



*ONE STOP TOOLING AND MACHINE SHOP*

# PRODUCT AND PRICE LISTS

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## V-BLOCKS

Catalog Number	Description	Size	Holding Capacity	Brand	Price
41101-90	1" Magnetic V-Block	1"	.030"Ø-.625"Ø	NTM	\$260.00
41102-90	2" Magnetic V-Block	2"	.062"Ø-1.250"Ø	NTM	\$415.00

## NU-HEAD SERVICE (reuse old carbide boring bars and replace head)

Boring Bar Size	Diameter	Type	Price
NTM size -04	1/4"	SOLID	\$108.00
NTM size -05	5/16"	SOLID	\$108.00
NTM size -06	3/8"	SOLID	\$108.00
NTM size -08	1/2"	SOLID	\$111.00
NTM size -10	5/8"	SOLID	\$143.00
NTM size -12	3/4"	SOLID	\$172.00
NTM size -16	1"	SOLID	\$206.00
NTM size -20	1-1/4"	SOLID	CALL
NTM size -24	1-1/2"	SOLID	CALL

Boring Bar Size	Diameter	Type	Price
NTM size -04	1/4"	COOLANT THRU	\$125.00
NTM size -05	5/16"	COOLANT THRU	\$125.00
NTM size -06	3/8"	COOLANT THRU	\$125.00
NTM size -08	1/2"	COOLANT THRU	\$129.00
NTM size -10	5/8"	COOLANT THRU	\$166.00
NTM size -12	3/4"	COOLANT THRU	\$195.00
NTM size -16	1"	COOLANT THRU	\$240.00
NTM size -20	1-1/4"	COOLANT THRU	CALL
NTM size -24	1-1/2"	COOLANT THRU	CALL

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C03-SWLCR-1.2</b>	3/16 Ø STUBBY Carbide Boring Bar	Right	0.187	4-1/2"	0.114	0.217	-5°	Solid		TS21	WCMT-1.21	80° Trigon	STUBBY	NTM	17°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C03-SWLPL-1.5</b>	3/16 Ø STUBBY Carbide Boring Bar	Left	0.187	4-1/2"	0.126	0.230	-5°	Solid		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	10°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C03-SWLPR-1.5</b>	3/16 Ø STUBBY Carbide Boring Bar	Right	0.187	4-1/2"	0.126	0.230	-5°	Solid		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	10°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C04-SWLCR-1.2</b>	1/4 Ø STUBBY Carbide Boring Bar	Right	0.25	4-1/2"	0.156	0.291	-5°	Solid		TS2	WCMT-1.21	80° Trigon	STUBBY	NTM	17°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C04-SWLPL-1.5</b>	1/4 Ø STUBBY Carbide Boring Bar	Left	0.25	4-1/2"	0.156	0.291	-5°	Solid		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	8°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C04-SWLPR-1.5</b>	1/4 Ø STUBBY Carbide Boring Bar	Right	0.25	4-1/2"	0.156	0.291	-5°	Solid		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	8°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C05-SCLCL-2</b>	5/16 Ø STUBBY Carbide Boring Bar	Left	0.312	4-1/2"	0.219	0.385	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	15°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C05-SCLCR-2</b>	5/16 Ø STUBBY Carbide Boring Bar	Right	0.312	4-1/2"	0.219	0.385	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	15°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C05-SCLPL-1.8</b>	5/16 Ø STUBBY Carbide Boring Bar	Left	0.312	4-1/2"	0.219	0.385	-5°	Solid		MS-1152	CPMT-1.81.51	80° Rhomboid	STUBBY	NTM	7°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C05-SCLPR-1.8</b>	5/16 Ø STUBBY Carbide Boring Bar	Right	0.312	4-1/2"	0.219	0.385	-5°	Solid		MS-1152	CPMT-1.81.51	80° Rhomboid	STUBBY	NTM	7°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C05-SCLPR-2</b>	5/16 Ø STUBBY Carbide Boring Bar	Right	0.312	4-1/2"	0.219	0.385	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	8°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C05-SWLCR-1.5</b>	5/16 Ø STUBBY Carbide Boring Bar	Right	0.312	4-1/2"	0.188	0.354	-5°	Solid		TS2	WCMT-1.51.5	80° Trigon	STUBBY	NTM	15°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C05-SWLCR-2</b>	5/16 Ø STUBBY Carbide Boring Bar	Right	0.312	4-1/2"	0.203	0.369	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C05-SWLPL-1.5</b>	5/16 Ø STUBBY Carbide Boring Bar	Left	0.312	4-1/2"	0.219	0.385	-5°	Solid		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	8°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C05-SWLPR-1.5</b>	5/16 Ø STUBBY Carbide Boring Bar	Right	0.312	4-1/2"	0.219	0.385	-5°	Solid		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	8°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C06-SCLCL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	15°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-SCLCR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	15°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-SCLPL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-5°	Solid		MS-1153	CCMT-21.51	80° Rhomboid	STUBBY	NTM	6°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-SCLPR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-5°	Solid		MS-1153	CCMT-21.51	80° Rhomboid	STUBBY	NTM	6°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-SDUCL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.375	0.573	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Carbide		55° Diamond	ID Boring Bar	<b>\$199.55</b>
<b>C06-SDUCR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.375	0.573	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Carbide		55° Diamond	ID Boring Bar	<b>\$199.55</b>
<b>C06-SDUPL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.375	0.573	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	5°	Carbide		55° Diamond	ID Boring Bar	<b>\$199.55</b>
<b>C06-SDUPR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.375	0.573	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	5°	Carbide		55° Diamond	ID Boring Bar	<b>\$199.55</b>
<b>C06-STFCL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.25	0.448	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	10°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-STFCR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	10°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-STFPL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.25	0.448	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-STFPR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-STUCL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	10°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-STUCR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	10°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-STUNL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM	17°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C06-STUNR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM	17°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-STUPL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-STUPR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-SWLCR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-SWLCR-2-218</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.218	0.416	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-SWLPL-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-5°	Solid		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM	6°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C06-SWLPR-2</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-5°	Solid		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM	6°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>C08-CTFPL-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	0°	Solid	CK-27/STC-27		TPG-221	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-CTFPR-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	0°	Solid	CK-27/STC-27		TPG-221	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-LSER-3</b>	1/2 Ø STUBBY Carbide Laydown Thread Bar	Right	0.5	5"	0.39	0.650	0°	Solid		MS-1155	LT16	60° Triangle	STUBBY	NTM	18°	Carbide		Laydown Thread	OD/ID Threading	<b>\$237.04</b>
<b>C08-NKLCL05</b>	1/2 Ø STUBBY Carbide Profile Bar	Left	0.5	5"	0.375	0.670	-5°	Solid	CM-105/S-518		NPGR-51R	55° Rhomboid	STUBBY	NTM	5°	Carbide		Profiling	OD/ID Profiling	<b>\$287.75</b>
<b>C08-NKLCR05</b>	1/2 Ø STUBBY Carbide Profile Bar	Right	0.5	5"	0.375	0.670	-5°	Solid	CM-106/S-518		NPGR-51L	55° Rhomboid	STUBBY	NTM	5°	Carbide		Profiling	OD/ID Profiling	<b>\$287.75</b>
<b>C08-SCLCL-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	12°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-SCLCL-3</b>	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	12°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-SCLCR-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	12°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$237.04</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
C08-SCLCR-3	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	12°	Carbide		80° Diamond No Cool	ID Boring Bar	\$237.04
C08-SCLPL-2	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	6°	Carbide		80° Diamond No Cool	ID Boring Bar	\$237.04
C08-SCLPL-3	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide		80° Diamond No Cool	ID Boring Bar	\$237.04
C08-SCLPR-2	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	6°	Carbide		80° Diamond No Cool	ID Boring Bar	\$237.04
C08-SCLPR-3	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide		80° Diamond No Cool	ID Boring Bar	\$237.04
C08-SDUCL-2	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.437	0.697	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM	10°	Carbide		55° Diamond	ID Boring Bar	\$237.04
C08-SDUCR-2	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.437	0.697	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM	10°	Carbide		55° Diamond	ID Boring Bar	\$237.04
C08-SDUPL-2	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.437	0.697	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	2°	Carbide		55° Diamond	ID Boring Bar	\$237.04
C08-SDUPR-2	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.437	0.697	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	2°	Carbide		55° Diamond	ID Boring Bar	\$237.04
C08-STFCL-2	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	9°	Carbide		60° Triangle No Cool	ID Boring Bar	\$237.04
C08-STFCR-2	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	9°	Carbide		60° Triangle No Cool	ID Boring Bar	\$237.04
C08-STFPL-2	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	4°	Carbide		60° Triangle No Cool	ID Boring Bar	\$237.04
C08-STFPR-2	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	4°	Carbide		60° Triangle No Cool	ID Boring Bar	\$237.04
C08-STUCL-2	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	\$237.04
C08-STUCR-2	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	\$237.04

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C08-STUNL-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM	13°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-STUNR-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM	13°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-STUPL-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	7°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-STUPR-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	7°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-SWLCR-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	12°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-SWLPL-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM	4°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C08-SWLPR-2</b>	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM	4°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$237.04</b>
<b>C10-CTFPL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	0°	Solid	CK-19/STC-9		TPG-221	60° Triangle	STUBBY	NTM	3°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-CTFPR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	0°	Solid	CK-19/STC-9		TPG-221	60° Triangle	STUBBY	NTM	3°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-LSER-3</b>	5/8 Ø STUBBY Carbide Laydown Thread Bar	Right	0.625	7"	0.439	0.762	0°	Solid		MS-1155	LT16	60° Triangle	STUBBY	NTM	16°	Carbide		Laydown Thread	OD/ID Threading	<b>\$338.47</b>
<b>C10-MWLN-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.438	0.761	-5°	Solid	CK-5/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide		Clamp	ID Boring Bar	<b>\$338.47</b>
<b>C10-NKLC05</b>	5/8 Ø STUBBY Carbide Profile Bar	Left	0.625	7"	0.5	0.870	-5°	Solid	CM-71/S-524		NPGR-51R	55° Rhomboid	STUBBY	NTM	5°	Carbide		Profiling	OD/ID Profiling	<b>\$388.08</b>
<b>C10-NKLCR05</b>	5/8 Ø STUBBY Carbide Profile Bar	Right	0.625	7"	0.5	0.870	-5°	Solid	CM-79/S-524		NPGR-51L	55° Rhomboid	STUBBY	NTM	5°	Carbide		Profiling	OD/ID Profiling	<b>\$388.08</b>
<b>C10-SCLCL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	7°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SCLCL-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	7°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$338.47</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C10-SCLCR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	7°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SCLCR-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	7°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SCLPL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	4°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SCLPL-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	4°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SCLPR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	4°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SCLPR-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	4°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SDUCL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.5	0.823	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM	8°	Carbide		55° Diamond	ID Boring Bar	<b>\$338.47</b>
<b>C10-SDUCR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.5	0.823	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM	8°	Carbide		55° Diamond	ID Boring Bar	<b>\$338.47</b>
<b>C10-SDUPL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.5	0.823	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	2°	Carbide		55° Diamond	ID Boring Bar	<b>\$338.47</b>
<b>C10-SDUPR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.5	0.823	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	2°	Carbide		55° Diamond	ID Boring Bar	<b>\$338.47</b>
<b>C10-STFCL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STFCR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STFPL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	5°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STFPR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	5°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STUCL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>



## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C10-STUCL-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STUCR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STUCR-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STUNL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM	12°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STUNR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM	12°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STUPL-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	0°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-STUPR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	0°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SWLCR-2</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.375	0.697	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	10°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SWLCR-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.375	0.697	-5°	Solid		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM	10°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SWLPL-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM	3°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C10-SWLPR-3</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM	3°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$338.47</b>
<b>C12-CTFPL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	0°	Solid	CK-7/STC-9		TPG-322	60° Triangle	STUBBY	NTM	0°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-CTFPR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	0°	Solid	CK-7/STC-9		TPG-322	60° Triangle	STUBBY	NTM	0°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-LSER-3</b>	3/4 Ø STUBBY Carbide Laydown Thread Bar	Right	0.75	7"	0.51	0.895	0°	Solid		MS-1155	LT16	60° Triangle	STUBBY	NTM	14°	Carbide		Laydown Thread	OD/ID Threading	<b>\$454.23</b>
<b>C12-MWLNL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	-5°	Solid	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide		Clamp	ID Boring Bar	<b>\$454.23</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C12-MWLN-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide		Clamp	ID Boring Bar	<b>\$454.23</b>
<b>C12-MWLN-33</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid	CK-7/STC-9	NL-33	WNMG-332	80° Trigon	STUBBY	NTM		Carbide		Clamp	ID Boring Bar	<b>\$454.23</b>
<b>C12-NKLC05</b>	3/4 Ø STUBBY Carbide Profile Bar	Left	0.75	7"	0.562	1.000	-5°	Solid	CM-68/S-524		NPGR-51R	55° Rhomboid	STUBBY	NTM	5°	Carbide		Profiling	OD/ID Profiling	<b>\$510.46</b>
<b>C12-NKLCR05</b>	3/4 Ø STUBBY Carbide Profile Bar	Right	0.75	7"	0.562	1.000	-5°	Solid	CM-68/S-524		NPGR-51L	55° Rhomboid	STUBBY	NTM	5°	Carbide		Profiling	OD/ID Profiling	<b>\$510.46</b>
<b>C12-SCLCL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-SCLCR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-SCLPL-2</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	2°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-SCLPL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	3°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-SCLPR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	3°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-SDUCL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.625	1.010	-3°	Solid		5513-020-09	DCMT-32.52	55° Rhomboid	STUBBY	NTM	6°	Carbide		55° Diamond	ID Boring Bar	<b>\$454.23</b>
<b>C12-SDUCR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.625	1.010	-3°	Solid		5513-020-09	DCMT-32.52	55° Rhomboid	STUBBY	NTM	6°	Carbide		55° Diamond	ID Boring Bar	<b>\$454.23</b>
<b>C12-SDUPL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.562	0.947	-3°	Solid		MS-1155	DPMT-32.52	55° Rhomboid	STUBBY	NTM	2°	Carbide		55° Diamond	ID Boring Bar	<b>\$454.23</b>
<b>C12-SDUPR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.562	0.947	-3°	Solid		MS-1155	DPMT-32.52	55° Rhomboid	STUBBY	NTM	2°	Carbide		55° Diamond	ID Boring Bar	<b>\$454.23</b>
<b>C12-STFCL-2</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STFCL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	0°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C12-STFCR-2</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STFCR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	0°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STFPL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	0°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM	2°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STFPR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	0°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM	2°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STUCL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STUCR-2</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STUCR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	6°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STUNL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	-3°	Solid		S-944	T-321P	60° Triangle	STUBBY	NTM	10°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STUNR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-3°	Solid		S-944	T-321P	60° Triangle	STUBBY	NTM	10°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STUPL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	-3°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM	3°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-STUPR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-3°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM	3°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-SWLCR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM	8°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-SWLPL-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	-5°	Solid		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM	2°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C12-SWLPR-3</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM	2°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$454.23</b>
<b>C16-CTFPL-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Left	1	7"	0.625	1.135	0°	Solid	CK-20/STC-11		TPG-322	60° Triangle	STUBBY	NTM	0°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$595.35</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C16-CTFPR-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	0°	Solid	CK-20/STC-11		TPG-322	60° Triangle	STUBBY	NTM	0°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C16-DCLNL-4</b>	1.0 Ø STUBBY Carbide Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid	Ck-7/STC-9	LP-59	CNMG 432	80° Rhomboid	STUBBY	NTM		Carbide		Clamp	ID Boring Bar	<b>\$595.35</b>
<b>C16-DCLNR-4</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid	Ck-7/STC-9	LP-59	CNMG 432	80° Rhomboid	STUBBY	NTM		Carbide		Clamp	ID Boring Bar	<b>\$595.35</b>
<b>C16-MCLNL-4</b>	1.0 Ø STUBBY Carbide Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid	CK-20/STC-11	NL-44	CNMG-432	80° Rhomboid	STUBBY	NTM	14°	Carbide		Clamp	ID Boring Bar	<b>\$595.35</b>
<b>C16-MCLNR-4</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid	CK-20/STC-11	NL-44	CNMG-432	80° Rhomboid	STUBBY	NTM	14°	Carbide		Clamp	ID Boring Bar	<b>\$595.35</b>
<b>C16-MTLNR-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid	Ck-7/STC-9	NL-33L	TNGA-332	60° Triangle	STUBBY	NTM	12°	Carbide		Clamp	ID Boring Bar	<b>\$595.35</b>
<b>C16-MWLNL-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide		Clamp	ID Boring Bar	<b>\$595.35</b>
<b>C16-MWLNR-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide		Clamp	ID Boring Bar	<b>\$595.35</b>
<b>C16-MWLNR-4</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid	CK-20/STC-11	NL-44	WNMG-432	80° Trigon	STUBBY	NTM	14°	Carbide		Clamp	ID Boring Bar	<b>\$595.35</b>
<b>C16-SCLCL-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	6°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C16-SCLCL-4</b>	1.0 Ø STUBBY Carbide Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C16-SCLCR-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	6°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C16-SCLCR-4</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C16-SCLPL-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C16-SCLPR-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$595.35</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>C16-STUCR-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	3°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C16-STUNL-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Left	1	7"	0.625	1.135	-3°	Solid		S-944	T-321P	60° Triangle	STUBBY	NTM	8°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C16-STUNR-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-3°	Solid		S-944	T-321P	60° Triangle	STUBBY	NTM	8°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C16-STUPR-3</b>	1.0 Ø STUBBY Carbide Boring Bar	Right	1	7"	0.625	1.135	-3°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$595.35</b>
<b>C20-MCLNR-4</b>	1-1/4 Ø STUBBY Carbide Boring Bar	Right	1.25	12"	0.765	1.470	-5°	Solid	CK-20/STC-11	NL-44	CNMG-432	80° Rhomboid	STUBBY	NTM	14°	Carbide		Clamp	ID Boring Bar	<b>\$1,331.82</b>
<b>C20-MWLN-4</b>	1-1/4 Ø STUBBY Carbide Boring Bar	Right	1.25	12"	0.765	1.470	-5°	Solid	CK-20/STC-11	NL-44	WNMG-432	80° Trigon	STUBBY	NTM		Carbide		Clamp	ID Boring Bar	<b>\$1,331.82</b>
<b>C20-SCLCL-4</b>	1-1/4 Ø STUBBY Carbide Boring Bar	Left	1.25	12"	0.765	1.470	-5°	Solid		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$1,331.82</b>
<b>C20-SCLCR-4</b>	1-1/4 Ø STUBBY Carbide Boring Bar	Right	1.25	12"	0.765	1.470	-5°	Solid		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$1,331.82</b>
<b>C20-SCLPR-3</b>	1-1/4 Ø STUBBY Carbide Boring Bar	Right	1.25	12"	0.765	1.470	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Carbide		80° Diamond No Cool	ID Boring Bar	<b>\$1,331.82</b>
<b>CSTJOL 062</b>	3/8 Ø STUBBY Carbide Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-2°	Solid		BHF0306R	TPGA-221	60° Triangle	STUBBY	NTM	5°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>CSTJOL 062C</b>	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	-2°	Coolant Thru		BHF0306R	TPGA-221	60° Triangle	STUBBY	NTM	5°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>CSTJOL 082</b>	1/2 Ø STUBBY Carbide Boring Bar	Left	0.5	5"	0.312	0.572	-2°	Solid		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM	2°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$237.04</b>
<b>CSTJOL 082C</b>	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-2°	Coolant Thru		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM	2°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$273.42</b>
<b>CSTJOL 102</b>	5/8 Ø STUBBY Carbide Boring Bar	Left	0.625	7"	0.375	0.698	-2°	Solid		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>CSTJOL 102C</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.375	0.698	-2°	Coolant Thru		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$379.26</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>CSTJOL 123</b>	3/4 Ø STUBBY Carbide Boring Bar	Left	0.75	7"	0.5	0.885	-2°	Solid		BFTX0410A	TPGA-332	60° Triangle	STUBBY	NTM	2°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>CSTJOL 123C</b>	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-2°	Coolant Thru		BFTX0410A	TPGA-332	60° Triangle	STUBBY	NTM	2°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$504.95</b>
<b>CSTJOR 062</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-2°	Solid		BHF0306R	TPGA-221	60° Triangle	STUBBY	NTM	5°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$199.55</b>
<b>CSTJOR 062C</b>	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	-2°	Coolant Thru		BHF0306R	TPGA-221	60° Triangle	STUBBY	NTM	5°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>CSTJOR 082</b>	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-2°	Solid		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM	2°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$237.04</b>
<b>CSTJOR 082C</b>	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-2°	Coolant Thru		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM	2°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$273.42</b>
<b>CSTJOR 102</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.375	0.698	-2°	Solid		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$338.47</b>
<b>CSTJOR 102C</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.375	0.698	-2°	Coolant Thru		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$380.36</b>
<b>CSTJOR 123</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-2°	Solid		BFTX0410A	TPGA-332	60° Triangle	STUBBY	NTM	2°	Carbide		60° Triangle No Cool	ID Boring Bar	<b>\$454.23</b>
<b>CSTJOR 123C</b>	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-2°	Coolant Thru		BFTX0410A	TPGA-332	60° Triangle	STUBBY	NTM	2°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$504.95</b>
<b>CSWLO504L</b>	5/16 Ø STUBBY Carbide Boring Bar	Left	0.312	4-1/2"	0.203	0.369	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>CSWLO504LC</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.312	4-1/2"	0.203	0.369	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>CSWLO504R</b>	5/16 Ø STUBBY Carbide Boring Bar	Right	0.312	4-1/2"	0.203	0.369	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>CSWLO504RC</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.312	4-1/2"	0.203	0.369	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>CSWLOR 055</b>	3/16 Ø STUBBY Carbide Boring Bar	Right	0.187	4-1/2"	0.114	0.218	-5°	Solid		TS21	WCMT-1.21	80° Trigon	STUBBY	NTM	17°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>CSWLOR 062</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>CSWLOR 062C</b>	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>CSWLOR 065</b>	1/4 Ø STUBBY Carbide Boring Bar	Right	0.25	4-1/2"	0.156	0.291	-5°	Solid		TS2	WCMT-1.21	80° Trigon	STUBBY	NTM	17°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>CSWLOR 065C</b>	1/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.25	4-1/2"	0.156	0.291	-5°	Coolant Thru		TS2	WCMT-1.21	80° Trigon	STUBBY	NTM	17°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>CSWLOR 066</b>	5/16 Ø STUBBY Carbide Boring Bar	Right	0.312	4-1/2"	0.188	0.354	-5°	Solid		TS2	WCMT-1.51.5	80° Trigon	STUBBY	NTM	15°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>CSWLOR 066C</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.312	4-1/2"	0.188	0.354	-5°	Coolant Thru		TS2	WCMT-1.51.5	80° Trigon	STUBBY	NTM	15°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>CSWLOR 070</b>	3/8 Ø STUBBY Carbide Boring Bar	Right	0.375	4-3/4"	0.218	0.416	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$199.55</b>
<b>CSWLOR 070C</b>	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.218	0.416	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>CSWLOR 082</b>	1/2 Ø STUBBY Carbide Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	12°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$237.04</b>
<b>CSWLOR 082C</b>	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	12°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$273.42</b>
<b>CSWLOR 102</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.375	0.698	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	10°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$338.47</b>
<b>CSWLOR 102C</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.375	0.698	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	10°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$380.36</b>
<b>CSWLOR 103</b>	5/8 Ø STUBBY Carbide Boring Bar	Right	0.625	7"	0.375	0.698	-5°	Solid		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM	10°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$338.47</b>
<b>CSWLOR 103C</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.375	0.698	-5°	Coolant Thru		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM	10°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$380.36</b>
<b>CSWLOR 123</b>	3/4 Ø STUBBY Carbide Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM	8°	Carbide		80° Trigon No Cool	ID Boring Bar	<b>\$454.23</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>CSWLOR 123C</b>	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM	8°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$504.95</b>
<b>E04-SWLCR-1.2</b>	1/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.25	4-1/2"	0.156	0.291	-5°	Coolant Thru		TS2	WCMT-1.21	80° Trigon	STUBBY	NTM	17°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>E04-SWLPL-1.5</b>	1/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.25	4-1/2"	0.156	0.291	-5°	Coolant Thru		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	8°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>E04-SWLPR-1.5</b>	1/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.25	4-1/2"	0.156	0.291	-5°	Coolant Thru		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	8°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>E05-SCLCL-2</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.312	4-1/2"	0.219	0.385	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	15°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>E05-SCLCR-2</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.312	4-1/2"	0.219	0.385	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	15°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>E05-SCLPL-1.8</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.312	4-1/2"	0.219	0.385	-5°	Coolant Thru		MS-1152	CPMT-1.81.51	80° Rhomboid	STUBBY	NTM	7°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>E05-SCLPR-1.8</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.312	4-1/2"	0.219	0.385	-5°	Coolant Thru		MS-1152	CPMT-1.81.51	80° Rhomboid	STUBBY	NTM	7°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>E05-SCLPR-2</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.312	4-1/2"	0.219	0.385	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	8°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>E05-SWLCR-1.5</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.312	4-1/2"	0.188	0.354	-5°	Coolant Thru		TS2	WCMT-1.51.5	80° Trigon	STUBBY	NTM	15°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>E05-SWLCR-2</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.312	4-1/2"	0.203	0.369	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>E05-SWLPL-1.5</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.312	4-1/2"	0.219	0.385	-5°	Coolant Thru		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	8°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>E05-SWLPR-1.5</b>	5/16 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.312	4-1/2"	0.219	0.385	-5°	Coolant Thru		MS-1438	WPMT-1.51.21	80° Trigon	STUBBY	NTM	8°	Carbide	End Coolant	80° Trigon w/ Cool	ID Boring Bar	<b>\$231.53</b>
<b>E06-SCLCL-2</b>	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	15°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$231.53</b>
<b>E06-SCLCR-2</b>	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	15°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$231.53</b>



## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
E06-SCLPL-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	6°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$231.53
E06-SCLPR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	6°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$231.53
E06-SDUCL-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.375	0.573	-3°	Coolant Thru		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Carbide	End Coolant	55° Diamond	ID Boring Bar	\$231.53
E06-SDUCR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.375	0.573	-3°	Coolant Thru		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Carbide	End Coolant	55° Diamond	ID Boring Bar	\$231.53
E06-SDUPL-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.375	0.573	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	5°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$231.53
E06-SDUPR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.375	0.573	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	5°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$231.53
E06-STFCL-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	0°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	10°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53
E06-STFCR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	0°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	10°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53
E06-STFPL-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53
E06-STFPR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53
E06-STUCL-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	-3°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	10°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53
E06-STUCR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	-3°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	10°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53
E06-STUNL-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM	17°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53
E06-STUNR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM	17°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53
E06-STUPL-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
E06-STUPR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$231.53
E06-SWLCR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.447	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$231.53
E06-SWLCR-2-218	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.218	0.416	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	15°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$231.53
E06-SWLPL-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	-5°	Coolant Thru		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM	6°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$231.53
E06-SWLPR-2	3/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	-5°	Coolant Thru		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM	6°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$231.53
E08-CTFPL-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	0°	Coolant Thru	CK-27/STC-27		TPG-221	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42
E08-CTFPR-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	0°	Coolant Thru	CK-27/STC-27		TPG-221	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42
E08-LSER-3	1/2 Ø STUBBY Carbide Laydown Thread Bar With Coolant	Right	0.5	5"	0.39	0.650	0°	Coolant Thru		MS-1155	LT16	60° Triangle	STUBBY	NTM	18°	Carbide	End Coolant	Laydown Thread	OD/ID Threading	\$273.42
E08-NKLCLO5	1/2 Ø STUBBY Carbide Profile Bar With Coolant	Left	0.5	5"	0.375	0.670	-5°	Coolant Thru	CM-105/S-518		NPGR-51R	55° Rhomboid	STUBBY	NTM	5°	Carbide	End Coolant	Profiling	OD/ID Profiling	\$331.85
E08-NKLCRO5	1/2 Ø STUBBY Carbide Profile Bar With Coolant	Right	0.5	5"	0.375	0.670	-5°	Coolant Thru	CM-106/S-518		NPGR-51L	55° Rhomboid	STUBBY	NTM	5°	Carbide	End Coolant	Profiling	OD/ID Profiling	\$331.85
E08-SCLCL-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	12°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$273.42
E08-SCLCL-3	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	12°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$273.42
E08-SCLCR-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	12°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$273.42
E08-SCLCR-3	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	12°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$273.42
E08-SCLPL-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	6°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$273.42

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
E08-SCLPL-3	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$273.42
E08-SCLPR-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	6°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$273.42
E08-SCLPR-3	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$273.42
E08-SDUCL-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.437	0.697	-3°	Coolant Thru		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM	10°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$273.42
E08-SDUCR-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.437	0.697	-3°	Coolant Thru		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM	10°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$273.42
E08-SDUPL-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.437	0.697	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	2°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$273.42
E08-SDUPR-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.437	0.697	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	2°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$273.42
E08-STFCL-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	0°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	9°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42
E08-STFCR-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	0°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	9°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42
E08-STFPL-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	4°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42
E08-STFPR-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	4°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42
E08-STUCL-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-3°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42
E08-STUCR-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-3°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42
E08-STUNL-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM	13°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42
E08-STUNR-2	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM	13°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$273.42

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>E08-STUPL-2</b>	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	7°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$273.42</b>
<b>E08-STUPR-2</b>	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	7°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$273.42</b>
<b>E08-SWLCR-2</b>	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	12°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	<b>\$273.42</b>
<b>E08-SWLPL-2</b>	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-5°	Coolant Thru		M3-1153	WPMT-21.51	80° Trigon	STUBBY	NTM	4°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	<b>\$273.42</b>
<b>E08-SWLPR-2</b>	1/2 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		M3-1153	WPMT-21.51	80° Trigon	STUBBY	NTM	4°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	<b>\$273.42</b>
<b>E10-CTFPL-2</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	0°	Coolant Thru	CK-19/STC-9		TPG-221	60° Triangle	STUBBY	NTM	3°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$380.36</b>
<b>E10-CTFPR-2</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	0°	Coolant Thru	CK-19/STC-9		TPG-221	60° Triangle	STUBBY	NTM	3°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$380.36</b>
<b>E10-LSER-3</b>	5/8 Ø STUBBY Carbide Laydown Thread Bar With Coolant	Right	0.625	7"	0.439	0.762	0°	Coolant Thru		MS-1155	LT16	60° Triangle	STUBBY	NTM	16°	Carbide	End Coolant	Laydown Thread	OD/ID Threading	<b>\$380.36</b>
<b>E10-MWLN-3</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.438	0.761	-5°	Coolant Thru	CK-5/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide	End Coolant	Clamp	ID Boring Bar	<b>\$380.36</b>
<b>E10-NKLC05</b>	5/8 Ø STUBBY Carbide Profile Bar With Coolant	Left	0.625	7"	0.5	0.870	-5°	Coolant Thru	CM-71/S-524		NPGR-51R	55° Rhomboid	STUBBY	NTM	5°	Carbide	End Coolant	Profiling	OD/ID Profiling	<b>\$431.08</b>
<b>E10-NKLCR05</b>	5/8 Ø STUBBY Carbide Profile Bar With Coolant	Right	0.625	7"	0.5	0.870	-5°	Coolant Thru	CM-79/S-524		NPGR-51L	55° Rhomboid	STUBBY	NTM	5°	Carbide	End Coolant	Profiling	OD/ID Profiling	<b>\$431.08</b>
<b>E10-SCLCL-2</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	7°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$380.36</b>
<b>E10-SCLCL-3</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	7°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$380.36</b>
<b>E10-SCLCR-2</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM	7°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$380.36</b>
<b>E10-SCLCR-3</b>	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	7°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$380.36</b>

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
E10-SCLPL-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	4°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$380.36
E10-SCLPL-3	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	4°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$380.36
E10-SCLPR-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	4°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$380.36
E10-SCLPR-3	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	4°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$380.36
E10-SDUCL-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.5	0.823	-3°	Coolant Thru		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM	8°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$380.36
E10-SDUCR-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.5	0.823	-3°	Coolant Thru		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM	8°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$380.36
E10-SDUPL-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.5	0.823	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	2°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$380.36
E10-SDUPR-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.5	0.823	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM	2°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$380.36
E10-STFCL-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	0°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STFCR-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	0°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STFPL-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	5°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STFPR-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	5°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STUCL-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-3°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STUCL-3	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-3°	Coolant Thru		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STUCR-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-3°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
E10-STUCR-3	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-3°	Coolant Thru		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STUNL-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM	12°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STUNR-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM	12°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STUPL-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	0°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-STUPR-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM	0°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$380.36
E10-SWLCR-2	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.375	0.697	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM	10°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$380.36
E10-SWLCR-3	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.375	0.697	-5°	Coolant Thru		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM	10°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$380.36
E10-SWLPL-3	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM	3°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$380.36
E10-SWLPR-3	5/8 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM	3°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$380.36
E12-CTFPL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	0°	Coolant Thru	CK-7/STC-9		TPG-322	60° Triangle	STUBBY	NTM	0°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-CTFPR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	0°	Coolant Thru	CK-7/STC-9		TPG-322	60° Triangle	STUBBY	NTM	0°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-LSER-3	3/4 Ø STUBBY Carbide Laydown Thread Bar With Coolant	Right	0.75	7"	0.51	0.895	0°	Coolant Thru		MS-1155	LT16	60° Triangle	STUBBY	NTM	14°	Carbide	End Coolant	Laydown Thread	OD/ID Threading	\$504.95
E12-MWLNL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-5°	Coolant Thru	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide	End Coolant	Clamp	ID Boring Bar	\$504.95
E12-MWLNR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide	End Coolant	Clamp	ID Boring Bar	\$504.95
E12-MWLNR-33	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru	CK-7/STC-9	NL-33	WNMG-332	80° Trigon	STUBBY	NTM		Carbide	End Coolant	Clamp	ID Boring Bar	\$504.95

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
E12-NKLCLO5	3/4 Ø STUBBY Carbide Profile Bar With Coolant	Left	0.75	7"	0.562	1.000	-5°	Coolant Thru	CM-68/S-524		NPGR-51R	55° Rhomboid	STUBBY	NTM	5°	Carbide	End Coolant	Profiling	OD/ID Profiling	\$567.79
E12-NKLCRO5	3/4 Ø STUBBY Carbide Profile Bar With Coolant	Right	0.75	7"	0.562	1.000	-5°	Coolant Thru	CM-68/S-524		NPGR-51L	55° Rhomboid	STUBBY	NTM	5°	Carbide	End Coolant	Profiling	OD/ID Profiling	\$567.79
E12-SCLCL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$504.95
E12-SCLCR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$504.95
E12-SCLPL-2	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM	2°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$504.95
E12-SCLPL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	3°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$504.95
E12-SCLPR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	3°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$504.95
E12-SDUCL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.625	1.010	-3°	Coolant Thru		5513-020-09	DCMT-32.52	55° Rhomboid	STUBBY	NTM	6°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$504.95
E12-SDUCR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.625	1.010	-3°	Coolant Thru		5513-020-09	DCMT-32.52	55° Rhomboid	STUBBY	NTM	6°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$504.95
E12-SDUPL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.562	0.947	-3°	Coolant Thru		MS-1155	DPMT-32.52	55° Rhomboid	STUBBY	NTM	2°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$504.95
E12-SDUPR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.562	0.947	-3°	Coolant Thru		MS-1155	DPMT-32.52	55° Rhomboid	STUBBY	NTM	2°	Carbide	End Coolant	55° Diamond	ID Boring Bar	\$504.95
E12-STFCL-2	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	0°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STFCL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	0°	Coolant Thru		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STFCR-2	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	0°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STFCR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	0°	Coolant Thru		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
E12-STFPL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	0°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM	2°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STFPR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	0°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM	2°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STUCL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-3°	Coolant Thru		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STUCR-2	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-3°	Coolant Thru		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STUCR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-3°	Coolant Thru		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	6°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STUNL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-3°	Coolant Thru		S-944	T-321P	60° Triangle	STUBBY	NTM	10°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STUNR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-3°	Coolant Thru		S-944	T-321P	60° Triangle	STUBBY	NTM	10°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STUPL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-3°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM	3°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-STUPR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-3°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM	3°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$504.95
E12-SWLCR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM	8°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$504.95
E12-SWLPL-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-5°	Coolant Thru		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM	2°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$504.95
E12-SWLPR-3	3/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM	2°	Carbide	End Coolant	80° Trigon w/Cool	ID Boring Bar	\$504.95
E16-CTFPL-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Left	1	7"	0.625	1.135	0°	Coolant Thru	CK-20/STC-11		TPG-322	60° Triangle	STUBBY	NTM	0°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$664.81
E16-CTFPR-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	0°	Coolant Thru	CK-20/STC-11		TPG-322	60° Triangle	STUBBY	NTM	0°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$664.81
E16-DCLNL-4	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Left	1	7"	0.625	1.135	-5°	Coolant Thru	Ck-7/STC-9	LP-59	CNMG 432	80° Rhomboid	STUBBY	NTM		Carbide	End Coolant	Clamp	ID Boring Bar	\$664.81



## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
E16-DCLNR-4	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru	Ck-7/STC-9	LP-59	CNMG 432	80° Rhomboid	STUBBY	NTM		Carbide	End Coolant	Clamp	ID Boring Bar	\$664.81
E16-MCLNL-4	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Left	1	7"	0.625	1.135	-5°	Coolant Thru	CK-20/STC-11	NL-44	CNMG-432	80° Rhomboid	STUBBY	NTM	14°	Carbide	End Coolant	Clamp	ID Boring Bar	\$664.81
E16-MCLNR-4	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru	CK-20/STC-11	NL-44	CNMG-432	80° Rhomboid	STUBBY	NTM	14°	Carbide	End Coolant	Clamp	ID Boring Bar	\$664.81
E16-MTLNR-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru	Ck-7/STC-9	NL-33L	TNGA-332	60° Triangle	STUBBY	NTM	12°	Carbide	End Coolant	Clamp	ID Boring Bar	\$664.81
E16-MWLNL-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Left	1	7"	0.625	1.135	-5°	Coolant Thru	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide	End Coolant	Clamp	ID Boring Bar	\$664.81
E16-MWLNR-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM	14°	Carbide	End Coolant	Clamp	ID Boring Bar	\$664.81
E16-MWLNR-4	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru	CK-20/STC-11	NL-44	WNMG-432	80° Trigon	STUBBY	NTM	14°	Carbide	End Coolant	Clamp	ID Boring Bar	\$664.81
E16-SCLCL-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Left	1	7"	0.625	1.135	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	6°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$664.81
E16-SCLCL-4	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Left	1	7"	0.625	1.135	-5°	Coolant Thru		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$664.81
E16-SCLCR-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM	6°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$664.81
E16-SCLCR-4	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$664.81
E16-SCLPL-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Left	1	7"	0.625	1.135	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$664.81
E16-SCLPR-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM	8°	Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	\$664.81
E16-STUCR-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-3°	Coolant Thru		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM	3°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$664.81
E16-STUNL-3	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Left	1	7"	0.625	1.135	-3°	Coolant Thru		S-944	T-321P	60° Triangle	STUBBY	NTM	8°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	\$664.81

## CARBIDE BORING BARS

Catalog Number	Description	Hand of Cut	Ø Bar Diameter	OAL Length	F Dim C/L to Insert edge	Min Bore	Lead Angle	Type	Clamp/Screw	Insert Screw	Insert	Insert Shape	Series	Brand	Radial Relief Angle	Shank Material	Coolant Port	Image	Category	Price
<b>E16-STUNR-3</b>	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-3°	Coolant Thru		S-944	T-321P	60° Triangle	STUBBY	NTM	8°	Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$664.81</b>
<b>E16-STUPR-3</b>	1.0 Ø STUBBY Carbide Boring Bar With Coolant	Right	1	7"	0.625	1.135	-3°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Carbide	End Coolant	60° Triangle w/Cool	ID Boring Bar	<b>\$664.81</b>
<b>E20-MCLNR-4</b>	1-1/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	1.25	12"	0.765	1.470	-5°	Coolant Thru	CK-20/STC-11	NL-44	CNMG-432	80° Rhomboid	STUBBY	NTM	14°	Carbide	End Coolant	Clamp	ID Boring Bar	<b>\$1,431.15</b>
<b>E20-MWLN-4</b>	1-1/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	1.25	12"	0.765	1.470	-5°	Coolant Thru	CK-20/STC-11	NL-44	WNMG-432	80° Trigon	STUBBY	NTM		Carbide	End Coolant	Clamp	ID Boring Bar	<b>\$1,431.15</b>
<b>E20-SCLCL-4</b>	1-1/4 Ø STUBBY Carbide Boring Bar With Coolant	Left	1.25	12"	0.765	1.470	-5°	Coolant Thru		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$1,431.15</b>
<b>E20-SCLCR-4</b>	1-1/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	1.25	12"	0.765	1.470	-5°	Coolant Thru		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$1,431.15</b>
<b>E20-SCLPR-3</b>	1-1/4 Ø STUBBY Carbide Boring Bar With Coolant	Right	1.25	12"	0.765	1.470	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Carbide	End Coolant	80° Diamond w/Cool	ID Boring Bar	<b>\$1,431.15</b>