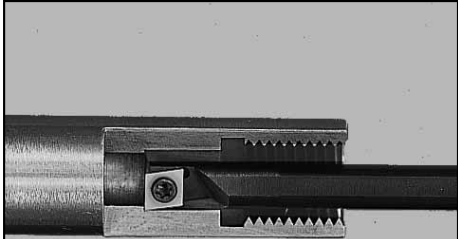
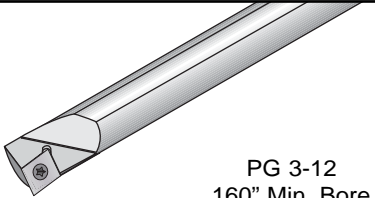
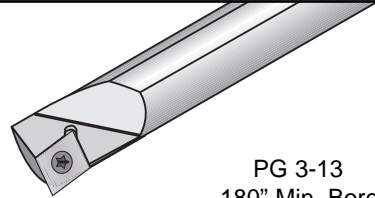
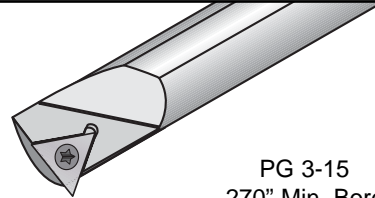
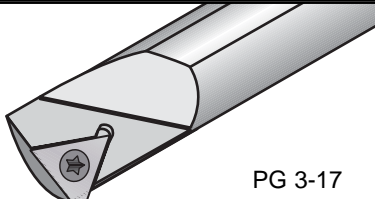
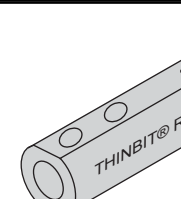
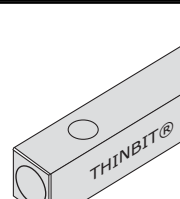

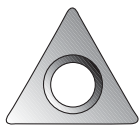
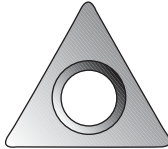


<p>BAR SIZES AND APPLICATIONS</p>	<ul style="list-style-type: none"> • Boring with .160" minimum bore diameter. • Boring bars for CD, TD and TP insert styles. • Variety of diameters made from Steel, Heavy Metal and Carbide. 	 <p>Right Hand Shown</p>
<p>INSERT GRADES AND COATINGS</p>	<ul style="list-style-type: none"> • Sub-micron grain DURA-MAX® 3000, 4000 and 5000 Carbides. • CBN tipped DURA-MAX® 8000. • PCD tipped DURA-MAX® 9000. • Inserts available with TiN, TiAlN, TiCN and Diamond coating. 	

<p>GENERAL INFORMATION</p>	<ul style="list-style-type: none"> • Bars and inserts are completely compatible with other ANSI standard bars and inserts. Call for cross-overs. • Bars and inserts stocked for fast, 24 hour shipment. • 'K' angle increases strength in insert pocket by increasing the cross-sectional area below the insert.
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<p>TOOLHOLDER SELECTIONS</p>	<p>MBZ SERIES</p>	<p>CD STYLE - MBA SERIES</p>	<p>TD STYLE - MBB SERIES</p>
	 <p>PG 3-12 .160" Min. Bore</p>	 <p>PG 3-13 .180" Min. Bore</p>	 <p>PG 3-15 .270" Min. Bore</p>
<p>Modifications can be provided on any of our tooling. Please contact us with your application requirements.</p>	<p>TP STYLE - MBC SERIES</p>	<p>ADAPTER STYLES</p>	
 <p>PG 3-17 .430" Min. Bore</p>	 <p>THINBIT® RC PG 7-9</p>	 <p>THINBIT® S PG 7-9</p>	

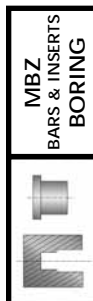
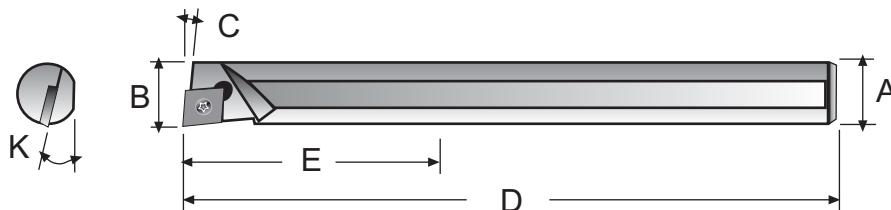
<p>INSERT SELECTIONS</p>	<p>CD STYLE - MBA SERIES</p>	<p>TD STYLE - MBB SERIES</p>	<p>TP STYLE - MBC SERIES</p>
	 <p>PG 3-14</p>	 <p>PG 3-16</p>	 <p>PG 3-18</p>


TO ORDER CD STYLE - MBZ SERIES BORING BARS

Select the **ORDER CODE** in the table below that represents your selection of tool specifications.

EXAMPLE:

The **ORDER CODE** for a .160" minimum bore, right hand, steel, .187" shank is:
MBZ-S17-1816R



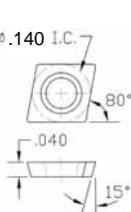
 .140" I.C.	TOOL SPECIFICATIONS							ORDER CODE		
	Minimum Bore 'B' With .007" radius insert	Material <small>Extension Ratios: Steel: 4 x ø Carbide: 8 x ø</small>	Bar Diameter 'A'	Length 'D'	Neck Length 'E'	Lead Angle 'C'	'K' Angle 'K'	Boring Bar <small>Includes Screw and Wrench</small>	Replacement Parts	
								Screw	Wrench	
Right Hand Bars <small>Use inserts beginning with "MBZ-IZ"</small>	0.160	Steel	.187"	2.500"	.580"	7°	17°	MBZ-S17-1816R	F11	W11
		Carbide	.156"	4.477"	1.500"	7°	17°	MBZ-C17-1516R		

TO ORDER CDCD STYLE - MBZ SERIES INSERTS

Select the **ORDER CODE** in the table below that represents your selection of insert specifications.

EXAMPLE:

The **ORDER CODE** for a **DURA-MAX® 5000** insert with .007" radius and TiN coating is:
MBZ-IZ-07D5C

MBZ Series Use toolholders beginning with 'MBZ'	SPECIFICATIONS		ORDER CODE				
	Insert Material	Corner Radius	Coating <small>See Page 9-5 for expanded material description and Page 9-15 for speeds and feeds</small>				
			Uncoated	TiN	TiCN/TiN Non-stock	TiAlN Non-stock	Diamond Non-stock
	DURA-MAX® 3000 carbide <small>For Steel & Interrupted Cutting</small>	.002"	MBZ-IZ-02D3U	MBZ-IZ-02D3C	MBZ-IZ-02D3D	MBZ-IZ-02D3E	MBZ-IZ-02D3F
		.007"	MBZ-IZ-07D3U	MBZ-IZ-07D3C	MBZ-IZ-07D3D	MBZ-IZ-07D3E	MBZ-IZ-07D3F
		.015"	MBZ-IZ-15D3U	MBZ-IZ-15D3C	MBZ-IZ-15D3D	MBZ-IZ-15D3E	MBZ-IZ-15D3F
	DURA-MAX® 5000 carbide <small>For Aluminum & Non-ferrous</small>	.002"	MBZ-IZ-02D5U	MBZ-IZ-02D5C	MBZ-IZ-02D5D	MBZ-IZ-02D5E	MBZ-IZ-02D5F
		.007"	MBZ-IZ-07D5U	MBZ-IZ-07D5C	MBZ-IZ-07D5D	MBZ-IZ-07D5E	MBZ-IZ-07D5F
		.015"	MBZ-IZ-15D5U	MBZ-IZ-15D5C	MBZ-IZ-15D5D	MBZ-IZ-15D5E	MBZ-IZ-15D5F

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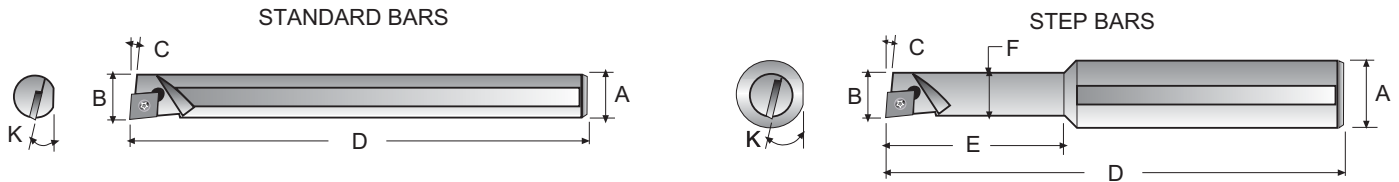
TO ORDER CD STYLE - MBA SERIES BORING BARS


Select the **ORDER CODE** in the table below that represents your selection of tool specifications.

EXAMPLE:

The **ORDER CODE** for a .205" minimum bore, right hand, steel, .187" shank is:

MBA-S15-1820R



 .156" I.C.	TOOL SPECIFICATIONS								ORDER CODE			
	Minimum Bore 'B' With .007" radius insert	Material Extension Ratios: Steel: 4 x ø Heavy Metal: 6 x ø Carbide: 8 x ø	Bar Diameter		Length		Lead Angle 'C'	'K' Angle 'K'	Boring Bar Includes Screw and Wrench	Replacement Parts		
			'F' Neck	'A' Shank	'E' Neck	'D' Overall				Screw	Wrench	
Right Hand Bars Use inserts beginning with "MBA-IW", "MBA-IZ", left hand "MBA-IG" inserts and most ANSI 'CD' standard inserts	.180"	Steel	.164"	.187"	.520"	2.500"	7°	17°	MBA-S17-1818R	F11	W11	
			.164"	.375"	.500"	2.500"	7°	17°	MBA-S37-3718R050			
		Heavy Metal	.156"		---	3.976"	7°	17°	MBA-H17-1518R			
			.164"	.500"	.750"	3.000"	7°	17°	MBA-H37-5018R075			
	Carbide	.156"		---	4.477"	7°	17°	MBA-C17-1518R				
		.205"	Steel	.187"		---	3.500"	5°	17°	MBA-S15-1820R	F15	W11
	.180"			.500"	.500"	3.000"	5°	17°	MBA-S35-5020R050			
	Heavy Metal	.187"		---	3.976"	5°	17°	MBA-H15-1820R				
		.210"	Steel	.187"		---	3.500"	0°	17°	MBA-S10-1821R	F15	W11
	.187"			.375"	1.000"	3.000"	5°	17°	MBA-S35-3721R100			
	Heavy Metal	.187"		---	3.976"	0°	17°	MBA-H10-1821R				
		.220"	Steel	.197"	.375"	.500"	2.500"	0°	17°	MBA-S30-3722R050	F15	W11
	.187"			---	3.976"	5°	17°	MBA-H15-1822R				
	.187"		.500"	1.125"	3.977"	5°	17°	MBA-H35-5022R112				
	Carbide	.187"		---	4.477"	5°	17°	MBA-C15-1822R				
		.230"	Steel	.187"		---	3.500"	5°	17°	MBA-S15-1823R	F15	W11
	.250"			---	4.000"	0°	12°	MBA-S10-2527R				
	.280"	Steel	.250"		---	4.000"	5°	12°	MBA-S15-2528R	F15	W11	
			.250"	.375"	1.250"	3.000"	5°	12°	MBA-S35-3728R125			
		Heavy Metal	.250"		---	3.976"	5°	12°	MBA-H15-2528R			
Carbide			.250"		---	6.504"	5°	12°	MBA-C15-2528R			
	.350"	Heavy Metal	.313"		---	5.500"	5°	8°	MBA-H15-3135R	F15	W11	
Left Hand Bars			.180"	Steel	.187"		---	2.500"	7°			17°
	Heavy Metal	.156"			---	3.976"	7°	17°	MBA-H17-1518L			
.205"		Steel	.180"	.500"	.500"	3.000"	5°	17°	MBA-S35-5020L050	F15	W11	
	.230"		Steel	.187"		---	3.500"	5°	17°			MBA-S15-1823L
				.250"		---	4.000"	5°	12°			MBA-S15-2528L

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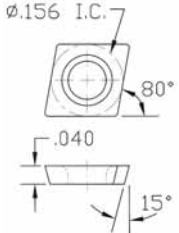
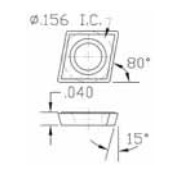
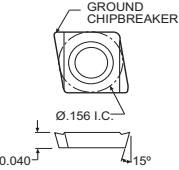
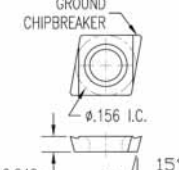
TO ORDER CD STYLE - MBA SERIES INSERTS

Select the **ORDER CODE** in the table below that represents your selection of insert specifications.

EXAMPLE:

The **ORDER CODE** for a molded chipbreaker, **DURA-MAX® 4000** insert with .007" radius and TiN coating is:

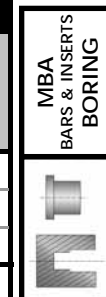
MBA-IW-07D4C

CD Style MBA Series Use toolholders beginning with 'MBA'	SPECIFICATIONS		ORDER CODE				
	Insert Material	Corner Radius	Coating <small>See Page 9-5 for expanded material descriptions and Page 9-15 for speeds and feeds</small>				
			Uncoated	TiN	TiCN/TiN Non-stock	TiAlN Non-stock	Diamond Non-stock
Flat top  CDCD Style	DURA-MAX® 3000 Carbide* For Steel & Interrupted Cutting	.002"	MBA-IZ-02D3U	MBA-IZ-02D3C	MBA-IZ-02D3D	MBA-IZ-02D3E	MBA-IZ-02D3F
		.007"	MBA-IZ-07D3U	MBA-IZ-07D3C	MBA-IZ-07D3D	MBA-IZ-07D3E	MBA-IZ-07D3F
		.015"	MBA-IZ-15D3U	MBA-IZ-15D3C	MBA-IZ-15D3D	MBA-IZ-15D3E	MBA-IZ-15D3F
	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	.002"	MBA-IZ-02D5U	MBA-IZ-02D5C	MBA-IZ-02D5D	MBA-IZ-02D5E	MBA-IZ-02D5F
		.007"	MBA-IZ-07D5U	MBA-IZ-07D5C	MBA-IZ-07D5D	MBA-IZ-07D5E	MBA-IZ-07D5F
		.015"	MBA-IZ-15D5U	MBA-IZ-15D5C	MBA-IZ-15D5D	MBA-IZ-15D5E	MBA-IZ-15D5F
	DURA-MAX® 8000 CBN For Hardened Materials	.002"	MBA-IZ-02D8				
		.007"	MBA-IZ-07D8				
		.015"	MBA-IZ-15D8				
	DURA-MAX® 9000 PCD For Abrasive Non-ferrous	.002"	MBA-IZ-02D9				
		.007"	MBA-IZ-07D9				
		.015"	MBA-IZ-15D9				
Molded Chipbreaker  CDCH Style	DURA-MAX® 4000 Carbide* For Steel & Interrupted Cutting	.007"	MBA-IW-07D4U	MBA-IW-07D4C	MBA-IW-07D4D	MBA-IW-07D4E	MBA-IW-07D4F
		.015"	MBA-IW-15D4U	MBA-IW-15D4C	MBA-IW-15D4D	MBA-IW-15D4E	MBA-IW-15D4F
	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	.007"	MBA-IW-07D5U	MBA-IW-07D5C	MBA-IW-07D5D	MBA-IW-07D5E	MBA-IW-07D5F
		.015"	MBA-IW-15D5U	MBA-IW-15D5C	MBA-IW-15D5D	MBA-IW-15D5E	MBA-IW-15D5F
Ground Chipbreaker Right Hand  CDCG Style	DURA-MAX® 3000 Carbide* For Steel & Interrupted Cutting	.002"	MBA-IG-02D3UR	MBA-IG-02D3CR	MBA-IG-02D3DR	MBA-IG-02D3ER	MBA-IG-02D3FR
		.007"	MBA-IG-07D3UR	MBA-IG-07D3CR	MBA-IG-07D3DR	MBA-IG-07D3ER	MBA-IG-07D3FR
		.015"	MBA-IG-15D3UR	MBA-IG-15D3CR	MBA-IG-15D3DR	MBA-IG-15D3ER	MBA-IG-15D3FR
	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	.002"	MBA-IG-02D5UR	MBA-IG-02D5CR	MBA-IG-02D5DR	MBA-IG-02D5ER	MBA-IG-02D5FR
		.007"	MBA-IG-07D5UR	MBA-IG-07D5CR	MBA-IG-07D5DR	MBA-IG-07D5ER	MBA-IG-07D5FR
		.015"	MBA-IG-15D5UR	MBA-IG-15D5CR	MBA-IG-15D5DR	MBA-IG-15D5ER	MBA-IG-15D5FR
Ground Chipbreaker Left Hand  CDCG Style	DURA-MAX® 3000 Carbide* For Steel & Interrupted Cutting	.002"	MBA-IG-02D3UL	MBA-IG-02D3CL	MBA-IG-02D3DL	MBA-IG-02D3EL	MBA-IG-02D3FL
		.007"	MBA-IG-07D3UL	MBA-IG-07D3CL	MBA-IG-07D3DL	MBA-IG-07D3EL	MBA-IG-07D3FL
		.015"	MBA-IG-15D3UL	MBA-IG-15D3CL	MBA-IG-15D3DL	MBA-IG-15D3EL	MBA-IG-15D3FL
	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	.002"	MBA-IG-02D5UL	MBA-IG-02D5CL	MBA-IG-02D5DL	MBA-IG-02D5EL	MBA-IG-02D5FL
		.007"	MBA-IG-07D5UL	MBA-IG-07D5CL	MBA-IG-07D5DL	MBA-IG-07D5EL	MBA-IG-07D5FL
		.015"	MBA-IG-15D5UL	MBA-IG-15D5CL	MBA-IG-15D5DL	MBA-IG-15D5EL	MBA-IG-15D5FL

* For some details, **DURA-MAX® 4000** may be substituted.

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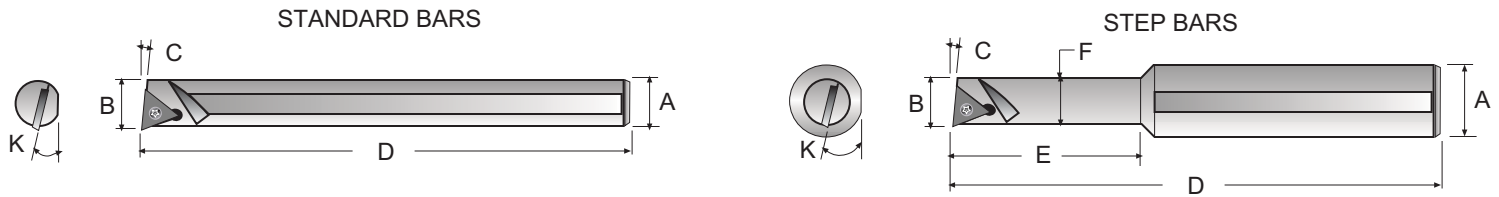
TO ORDER TD STYLE - MBB SERIES BORING BARS

Select the **ORDER CODE** in the table below that represents your selection of tool specifications.

EXAMPLE:

The **ORDER CODE** for a .300" minimum bore, right hand, heavy metal, .500" shank step bar is:

MBB-H35-5030R150



 .160" I.C.	TOOL SPECIFICATIONS								ORDER CODE					
	Minimum Bore 'B' With .007" radius insert	Material <small>Extension Ratios: Steel: 4 x ø Heavy Metal: 6 x ø Carbide: 8 x ø</small>	Bar Diameter		Length		Lead Angle	'K' Angle		Boring Bar Includes Screw and Wrench	Replacement Parts			
			'F' Neck	'A' Shank	'E' Neck	'D' Overall	'C'	'K'	Screw		Wrench			
Right Hand Bars <small>Use inserts beginning with "MBB-IW", "MBB-IZ", left hand "MBB-IG" inserts and most ANSI 'TD' standard inserts</small>	.270"	Steel	.187"		---	3.500"	0°	17°	MBB-S10-1827R	F22	W11			
			.187"		---	3.500"	5°	17°	MBB-S15-1827R					
			.187"	.500"	1.000"	3.000"	5°	17°	MBB-S35-5027R100					
		Heavy Metal	.187"		---	3.976"	0°	17°	MBB-H10-1827R					
			.187"		---	3.976"	5°	17°	MBB-H15-1827R					
			.187"	.500"	1.125"	3.965"	5°	17°	MBB-H35-5027R112					
	Carbide	.187"		---	4.487"	5°	17°	MBB-C15-1827R						
	.300"	Steel	.250"		---	4.000"	0°	12°	MBB-S10-2530R	F22	W11			
			.250"		---	4.000"	5°	12°	MBB-S15-2530R					
			.250"	.500"	1.250"	3.000"	5°	12°	MBB-S35-5030R125					
			.250"	.625"	1.250"	4.000"	5°	12°	MBB-S35-6230R125					
			Heavy Metal	.250"		---	3.976"	0°	12°			MBB-H10-2530R		
				.250"		---	3.976"	5°	12°			MBB-H15-2530R		
		.250"		.500"	1.500"	3.981"	5°	12°	MBB-H35-5030R150					
		Carbide	.250"		---	6.488"	5°	12°	MBB-C15-2530R					
		.350"	Steel	.313"		---	4.000"	0°	8°			MBB-S10-3135R	F22	W11
				.313"		---	4.000"	5°	8°			MBB-S15-3135R		
				.313"	.500"	1.000"	3.000"	5°	8°			MBB-S35-5035R100		
Heavy Metal			.313"		---	5.500"	0°	8°	MBB-H10-3135R					
	.313"		---	5.500"	5°	8°	MBB-H15-3135R							
	.313"		.500"	1.500"	3.981"	5°	8°	MBB-H35-5035R150						
Carbide	.313"		---	6.483"	5°	8°	MBB-C15-3135R							
Left Hand Bars <small>Use inserts beginning with "MBB-IW", "MBB-IZ", right hand "MBB-IG" inserts and most ANSI 'TD' standard inserts</small>	.270"	Steel	.187"		---	3.500"	5°	17°	MBB-S15-1827L	F22	W11			
	.300"	Steel	.250"		---	4.000"	5°	12°	MBB-S15-2530L					
	.350"	Steel	.313"		---	4.000"	5°	8°	MBB-S15-3135L					
		Heavy Metal	.313"		---	5.500"	5°	8°	MBB-H15-3135L					

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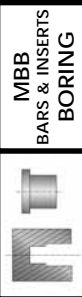
TO ORDER TD STYLE - MBB SERIES INSERTS

Select the **ORDER CODE** in the table below that represents your selection of insert specifications.

EXAMPLE:

The **ORDER CODE** for a molded chipbreaker, **DURA-MAX® 4000** insert with .007" radius and TiN coating is:

MBB-IW-07D4C



TD Style MBB Series Use toolholders beginning with 'MBB'	SPECIFICATIONS		ORDER CODE					
	Insert Material	Corner Radius	Coating <small>See Page 9-5 for expanded material descriptions and Page 9-15 for speeds and feeds</small>					
			Uncoated	TiN	TiCN/TiN Non-stock	TiAlN Non-stock	Diamond Non-stock	
Flat top TDAB Style	DURA-MAX® 3000 Carbide* For Steel & Interrupted Cutting	.002"	MBB-IZ-02D3U	MBB-IZ-02D3C	MBB-IZ-02D3D	MBB-IZ-02D3E	MBB-IZ-02D3F	
		.007"	MBB-IZ-07D3U	MBB-IZ-07D3C	MBB-IZ-07D3D	MBB-IZ-07D3E	MBB-IZ-07D3F	
		.015"	MBB-IZ-15D3U	MBB-IZ-15D3C	MBB-IZ-15D3D	MBB-IZ-15D3E	MBB-IZ-15D3F	
		.031"	MBB-IZ-31D3U	MBB-IZ-31D3C	MBB-IZ-31D3D	MBB-IZ-31D3E	MBB-IZ-31D3F	
	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	.002"	MBB-IZ-02D5U	MBB-IZ-02D5C	MBB-IZ-02D5D	MBB-IZ-02D5E	MBB-IZ-02D5F	
		.007"	MBB-IZ-07D5U	MBB-IZ-07D5C	MBB-IZ-07D5D	MBB-IZ-07D5E	MBB-IZ-07D5F	
		.015"	MBB-IZ-15D5U	MBB-IZ-15D5C	MBB-IZ-15D5D	MBB-IZ-15D5E	MBB-IZ-15D5F	
		.031"	MBB-IZ-31D5U	MBB-IZ-31D5C	MBB-IZ-31D5D	MBB-IZ-31D5E	MBB-IZ-31D5F	
	DURA-MAX® 8000 CBN For Hardened Materials	.002"	MBB-IZ-02D8					
		.007"	MBB-IZ-07D8					
		.015"	MBB-IZ-15D8					
		.031"	MBB-IZ-31D8					
	DURA-MAX® 9000 PCD For Abrasive Non-ferrous	.002"	MBB-IZ-02D9					
		.007"	MBB-IZ-07D9					
		.015"	MBB-IZ-15D9					
		.031"	MBB-IZ-31D9					
Molded Chipbreaker TDCH Style	DURA-MAX® 4000 Carbide* For Steel & Interrupted Cutting	.007"	MBB-IW-07D4U	MBB-IW-07D4C	MBB-IW-07D4D	MBB-IW-07D4E	MBB-IW-07D4F	
		.015"	MBB-IW-15D4U	MBB-IW-15D4C	MBB-IW-15D4D	MBB-IW-15D4E	MBB-IW-15D4F	
	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	.007"	MBB-IW-07D5U	MBB-IW-07D5C	MBB-IW-07D5D	MBB-IW-07D5E	MBB-IW-07D5F	
		.015"	MBB-IW-15D5U	MBB-IW-15D5C	MBB-IW-15D5D	MBB-IW-15D5E	MBB-IW-15D5F	
Ground Chipbreaker Right Hand TDCG Style	DURA-MAX® 3000 Carbide* For Steel & Interrupted Cutting	.002"	MBB-IG-02D3UR	MBB-IG-02D3CR	MBB-IG-02D3DR	MBB-IG-02D3ER	MBB-IG-02D3FR	
		.007"	MBB-IG-07D3UR	MBB-IG-07D3CR	MBB-IG-07D3DR	MBB-IG-07D3ER	MBB-IG-07D3FR	
		.015"	MBB-IG-15D3UR	MBB-IG-15D3CR	MBB-IG-15D3DR	MBB-IG-15D3ER	MBB-IG-15D3FR	
		.031"	MBB-IG-31D3UR	MBB-IG-31D3CR	MBB-IG-31D3DR	MBB-IG-31D3ER	MBB-IG-31D3FR	
	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	.002"	MBB-IG-02D5UR	MBB-IG-02D5CR	MBB-IG-02D5DR	MBB-IG-02D5ER	MBB-IG-02D5FR	
		.007"	MBB-IG-07D5UR	MBB-IG-07D5CR	MBB-IG-07D5DR	MBB-IG-07D5ER	MBB-IG-07D5FR	
		.015"	MBB-IG-15D5UR	MBB-IG-15D5CR	MBB-IG-15D5DR	MBB-IG-15D5ER	MBB-IG-15D5FR	
		.031"	MBB-IG-31D5UR	MBB-IG-31D5CR	MBB-IG-31D5DR	MBB-IG-31D5ER	MBB-IG-31D5FR	
	Ground Chipbreaker Left Hand TDCG Style	DURA-MAX® 3000 Carbide* For Steel & Interrupted Cutting	.002"	MBB-IG-02D3UL	MBB-IG-02D3CL	MBB-IG-02D3DL	MBB-IG-02D3EL	MBB-IG-02D3FL
			.007"	MBB-IG-07D3UL	MBB-IG-07D3CL	MBB-IG-07D3DL	MBB-IG-07D3EL	MBB-IG-07D3FL
			.015"	MBB-IG-15D3UL	MBB-IG-15D3CL	MBB-IG-15D3DL	MBB-IG-15D3EL	MBB-IG-15D3FL
			.031"	MBB-IG-31D3UL	MBB-IG-31D3CL	MBB-IG-31D3DL	MBB-IG-31D3EL	MBB-IG-31D3FL
DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous		.002"	MBB-IG-02D5UL	MBB-IG-02D5CL	MBB-IG-02D5DL	MBB-IG-02D5EL	MBB-IG-02D5FL	
		.007"	MBB-IG-07D5UL	MBB-IG-07D5CL	MBB-IG-07D5DL	MBB-IG-07D5EL	MBB-IG-07D5FL	
		.015"	MBB-IG-15D5UL	MBB-IG-15D5CL	MBB-IG-15D5DL	MBB-IG-15D5EL	MBB-IG-15D5FL	
		.031"	MBB-IG-31D5UL	MBB-IG-31D5CL	MBB-IG-31D5DL	MBB-IG-31D5EL	MBB-IG-31D5FL	

* For some details, **DURA-MAX® 4000** may be substituted.

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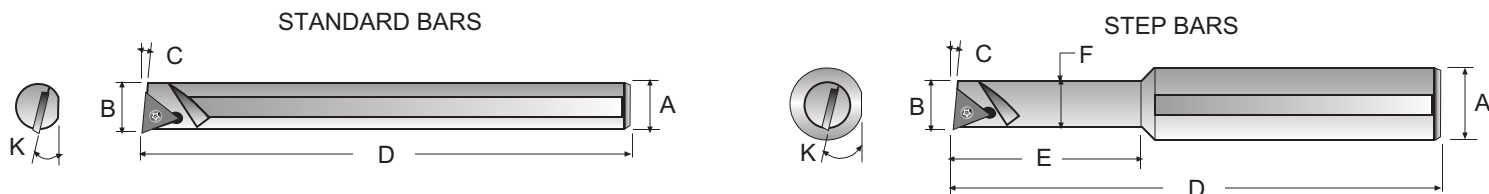
TO ORDER TP STYLE - MBC SERIES BORING BARS

Select the **ORDER CODE** in the table
below that represents your selection of tool specifications.

EXAMPLE:

The **ORDER CODE** for a .430" minimum bore, right hand, steel, .375" shank is:

MBC-S15-3743R



 .250" I.C.	TOOL SPECIFICATIONS								ORDER CODE		
	Minimum Bore 'B' With .007" radius insert	Material	Bar Diameter		Length		Lead Angle	'K' Angle	Boring Bar Includes Screw and Wrench	Replacement Parts	
			'F' Neck	'A' Shank	'E' Neck	'D' Overall	'C'	'K'		Screw	Wrench
Right Hand Bars Use inserts beginning with "MBC-IV", "MBC-IZ", left hand "MBC-IG" inserts and most ANSI 'TP' standard inserts	.430"	Steel	.375"		---	5.500"	0°	8°	MBC-S10-3743R	F31	W31
			.375"		---	5.500"	5°	8°	MBC-S15-3743R		
			.375"	.750"	1.125"	4.000"	5°	8°	MBC-S35-7543R112		
		Heavy Metal	.375"		---	5.500"	5°	8°	MBC-H15-3743R		
			.375"	.500"	2.250"	3.988"	5°	8°	MBC-H35-5043R225		
	Carbide	.375"		---	6.783"	5°	8°	MBC-C15-3743R			
	.560"	Steel	.500"		---	5.500"	5°	2°	MBC-S15-5056R	F31	W31
			.500"	.625"	1.500"	4.000"	5°	2°	MBC-S35-6256R150		
		Heavy Metal	.500"		---	5.500"	5°	2°	MBC-H15-5056R		
		Carbide	.500"		---	6.769"	5°	2°	MBC-C15-5056R		
.680"	Steel	.625"		---	5.500"	5°	2°	MBC-S15-6268R	F31	W31	
Left Hand Bars Use inserts beginning with "MBC-IV", "MBC-IZ", right hand "MBC-IG" inserts and most ANSI 'TP' standard inserts	.430"	Steel	.375"		---	5.500"	5°	8°	MBC-S15-3743L	F31	W31

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TO ORDER TP STYLE - MBC SERIES INSERTS

Select the **ORDER CODE** in the table below that represents your selection of insert specifications.

EXAMPLE:

The **ORDER CODE** for a molded chipbreaker, **DURA-MAX® 3000** insert with .015" radius and TiN coating is:

MBC-IW-15D3C

TP Style MBC Series Use toolholders beginning with 'MBC'	SPECIFICATIONS		ORDER CODE					
	Insert Material	Corner Radius	Coating <small>See Page 9-5 for expanded material descriptions and Page 9-15 for speeds and feeds</small>					
			Uncoated	TiN	TiCN/TiN Non-stock	TiAlN Non-stock	Diamond Non-stock	
<div style="text-align: center;"> <p>Flat top</p> <p>TPCB Style</p> </div>	DURA-MAX® 3000 Carbide* <small>For Steel & Interrupted Cutting</small>	.002"	MBC-IZ-02D3U	MBC-IZ-02D3C	MBC-IZ-02D3D	MBC-IZ-02D3E	MBC-IZ-02D3F	
		.007"	MBC-IZ-07D3U	MBC-IZ-07D3C	MBC-IZ-07D3D	MBC-IZ-07D3E	MBC-IZ-07D3F	
		.015"	MBC-IZ-15D4U	MBC-IZ-15D3C	MBC-IZ-15D3D	MBC-IZ-15D3E	MBC-IZ-15D3F	
		.031"	MBC-IZ-31D3U	MBC-IZ-31D3C	MBC-IZ-31D3D	MBC-IZ-31D3E	MBC-IZ-31D3F	
	DURA-MAX® 5000 Carbide <small>For Aluminum & Non-ferrous</small>	.002"	MBC-IZ-02D5U	MBC-IZ-02D5C	MBC-IZ-02D5D	MBC-IZ-02D5E	MBC-IZ-02D5F	
		.007"	MBC-IZ-07D5U	MBC-IZ-07D5C	MBC-IZ-07D5D	MBC-IZ-07D5E	MBC-IZ-07D5F	
		.015"	MBC-IZ-15D5U	MBC-IZ-15D5C	MBC-IZ-15D5D	MBC-IZ-15D5E	MBC-IZ-15D5F	
		.031"	MBC-IZ-31D5U	MBC-IZ-31D5C	MBC-IZ-31D5D	MBC-IZ-31D5E	MBC-IZ-31D5F	
	DURA-MAX® 8000 CBN <small>For Hardened Materials</small>	.002"	MBC-IZ-02D8					
		.007"	MBC-IZ-07D8					
		.015"	MBC-IZ-15D8					
		.031"	MBC-IZ-31D8					
	DURA-MAX® 9000 PCD <small>For Abrasive Non-ferrous</small>	.002"	MBC-IZ-02D9					
		.007"	MBC-IZ-07D9					
		.015"	MBC-IZ-15D9					
		.031"	MBC-IZ-31D9					
<div style="text-align: center;"> <p>Molded Chipbreaker</p> <p>TPCH Style</p> </div>	DURA-MAX® 3000 Carbide* <small>For Steel & Interrupted Cutting</small>	.015"	MBC-IW-15D3U	MBC-IW-15D3C	MBC-IW-15D3D	MBC-IW-15D3E	MBC-IW-15D3F	
		.031"	MBC-IW-31D3U	MBC-IW-31D3C	MBC-IW-31D3D	MBC-IW-31D3E	MBC-IW-31D3F	
	DURA-MAX® 5000 Carbide <small>For Aluminum & Non-ferrous</small>	.015"	MBC-IW-15D5U	MBC-IW-15D5C	MBC-IW-15D5D	MBC-IW-15D5E	MBC-IW-15D5F	
		.031"	MBC-IW-31D5U	MBC-IW-31D5C	MBC-IW-31D5D	MBC-IW-31D5E	MBC-IW-31D5F	
<div style="text-align: center;"> <p>Ground Chipbreaker Right Hand</p> <p>TPCG Style</p> </div>	DURA-MAX® 3000 Carbide* <small>For Steel & Interrupted Cutting</small>	.002"	MBC-IG-02D3UR	MBC-IG-02D3CR	MBC-IG-02D3DR	MBC-IG-02D3ER	MBC-IG-02D3FR	
		.007"	MBC-IG-07D3UR	MBC-IG-07D3CR	MBC-IG-07D3DR	MBC-IG-07D3ER	MBC-IG-07D3FR	
		.015"	MBC-IG-15D3UR	MBC-IG-15D3CR	MBC-IG-15D3DR	MBC-IG-15D3ER	MBC-IG-15D3FR	
		.031"	MBC-IG-31D3UR	MBC-IG-31D3CR	MBC-IG-31D3DR	MBC-IG-31D3ER	MBC-IG-31D3FR	
	DURA-MAX® 5000 Carbide <small>For Aluminum & Non-ferrous</small>	.002"	MBC-IG-02D5UR	MBC-IG-02D5CR	MBC-IG-02D5DR	MBC-IG-02D5ER	MBC-IG-02D5FR	
		.007"	MBC-IG-07D5UR	MBC-IG-07D5CR	MBC-IG-07D5DR	MBC-IG-07D5ER	MBC-IG-07D5FR	
		.015"	MBC-IG-15D5UR	MBC-IG-15D5CR	MBC-IG-15D5DR	MBC-IG-15D5ER	MBC-IG-15D5FR	
		.031"	MBC-IG-31D5UR	MBC-IG-31D5CR	MBC-IG-31D5DR	MBC-IG-31D5ER	MBC-IG-31D5FR	
<div style="text-align: center;"> <p>Ground Chipbreaker Left Hand</p> <p>TPCG Style</p> </div>	DURA-MAX® 3000 Carbide* <small>For Steel & Interrupted Cutting</small>	.002"	MBC-IG-02D3UL	MBC-IG-02D3CL	MBC-IG-02D3DL	MBC-IG-02D3EL	MBC-IG-02D3FL	
		.007"	MBC-IG-07D3UL	MBC-IG-07D3CL	MBC-IG-07D3DL	MBC-IG-07D3EL	MBC-IG-07D3FL	
		.015"	MBC-IG-15D3UL	MBC-IG-15D3CL	MBC-IG-15D3DL	MBC-IG-15D3EL	MBC-IG-15D3FL	
		.031"	MBC-IG-31D3UL	MBC-IG-31D3CL	MBC-IG-31D3DL	MBC-IG-31D3EL	MBC-IG-31D3FL	
	DURA-MAX® 5000 Carbide <small>For Aluminum & Non-ferrous</small>	.002"	MBC-IG-02D5UL	MBC-IG-02D5CL	MBC-IG-02D5DL	MBC-IG-02D5EL	MBC-IG-02D5FL	
		.007"	MBC-IG-07D5UL	MBC-IG-07D5CL	MBC-IG-07D5DL	MBC-IG-07D5EL	MBC-IG-07D5FL	
		.015"	MBC-IG-15D5UL	MBC-IG-15D5CL	MBC-IG-15D5DL	MBC-IG-15D5EL	MBC-IG-15D5FL	
		.031"	MBC-IG-31D5UL	MBC-IG-31D5CL	MBC-IG-31D5DL	MBC-IG-31D5EL	MBC-IG-31D5FL	

* For some details, **DURA-MAX® 4000** may be substituted.

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