



BORING BARS

F1 - F5

MICRO BORING BARS			F2 - F5
SERIES MBS	0.0150" - 0.2400" Dia.	Standard Length	F2
SERIES MBS	0.40mm - 6.00mm Dia.	Standard Length	F3
SERIES MBE	0.0150" - 0.2400" Dia.	Extended Length	F4
SERIES MBE	0.40mm - 6.00mm Dia.	Extended Length	F5

* Custom Boring Bars and Groove Tools available upon request.

STANDARD LENGTH

0.0150" - 0.2400" DIAMETER

Mirror Surface Finishes

Sub Micron Grain Carbide

INTERNAL DIAMETER PROFILE BORING



STANDARD LENGTH (Inch Sizes)

D ^{+0.0000} -0.0025	Dimensions (in)			Uncoated		AlTiN Coating	
	d	L ₁	L	Part Number	Stock	Part Number	Stock
0.0150	1/8	0.030	1 1/2	MBS-0150.030	●	MBS-0150L030	●
0.0200	1/8	0.030	1 1/2	MBS-0200.030	●	MBS-0200L030	●
0.0250	1/8	0.050	1 1/2	MBS-0250.050	●	MBS-0250L050	●
0.0300	1/8	0.050	1 1/2	MBS-0300.050	●	MBS-0300L050	●
0.0350	1/8	0.050	1 1/2	MBS-0350.050	●	MBS-0350L050	●
0.0400	1/8	0.050	1 1/2	MBS-0400.050	●	MBS-0400L050	●
0.0450	1/8	0.100	1 1/2	MBS-0450.100	●	MBS-0450L100	●
0.0500	1/8	0.100	1 1/2	MBS-0500.100	●	MBS-0500L100	●
0.0550	1/8	0.100	1 1/2	MBS-0550.100	●	MBS-0550L100	●
0.0600	1/8	0.100	1 1/2	MBS-0600.100	●	MBS-0600L100	●
0.0800	1/8	0.250	1 1/2	MBS-0800.250	●	MBS-0800L250	●
0.1000	1/8	0.375	1 1/2	MBS-1000.375	●	MBS-1000L375	●
0.1100	1/8	0.500	1 1/2	MBS-1100.500	●	MBS-1100L500	●
0.1200	3/16	0.600	2	MBS-1200.600	●	MBS-1200L600	●
0.1400	3/16	0.700	2	MBS-1400.700	●	MBS-1400L700	●
0.1600	3/16	0.800	2 1/2	MBS-1600.800	●	MBS-1600L800	●
0.1800	1/4	0.900	2 1/2	MBS-1800.900	●	MBS-1800L900	●
0.2000	1/4	1.000	3	MBS-2000.1000	●	MBS-2000L1000	●
0.2200	1/4	1.250	3	MBS-2200.1250	●	MBS-2200L1250	●
0.2400	1/4	1.500	3	MBS-2400.1500	●	MBS-2400L1500	●

Coating	SERIES MBS WORKPIECE MATERIAL														
	P Steel ~30HRC	P Steel 30-40HRC	H Hardened Steel ~55HRC	H Hardened Steel ~68HRC	M Stainless Steel	K Cast Iron	N Aluminum	N Graphite	N Copper Alloy	N CFRP	N Plastic	N Thermoset Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
AlTiN	★	★	★	☆	☆	☆			☆					☆	☆
Uncoated	★	★	★	☆	☆		☆		☆				☆		

★ : Priority ☆ : Applicable Materials

Symbol Descriptions [Page vii](#)

STANDARD LENGTH

INTERNAL DIAMETER PROFILE BORING

0.40mm - 6.00mm DIAMETER

Mirror Surface Finishes
Sub Micron Grain Carbide



STANDARD LENGTH (Metric Sizes)

D ^{+0.00} _{-0.06mm}	Dimensions (mm)			Uncoated		AlTiN Coating	
	d ^{h6}	L ₁	L	Part Number	Stock	Part Number	Stock
0.40	3	1	38	MBS-0157.039	●	MBS-0157L039	●
0.50	3	1	38	MBS-0197.039	●	MBS-0197L039	●
0.60	3	1.3	38	MBS-0236.051	●	MBS-0236L051	●
0.70	3	1.3	38	MBS-0276.051	●	MBS-0276L051	●
0.80	3	1.3	38	MBS-0315.051	●	MBS-0315L051	●
0.90	3	1.3	38	MBS-0354.051	●	MBS-0354L051	●
1.00	3	2.5	38	MBS-0394.098	●	MBS-0394L098	●
1.10	3	2.5	38	MBS-0433.098	●	MBS-0433L098	●
1.20	3	2.5	38	MBS-0472.098	●	MBS-0472L098	●
1.30	3	2.5	38	MBS-0512.098	●	MBS-0512L098	●
1.50	3	6	38	MBS-0591.236	●	MBS-0591L236	●
1.70	3	7	38	MBS-0669.276	●	MBS-0669L276	●
2.00	3	8	38	MBS-0787.315	●	MBS-0787L315	●
3.00	5	15	50	MBS-1181.591	●	MBS-1181L591	●
3.50	5	20	50	MBS-1378.787	●	MBS-1378L787	●
4.00	5	22	50	MBS-1575.866	●	MBS-1575L866	●
4.50	8	23	65	MBS-1772.906	●	MBS-1772L906	●
5.00	8	25	65	MBS-1969.984	●	MBS-1969L984	●
5.50	8	27	65	MBS-2165.1063	●	MBS-2165L1063	●
6.00	8	29	65	MBS-2362.1142	●	MBS-2362L1142	●

DRILLS A
 END MILLS B
 ROUTERS C
 THREAD MILLS & TAPS D
 ENGRAVERS E
 BORING BARS F
 REAMERS G
 SAWS H
 TECHNICAL I
 INDEX J

SERIES MBS WORKPIECE MATERIAL															
Coating	P Steel ~30HRC	P Steel 30-40HRC	H Hardened Steel ~55HRC	H Hardened Steel ~68HRC	M Stainless Steel	K Cast Iron	N Aluminum	N Graphite	N Copper Alloy	N CFRP	N Plastic	N Thermoset Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
AlTiN	★	★	★	☆	☆	☆			☆				☆	☆	☆
Uncoated	★	★	★	☆	☆		☆		☆				☆		

★ : Priority ☆ : Applicable Materials

Symbol Descriptions Page vii

● : U.S. Stock Standard
 ■ : NOT STOCKED - Call for Delivery
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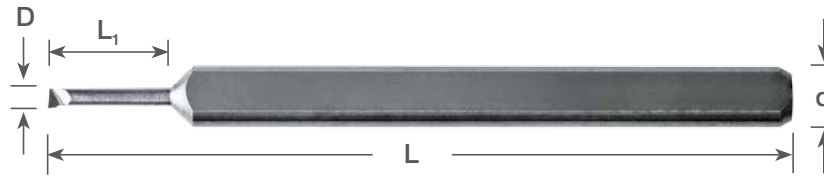


EXTENDED REACH

INTERNAL DIAMETER PROFILE BORING

0.0150" - 0.2400" DIAMETER

Mirror Surface Finishes
Sub Micron Grain Carbide



EXTENDED REACH (Inch Sizes)

D	Dimensions (in)			Uncoated		AlTiN Coating	
	D ^{+0.0000} _{-0.0025}	d	L ₁	Part Number	Stock	Part Number	Stock
0.0150	1/8	0.075	1 1/2	MBE-0150.075	●	MBE-0150L075	●
0.0200	1/8	0.075	1 1/2	MBE-0200.075	●	MBE-0200L075	●
0.0250	1/8	0.125	1 1/2	MBE-0250.125	●	MBE-0250L125	●
0.0300	1/8	0.125	1 1/2	MBE-0300.125	●	MBE-0300L125	●
0.0350	1/8	0.125	1 1/2	MBE-0350.125	●	MBE-0350L125	●
0.0400	1/8	0.125	1 1/2	MBE-0400.125	●	MBE-0400L125	●
0.0450	1/8	0.250	1 1/2	MBE-0450.250	●	MBE-0450L250	●
0.0500	1/8	0.250	1 1/2	MBE-0500.250	●	MBE-0500L250	●
0.0550	1/8	0.250	1 1/2	MBE-0550.250	●	MBE-0550L250	●
0.0600	1/8	0.250	1 1/2	MBE-0600.250	●	MBE-0600L250	●
0.0800	1/8	0.500	1 1/2	MBE-0800.500	●	MBE-0800L500	●
0.1000	1/8	0.600	1 1/2	MBE-1000.600	●	MBE-1000L600	●
0.1100	1/8	0.700	1 1/2	MBE-1100.700	●	MBE-1100L700	●
0.1200	3/16	0.850	2	MBE-1200.850	●	MBE-1200L850	●
0.1400	3/16	0.900	2	MBE-1400.900	●	MBE-1400L900	●
0.1600	3/16	1.100	2 1/2	MBE-1600.1100	●	MBE-1600L1100	●
0.1800	1/4	1.250	2 1/2	MBE-1800.1250	●	MBE-1800L1250	●
0.2000	1/4	1.400	3	MBE-2000.1400	●	MBE-2000L1400	●
0.2200	1/4	1.500	3	MBE-2200.1500	●	MBE-2200L1500	●
0.2400	1/4	1.750	3	MBE-2400.1750	●	MBE-2400L1750	●

Coating	SERIES MBE WORKPIECE MATERIAL														
	P Steel ~30HRC	P Steel 30-40HRC	H Hardened Steel ~55HRC	H Hardened Steel ~68HRC	M Stainless Steel	K Cast Iron	N Aluminum	N Graphite	N Copper Alloy	N CFRP	N Plastic	N Thermoset Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
AlTiN	★	★	★	☆	☆	☆			☆					☆	☆
Uncoated	★	★	★	☆	☆		☆		☆				☆		

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EXTENDED REACH

INTERNAL DIAMETER PROFILE BORING

0.40mm - 6.00mm DIAMETER

Mirror Surface Finishes
Sub Micron Grain Carbide



EXTENDED REACH (Metric Sizes)

D ^{+0.0000} -0.0025	Dimensions (mm)			Uncoated		AlTiN Coating	
	d ^{h6}	L ₁	L	Part Number	Stock	Part Number	Stock
0.40	3	2	38	MBE-0157.079	●	MBE-0157L079	●
0.50	3	2	38	MBE-0197.079	●	MBE-0197L079	●
0.60	3	3	38	MBE-0236.118	●	MBE-0236L118	●
0.70	3	3	38	MBE-0276.118	●	MBE-0276L118	●
0.80	3	3	38	MBE-0315.118	●	MBE-0315L118	●
0.90	3	3	38	MBE-0354.118	●	MBE-0354L118	●
1.00	3	5	38	MBE-0394.197	●	MBE-0394L197	●
1.10	3	5	38	MBE-0433.197	●	MBE-0433L197	●
1.20	3	5	38	MBE-0472.197	●	MBE-0472L197	●
1.30	3	5	38	MBE-0512.197	●	MBE-0512L197	●
1.50	3	10	38	MBE-0591.394	●	MBE-0591L394	●
1.70	3	10	38	MBE-0669.394	●	MBE-0669L394	●
2.00	3	10	38	MBE-0787.394	●	MBE-0787L394	●
3.00	5	20	50	MBE-1181.787	●	MBE-1181L787	●
3.50	5	25	50	MBE-1378.984	●	MBE-1378L984	●
4.00	5	27	50	MBE-1575.1063	●	MBE-1575L1063	●
4.50	8	32	65	MBE-1772.1260	●	MBE-1772L1260	●
5.00	8	32	65	MBE-1969.1260	●	MBE-1969L1260	●
5.50	8	32	65	MBE-2165.1260	●	MBE-2165L1260	●
6.00	8	35	65	MBE-2362.1378	●	MBE-2362L1378	●

SERIES MBE WORKPIECE MATERIAL															
Coating	P Steel ~30HRC	P Steel 30-40HRC	H Hardened Steel ~55HRC	H Hardened Steel ~68HRC	M Stainless Steel	K Cast Iron	N Aluminum	N Graphite	N Copper Alloy	N CFRP	N Plastic	N Thermoset Plastic	N High Density Plastic	S Nickel / Cobalt	S Titanium Alloy
AlTiN	★	★	★	☆	☆	☆			☆					☆	☆
Uncoated	★	★	★	☆	☆		☆		☆				☆		

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G	REAMERS
H	SAWS
I	TECHNICAL
J	INDEX