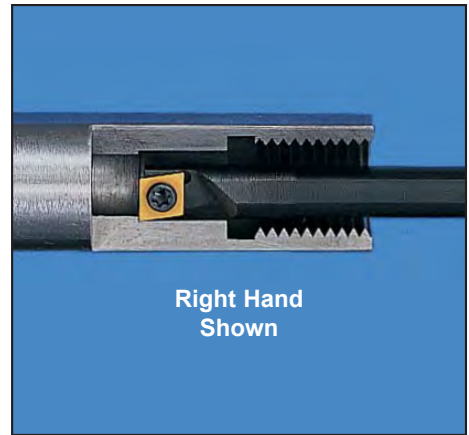


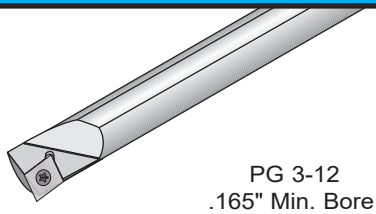
PRODUCT INFORMATION

- Boring with .165" minimum bore diameter.
- 'K' angle increases strength in insert pocket by increasing the cross-sectional area below the insert.
- Boring bars for CD, TD and TP insert styles.
- Variety of diameters made from Steel, Heavy Metal and Carbide.
- 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.
- Bars and inserts are completely compatible with other ANSI standard bars and inserts. Call for cross-overs.
- Modifications can be provided on any of our tooling. Please contact us with your application requirements.

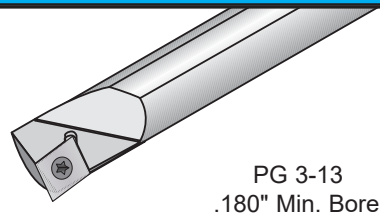


TOOLHOLDER SELECTIONS

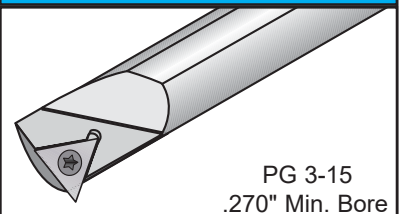
CD STYLE - MBZ SERIES



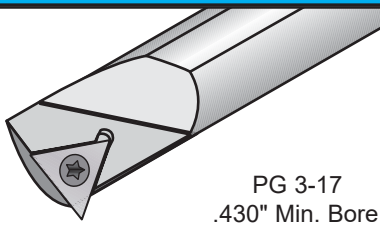
CD STYLE - MBA SERIES



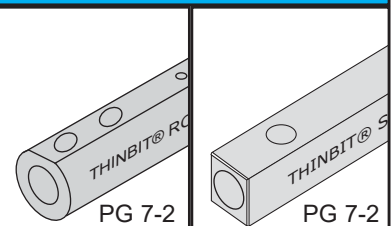
TD STYLE - MBB SERIES



TP STYLE - MBC SERIES



ADAPTER STYLES



INSERT SELECTIONS

CD STYLE - MBA SERIES



TD STYLE - MBB SERIES



TP STYLE - MBC SERIES



TECHNICAL SECTIONS

PRODUCT DEMONSTRATION



www.thinbit.com/qr3-11

SPEEDS AND FEEDS

PG 9-15

APPLICATION REFERENCE

PG 9-4

TROUBLESHOOTING

PG 9-7

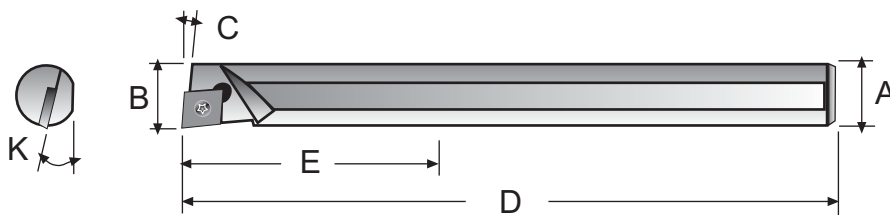
KAISER TOOL COMPANY, INC.


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 .165" minimum bore, right hand, steel, .187" shank is:
MBZS171816R



 .140" I.C.	TOOL SPECIFICATIONS							ORDER CODE		
	Minimum Bore 'B' <small>With .007" radius insert</small>	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 Includes Screw and Wrench	Replacement Parts	
								Screw	Wrench	
Right Hand Bars Use inserts beginning with 'MBZIZ'	0.165"	Steel	.187"	2.500"	.580"	7°	17°	MBZS171816R	F11	W11
		Carbide	.156"	4.477"	1.500"	7°	17°	MBZC171516R		

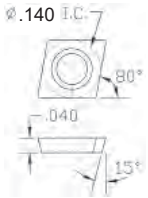
MBZ BARS & INSERTS BORING

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:
MBZIZ07D5C

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 Non-stock	TiAlN Non-stock	Diamond Non-stock
	DURA-MAX® 4000 carbide For Steel & Interrupted Cutting	.002"	MBZIZ02D4U	MBZIZ02D4C	MBZIZ02D4D	MBZIZ02D4E	MBZIZ02D4F
		.007"	MBZIZ07D4U	MBZIZ07D4C	MBZIZ07D4D	MBZIZ07D4E	MBZIZ07D4F
		.015"	MBZIZ15D4U	MBZIZ15D4C	MBZIZ15D4D	MBZIZ15D4E	MBZIZ15D4F
	DURA-MAX® 5000 carbide For Aluminum & Nonferrous	.002"	MBZIZ02D5U	MBZIZ02D5C	MBZIZ02D5D	MBZIZ02D5E	MBZIZ02D5F
		.007"	MBZIZ07D5U	MBZIZ07D5C	MBZIZ07D5D	MBZIZ07D5E	MBZIZ07D5F
		.015"	MBZIZ15D5U	MBZIZ15D5C	MBZIZ15D5D	MBZIZ15D5E	MBZIZ15D5F

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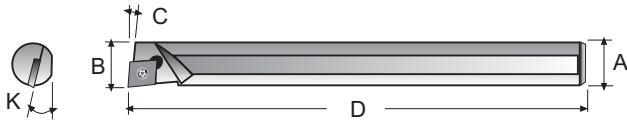
TO ORDER CD STYLE - MBA SERIES BORING BARS

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

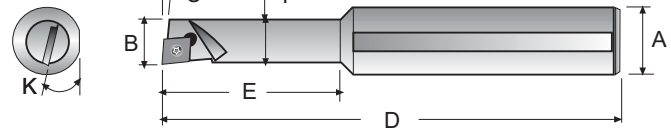
EXAMPLE:


The **ORDER CODE** for a .205" minimum bore, right hand, steel, .187" shank is:
MBAS151820R

STANDARD BARS



STEP BARS



 .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' See Page 3-2	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 'MBAIW', 'MBAIZ', left hand 'MBAIG' inserts and most ANSI 'CD' standard inserts	.180"	Steel	.164"	.187"	.520"	2.500"	7°	17°	MBAS171818R			
			.164"	.375"	.500"	2.500"	7°	17°	MBAS373718R050			
		Heavy Metal	.156"		---	3.976"	7°	17°	MBAH171518R			
			.164"	.500"	.750"	3.000"	7°	17°	MBAH375018R075			
	Carbide	.156"		---	4.477"	7°	17°	MBAC171518R				
		.205"	Steel	.187"		---	3.500"	5°	17°	MBAS151820R		
	.180"			.500"	.500"	3.000"	5°	17°	MBAS355020R050			
	Heavy Metal	.187"		---	3.976"	5°	17°	MBAH151820R				
		.210"	Steel	.187"		---	3.500"	0°	17°	MBAS101821R		
	.187"			.375"	1.000"	3.000"	5°	17°	MBAS353721R100			
	Heavy Metal	.187"		---	3.976"	0°	17°	MBAH101821R				
		.220"	Steel	.197"	.375"	.500"	2.500"	0°	17°	MBAS303722R050		
	.187"			---	3.976"	5°	17°	MBAH151822R				
	.187"		.500"	1.125"	3.977"	5°	17°	MBAH355022R112				
	Heavy Metal	.187"		---	4.477"	5°	17°	MBAC151822R				
		.230"	Steel	.187"		---	3.500"	5°	17°	MBAS151823R		
.250"				---	4.000"	0°	12°	MBAS102527R				
.280"	Steel	.250"		---	4.000"	5°	12°	MBAS152528R				
		.250"	.375"	1.250"	3.000"	5°	12°	MBAS353728R125				
	Heavy Metal	.250"		---	3.976"	5°	12°	MBAH152528R				
		.250"		---	6.504"	5°	12°	MBAC152528R				
.350"	Heavy Metal	.313"		---	5.500"	5°	8°	MBAH153135R				
		.180"	Steel	.164"	.187"	.520"	2.500"	7°	17°	MBAS171818L		
Heavy Metal	.156"			---	3.976"	7°	17°	MBAH171518L				
	.205"	Steel	.180"	.500"	.500"	3.000"	5°	17°	MBAS355020L050			
.230"			Steel	.187"		---	3.500"	5°	17°	MBAS151823L		
				.250"		---	4.000"	5°	12°	MBAS152528L		
.280"	Steel	.250"		---	4.000"	5°	12°	MBAS152528L				

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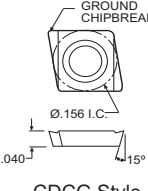
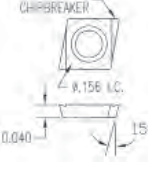
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TO ORDER CD STYLE - MBA SERIES INSERTS

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:
MBAIW07D4C

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 Non-stock	TiAlN Non-stock	Diamond Non-stock	
Flat top  CDCD Style	DURA-MAX® 4000 Carbide For Steel & Interrupted Cutting	.002"	MBAIZ02D4U	MBAIZ02D4C	MBAIZ02D4D	MBAIZ02D4E	MBAIZ02D4F	
		.007"	MBAIZ07D4U	MBAIZ07D4C	MBAIZ07D4D	MBAIZ07D4E	MBAIZ07D4F	
		.015"	MBAIZ15D4U	MBAIZ15D4C	MBAIZ15D4D	MBAIZ15D4E	MBAIZ15D4F	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.002"	MBAIZ02D5U	MBAIZ02D5C	MBAIZ02D5D	MBAIZ02D5E	MBAIZ02D5F	
		.007"	MBAIZ07D5U	MBAIZ07D5C	MBAIZ07D5D	MBAIZ07D5E	MBAIZ07D5F	
		.015"	MBAIZ15D5U	MBAIZ15D5C	MBAIZ15D5D	MBAIZ15D5E	MBAIZ15D5F	
	DURA-MAX® 8000 CBN For Hardened Materials	.002"	MBAIZ02D8					
		.007"	MBAIZ07D8					
		.015"	MBAIZ15D8					
	DURA-MAX® 9000 PCD For Abrasive Nonferrous	.002"	MBAIZ02D9					
		.007"	MBAIZ07D9					
		.015"	MBAIZ15D9					
Molded Chipbreaker  CDCH Style	DURA-MAX® 4000 Carbide For Steel & Interrupted Cutting	.007"	MBAIW07D4U	MBAIW07D4C	MBAIW07D4D	MBAIW07D4E	MBAIW07D4F	
		.015"	MBAIW15D4U	MBAIW15D4C	MBAIW15D4D	MBAIW15D4E	MBAIW15D4F	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.007"	MBAIW07D5U	MBAIW07D5C	MBAIW07D5D	MBAIW07D5E	MBAIW07D5F	
		.015"	MBAIW15D5U	MBAIW15D5C	MBAIW15D5D	MBAIW15D5E	MBAIW15D5F	
Ground Chipbreaker Right Hand for Left Hand Bars  CDCG Style	DURA-MAX® 4000 Carbide For Steel & Interrupted Cutting	.002"	MBAIG02D4UR	MBAIG02D4CR	MBAIG02D4DR	MBAIG02D4ER	MBAIG02D4FR	
		.007"	MBAIG07D4UR	MBAIG07D4CR	MBAIG07D4DR	MBAIG07D4ER	MBAIG07D4FR	
		.015"	MBAIG15D4UR	MBAIG15D4CR	MBAIG15D4DR	MBAIG15D4ER	MBAIG15D4FR	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.002"	MBAIG02D5UR	MBAIG02D5CR	MBAIG02D5DR	MBAIG02D5ER	MBAIG02D5FR	
		.007"	MBAIG07D5UR	MBAIG07D5CR	MBAIG07D5DR	MBAIG07D5ER	MBAIG07D5FR	
		.015"	MBAIG15D5UR	MBAIG15D5CR	MBAIG15D5DR	MBAIG15D5ER	MBAIG15D5FR	
Ground Chipbreaker Left Hand for Right Hand Bars  CDCG Style	DURA-MAX® 4000 Carbide For Steel & Interrupted Cutting	.002"	MBAIG02D4UL	MBAIG02D4CL	MBAIG02D4DL	MBAIG02D4EL	MBAIG02D4FL	
		.007"	MBAIG07D4UL	MBAIG07D4CL	MBAIG07D4DL	MBAIG07D4EL	MBAIG07D4FL	
		.015"	MBAIG15D4UL	MBAIG15D4CL	MBAIG15D4DL	MBAIG15D4EL	MBAIG15D4FL	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.002"	MBAIG02D5UL	MBAIG02D5CL	MBAIG02D5DL	MBAIG02D5EL	MBAIG02D5FL	
		.007"	MBAIG07D5UL	MBAIG07D5CL	MBAIG07D5DL	MBAIG07D5EL	MBAIG07D5FL	
		.015"	MBAIG15D5UL	MBAIG15D5CL	MBAIG15D5DL	MBAIG15D5EL	MBAIG15D5FL	

**MBA BARS
& INSERTS
BORING**

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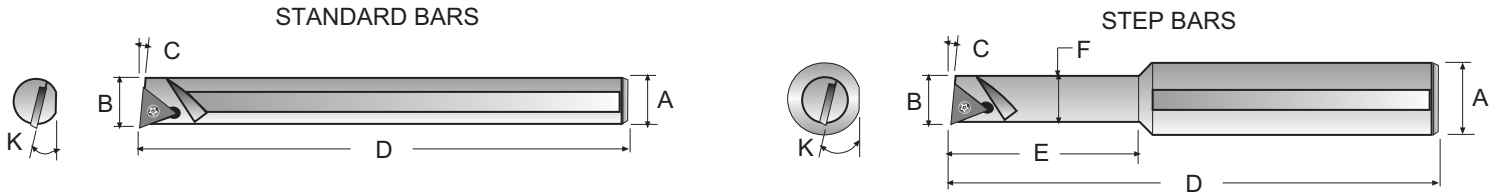
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TO ORDER TD STYLE - MBB SERIES BORING BARS

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:
MBBH355030R150



	TOOL SPECIFICATIONS								ORDER CODE					
	Minimum Bore	Material	Bar Diameter		Length		Lead Angle	'K' Angle	Boring Bar	Replacement Parts				
	'B'		'F'	'A'	'E'	'D'	'C'	'K'		Screw	Wrench			
.160" I.C.	With .007" radius insert	Extension Ratios: Steel: 4 x ø Heavy Metal: 6 x ø Carbide: 8 x ø	Neck	Shank	Neck	Overall		See Page 3-2	Includes Screw and Wrench					
Right Hand Bars Use inserts beginning with 'MBBIW', 'MBBIZ', left hand 'MBBIG' inserts and most ANSI 'TD' standard inserts	.270"	Steel	.187"		---	3.500"	0°	17°	MBBS101827R	F22	W11			
			.187"		---	3.500"	5°	17°	MBBS151827R					
			.187"	.500"	1.000"	3.000"	5°	17°	MBBS355027R100					
		Heavy Metal	.187"		---	3.976"	0°	17°	MBBH101827R					
			.187"		---	3.976"	5°	17°	MBBH151827R					
			.187"	.500"	1.125"	3.965"	5°	17°	MBBH355027R112					
	Carbide	.187"		---	4.487"	5°	17°	MBBC151827R						
	.300"	Steel	.250"		---	4.000"	0°	12°	MBBS102530R	F22	W11			
			.250"		---	4.000"	5°	12°	MBBS152530R					
			.250"	.500"	1.250"	3.000"	5°	12°	MBBS355030R125					
			.250"	.625"	1.250"	4.000"	5°	12°	MBBS356230R125					
			Heavy Metal	.250"		---	3.976"	0°	12°			MBBH102530R		
				.250"		---	3.976"	5°	12°			MBBH152530R		
		.250"		.500"	1.500"	3.981"	5°	12°	MBBH355030R150					
		Carbide	.250"		---	6.488"	5°	12°	MBBC152530R					
		.350"	Steel	.313"		---	4.000"	0°	8°			MBBS103135R	F22	W11
				.313"		---	4.000"	5°	8°			MBBS153135R		
	.313"			.500"	1.000"	3.000"	5°	8°	MBBS355035R100					
	.313"			.500"	1.000"	3.000"	5°	8°	MBBS355035R100					
	Heavy Metal		.313"		---	5.500"	0°	8°	MBBH103135R					
			.313"		---	5.500"	5°	8°	MBBH153135R					
.313"			.500"	1.500"	3.981"	5°	8°	MBBH355035R150						
.313"			.500"	1.500"	3.981"	5°	8°	MBBH355035R150						
Carbide	.313"		---	6.483"	5°	8°	MBBC153135R							
Left Hand Bars Use inserts beginning with 'MBBIW', 'MBBIZ', right hand 'MBBIG' inserts and most ANSI 'TD' standard inserts	.270"	Steel	.187"		---	3.500"	5°	17°	MBBS151827L	F22	W11			
	.300"	Steel	.250"		---	4.000"	5°	12°	MBBS152530L					
	.350"	Steel	.313"		---	4.000"	5°	8°	MBBS153135L					
		Heavy Metal	.313"		---	5.500"	5°	8°	MBBH153135L					

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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:
MBBIW07D4C

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 Non-stock	TiAlN Non-stock	Diamond Non-stock	
Flat top  TDAB Style	DURA-MAX® 3000/4000 Carbide* For Steel & Interrupted Cutting	.002"	MBBI Z02D3U	MBBI Z02D3C	MBBI Z02D3D	MBBI Z02D3E	MBBI Z02D3F	
		.007"	MBBI Z07D3U	MBBI Z07D3C	MBBI Z07D3D	MBBI Z07D3E	MBBI Z07D3F	
		.015"	MBBI Z15D3U	MBBI Z15D3C	MBBI Z15D3D	MBBI Z15D3E	MBBI Z15D3F	
		.031"	MBBI Z31D3U	MBBI Z31D3C	MBBI Z31D3D	MBBI Z31D3E	MBBI Z31D3F	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.002"	MBBI Z02D5U	MBBI Z02D5C	MBBI Z02D5D	MBBI Z02D5E	MBBI Z02D5F	
		.007"	MBBI Z07D5U	MBBI Z07D5C	MBBI Z07D5D	MBBI Z07D5E	MBBI Z07D5F	
		.015"	MBBI Z15D5U	MBBI Z15D5C	MBBI Z15D5D	MBBI Z15D5E	MBBI Z15D5F	
		.031"	MBBI Z31D5U	MBBI Z31D5C	MBBI Z31D5D	MBBI Z31D5E	MBBI Z31D5F	
	DURA-MAX® 8000 CBN For Hardened Materials	.002"	MBBI Z02D8					
		.007"	MBBI Z07D8					
		.015"	MBBI Z15D8					
		.031"	MBBI Z31D8					
	DURA-MAX® 9000 PCD For Abrasive Nonferrous	.002"	MBBI Z02D9					
		.007"	MBBI Z07D9					
		.015"	MBBI Z15D9					
		.031"	MBBI Z31D9					
Molded Chipbreaker  TDCH Style	DURA-MAX® 4000 Carbide For Steel & Interrupted Cutting	.007"	MBBIW07D4U	MBBIW07D4C	MBBIW07D4D	MBBIW07D4E	MBBIW07D4F	
		.015"	MBBIW15D4U	MBBIW15D4C	MBBIW15D4D	MBBIW15D4E	MBBIW15D4F	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.007"	MBBIW07D5U	MBBIW07D5C	MBBIW07D5D	MBBIW07D5E	MBBIW07D5F	
		.015"	MBBIW15D5U	MBBIW15D5C	MBBIW15D5D	MBBIW15D5E	MBBIW15D5F	
Ground Chipbreaker Right Hand for Left Hand Bars  TDCG Style	DURA-MAX® 3000 Carbide For Steel & Interrupted Cutting	.002"	MBBIG02D3UR	MBBIG02D3CR	MBBIG02D3DR	MBBIG02D3ER	MBBIG02D3FR	
		.007"	MBBIG07D3UR	MBBIG07D3CR	MBBIG07D3DR	MBBIG07D3ER	MBBIG07D3FR	
		.015"	MBBIG15D3UR	MBBIG15D3CR	MBBIG15D3DR	MBBIG15D3ER	MBBIG15D3FR	
		.031"	MBBIG31D3UR	MBBIG31D3CR	MBBIG31D3DR	MBBIG31D3ER	MBBIG31D3FR	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.002"	MBBIG02D5UR	MBBIG02D5CR	MBBIG02D5DR	MBBIG02D5ER	MBBIG02D5FR	
		.007"	MBBIG07D5UR	MBBIG07D5CR	MBBIG07D5DR	MBBIG07D5ER	MBBIG07D5FR	
		.015"	MBBIG15D5UR	MBBIG15D5CR	MBBIG15D5DR	MBBIG15D5ER	MBBIG15D5FR	
		.031"	MBBIG31D5UR	MBBIG31D5CR	MBBIG31D5DR	MBBIG31D5ER	MBBIG31D5FR	
	Ground Chipbreaker Left Hand for Right Hand Bars  TDCG Style	DURA-MAX® 3000 Carbide For Steel & Interrupted Cutting	.002"	MBBIG02D3UL	MBBIG02D3CL	MBBIG02D3DL	MBBIG02D3EL	MBBIG02D3FL
			.007"	MBBIG07D3UL	MBBIG07D3CL	MBBIG07D3DL	MBBIG07D3EL	MBBIG07D3FL
			.015"	MBBIG15D3UL	MBBIG15D3CL	MBBIG15D3DL	MBBIG15D3EL	MBBIG15D3FL
			.031"	MBBIG31D3UL	MBBIG31D3CL	MBBIG31D3DL	MBBIG31D3EL	MBBIG31D3FL
DURA-MAX® 5000 Carbide For Aluminum & Nonferrous		.002"	MBBIG02D5UL	MBBIG02D5CL	MBBIG02D5DL	MBBIG02D5EL	MBBIG02D5FL	
		.007"	MBBIG07D5UL	MBBIG07D5CL	MBBIG07D5DL	MBBIG07D5EL	MBBIG07D5FL	
		.015"	MBBIG15D5UL	MBBIG15D5CL	MBBIG15D5DL	MBBIG15D5EL	MBBIG15D5FL	
		.031"	MBBIG31D5UL	MBBIG31D5CL	MBBIG31D5DL	MBBIG31D5EL	MBBIG31D5FL	

MBB BARS & INSERTS BORING

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

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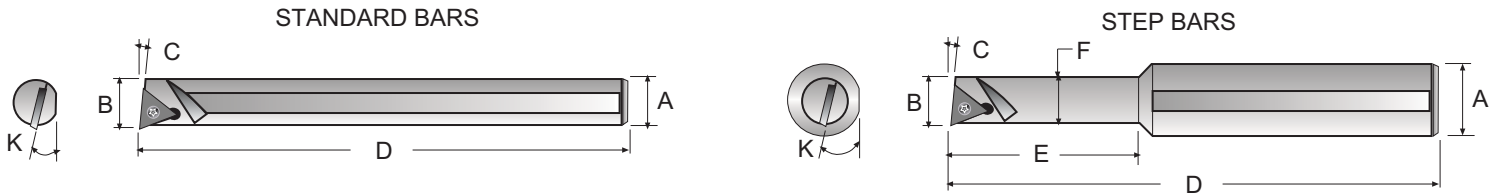
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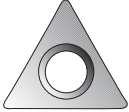
TO ORDER TP STYLE - MBC SERIES BORING BARS

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:
MBCS153743R



 .250" I.C.	TOOL SPECIFICATIONS							ORDER CODE				
	Minimum Bore	Material	Bar Diameter		Length		Lead Angle	'K' Angle	Boring Bar		Replacement Parts	
	'B'		'F'	'A'	'E'	'D'	'C'	'K'	Includes Screw and Wrench		Screw	Wrench
Use inserts beginning with 'MBCIW', 'MBCIZ', left hand 'MBCIG' inserts and most ANSI 'TP' standard inserts	.430"	Steel	.375"		---	5.500"	0°	8°	MBCS103743R		F31	W31
			.375"		---	5.500"	5°	8°	MBCS153743R			
			.375"	.750"	1.125"	4.000"	5°	8°	MBCS357543R112			
		Heavy Metal	.375"		---	5.500"	5°	8°	MBCH153743R			
			.375"	.500"	2.250"	3.988"	5°	8°	MBCH355043R225			
	Carbide	.375"		---	6.783"	5°	8°	MBCC153743R				
	.560"	Steel	.500"		---	5.500"	5°	2°	MBCS155056R		F31	W31
			.500"	.625"	1.500"	4.000"	5°	2°	MBCS356256R150			
		Heavy Metal	.500"		---	5.500"	5°	2°	MBCH155056R			
		Carbide	.500"		---	6.769"	5°	2°	MBCC155056R			
.680"	Steel	.625"		---	5.500"	5°	2°	MBCS156268R		F31	W31	
Left Hand Bars Use inserts beginning with 'MBCIW', 'MBCIZ', right hand 'MBCIG' inserts and most ANSI 'TP' standard inserts	.430"	Steel	.375"		---	5.500"	5°	8°	MBCS153743L		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® 5000** insert with .015" radius and TiN coating is:
MBCIW15D5C

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 Non-stock	TiAlN Non-stock	Diamond Non-stock	
Flat top  TPCB Style	DURA-MAX® 3000/4000 Carbide* For Steel & Interrupted Cutting	.002"	MBCIZ02D3U	MBCIZ02D3C	MBCIZ02D3D	MBCIZ02D3E	MBCIZ02D3F	
		.007"	MBCIZ07D3U	MBCIZ07D3C	MBCIZ07D3D	MBCIZ07D3E	MBCIZ07D3F	
		.015"	MBCIZ15D4U	MBCIZ15D4C	MBCIZ15D4D	MBCIZ15D4E	MBCIZ15D4F	
		.031"	MBCIZ31D3U	MBCIZ31D3C	MBCIZ31D3D	MBCIZ31D3E	MBCIZ31D3F	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.002"	MBCIZ02D5U	MBCIZ02D5C	MBCIZ02D5D	MBCIZ02D5E	MBCIZ02D5F	
		.007"	MBCIZ07D5U	MBCIZ07D5C	MBCIZ07D5D	MBCIZ07D5E	MBCIZ07D5F	
		.015"	MBCIZ15D5U	MBCIZ15D5C	MBCIZ15D5D	MBCIZ15D5E	MBCIZ15D5F	
	DURA-MAX® 8000 CBN For Hardened Materials	.002"	MBCIZ02D8					
		.007"	MBCIZ07D8					
		.015"	MBCIZ15D8					
		.031"	MBCIZ31D8					
	DURA-MAX® 9000 PCD For Abrasive Nonferrous	.002"	MBCIZ02D9					
		.007"	MBCIZ07D9					
		.015"	MBCIZ15D9					
		.031"	MBCIZ31D9					
	Molded Chipbreaker  TPCH Style	DURA-MAX® 3000 Carbide* For Steel & Interrupted Cutting	.015"	MBCIW15D3U	MBCIW15D3C	MBCIW15D3D	MBCIW15D3E	MBCIW15D3F
.031"			MBCIW31D3U	MBCIW31D3C	MBCIW31D3D	MBCIW31D3E	MBCIW31D3F	
DURA-MAX® 5000 Carbide For Aluminum & Nonferrous		.015"	MBCIW15D5U	MBCIW15D5C	MBCIW15D5D	MBCIW15D5E	MBCIW15D5F	
		.031"	MBCIW31D5U	MBCIW31D5C	MBCIW31D5D	MBCIW31D5E	MBCIW31D5F	
Ground Chipbreaker Right Hand for Left Hand Bars  TPCG Style	DURA-MAX® 3000/4000 Carbide* For Steel & Interrupted Cutting	.002"	MBCIG02D3UR	MBCIG02D3CR	MBCIG02D3DR	MBCIG02D3ER	MBCIG02D3FR	
		.007"	MBCIG07D3UR	MBCIG07D3CR	MBCIG07D3DR	MBCIG07D3ER	MBCIG07D3FR	
		.015"	MBCIG15D4UR	MBCIG15D4CR	MBCIG15D4DR	MBCIG15D4ER	MBCIG15D4FR	
		.031"	MBCIG31D3UR	MBCIG31D3CR	MBCIG31D3DR	MBCIG31D3ER	MBCIG31D3FR	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.002"	MBCIG02D5UR	MBCIG02D5CR	MBCIG02D5DR	MBCIG02D5ER	MBCIG02D5FR	
		.007"	MBCIG07D5UR	MBCIG07D5CR	MBCIG07D5DR	MBCIG07D5ER	MBCIG07D5FR	
		.015"	MBCIG15D5UR	MBCIG15D5CR	MBCIG15D5DR	MBCIG15D5ER	MBCIG15D5FR	
		.031"	MBCIG31D5UR	MBCIG31D5CR	MBCIG31D5DR	MBCIG31D5ER	MBCIG31D5FR	
Ground Chipbreaker Left Hand for Right Hand Bars  TPCG Style	DURA-MAX® 3000/4000 Carbide* For Steel & Interrupted Cutting	.002"	MBCIG02D3UL	MBCIG02D3CL	MBCIG02D3DL	MBCIG02D3EL	MBCIG02D3FL	
		.007"	MBCIG07D3UL	MBCIG07D3CL	MBCIG07D3DL	MBCIG07D3EL	MBCIG07D3FL	
		.015"	MBCIG15D4UL	MBCIG15D4CL	MBCIG15D4DL	MBCIG15D4EL	MBCIG15D4FL	
		.031"	MBCIG31D3UL	MBCIG31D3CL	MBCIG31D3DL	MBCIG31D3EL	MBCIG31D3FL	
	DURA-MAX® 5000 Carbide For Aluminum & Nonferrous	.002"	MBCIG02D5UL	MBCIG02D5CL	MBCIG02D5DL	MBCIG02D5EL	MBCIG02D5FL	
		.007"	MBCIG07D5UL	MBCIG07D5CL	MBCIG07D5DL	MBCIG07D5EL	MBCIG07D5FL	
		.015"	MBCIG15D5UL	MBCIG15D5CL	MBCIG15D5DL	MBCIG15D5EL	MBCIG15D5FL	
		.031"	MBCIG31D5UL	MBCIG31D5CL	MBCIG31D5DL	MBCIG31D5EL	MBCIG31D5FL	

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

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**MBC BARS
& INSERTS
BORING**