\$15.50
0.060	1/8	1-1/2	0.200	0.015	MO-BB060020	\$15.50
0.060	1/8	1-1/2	0.300	0.015	MO-BB060030	\$15.50
0.060	1/8	1-1/2	0.400	0.015	MO-BB060040	\$15.50
0.060	1/8	1-1/2	0.500	0.015	MO-BB060050	\$15.50
0.080	1/8	1-1/2	0.150	0.020	MO-BB080015	\$15.50
0.080	1/8	1-1/2	0.200	0.020	MO-BB080020	\$15.50
0.080	1/8	1-1/2	0.300	0.020	MO-BB080030	\$15.50
0.080	1/8	1-1/2	0.400	0.020	MO-BB080040	\$15.50
0.080	1/8	1-1/2	0.500	0.020	MO-BB080050	\$15.50
0.080	1/8	1-1/2	0.600	0.020	MO-BB080060	\$15.50
0.100	1/8	1-1/2	0.150	0.025	MO-BB100015	\$15.50
0.100	1/8	1-1/2	0.200	0.025	MO-BB100020	\$15.50
0.100	1/8	1-1/2	0.300	0.025	MO-BB100030	\$15.50
0.100	1/8	1-1/2	0.400	0.025	MO-BB100040	\$15.50
0.100	1/8	1-1/2	0.500	0.025	MO-BB100050	\$15.50
0.100	1/8	1-1/2	0.600	0.025	MO-BB100060	\$15.50
0.100	1/8	1-1/2	0.700	0.025	MO-BB100070	\$15.50
0.110	1/8	1-1/2	0.150	0.028	MO-BB110015	\$15.50
0.110	1/8	1-1/2	0.200	0.028	MO-BB110020	\$15.50
0.110	1/8	1-1/2	0.300	0.028	MO-BB110030	\$15.50
0.110	1/8	1-1/2	0.400	0.028	MO-BB110040	\$15.50
0.110	1/8	1-1/2	0.500	0.028	MO-BB110050	\$15.50
0.110	1/8	1-1/2	0.600	0.028	MO-BB110060	\$15.50
0.110	1/8	1-1/2	0.700	0.028	MO-BB110070	\$15.50
0.120	3/16	2	0.250	0.300	MO-BB120025	\$16.50
0.120	3/16	2	0.350	0.300	MO-BB120035	\$16.50
0.120	3/16	2	0.500	0.300	MO-BB120050	\$16.50
0.120	3/16	2	0.600	0.300	MO-BB120060	\$16.50
0.120	3/16	2	0.700	0.300	MO-BB120070	\$16.50
0.120	3/16	2	0.800	0.300	MO-BB120080	\$16.50
0.140	3/16	2	0.250	0.350	MO-BB140025	\$16.50
0.140	3/16	2	0.400	0.350	MO-BB140040	\$16.50
0.140	3/16	2	0.500	0.350	MO-BB140050	\$16.50
0.140	3/16	2	0.600	0.350	MO-BB140060	\$16.50
0.140	3/16	2	0.700	0.350	MO-BB140070	\$16.50
0.140	3/16	2	0.750	0.350	MO-BB140075	\$16.50
0.140	3/16	2	0.800	0.350	MO-BB140080	\$16.50
0.160	3/16	2	0.250	0.400	MO-BB160025	\$16.50
0.160	3/16	2	0.400	0.400	MO-BB160040	\$16.50
0.160	3/16	2	0.500	0.400	MO-BB160050	\$16.50
0.160	3/16	2	0.600	0.400	MO-BB160060	\$16.50
0.160	3/16	2	0.750	0.400	MO-BB160075	\$16.50
0.160	3/16	2	0.900	0.400	MO-BB160090	\$16.50
0.160	3/16	2	1.000	0.400	MO-BB160100	\$16.50
0.180	1/4	2-1/2	0.350	0.450	MO-BB180035	\$17.70
0.180	1/4	2-1/2	0.500	0.450	MO-BB180050	\$17.70
0.180	1/4	2-1/2	0.600	0.450	MO-BB180060	\$17.70
0.180	1/4	2-1/2	0.750	0.450	MO-BB180075	\$17.70
0.180	1/4	2-1/2	0.900	0.450	MO-BB180090	\$17.70
0.180	1/4	2-1/2	1.000	0.450	MO-BB180100	\$17.70
0.180	1/4	2-1/2	1.100	0.450	MO-BB180110	\$17.70
0.180	1/4	2-1/2	1.250	0.450	MO-BB180125	\$17.70
0.180	1/4	2-1/2	1.500	0.450	MO-BB180150	\$17.70

0.200	1/4	2-1/2	0.400	0.500	MO-BB200040	\$17.70
0.200	1/4	2-1/2	0.500	0.500	MO-BB200050	\$17.70
0.200	1/4	2-1/2	0.600	0.500	MO-BB200060	\$17.70
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0.200	1/4	2-1/2	1.300	0.500	MO-BB200130	\$17.70
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0.230	5/16	2-1/2	0.500	0.058	MO-BB230050	\$23.90
0.230	5/16	2-1/2	0.600	0.058	MO-BB230060	\$23.90
0.230	5/16	2-1/2	0.700	0.058	MO-BB230070	\$23.90
0.230	5/16	2-1/2	0.800	0.058	MO-BB230080	\$23.90
0.230	5/16	2-1/2	0.900	0.058	MO-BB230090	\$23.90
0.230	5/16	2-1/2	1.000	0.058	MO-BB230100	\$23.90
0.230	5/16	2-1/2	1.100	0.058	MO-BB230110	\$23.90
0.230	5/16	2-1/2	1.150	0.058	MO-BB230115	\$23.90
0.230	5/16	2-1/2	1.200	0.058	MO-BB230120	\$23.90
0.230	5/16	2-1/2	1.250	0.058	MO-BB230125	\$23.90
0.230	5/16	2-1/2	1.400	0.058	MO-BB230140	\$23.90
0.230	5/16	2-1/2	1.500	0.058	MO-BB230150	\$23.90
0.230	5/16	2-1/2	1.600	0.058	MO-BB230160	\$23.90
0.290	5/16	2-1/2	0.500	0.730	MO-BB290050	\$23.90
0.290	5/16	2-1/2	0.600	0.730	MO-BB290060	\$23.90
0.290	5/16	2-1/2	0.750	0.730	MO-BB290075	\$23.90
0.290	5/16	2-1/2	0.900	0.730	MO-BB290090	\$23.90
0.290	5/16	2-1/2	1.000	0.730	MO-BB290100	\$23.90
0.290	5/16	2-1/2	1.100	0.730	MO-BB290110	\$23.90
0.290	5/16	2-1/2	1.250	0.730	MO-BB290125	\$23.90
0.290	5/16	2-1/2	1.350	0.730	MO-BB290135	\$23.90
0.290	5/16	2-1/2	1.500	0.730	MO-BB290150	\$23.90
0.290	5/16	2-1/2	1.600	0.730	MO-BB290160	\$23.90
0.290	5/16	2-1/2	1.750	0.730	MO-BB290170	\$23.90
0.320	3/8	2-1/2	0.500	0.080	MO-BB320050	\$32.60
0.320	3/8	2-1/2	0.600	0.080	MO-BB320060	\$32.60
0.320	3/8	2-1/2	0.750	0.080	MO-BB320075	\$32.60
0.320	3/8	2-1/2	0.900	0.080	MO-BB320090	\$32.60
0.320	3/8	2-1/2	1.000	0.080	MO-BB320100	\$32.60
0.320	3/8	2-1/2	1.100	0.080	MO-BB320110	\$32.60
0.320	3/8	2-1/2	1.250	0.080	MO-BB320125	\$32.60
0.320	3/8	2-1/2	1.500	0.080	MO-BB320150	\$32.60
0.320	3/8	2-1/2	1.800	0.080	MO-BB320180	\$32.60
0.320	3/8	4	2.000	0.080	MO-BB320200	\$41.70
0.320	3/8	4	2.500	0.080	MO-BB320250	\$41.70
0.320	3/8	4	3.000	0.080	MO-BB320300	\$41.70
0.360	3/8	2-1/2	0.500	0.090	MO-BB360050	\$32.60
0.360	3/8	2-1/2	0.600	0.090	MO-BB360060	\$32.60
0.360	3/8	2-1/2	0.750	0.090	MO-BB360075	\$32.60
0.360	3/8	2-1/2	0.900	0.090	MO-BB360090	\$32.60
0.360	3/8	2-1/2	1.000	0.090	MO-BB360100	\$32.60
0.360	3/8	2-1/2	1.150	0.090	MO-BB360115	\$32.60
0.360	3/8	2-1/2	1.250	0.090	MO-BB360125	\$32.60
0.360	3/8	2-1/2	1.500	0.090	MO-BB360150	\$32.60
0.360	3/8	2-1/2	1.800	0.090	MO-BB360180	\$32.60
0.360	3/8	4	2.000	0.090	MO-BB360200	\$41.70
0.360	3/8	4	2.500	0.090	MO-BB360250	\$41.70
0.360	3/8	4	3.000	0.090	MO-BB360300	\$41.70
0.490	1/2	3	0.750	0.123	MO-BB490750	\$45.50
0.490	1/2	3	1.000	0.123	MO-BB490100	\$45.50
0.490	1/2	3	1.250	0.123	MO-BB490125	\$45.50
0.490	1/2	3	1.500	0.123	MO-BB490150	\$45.50
0.490	1/2	4	2.000	0.123	MO-BB490200	\$49.90
0.490	1/2	4	2.500	0.123	MO-BB490250	\$49.90
0.490	1/2	4	2.750	0.123	MO-BB490275	\$49.90
0.490	1/2	6	3.000	0.123	MO-BB490300	\$62.60
0.490	1/2	6	3.500	0.123	MO-BB490350	\$62.60
0.490	1/2	6	4.000	0.123	MO-BB490400	\$62.60
0.490	1/2	6	4.500	0.123	MO-BB490450	\$62.60

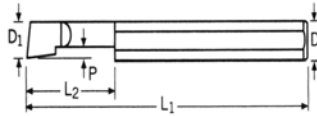
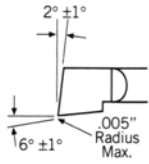
Call Us Today For All Of Your Machine Tool Needs!

SOLID CARBIDE BORING BARS

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SOLID CARBIDE BORING TOOLS

Lockdown flat automatically locates tool on center.



MICRO 100

Full Line Available!
Please call for more information.

LATHES CHUCKS
LIVE CENTERS

WISE JAWS
WISE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHES BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

Min. Bore D1	Shank Dia. D2	OAL L1	Proj. P	MAX. Bore L2	Right Hand Part Number	Left Hand Part Number	Price Each
.050	1/8	1-1/2	.013	.150	MI-BB050150	MI-BBL050150	\$21.15
				.200	MI-BB050200	MI-BBL050200	
				.300	MI-BB050300	MI-BBL050300	
				.400	MI-BB050400	MI-BBL050400	
.060			.015	.150	MI-BB060150	MI-BBL060150	
				.200	MI-BB060200	MI-BBL060200	
				.300	MI-BB060300	MI-BBL060300	
				.400	MI-BB060400	MI-BBL060400	
				.500	MI-BB060500	MI-BBL060500	
.080			.020	.150	MI-BB080150	MI-BBL080150	
				.200	MI-BB080200	MI-BBL080200	
				.300	MI-BB080300	MI-BBL080300	
				.400	MI-BB080400	MI-BBL080400	
				.500	MI-BB080500	MI-BBL080500	
				.600	MI-BB080600	MI-BBL080600	
.100			.025	.150	MI-BB100150	MI-BBL100150	
	.200	MI-BB100200		MI-BBL100200			
	.300	MI-BB100300		MI-BBL100300			
	.400	MI-BB100400		MI-BBL100400			
	.500	MI-BB100500		MI-BBL100500			
	.600	MI-BB100600		MI-BBL100600			
	.700	MI-BB100700		MI-BBL100700			
.110	.028	.150	MI-BB110150	MI-BBL110150			
		.200	MI-BB110200	MI-BBL110200			
		.300	MI-BB110300	MI-BBL110300			
		.400	MI-BB110400	MI-BBL110400			
		.500	MI-BB110500	MI-BBL110500			
		.600	MI-BB110600	MI-BBL110600			
		.700	MI-BB110700	MI-BBL110700			
.120	3/16	2	.030	.250	MI-BB120250	MI-BBL120250	\$22.45
				.350	MI-BB120350	MI-BBL120350	
				.500	MI-BB120500	MI-BBL120500	
				.600	MI-BB120600	MI-BBL120600	
				.700	MI-BB120700	MI-BBL120700	
				.800	MI-BB120800	MI-BBL120800	
				.250	MI-BB140250	MI-BBL140250	
				.400	MI-BB140400	MI-BBL140400	
.140	3/16	2	.035	.500	MI-BB140500	MI-BBL140500	
				.600	MI-BB140600	MI-BBL140600	
				.700	MI-BB140700	MI-BBL140700	
				.750	MI-BB140750	MI-BBL140750	
				.800	MI-BB140800	MI-BBL140800	
.160	3/16	2	.040	.250	MI-BB160250	MI-BBL160250	\$44.55
				.400	MI-BB160400	MI-BBL160400	
				.500	MI-BB160500	MI-BBL160500	
				.600	MI-BB160600	MI-BBL160600	
				.750	MI-BB160750	MI-BBL160750	
				.900	MI-BB160900	MI-BBL160900	
				1.000	MI-BB1601000	MI-BBL1601000	
				.350	MI-BB180350	MI-BBL180350	
.180	1/4	2-1/2	.045	.500	MI-BB180500	MI-BBL180500	\$56.95
				.600	MI-BB180600	MI-BBL180600	
				.750	MI-BB180750	MI-BBL180750	
				.900	MI-BB180900	MI-BBL180900	
				1.000	MI-BB1801000	MI-BBL1801000	
				1.100	MI-BB1801100	MI-BBL1801100	
.200	1/4	2-1/2	.050	.400	MI-BB200400	MI-BBL200400	\$24.25
				.500	MI-BB200500	MI-BBL200500	
				.600	MI-BB200600	MI-BBL200600	
				.700	MI-BB200700	MI-BBL200700	
				.800	MI-BB200800	MI-BBL200800	
				.900	MI-BB200900	MI-BBL200900	
				1.000	MI-BB2001000	MI-BBL2001000	
				1.100	MI-BB2001100	MI-BBL2001100	
				1.200	MI-BB2001200	MI-BBL2001200	
				1.300	MI-BB2001300	MI-BBL2001300	

Min Bore D1	Shank Dia. D2	OAL L1	Proj. P	Max Bore L2	Right Hand Part Number	Left Hand Part Number	Price Each
.230	5/16	2-1/2	.058	.400	MI-BB230400	MI-BBL230400	\$32.60
				.500	MI-BB230500	MI-BBL230500	
				.600	MI-BB230600	MI-BBL230600	
				.700	MI-BB230700	MI-BBL230700	
				.800	MI-BB230800	MI-BBL230800	
				.900	MI-BB230900	MI-BBL230900	
				1.000	MI-BB2301000	MI-BBL2301000	
				1.100	MI-BB2301100	MI-BBL2301100	
				1.150	MI-BB2301150	MI-BBL2301150	
				1.200	MI-BB2301200	MI-BBL2301200	
.290	5/16	2-1/2	.073	.500	MI-BB290500	MI-BBL290500	\$32.60
				.600	MI-BB290600	MI-BBL290600	
				.750	MI-BB290750	MI-BBL290750	
				.900	MI-BB290900	MI-BBL290900	
				1.000	MI-BB2901000	MI-BBL2901000	
				1.100	MI-BB2901100	MI-BBL2901100	
				1.250	MI-BB2901250	MI-BBL2901250	
				1.350	MI-BB2901350	MI-BBL2901350	
				1.500	MI-BB2901500	MI-BBL2901500	
				1.600	MI-BB2901600	MI-BBL2901600	
.320	3/8	2-1/2	.080	.500	MI-BB320500	MI-BBL320500	\$44.55
				.600	MI-BB320600	MI-BBL320600	
				.750	MI-BB320750	MI-BBL320750	
				.900	MI-BB320900	MI-BBL320900	
				1.000	MI-BB3201000	MI-BBL3201000	
		1.100		MI-BB3201100	MI-BBL3201100		
		1.250		MI-BB3201250	MI-BBL3201250		
		1.500		MI-BB3201500	MI-BBL3201500		
		1.600		MI-BB3201600	MI-BBL3201600		
		1.800		MI-BB3201800	MI-BBL3201800		
.360	3/8	2-1/2	.090	2.000	MI-BB3202000	MI-BBL3202000	\$56.95
				2.500	MI-BB3202500	MI-BBL3202500	
				3.000	MI-BB3203000	MI-BBL3203000	
				.500	MI-BB360500	MI-BBL360500	
				.600	MI-BB360600	MI-BBL360600	
		.750		MI-BB360750	MI-BBL360750		
		.900		MI-BB360900	MI-BBL360900		
		1.000		MI-BB3601000	MI-BBL3601000		
		1.150		MI-BB3601150	MI-BBL3601150		
		1.250		MI-BB3601250	MI-BBL3601250		
.490	1/2	4	.123	1.500	MI-BB3601500	MI-BBL3601500	\$62.10
				1.600	MI-BB3601600	MI-BBL3601600	
				1.800	MI-BB3601800	MI-BBL3601800	
		2.000		MI-BB3602000	MI-BBL3602000		
		2.500		MI-BB3602500	MI-BBL3602500		
		3.000		MI-BB3603000	MI-BBL3603000		
		.750		MI-BB490750	MI-BBL490750		
		1.000		MI-BB4901000	MI-BBL4901000		
		1.250		MI-BB4901250	MI-BBL4901250		
		1.500		MI-BB4901500	MI-BBL4901500		
.490	1/2	4	.123	2.000	MI-BB4902000	MI-BBL4902000	\$68.10
				2.500	MI-BB4902500	MI-BBL4902500	
				2.600	MI-BB4902600	MI-BBL4902600	
				2.750	MI-BB4902750	MI-BBL4902750	
				3.000	MI-BB4903000	MI-BBL4903000	
				3.500	MI-BB4903500	MI-BBL4903500	
.490	1/2	6	.123	4.000	MI-BB4904000	MI-BBL4904000	\$85.45
				4.500	MI-BB4904500	MI-BBL4904500	

Additional sizes also available.

Call Us Or Visit Our Website For Our Complete Selection!

SOLID CARBIDE BORING TOOLS

HELICAL BACK RAKE BORING TOOLS

Neck is centered to shank for use in jig boring machines. The helical grind provides an ideal top rake for better chip control. Left-hand boring tools also available.



N/C GENERATION

Shank Diameter -.0001 to -.0003"
Minimum Bore Dia. +.001 -.000"
Maximum Bore Depth +.030 -.000"
Overall Length ±1/64

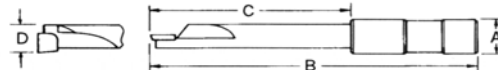
Shank Dia. D2	OAL L1	Bore Dia. D1	Bore Depth L2	Neck Dia. N	Part Number	Price Each	
1/8	1-1/2	0.020	1/16	0.015	MI-HBB020062	\$26.90	
			1/8	0.020	MI-HBB025062		
			1/8	0.020	MI-HBB025125		
		0.030	1/8	0.025	MI-HBB030125		
			3/16	0.025	MI-HBB030187		
			3/16	0.030	MI-HBB035125		
	3/16	2	0.035	1/8	0.030	MI-HBB035187	\$20.75
				3/16	0.030	MI-HBB040187	
				1/4	0.035	MI-HBB040250	
			0.040	3/16	0.035	MI-HBB040187	
				1/4	0.035	MI-HBB040250	
				1/4	0.040	MI-HBB050312	
3/16	2	0.050	5/16	0.040	MI-HBB050312	\$22.20	
			3/8	0.050	MI-HBB060375		
			7/16	0.060	MI-HBB070437		
		0.080	1/2	0.070	MI-HBB080500		
			1/2	0.080	MI-HBB090500		
			9/16	0.090	MI-HBB100562		
	3/8	2-1/2	0.100	5/8	0.100	MI-HBB120625	\$24.10
				1	0.100	MI-HBB1201000	
				1	0.110	MI-HBB135750	
			0.135	3/4	0.110	MI-HBB1351000	
				1	0.130	MI-HBB1501000	
				1-1/4	0.130	MI-HBB1501250	
1/4	2-1/2	0.150	1	0.160	MI-HBB1801000	\$20.30	
			1-1/4	0.160	MI-HBB1801250		
			1-1/2	0.160	MI-HBB1801500		
		0.180	1-1/4	0.160	MI-HBB1801000		
			1-1/4	0.185	MI-HBB2101000		
			1-1/2	0.185	MI-HBB2101250		
	3/16	2	0.210	1-1/2	0.215	MI-HBB2101500	\$22.05
				1-1/2	0.215	MI-HBB2401000	
				1-1/2	0.215	MI-HBB2401500	
			0.240	1-1/2	0.215	MI-HBB2401000	
				1-1/2	0.215	MI-HBB2401500	
				1-1/2	0.215	MI-HBB2401750	
5/16	2-1/2	0.250	1-1/2	0.250	MI-HBB3001000	\$32.95	
			1-1/2	0.250	MI-HBB3001500		
			1-3/4	0.250	MI-HBB3001750		
		0.360	1-1/2	0.320	MI-HBB3601000		
			1-3/4	0.320	MI-HBB3601500		
			1-3/4	0.320	MI-HBB3601750		
	3/8	2-1/2	0.320	2	0.320	MI-HBB3602000	\$45.75
				2-1/4	0.320	MI-HBB3602250	
				2-1/2	0.320	MI-HBB3602500	
			0.480	1-1/2	0.440	MI-HBB4801500	
				2	0.440	MI-HBB4802000	
				2-1/2	0.440	MI-HBB4802500	
1/2	3	0.440	3	0.440	MI-HBB4803000	\$70.70	
			3-1/2	0.440	MI-HBB4803500		
			4	0.440	MI-HBB4804000		
		0.480	3-1/2	0.440	MI-HBB4803500		
			4	0.440	MI-HBB4804000		
			4-1/2	0.440	MI-HBB4804500		

MICRO 100

BRAZED BORING TOOLS

MICRO 100

A lockdown groove completely encircles the tool so that the cutting point can be turned to any desired position.



A	B	C	D	Part Number	Price Each		
3/8	2 2-3/8 2-3/4	3/4 1-1/8 1-1/2	5/16	MI-PB1	\$25.95		
				MI-PB2			
				MI-PB3			
	3/8	2-3/16 2-21/32 3-1/8	15/16 1-13/32 1-7/8	3/8		MI-PB4	
						MI-PB5	
						MI-PB6	
		7/16	2-3/8 2-15/16 3-1/2	1-1/8 1-11/16 2-1/4		7/16	MI-PB7
							MI-PB8
							MI-PB9
1/2	2-1/4 2-5/8 3	3/4 1-1/8 1-1/2	5/16	MI-PB10	\$27.20		
				MI-PB11			
				MI-PB12			
	3/8	2-5/8 3-3/16 3-3/4	1-1/8 1-11/16 2-1/4	3/8		MI-PB13	
						MI-PB14	
						MI-PB15	
		7/16	3 3-3/4 4-1/2	1-1/2 2-1/4 3		7/16	MI-PB16
							MI-PB17
							MI-PB18
	5/8	2-1/4 2-5/8 3	3/4 1-1/8 1-1/2	5/16		MI-PB19	\$30.65
						MI-PB20	
						MI-PB21	
7/16		2-5/8 3-3/16 3-3/4	1-1/8 1-11/16 2-1/4	7/16	MI-PB22		
					MI-PB23		
					MI-PB24		
		9/16	3 3-3/4 4-1/2	1-1/2 2-1/4 3	9/16	MI-PB25	
						MI-PB26	
						MI-PB27	
11/16		3-3/8 4-5/16 5-1/4	1-7/8 2-13/16 3-3/4	11/16	MI-PB28		
					MI-PB29		
					MI-PB30		

BORING TOOLS TiAlN Coated Ground w/ Helical Rake

- FEATURES:
- Max-Bore has a special helical flute for maximum shearing action with a better finish
 - Elliptical neck for greater strength



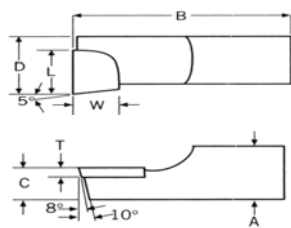
Min Bore	Radius	Shank	OAL	Max Depth	Part Number	Price Each
.120	.007	1/8	2	.375	IT-11-1300	\$24.07
				.500	IT-11-1305	
				.750	IT-11-1310	
.140	.007	3/16	2-1/2	.500	IT-11-1311	\$25.76
				.750	IT-11-1312	
				.750	IT-11-1312	
.160	.007	3/16	2-1/2	.500	IT-11-1313	\$25.76
				.750	IT-11-1314	
				1.000	IT-11-1316	
				1.000	IT-11-1316	
.180	.007	3/16	2-1/2	.375	IT-11-1315	\$25.76
				.500	IT-11-1320	
				.750	IT-11-1325	
				1.000	IT-11-1330	
.200	.007	1/4	2-1/2	.375	IT-11-1331	\$27.89
				.500	IT-11-1332	
				.750	IT-11-1332	
				1	IT-11-1334	

Tools Up to .490 Min. Bore Available

Call Us Today For All Of Your Machine Tool Needs!

2010-11 Master Catalog

BRAZED BORING BARS



QUANTITY DISCOUNTS



BORING BAR SETS

Five Boring Bars:
1/4", 3/8", 1/2",
5/8" and 3/4"
Part Number- TBB-5
Set Price: **\$112.65**

Shank				Tip			Right Hand	Left Hand	Price Each
A	B	C	D	T	W	L			
1/4	4	1/8	0.320	1/16	3/16	1/4	MI-TBB250	MI-TBBL250	\$20.15
5/16	5	5/32	0.413	1/16	1/4	5/16	MI-TBB312	MI-TBBL312	\$20.90
3/8	6	3/16	0.463	1/16	1/4	5/16	MI-TBB375	MI-TBBL375	\$22.25
1/2	7	1/4	0.625	1/8	1/4	1/2	MI-TBB500	MI-TBBL500	\$27.25
5/8	8	5/16	0.795	1/8	1/4	5/8	MI-TBB625	MI-TBBL625	\$28.60
3/4	9	3/8	0.935	1/8	1/4	5/8	MI-TBB750	MI-TBBL750	\$29.95
1	10	1/2	1.233	3/16	7/16	13/16	MI-TBB001	MI-TBBL001	\$31.45

Quantity Discounts	
1 to 5 pcs.	List
6 to 11 pcs.	Save 3%
12 pcs. or more	Save 5%

Must be same part number

3 PIECE BORING TOOL SET

Head Features:

- Bar holder moves freely and smoothly. Design assures superior rigidity for chatter-free boring and precise hole size accuracy. Hardened and ground adjusting screw designed for long lasting and trouble free use.

Set includes:

- Boring head,
- R8 boring shank and
- C-6 carbide tipped boring bar set (9 or 12 pieces).



BORING HEADS

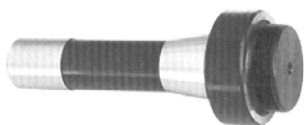
- Bar holder moves freely and smoothly
- Design assures superior rigidity for chatter-free boring and precise hole size accuracy
- Hardened and ground adjusting screw designed for long lasting and trouble free use



Head Size	Threads	Tool Cap	Part Number	Price Each
2"	1-1/2"-18	Up to 1/2"	A-1001-0101	\$65.00
2"	7/8"-20	Up to 1/2"	A-1001-0101-01	\$65.00
3"	1-1/2"-18	Up to 3/4"	A-1001-0102	\$89.00
4"	1-1/2"-18	Up to 1"	A-1001-0103	\$170.00

BORING HEAD SHANKS

- Made of high grade tool steel
- Hardened and ground
- R8, Morse Taper and Straight shanks



Taper Of Shank	End Type	7/8" -20 Thread		1-1/2" -18 Thread	
		Part Number	Price Each	Part Number	Price Each
R8	-	A-1001-0090	\$19.00	A-1001-0089	\$19.00
MT2	Draw Bar	A-1001-0080	\$19.00	A-1001-0081	\$20.00
MT2	Tang End	A-1001-0041	\$19.00	-	-
MT3	Tang End	A-1001-0043	\$20.00	A-1001-0086	\$20.00
MT3	Draw Bar	A-1001-0043-1	\$25.00	-	-
MT4	Tang End	A-1001-0045	\$25.00	A-1001-0066	\$25.00
# 30	Draw Bar	A-1001-0050	\$21.00	A-1001-0068	\$21.00
# 40	Draw Bar	A-1001-0052	\$27.00	A-1001-0069	\$27.00
1/2" SS	-	A-1001-0056	\$19.00	-	-
3/4" SS	-	A-1001-0058	\$19.00	A-1001-0074	\$19.00
1" SS	-	A-1001-0060	\$20.00	A-1001-0076	\$20.00
1-1/4" SS	-	A-1001-0062	\$21.00	A-1001-0077	\$21.00
1-1/2" SS	-	-	-	A-1001-0078	\$24.00

PRECISION BORING HEADS



FEATURES:

- Heavy duty construction offers smooth, chatter-free operation.
- Precision hardened steel with black oxide finish.
- .001" direct diameter reading micrometer dial.

Head Dia.	Shank	Part Number	Price
2"	Head Only	BHD-200	\$59.99
2-1/2"	R8	BHD-R8250	\$60.00
2-1/2"	3/4" SS	BHD-SS250	\$60.00
3"	R8	BHD-R8300	\$60.00

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