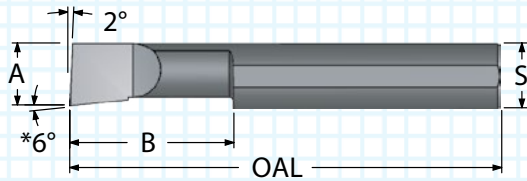


BORING BARS - SOLID CARBIDE



- Made with premium submicron grade carbide
- ALTiN+ coating for higher Surface Feet per Minute
- Precision ground flat for guaranteed tool orientation

"A" MIN BORE	"B" MAX DEPTH	"S" SHANK DIA.	OAL	ORDER #	
				UNCOATED	ALTiN+
0.050	0.150	0.125	1.50	B050150	B050150A
0.050	0.200	0.125	1.50	B050200	B050200A
0.050	0.300	0.125	1.50	B050300	B050300A
0.050	0.400	0.125	1.50	B050400	B050400A
0.060	0.150	0.125	1.50	B060150	B060150A
0.060	0.200	0.125	1.50	B060200	B060200A
0.060	0.300	0.125	1.50	B060300	B060300A
0.060	0.400	0.125	1.50	B060400	B060400A
0.060	0.500	0.125	1.50	B060500	B060500A
0.080	0.150	0.125	1.50	B080150	B080150A
0.080	0.200	0.125	1.50	B080200	B080200A
0.080	0.300	0.125	1.50	B080300	B080300A
0.080	0.400	0.125	1.50	B080400	B080400A
0.080	0.500	0.125	1.50	B080500	B080500A
0.080	0.600	0.125	1.50	B080600	B080600A
0.100	0.150	0.125	1.50	B100150	B100150A
0.100	0.200	0.125	1.50	B100200	B100200A
0.100	0.300	0.125	1.50	B100300	B100300A
0.100	0.400	0.125	1.50	B100400	B100400A
0.100	0.500	0.125	1.50	B100500	B100500A
0.100	0.600	0.125	1.50	B100600	B100600A
0.100	0.700	0.125	1.50	B100700	B100700A
0.110	0.150	0.125	1.50	B110150	B110150A
0.110	0.200	0.125	1.50	B110200	B110200A
0.110	0.300	0.125	1.50	B110300	B110300A
0.110	0.400	0.125	1.50	B110400	B110400A
0.110	0.500	0.125	1.50	B110500	B110500A
0.110	0.600	0.125	1.50	B110600	B110600A
0.110	0.700	0.125	1.50	B110700	B110700A
0.120	0.250	0.1875	2.00	B120250	B120250A
0.120	0.350	0.1875	2.00	B120350	B120350A
0.120	0.500	0.1875	2.00	B120500	B120500A
0.120	0.600	0.1875	2.00	B120600	B120600A
0.120	0.700	0.1875	2.00	B120700	B120700A
0.120	0.800	0.1875	2.00	B120800	B120800A

"A" MIN BORE	"B" MAX DEPTH	"S" SHANK DIA.	OAL	ORDER #	
				UNCOATED	ALTiN+
0.140	0.250	0.1875	2.00	B140250	B140250A
0.140	0.400	0.1875	2.00	B140400	B140400A
0.140	0.500	0.1875	2.00	B140500	B140500A
0.140	0.600	0.1875	2.00	B140600	B140600A
0.140	0.700	0.1875	2.00	B140700	B140700A
0.140	0.750	0.1875	2.00	B140750	B140750A
0.140	0.800	0.1875	2.00	B140800	B140800A
0.160	0.250	0.1875	2.00	B160250	B160250A
0.160	0.400	0.1875	2.00	B160400	B160400A
0.160	0.500	0.1875	2.00	B160500	B160500A
0.160	0.600	0.1875	2.00	B160600	B160600A
0.160	0.750	0.1875	2.00	B160750	B160750A
0.160	0.900	0.1875	2.00	B160900	B160900A
0.160	1.000	0.1875	2.00	B1601000	B1601000A
0.180	0.350	0.250	2.50	B180350	B180350A
0.180	0.500	0.250	2.50	B180500	B180500A
0.180	0.600	0.250	2.50	B180600	B180600A
0.180	0.750	0.250	2.50	B180750	B180750A
0.180	0.900	0.250	2.50	B180900	B180900A
0.180	1.000	0.250	2.50	B1801000	B1801000A
0.180	1.100	0.250	2.50	B1801100	B1801100A
0.180	1.250	0.250	2.50	B1801250	B1801250A
0.180	1.500	0.250	2.50	B1801500	B1801500A
0.200	0.400	0.250	2.50	B200400	B200400A
0.200	0.500	0.250	2.50	B200500	B200500A
0.200	0.600	0.250	2.50	B200600	B200600A
0.200	0.700	0.250	2.50	B200700	B200700A
0.200	0.800	0.250	2.50	B200800	B200800A
0.200	0.900	0.250	2.50	B200900	B200900A
0.200	1.000	0.250	2.50	B2001000	B2001000A
0.200	1.100	0.250	2.50	B2001100	B2001100A
0.200	1.200	0.250	2.50	B2001200	B2001200A
0.200	1.300	0.250	2.50	B2001300	B2001300A

* The B050 and the B060 series have 3° side clearance.

THREAD MILLS

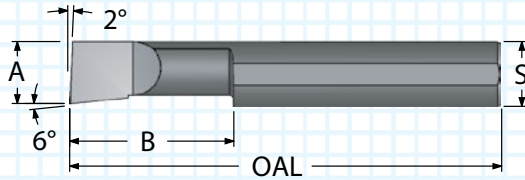
SINGLE POINT TOOLS
BORING

INDEXABLE TOOLS

PORT - CAVITY

SPECIALTY

BORING BARS - SOLID CARBIDE



- ALTiN+ coating extends tool life
- Elliptically ground neck provides maximum strength
- Precision ground shank flat guarantees tool orientation

"A" MIN BORE	"B" MAX DEPTH	"S" SHANK DIA.	OAL	ORDER #	
				UNCOATED	ALTiN+
0.230	0.400	0.3125	2.50	B230400	B230400A
0.230	0.500	0.3125	2.50	B230500	B230500A
0.230	0.600	0.3125	2.50	B230600	B230600A
0.230	0.700	0.3125	2.50	B230700	B230700A
0.230	0.800	0.3125	2.50	B230800	B230800A
0.230	0.900	0.3125	2.50	B230900	B230900A
0.230	1.000	0.3125	2.50	B2301000	B2301000A
0.230	1.100	0.3125	2.50	B2301100	B2301100A
0.230	1.150	0.3125	2.50	B2301150	B2301150A
0.230	1.200	0.3125	2.50	B2301200	B2301200A
0.230	1.250	0.3125	2.50	B2301250	B2301250A
0.230	1.400	0.3125	2.50	B2301400	B2301400A
0.230	1.500	0.3125	2.50	B2301500	B2301500A
0.230	1.600	0.3125	3.00	B2301600	B2301600A
0.290	0.500	0.3125	2.50	B290500	B290500A
0.290	0.600	0.3125	2.50	B290600	B290600A
0.290	0.750	0.3125	2.50	B290750	B290750A
0.290	0.900	0.3125	2.50	B290900	B290900A
0.290	1.000	0.3125	2.50	B2901000	B2901000A
0.290	1.100	0.3125	2.50	B2901100	B2901100A
0.290	1.250	0.3125	2.50	B2901250	B2901250A
0.290	1.350	0.3125	2.50	B2901350	B2901350A
0.290	1.500	0.3125	2.50	B2901500	B2901500A
0.290	1.600	0.3125	3.00	B2901600	B2901600A
0.290	1.750	0.3125	3.00	B2901750	B2901750A
0.320	0.500	0.375	2.50	B320500	B320500A
0.320	0.600	0.375	2.50	B320600	B320600A
0.320	0.750	0.375	2.50	B320750	B320750A
0.320	0.900	0.375	2.50	B320900	B320900A
0.320	1.000	0.375	2.50	B3201000	B3201000A
0.320	1.100	0.375	2.50	B3201100	B3201100A
0.320	1.250	0.375	2.50	B3201250	B3201250A
0.320	1.500	0.375	2.50	B3201500	B3201500A
0.320	1.600	0.375	3.00	B3201600	B3201600A
0.320	1.800	0.375	3.00	B3201800	B3201800A
0.320	2.000	0.375	4.00	B3202000	B3202000A
0.320	2.500	0.375	4.00	B3202500	B3202500A
0.320	3.000	0.375	4.00	B3203000	B3203000A

"A" MIN BORE	"B" MAX DEPTH	"S" SHANK DIA.	OAL	ORDER #	
				UNCOATED	ALTiN+
0.360	0.500	0.375	2.50	B360500	B360500A
0.360	0.600	0.375	2.50	B360600	B360600A
0.360	0.750	0.375	2.50	B360750	B360750A
0.360	0.900	0.375	2.50	B360900	B360900A
0.360	1.000	0.375	2.50	B3601000	B3601000A
0.360	1.150	0.375	2.50	B3601150	B3601150A
0.360	1.250	0.375	2.50	B3601250	B3601250A
0.360	1.500	0.375	2.50	B3601500	B3601500A
0.360	1.600	0.375	3.00	B3601600	B3601600A
0.360	1.800	0.375	3.00	B3601800	B3601800A
0.360	2.000	0.375	4.00	B3602000	B3602000A
0.360	2.500	0.375	4.00	B3602500	B3602500A
0.360	3.000	0.375	4.00	B3603000	B3603000A
0.490	0.750	0.500	3.00	B490750	B490750A
0.490	1.000	0.500	3.00	B4901000	B4901000A
0.490	1.250	0.500	3.00	B4901250	B4901250A
0.490	1.500	0.500	3.00	B4901500	B4901500A
0.490	2.000	0.500	4.00	B4902000	B4902000A
0.490	2.500	0.500	4.00	B4902500	B4902500A
0.490	2.600	0.500	4.00	B4902600	B4902600A
0.490	2.750	0.500	4.00	B4902750	B4902750A
0.490	3.000	0.500	6.00	B4903000	B4903000A
0.490	3.500	0.500	6.00	B4903500	B4903500A
0.490	4.000	0.500	6.00	B4904000	B4904000A
0.490	4.500	0.500	6.00	B4904500	B4904500A

THREAD MILLS

SINGLE POINT TOOLS
BORING

INDEXABLE TOOLS

PORT - CAVITY

SPECIALTY