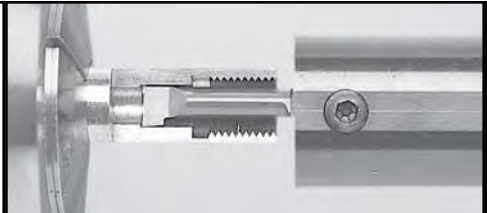
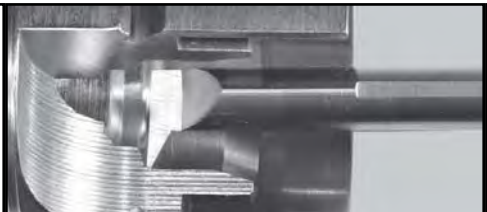
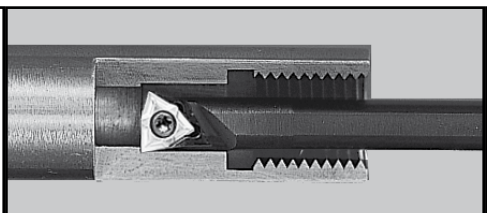
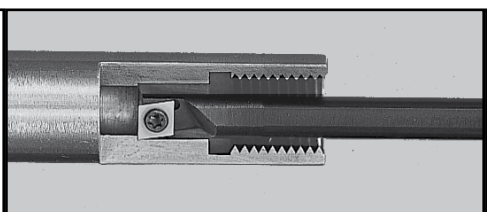


PRODUCT SELECTION GUIDE - BORING, PROFILING & TURNING

BORING

<p>PAGE 3-3</p>		<ul style="list-style-type: none"> <li>• Finish boring</li> <li>• For internal diameters of .073" and larger</li> <li>• Solid carbide shanks in 1/8", 3/16", 1/4", 5/16", 3/8" and 1/2" diameter</li> </ul>
<p>PAGE 3-5</p>		<ul style="list-style-type: none"> <li>• Profiling &amp; Reverse Profiling</li> <li>• For internal diameters of .125" and larger</li> <li>• Solid carbide shanks in 1/8", 3/16", 1/4", 5/16", 3/8" and 1/2" diameter</li> </ul>
<p>PAGE 3-7 to 3-10</p>		<ul style="list-style-type: none"> <li>• Rough boring using Trigon inserts</li> <li>• PAGE 3-8: .210" Min. Bore; MBE (WCGT) style</li> <li>• PAGE 3-9: .270" Min. Bore; MBF (WCGT) style</li> <li>• PAGE 3-10: .410" Min. Bore; MBG (WCGT) style</li> </ul>
<p>PAGE 3-11 to 3-18</p>		<ul style="list-style-type: none"> <li>• Finish boring</li> <li>• PAGE 3-12: .165" Min. Bore; MBZ style</li> <li>• PAGE 3-13: .180" Min. Bore; MBA (CD) style</li> <li>• PAGE 3-15: .270" Min. Bore; MBB (TD) style</li> <li>• PAGE 3-17: .430" Min. Bore; MBC (TP) style</li> </ul>



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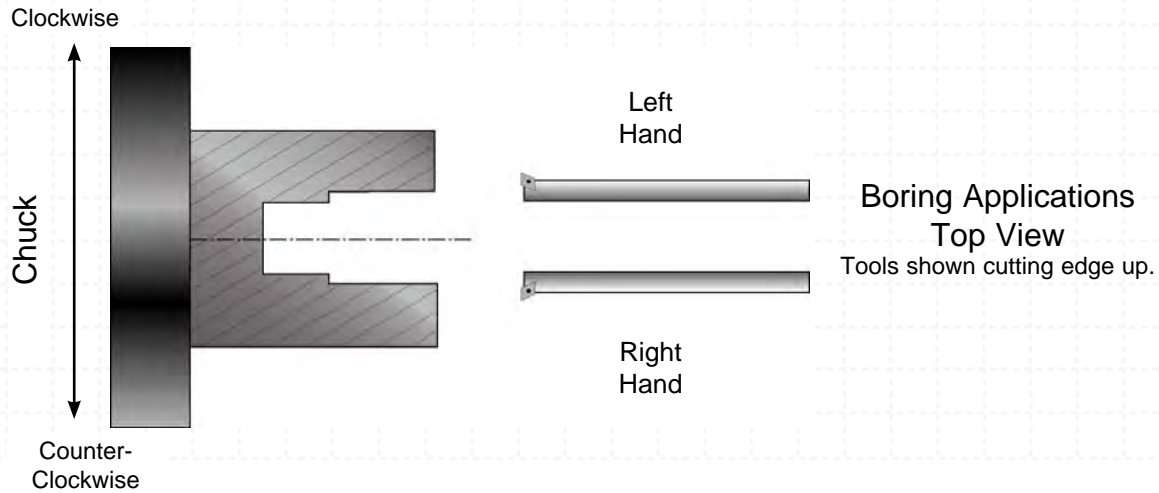
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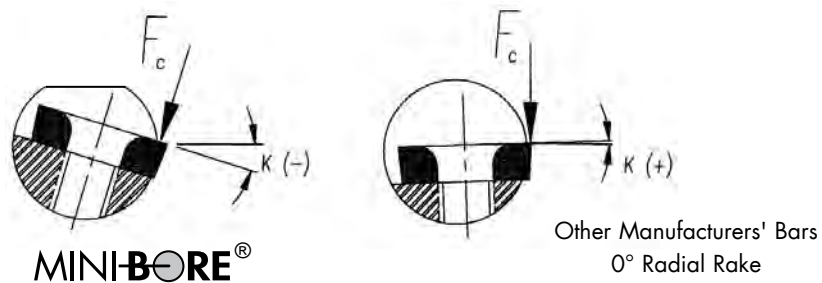
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'K' ANGLE



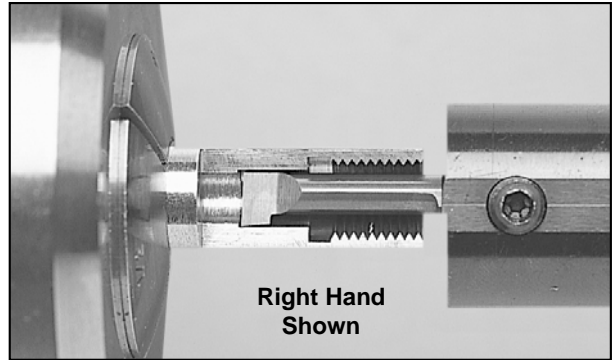
**MINI-BORE®** bars are designed to cut above center with a negative cutting rake or 'K' angle. As the diameter of the bar increases the 'K' angle decreases. Flats are provided to ensure speedy and proper set-up.

This unique design provides critical advantages over other manufacturers' small diameter bars:

- Up to 25% greater cross-sectional area under the cutting edge which increases the strength and rigidity of the pocket.
- Increased screw thread engagement to reduce thread stripping and increase the holding power.
- Better surface finishes due to better chip control and flow.

## PRODUCT INFORMATION

- For boring diameters .073" and larger.
- 1/8", 3/16", 1/4", 5/16", 3/8" and 1/2" shank.
- Elliptically ground necks for greater strength.
- Round necks to fit into small diameters.
- Sub-micron grain **DURA-MAX® 2000** Carbide.
- Tools available with TiN, TiAlN, TiCN and Diamond coating.



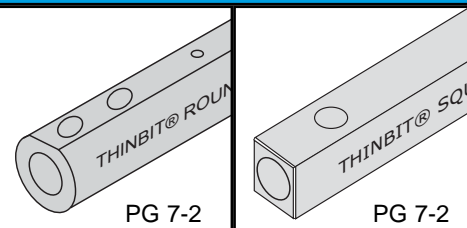
## MODIFICATIONS

SEE PAGE  
8-3  
FOR ADDITIONAL  
INFORMATION

<p><b>CUSTOM BLANK</b> (TOP VIEW)</p>	<p><b>RADI</b> (TOP VIEW)</p>	<p><b>LEAD ANGLE</b> (TOP VIEW)</p>	<p><b>BACK CLEARANCE</b> (TOP VIEW)</p>
	<p>PG 8-6</p>	<p><b>TOP RAKE</b> (SIDE VIEW)</p>	<p><b>CHIP BREAKER</b> (SIDE VIEW)</p>

## TOOLHOLDER SELECTIONS

### ADAPTER STYLES



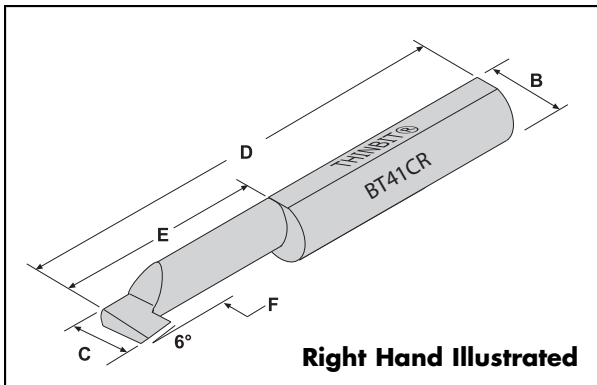
## TECHNICAL SECTIONS

PRODUCT DEMONSTRATION	SPEEDS AND FEEDS	APPLICATION REFERENCE	TROUBLE SHOOTING
 <a href="http://www.thinbit.com/gr3-3">www.thinbit.com/gr3-3</a>	PG 9-15	PG 9-4	PG 9-7

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# BORING TOOLS



FRONT RAKE: Primary 21°  
 BACK CLEARANCE: 3° Lead side  
 SIDE CLEARANCE: 7° Lead side  
 LEAD ANGLE: 6°  
 RADIUS: None  
 TOP RAKE: 0°  
 NOTE: Tool designed for feeding into bore only.

## ORDERING INSTRUCTIONS

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

**EXAMPLE:**

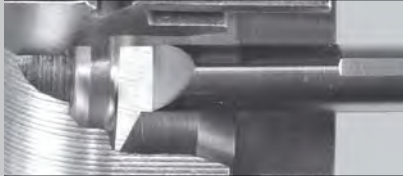
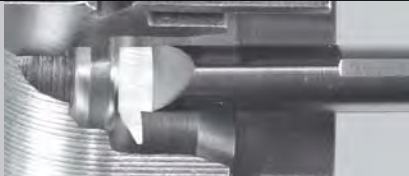
The **ORDER CODE** for a .250" minimum bore, right hand tool with a .875" tool reach and .062" projection is:  
**BT41CR**

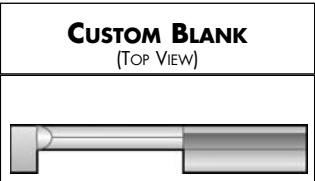


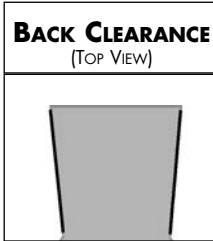

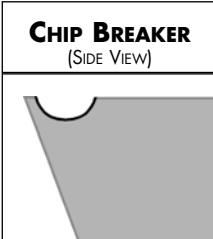
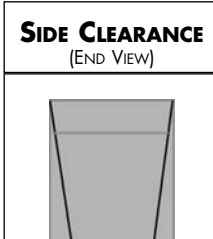
Specifications			Order Code						Information		
Minimum Bore  'C'	Tool Reach  'E'  Minimum	Projection  'F'  +.000"/- .010"	DURA-MAX® 2000 Carbide See Page 9-15 for Speeds and Feeds		Coatings See Page 9-6 for expanded coating descriptions  Use uncoated part number and add coating code				Shank Diameter  'B'	Overall Length  'D'	Toolholder Page 7-2  Use Toolholders Beginning With
			Right Hand	Left Hand	TiN	TiCN	TiAlN	Diamond			
.073" Round Neck	.500"	.010"	BT21AR	BT21AL	add 'C'	add 'D'	add 'E'	add 'F'	1/8"	1.500"	'AD'
.125"	.500"	.031"	BT21CR	BT21CL	add 'C'	add 'D'	add 'E'	add 'F'			
.187"	.750"	.047"	BT31CR	BT31CL	add 'C'	add 'D'	add 'E'	add 'F'	3/16"	2.000"	'AD'
.250"	.875"	.062"	BT41CR	BT41CL	add 'C'	add 'D'	add 'E'	add 'F'	1/4"	2.500"	'AD'
.312"	1.156"	.078"	BT51CR	BT51CL	add 'C'	add 'D'	add 'E'	add 'F'	5/16"	2.500"	'AD'
.375"	1.437"	.125"	BT61CR	BT61CL	add 'C'	add 'D'	add 'E'	add 'F'	3/8"	3.000"	'AD'
.500"	2.000"	.167"	BT81CR	BT81CL	add 'C'	add 'D'	add 'E'	add 'F'	1/2"	3.500"	'AD'

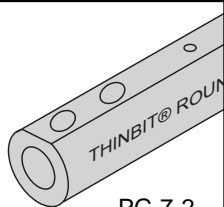
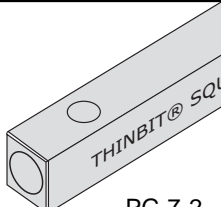
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TOOLS BORING

<b>PRODUCT INFORMATION</b>	<ul style="list-style-type: none"> <li>• For profiling diameters .125" and larger.</li> <li>• 1/8", 3/16", 1/4", 5/16", 3/8" and 1/2" shank.</li> <li>• Elliptically ground necks for greater strength.</li> <li>• Sub-micron grain <b>DURA-MAX® 2000</b> Carbide.</li> <li>• Tools available with TiN, TiAlN, TiCN and Diamond coating.</li> </ul>	<b>Right Hand Profiling Tool Shown</b>	
	<b>Right Hand Reverse Profiling Tool Shown</b>		

<b>MODIFICATIONS</b> SEE PAGE 8-3 FOR ADDITIONAL INFORMATION	<b>CUSTOM BLANK</b> (TOP VIEW)	<b>RADI</b> (TOP VIEW)	<b>LEAD ANGLE</b> (TOP VIEW)	<b>BACK CLEARANCE</b> (TOP VIEW)
	 PG 8-6			
		<b>TOP RAKE</b> (SIDE VIEW)	<b>CHIP BREAKER</b> (SIDE VIEW)	<b>SIDE CLEARANCE</b> (END VIEW)
				

<b>TOOLHOLDER SELECTIONS</b>	<b>ADAPTER STYLES</b>	
	 PG 7-2	 PG 7-2

<b>TECHNICAL SECTIONS</b>	<b>PRODUCT DEMONSTRATION</b>	<b>SPEEDS AND FEEDS</b>	<b>APPLICATION REFERENCE</b>	<b>TROUBLE SHOOTING</b>
	 <a href="http://www.thinbit.com/qr3-5">www.thinbit.com/qr3-5</a>	PG 9-15	PG 9-4	PG 9-7

## ORDERING INSTRUCTIONS

Select the **ORDER CODE** in the table on the next page that represents your selection of tool dimensions.

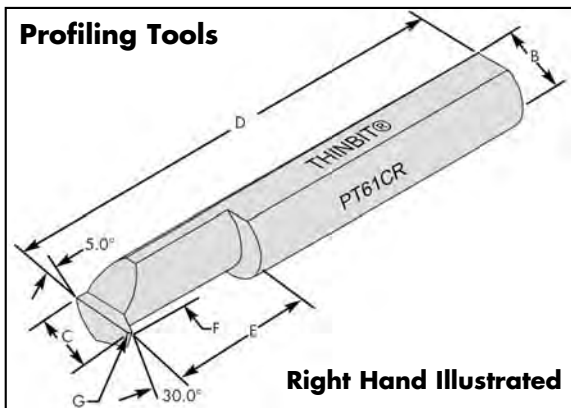
**EXAMPLE:**

The **ORDER CODE** for a .375" minimum bore, right hand tool with a 1.350" tool reach and .125" projection is:

**PT61CR**

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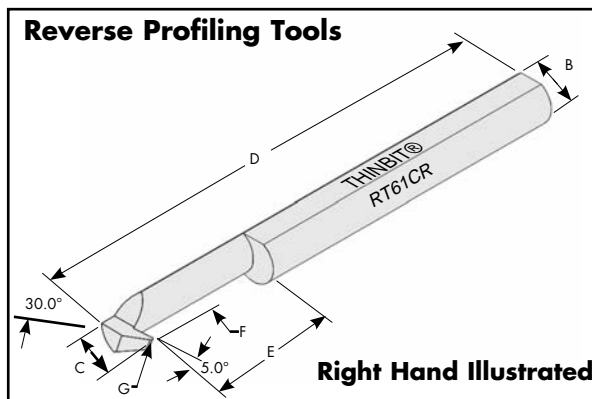
# PROFILING & REVERSE PROFILING TOOLS



FRONT RAKE: Primary 21°  
 SIDE CLEARANCE: 5° Lead side  
 BACK CLEARANCE: 5° Lead side  
 BACK CLEARANCE: 30° Trailing side  
 NOTE: Tool designed for feeding into bore only.

SPECIFICATIONS				ORDER CODE				INFORMATION				
Minimum Bore	Tool Reach	Nose Radius	Projection	DURA-MAX® 2000 Carbide See Page 9-15 for Speeds and Feeds		Coatings See Page 9-6 for expanded coating descriptions				Shank Diameter	Overall Length	Toolholder Page 7-2
'C'	'E'	'G'	'F'	Right Hand	Left Hand	TiN	TiCN	TiAlN	Diamond	'B'	'D'	Use Toolholders Beginning With
	Minimum		Minimum									
.125"	.500"	.007"	.052"	PT21BR	PT21BL					1/8"	1.500"	'AD'
.187"	.750"	.010"	.083"	PT31BR	PT31BL					3/16"	2.000"	'AD'
.250"	.875"	.010"	.115"	PT41BR	PT41BL	add 'C'	add 'D'	add 'E'	add 'F'	1/4"	2.500"	'AD'
.312"	1.115"	.015"	.146"	PT51BR	PT51BL					5/16"	2.500"	'AD'
.375"	1.350"	.015"	.115"	PT61CR	PT61CL					3/8"	3.000"	'AD'
.500"	1.870"	.015"	.157"	PT81CR	PT81CL					1/2"	3.500"	'AD'

FRONT RAKE: Primary 21°  
 SIDE CLEARANCE: 10° Lead side  
 BACK CLEARANCE: 30° Lead side  
 BACK CLEARANCE: 5° Trailing side  
 NOTE: Tool designed for feeding out of bore only.



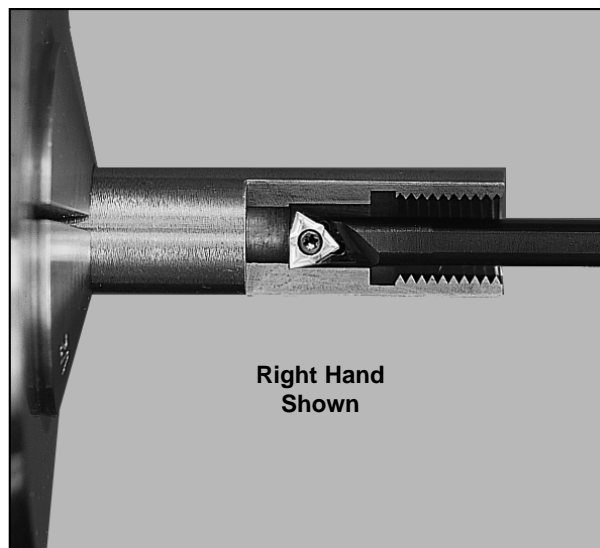
SPECIFICATIONS				ORDER CODE				INFORMATION				
Minimum Bore	Tool Reach	Nose Radius	Projection	DURA-MAX® 2000 Carbide See Page 9-15 for Speeds and Feeds		Coatings See Page 9-6 for expanded coating descriptions				Shank Diameter	Overall Length	Toolholder Page 7-2
'C'	'E'	'G'	'F'	Right Hand	Left Hand	TiN	TiCN	TiAlN	Diamond	'B'	'D'	Use Toolholders Beginning With
	Minimum		Minimum									
.125"	.500"	.007"	.052"	RT21BR	RT21BL					1/8"	1.500"	'AD'
.187"	.750"	.010"	.083"	RT31BR	RT31BL					3/16"	2.000"	'AD'
.250"	.875"	.010"	.115"	RT41BR	RT41BL	add 'C'	add 'D'	add 'E'	add 'F'	1/4"	2.500"	'AD'
.312"	1.115"	.015"	.146"	RT51BR	RT51BL					5/16"	2.500"	'AD'
.375"	1.350"	.015"	.115"	RT61CR	RT61CL					3/8"	3.000"	'AD'
.500"	1.870"	.015"	.157"	RT81CR	RT81CL					1/2"	3.500"	'AD'

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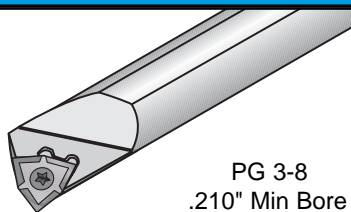
## PRODUCT INFORMATION

- Boring with .210" minimum bore diameter.
- 'K' angle increases strength in insert pocket by increasing the cross-sectional area below the insert.
- Boring bars for WCGT insert style.
- Variety of diameters made from Steel, Heavy Metal and Carbide.
- Bars and inserts are compatible with other ANSI standard bars and inserts. Call for cross-overs.
- Sub-micron grain **DURA-MAX<sup>®</sup> 4000** and **5000** Carbide.
- Tools available with TiN, TiAlN, TiCN and Diamond coating.
- Modifications can be provided on any of our tooling. Please contact us with your application requirements.

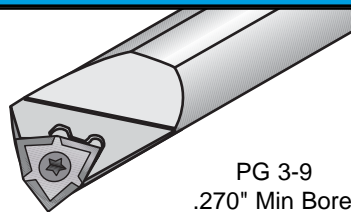


## TOOLHOLDER SELECTIONS

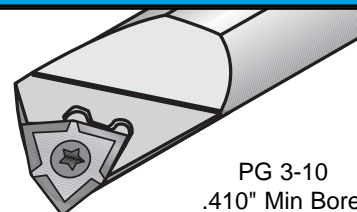
### WCGT STYLE - MBE SERIES



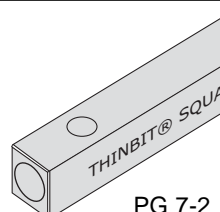
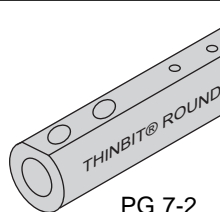
### WCGT STYLE - MBF SERIES



### WCGT STYLE - MBG SERIES



### ADAPTER STYLES



## INSERT SELECTIONS

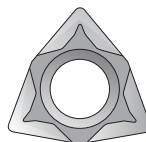
### WCGT STYLE - MBE SERIES



WCGT 1.21

PG 3-8

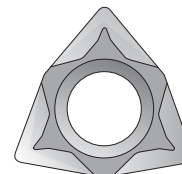
### WCGT STYLE - MBF SERIES



WCGT 1.51.5

PG 3-9

### WCGT STYLE - MBG SERIES



WCGT 21.5

PG 3-10

## TECHNICAL SECTIONS

### PRODUCT DEMONSTRATION



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### SPEEDS AND FEEDS

PG 9-14

### APPLICATION REFERENCE

PG 9-4

### TROUBLE SHOOTING

PG 9-7

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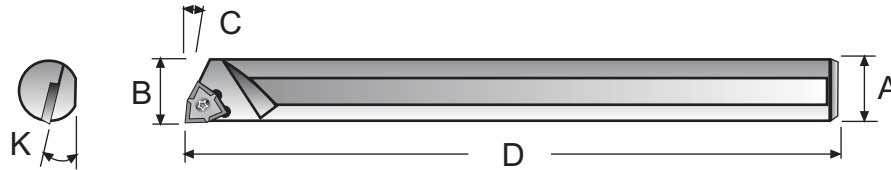



# TO ORDER WCGT STYLE - MBE SERIES BORING BARS

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

**EXAMPLE:**

The **ORDER CODE** for a .270" minimum bore, right hand, heavy metal shank with a 3° lead angle is:  
**MBEH132527R**



 .156" I.C.	TOOL SPECIFICATIONS						ORDER CODE		
	Minimum Bore 'B' With .008" radius insert	Material Extension Ratios: Steel: 4 x ø Heavy Metal: 6 x ø Carbide: 8 x ø	Bar Diameter 'A'	Length 'D'	Lead Angle 'C'	'K' Angle 'C' see page 3-1	Boring Bar Includes Screw and Wrench	Replacement Parts Screw   Wrench	
Right Hand Bars  Use inserts beginning with 'MBEIW' and ANSI 'WCGT 1.21' inserts	.210"	Steel	.188"	3.500"	3°	17°	MBES131821R	F15	W11
		Heavy Metal	.188"	3.976"	3°	17°	MBEH131821R	F15	W11
		Carbide	.188"	4.474"	3°	17°	MBEC131821R	F15	W11
	.220"	Steel	.188"	3.500"	0°	17°	MBES101822R	F15	W11
		Heavy Metal	.188"	3.976"	0°	17°	MBEH101822R	F15	W11
	.270"	Steel	.250"	4.000"	0°	12°	MBES102527R	F15	W11
3°					12°	MBES132527R	F15	W11	
Heavy Metal		.250"	3.976"	0°	12°	MBEH102527R	F15	W11	
				3°	12°	MBEH132527R	F15	W11	
Left Hand Bars Use inserts beginning with 'MBEIW' and ANSI 'WCGT 1.21' inserts	.210"	Steel	.188"	3.500"	3°	17°	MBES131821L	F15	W11
		Heavy Metal	.188"	3.976"	3°	17°	MBEH131821L	F15	W11
	.270"	Steel	.250"	4.000"	3°	12°	MBES132527L	F15	W11
		Heavy Metal	.250"	3.976"	3°	12°	MBEH132527L	F15	W11

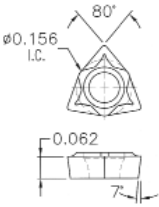
**MBE TRIGON BORING**

# TO ORDER WCGT STYLE - MBE 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® 4000** insert with .008" radius and TiN coating is:  
**MBEIW08D4C**

WCGT Style MBE Series Use toolholders beginning with 'MBE'	SPECIFICATIONS		ORDER CODE			
	Insert Material	Corner Radius	Coating See Page 9-5 for expanded material description and Page 9-14 for speeds and feeds			
			Uncoated	TiN	TiCN Non-stock	TiAlN Non-stock
	<b>DURA-MAX® 4000 carbide</b> For Steel & Interrupted Cutting	.004"	MBEIW04D4U	MBEIW04D4C	MBEIW04D4D	MBEIW04D4E
		.008"	MBEIW08D4U	MBEIW08D4C	MBEIW08D4D	MBEIW08D4E
		.015"	MBEIW15D4U	MBEIW15D4C	MBEIW15D4D	MBEIW15D4E
<b>DURA-MAX® 5000 carbide</b> For Aluminum & Non-ferrous	.004"	MBEIW04D5U	MBEIW04D5C	MBEIW04D5D	MBEIW04D5E	
	.008"	MBEIW08D5U	MBEIW08D5C	MBEIW08D5D	MBEIW08D5E	
	.015"	MBEIW15D5U	MBEIW15D5C	MBEIW15D5D	MBEIW15D5E	

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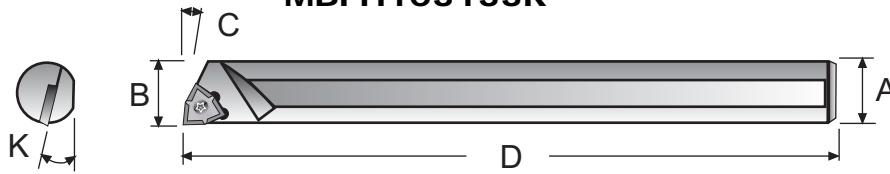
## TO ORDER WCGT STYLE - MBF SERIES BORING BARS


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

**EXAMPLE:**

The **ORDER CODE** for a .330" minimum bore, right hand, heavy metal shank with a 0° lead angle is:

**MBFH103133R**



 .187" I.C.	TOOL SPECIFICATIONS						ORDER CODE		
	Minimum Bore 'B' <small>With .008" radius insert</small>	Material <small>Extension Ratios: Steel: 4 x ø Heavy Metal: 6 x ø Carbide: 8 x ø</small>	Bar Diameter 'A'	Length 'D'	Lead Angle 'C'	'K' Angle 'K' <small>See Page 3-1</small>	Boring Bar <small>Includes Screw and Wrench</small>	Replacement Parts <small>Screw    Wrench</small>	
Right Hand Bars  <small>Use inserts beginning with 'MBFIW' and ANSI 'WCGT 1.51.5' inserts</small>	.270"	Steel	.250"	4.000"	0°	15°	MBFS102527R	F15	W11
		Heavy Metal	.250"	3.976"	3°	15°	MBFH132527R	F15	W11
		Carbide	.250"	6.488"	0°	15°	MBFH102527R	F15	W11
					3°	15°	MBFH132527R	F15	W11
	.330"	Steel	.312"	4.000"	0°	15°	MBFS103133R	F15	W11
		Heavy Metal	.312"	5.500"	3°	15°	MBFS133133R	F15	W11
					0°	15°	MBFH103133R	F15	W11
					3°	15°	MBFH133133R	F15	W11
Left Hand Bars  <small>Use inserts beginning with 'MBFIW' and ANSI 'WCGT 1.51.5' inserts</small>	.270"	Steel	.250"	4.000"	3°	15°	MBFS132527L	F15	W11
		Heavy Metal	.250"	3.976"	3°	15°	MBFH132527L	F15	W11
	.330"	Steel	.312"	4.000"	3°	15°	MBFS133133L	F15	W11
		Heavy Metal	.312"	5.500"	3°	15°	MBFH133133L	F15	W11

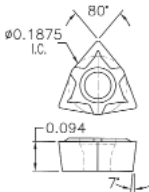
## TO ORDER WCGT STYLE - MBF SERIES INSERTS

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

**EXAMPLE:**

The **ORDER CODE** for a **DURA-MAX® 4000** insert with .008" radius and TiN coating is:

**MBFIW08D4C**

WCGT Style MBF Series Use toolholders beginning with 'MBF'	SPECIFICATIONS		ORDER CODE			
	Insert Material	Corner Radius	Coating <small>See Page 9-5 for expanded material description and Page 9-14 for Speeds and Feeds</small>			
			Uncoated	TiN	TiCN <small>Non-stock</small>	TiAlN <small>Non-stock</small>
	<b>DURA-MAX® 4000 carbide</b> <small>For Steel &amp; Interrupted Cutting</small>	.004"	MBFIW04D4U	MBFIW04D4C	MBFIW04D4D	MBFIW04D4E
		.008"	MBFIW08D4U	MBFIW08D4C	MBFIW08D4D	MBFIW08D4E
		.015"	MBFIW15D4U	MBFIW15D4C	MBFIW15D4D	MBFIW15D4E
	<b>DURA-MAX® 5000 carbide</b> <small>For Aluminum &amp; Non-ferrous</small>	.004"	MBFIW04D5U	MBFIW04D5C	MBFIW04D5D	MBFIW04D5E
		.008"	MBFIW08D5U	MBFIW08D5C	MBFIW08D5D	MBFIW08D5E
		.015"	MBFIW15D5U	MBFIW15D5C	MBFIW15D5D	MBFIW15D5E

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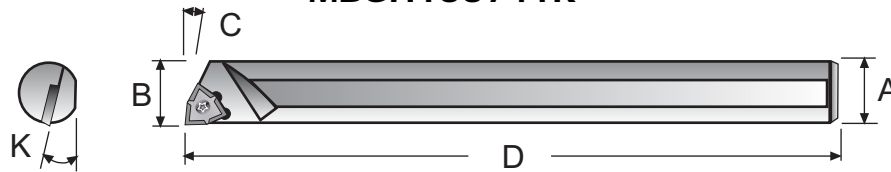
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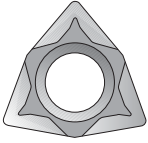
# TO ORDER WCGT STYLE - MBG SERIES BORING BARS

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

**EXAMPLE:**

The **ORDER CODE** for a .410" minimum bore, right hand, heavy metal shank with a 3° lead angle is:  
**MBGH133741R**



 .250" I.C.	TOOL SPECIFICATIONS						ORDER CODE		
	Minimum Bore 'B' <small>With .008" radius insert</small>	Material <small>Extension Ratios: Steel: 4 x ø Heavy Metal: 6 x ø Carbide: 8 x ø</small>	Bar Diameter 'A'	Length 'D'	Lead Angle 'C'	'K' Angle 'K' <small>See Page 3-1</small>	Boring Bar <small>Includes Screw and Wrench</small>	Replacement Parts	
							Screw	Wrench	
Right Hand Bars  Use inserts beginning with 'MBGIW' and ANSI 'WCGT 21.5' inserts	.410"	Steel	.375"	5.500"	0°	8°	MBGS103741R	F26	W26
					3°	8°	MBGS133741R	F26	W26
		Heavy Metal	.375"	5.500"	0°	8°	MBGH103741R	F26	W26
					3°	8°	MBGH133741R	F26	W26
		Carbide	.375"	6.777"	3°	8°	MBGC133741R	F26	W26
	.530"	Steel	.500"	5.500"	0°	8°	MBGS105053R	F26	W26
					3°	8°	MBGS135053R	F26	W26
		Heavy Metal	.500"	5.500"	0°	8°	MBGH105053R	F26	W26
				3°	8°	MBGH135053R	F26	W26	
Left Hand Bars Use inserts beginning with 'MBGIW' and ANSI 'WCGT 21.5' inserts	.410"	Steel	.375"	5.500"	3°	8°	MBGS133741L	F26	W26
		Heavy Metal	.375"	5.500"	3°	8°	MBGH133741L	F26	W26
	.530"	Steel	.500"	5.500"	3°	8°	MBGS135053L	F26	W26
		Heavy Metal	.500"	5.500"	3°	8°	MBGH135053L	F26	W26

**MBF & MBG TRIGON BORING**

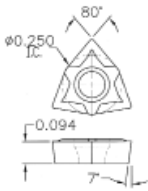
## TO ORDER WCGT STYLE - MBG SERIES INSERTS

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

**EXAMPLE:**

The **ORDER CODE** for a **DURA-MAX® 4000** insert with .008" radius and TiN coating is:

**MBGIW08D4C**

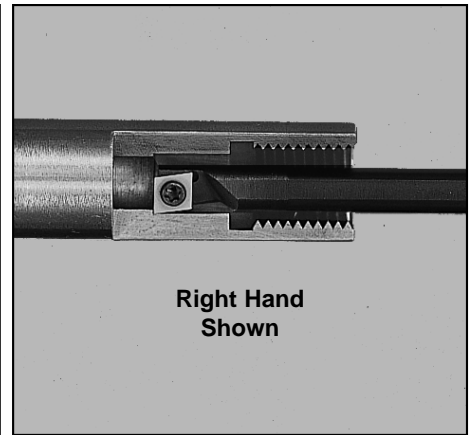
WCGT Style MBG Series Use toolholders beginning with 'MBG'	SPECIFICATIONS		ORDER CODE			
	Insert Material	Corner Radius	Coating <small>See Page 9-5 for expanded material description and Page 9-14 for Speeds and Feeds</small>			
			Uncoated	TiN	TiCN <small>Non-stock</small>	TiAlN <small>Non-stock</small>
	<b>DURA-MAX® 4000 carbide</b> <small>For Steel &amp; Interrupted Cutting</small>	.004"	MBGIW04D4U	MBGIW04D4C	MBGIW04D4D	MBGIW04D4E
		.008"	MBGIW08D4U	MBGIW08D4C	MBGIW08D4D	MBGIW08D4E
		.015"	MBGIW15D4U	MBGIW15D4C	MBGIW15D4D	MBGIW15D4E
	<b>DURA-MAX® 5000 carbide</b> <small>For Aluminum &amp; Non-ferrous</small>	.004"	MBGIW04D5U	MBGIW04D5C	MBGIW04D5D	MBGIW04D5E
		.008"	MBGIW08D5U	MBGIW08D5C	MBGIW08D5D	MBGIW08D5E
		.015"	MBGIW15D5U	MBGIW15D5C	MBGIW15D5D	MBGIW15D5E

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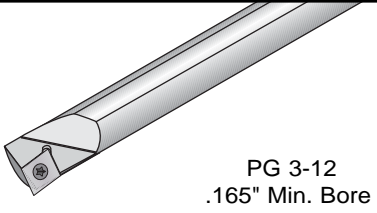
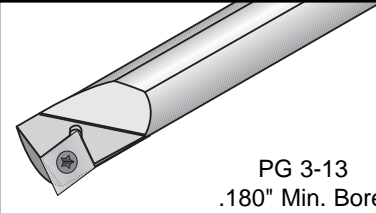
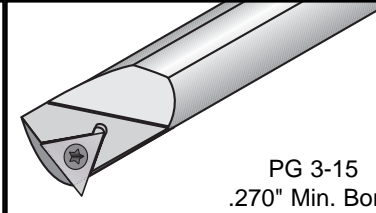
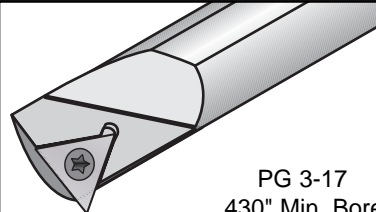
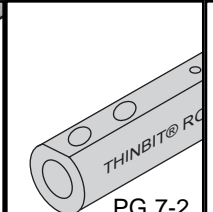
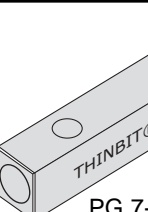
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## PRODUCT INFORMATION



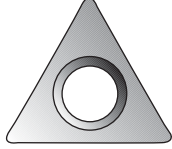
- Boring with .165" minimum bore diameter.
- 'K' angle increases strength in insert pocket by increasing the cross-sectional area below the insert.
- Boring bars for CD, TD and TP insert styles.
- Variety of diameters made from Steel, Heavy Metal and Carbide.
- Sub-micron grain **DURA-MAX® 3000, 4000 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
 <p>PG 3-12 .165" Min. Bore</p>	 <p>PG 3-13 .180" Min. Bore</p>	 <p>PG 3-15 .270" Min. Bore</p>
	TP STYLE - MBC SERIES	ADAPTER STYLES
	 <p>PG 3-17 .430" Min. Bore</p>	 <p>THINBIT® RC PG 7-2</p>  <p>THINBIT® S PG 7-2</p>

## INSERT SELECTIONS

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

## TECHNICAL SECTIONS

PRODUCT DEMONSTRATION	SPEEDS AND FEEDS	APPLICATION REFERENCE	TROUBLE SHOOTING
 <a href="http://www.thinbit.com/qr3-11">www.thinbit.com/qr3-11</a>	PG 9-15	PG 9-4	PG 9-7

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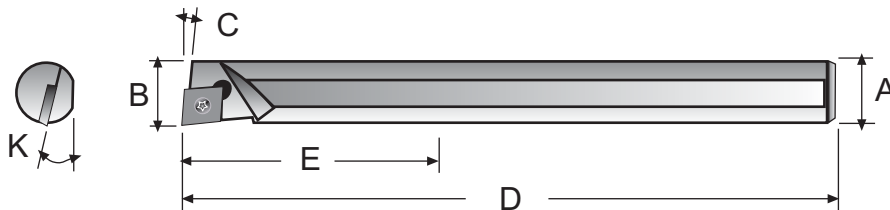
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## TO ORDER CD STYLE - MBZ SERIES BORING BARS

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**



	TOOL SPECIFICATIONS							ORDER CODE		
	Minimum Bore 'B'  With .007" radius insert	Material  Extension Ratios: Steel: 4 x ø Carbide: 8 x ø	Bar Diameter 'A'	Length 'D'	Neck Length 'E'	Lead Angle 'C'	'K' Angle 'K'	Boring Bar  Includes Screw and Wrench	Replacement Parts	
								Screw	Wrench	
 .140" I.C.  Right Hand Bars Use inserts beginning with 'MBZ'	0.165"	Steel	.187"	2.500"	.580"	7°	17°	MBZS171816R	F11	W11
		Carbide	.156"	4.477"	1.500"	7°	17°	MBZC171516R		

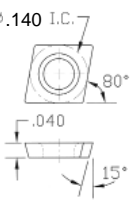
**MBZ BARS & INSERTS BORING**

## 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
 ø.140 I.C. .040 80° 15°	<b>DURA-MAX® 4000 carbide</b> For Steel & Interrupted Cutting	.002"	MBZIZ02D4U	MBZIZ02D4C	MBZIZ02D4D	MBZIZ02D4E	MBZIZ02D4F
		.007"	MBZIZ07D4U	MBZIZ07D4C	MBZIZ07D4D	MBZIZ07D4E	MBZIZ07D4F
		.015"	MBZIZ15D4U	MBZIZ15D4C	MBZIZ15D4D	MBZIZ15D4E	MBZIZ15D4F
	<b>DURA-MAX® 5000 carbide</b> For Aluminum & Non-ferrous	.002"	MBZIZ02D5U	MBZIZ02D5C	MBZIZ02D5D	MBZIZ02D5E	MBZIZ02D5F
		.007"	MBZIZ07D5U	MBZIZ07D5C	MBZIZ07D5D	MBZIZ07D5E	MBZIZ07D5F
		.015"	MBZIZ15D5U	MBZIZ15D5C	MBZIZ15D5D	MBZIZ15D5E	MBZIZ15D5F

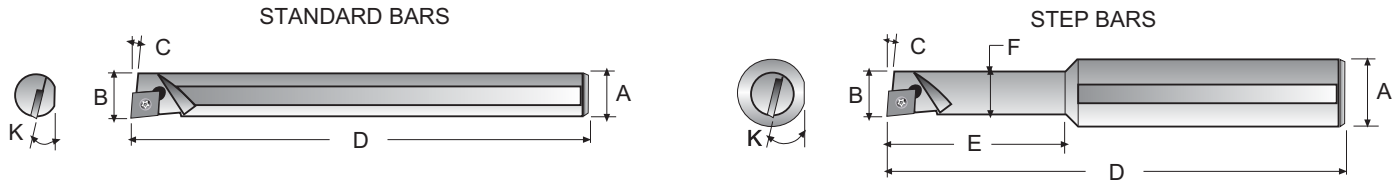
### KAISER TOOL COMPANY, INC.


# 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**



	TOOL SPECIFICATIONS								ORDER CODE		
	Minimum Bore 'B'	Material	Bar Diameter		Length		Lead Angle	'K' Angle	Boring Bar  Includes Screw and Wrench	Replacement Parts	
	With .007" radius insert	Extension Ratios: Steel: 4 x ø Heavy Metal: 6 x ø Carbide: 8 x ø	'F' Neck	'A' Shank	'E' Neck	'D' Overall	'C'	'K'		Screw	Wrench
.156" I.C.											
Right Hand Bars	.180"	Steel	.164"	.187"	.520"	2.500"	7°	17°	MBAS171818R	F11	W11
			.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	F15	W11
			.180"	.500"	.500"	3.000"	5°	17°	MBAS355020R050		
	Heavy Metal	.187"		---	3.976"	5°	17°	MBAH151820R			
	.210"	Steel	.187"		---	3.500"	0°	17°	MBAS101821R	F15	W11
			.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	F15	W11
		Heavy Metal	.187"		---	3.976"	5°	17°	MBAH151822R		
			.187"	.500"	1.125"	3.977"	5°	17°	MBAH355022R112		
Carbide	.187"		---	4.477"	5°	17°	MBAC151822R				
.230"	Steel	.187"		---	3.500"	5°	17°	MBAS151823R	F15	W11	
.270"	Steel	.250"		---	4.000"	0°	12°	MBAS102527R	F15	W11	
.280"	Steel	.250"		---	4.000"	5°	12°	MBAS152528R	F15	W11	
		.250"	.375"	1.250"	3.000"	5°	12°	MBAS353728R125			
	Heavy Metal	.250"		---	3.976"	5°	12°	MBAH152528R			
Carbide	.250"		---	6.504"	5°	12°	MBAC152528R				
.350"	Heavy Metal	.313"		---	5.500"	5°	8°	MBAH153135R	F15	W11	
Left Hand Bars	.180"	Steel	.164"		.520"	2.500"	7°	17°	MBAS171818L	F11	W11
		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	F15	W11
.280"	Steel	.250"		---	4.000"	5°	12°	MBAS152528L			

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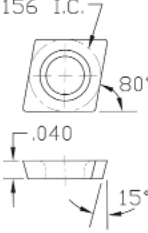
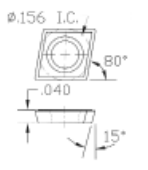
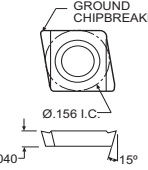
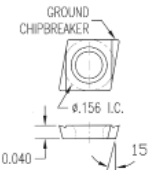
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# TO ORDER CD STYLE - MBA SERIES INSERTS

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	<b>DURA-MAX® 4000</b> Carbide For Steel & Interrupted Cutting	.002"	MBAIZ02D4U	MBAIZ02D4C	MBAIZ02D4D	MBAIZ02D4E	MBAIZ02D4F	
		.007"	MBAIZ07D4U	MBAIZ07D4C	MBAIZ07D4D	MBAIZ07D4E	MBAIZ07D4F	
		.015"	MBAIZ15D4U	MBAIZ15D4C	MBAIZ15D4D	MBAIZ15D4E	MBAIZ15D4F	
	<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous	.002"	MBAIZ02D5U	MBAIZ02D5C	MBAIZ02D5D	MBAIZ02D5E	MBAIZ02D5F	
		.007"	MBAIZ07D5U	MBAIZ07D5C	MBAIZ07D5D	MBAIZ07D5E	MBAIZ07D5F	
		.015"	MBAIZ15D5U	MBAIZ15D5C	MBAIZ15D5D	MBAIZ15D5E	MBAIZ15D5F	
	<b>DURA-MAX® 8000</b> CBN For Hardened Materials	.002"	MBAIZ02D8					
		.007"	MBAIZ07D8					
		.015"	MBAIZ15D8					
	<b>DURA-MAX® 9000</b> PCD For Abrasive Non-ferrous	.002"	MBAIZ02D9					
		.007"	MBAIZ07D9					
		.015"	MBAIZ15D9					
Molded Chipbreaker    CDCH Style	<b>DURA-MAX® 4000</b> Carbide For Steel & Interrupted Cutting	.007"	MBAIW07D4U	MBAIW07D4C	MBAIW07D4D	MBAIW07D4E	MBAIW07D4F	
		.015"	MBAIW15D4U	MBAIW15D4C	MBAIW15D4D	MBAIW15D4E	MBAIW15D4F	
	<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous	.007"	MBAIW07D5U	MBAIW07D5C	MBAIW07D5D	MBAIW07D5E	MBAIW07D5F	
		.015"	MBAIW15D5U	MBAIW15D5C	MBAIW15D5D	MBAIW15D5E	MBAIW15D5F	
	Ground Chipbreaker Right Hand for Left Hand Bars    CDCG Style	<b>DURA-MAX® 4000</b> Carbide For Steel & Interrupted Cutting	.002"	MBAIG02D4UR	MBAIG02D4CR	MBAIG02D4DR	MBAIG02D4ER	MBAIG02D4FR
			.007"	MBAIG07D4UR	MBAIG07D4CR	MBAIG07D4DR	MBAIG07D4ER	MBAIG07D4FR
.015"			MBAIG15D4UR	MBAIG15D4CR	MBAIG15D4DR	MBAIG15D4ER	MBAIG15D4FR	
<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous		.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		<b>DURA-MAX® 4000</b> Carbide For Steel & Interrupted Cutting	.002"	MBAIG02D4UL	MBAIG02D4CL	MBAIG02D4DL	MBAIG02D4EL	MBAIG02D4FL
			.007"	MBAIG07D4UL	MBAIG07D4CL	MBAIG07D4DL	MBAIG07D4EL	MBAIG07D4FL
			.015"	MBAIG15D4UL	MBAIG15D4CL	MBAIG15D4DL	MBAIG15D4EL	MBAIG15D4FL
	<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous	.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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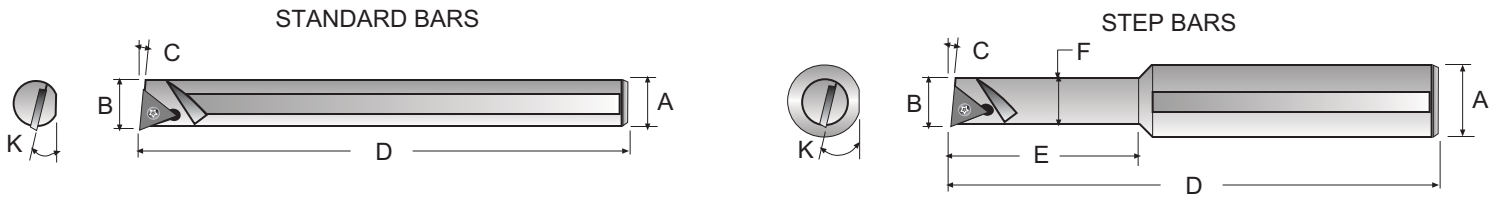
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# TO ORDER TD STYLE - MBB SERIES BORING BARS

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**



 .160" I.C.	TOOL SPECIFICATIONS								ORDER CODE					
	Minimum Bore 'B'	Material	Bar Diameter		Length		Lead Angle 'C'	'K' Angle 'K'	Boring Bar	Replacement Parts				
			'F' Neck	'A' Shank	'E' Neck	'D' Overall				Includes Screw and Wrench	Screw	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		
			Heavy Metal	.313"		---	5.500"	0°	8°			MBBH103135R		
	.313"			---	5.500"	5°	8°	MBBH153135R						
	.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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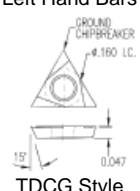
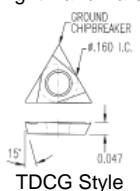


# TO ORDER TD STYLE - MBB SERIES INSERTS

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	<b>DURA-MAX® 3000/4000</b> Carbide For Steel & Interrupted Cutting	.002"	MBBIZ02D3U	MBBIZ02D3C	MBBIZ02D3D	MBBIZ02D3E	MBBIZ02D3F	
		.007"	MBBIZ07D3U	MBBIZ07D3C	MBBIZ07D3D	MBBIZ07D3E	MBBIZ07D3F	
		.015"	MBBIZ15D3U	MBBIZ15D3C	MBBIZ15D3D	MBBIZ15D3E	MBBIZ15D3F	
		.031"	MBBIZ31D3U	MBBIZ31D3C	MBBIZ31D3D	MBBIZ31D3E	MBBIZ31D3F	
	<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous	.002"	MBBIZ02D5U	MBBIZ02D5C	MBBIZ02D5D	MBBIZ02D5E	MBBIZ02D5F	
		.007"	MBBIZ07D5U	MBBIZ07D5C	MBBIZ07D5D	MBBIZ07D5E	MBBIZ07D5F	
		.015"	MBBIZ15D5U	MBBIZ15D5C	MBBIZ15D5D	MBBIZ15D5E	MBBIZ15D5F	
		.031"	MBBIZ31D5U	MBBIZ31D5C	MBBIZ31D5D	MBBIZ31D5E	MBBIZ31D5F	
	<b>DURA-MAX® 8000</b> CBN For Hardened Materials	.002"	MBBIZ02D8					
		.007"	MBBIZ07D8					
		.015"	MBBIZ15D8					
		.031"	MBBIZ31D8					
	<b>DURA-MAX® 9000</b> PCD For Abrasive Non-ferrous	.002"	MBBIZ02D9					
		.007"	MBBIZ07D9					
		.015"	MBBIZ15D9					
		.031"	MBBIZ31D9					
Molded Chipbreaker    TDCH Style	<b>DURA-MAX® 4000</b> Carbide For Steel & Interrupted Cutting	.007"	MBBIW07D4U	MBBIW07D4C	MBBIW07D4D	MBBIW07D4E	MBBIW07D4F	
		.015"	MBBIW15D4U	MBBIW15D4C	MBBIW15D4D	MBBIW15D4E	MBBIW15D4F	
	<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous	.007"	MBBIW07D5U	MBBIW07D5C	MBBIW07D5D	MBBIW07D5E	MBBIW07D5F	
		.015"	MBBIW15D5U	MBBIW15D5C	MBBIW15D5D	MBBIW15D5E	MBBIW15D5F	
Ground Chipbreaker Right Hand for Left Hand Bars    TDCG Style	<b>DURA-MAX® 3000</b> 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	
	<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous	.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	<b>DURA-MAX® 3000</b> 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
<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous		.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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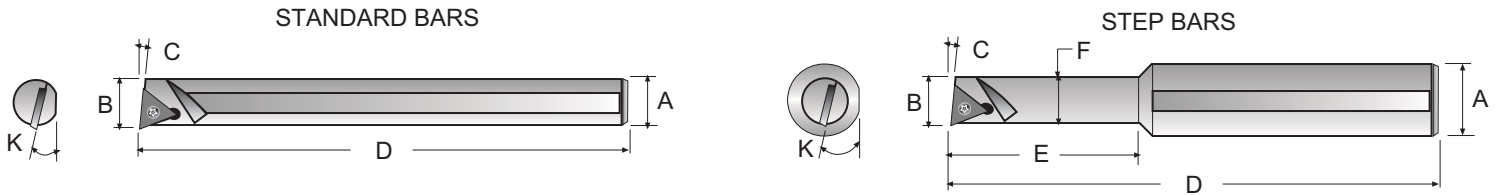
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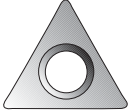
# TO ORDER TP STYLE - MBC SERIES BORING BARS

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			
			.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			
			.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

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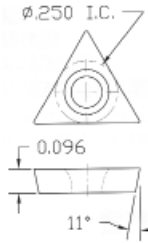



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# TO ORDER TP STYLE - MBC SERIES INSERTS

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	<b>DURA-MAX® 3000/4000</b> 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	
	<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous	.002"	MBCIZ02D5U	MBCIZ02D5C	MBCIZ02D5D	MBCIZ02D5E	MBCIZ02D5F	
		.007"	MBCIZ07D5U	MBCIZ07D5C	MBCIZ07D5D	MBCIZ07D5E	MBCIZ07D5F	
		.015"	MBCIZ15D5U	MBCIZ15D5C	MBCIZ15D5D	MBCIZ15D5E	MBCIZ15D5F	
		.031"	MBCIZ31D5U	MBCIZ31D5C	MBCIZ31D5D	MBCIZ31D5E	MBCIZ31D5F	
	<b>DURA-MAX® 8000</b> CBN For Hardened Materials	.002"	MBCIZ02D8					
		.007"	MBCIZ07D8					
		.015"	MBCIZ15D8					
		.031"	MBCIZ31D8					
	<b>DURA-MAX® 9000</b> PCD For Abrasive Non-ferrous	.002"	MBCIZ02D9					
		.007"	MBCIZ07D9					
		.015"	MBCIZ15D9					
		.031"	MBCIZ31D9					
	Molded Chipbreaker    TPCH Style	<b>DURA-MAX® 3000</b> Carbide* For Steel & Interrupted Cutting	.015"	MBCIW15D3U	MBCIW15D3C	MBCIW15D3D	MBCIW15D3E	MBCIW15D3F
			.031"	MBCIW31D3U	MBCIW31D3C	MBCIW31D3D	MBCIW31D3E	MBCIW31D3F
<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous		.015"	MBCIW15D5U	MBCIW15D5C	MBCIW15D5D	MBCIW15D5E	MBCIW15D5F	
		.031"	MBCIW31D5U	MBCIW31D5C	MBCIW31D5D	MBCIW31D5E	MBCIW31D5F	
Ground Chipbreaker Right Hand for Left Hand Bars    TPCG Style	<b>DURA-MAX® 3000/4000</b> 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	
	<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous	.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	<b>DURA-MAX® 3000/4000</b> 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
<b>DURA-MAX® 5000</b> Carbide For Aluminum & Non-ferrous		.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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