



ONE STOP TOOLING AND MACHINE SHOP

PRODUCT AND PRICE LISTS

140 NE LIBERTY ST, MINNEAPOLIS, MN 55432 | 763-780-1420 | SALES@NTMINC.COM

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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	\$98.00
NTM size -05	5/16"	SOLID	\$98.00
NTM size -06	3/8"	SOLID	\$98.00
NTM size -08	1/2"	SOLID	\$101.00
NTM size -10	5/8"	SOLID	\$130.00
NTM size -12	3/4"	SOLID	\$156.00
NTM size -16	1"	SOLID	\$187.00
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	\$114.00
NTM size -05	5/16"	COOLANT THRU	\$114.00
NTM size -06	3/8"	COOLANT THRU	\$114.00
NTM size -08	1/2"	COOLANT THRU	\$117.00
NTM size -10	5/8"	COOLANT THRU	\$151.00
NTM size -12	3/4"	COOLANT THRU	\$177.00
NTM size -16	1"	COOLANT THRU	\$218.00
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
C03-SWLCR-1.2	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	\$190.05
C03-SWLPL-1.5	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	\$190.05
C03-SWLPR-1.5	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	\$190.05
C04-SWLCR-1.2	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	\$190.05
C04-SWLPL-1.5	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	\$190.05
C04-SWLPR-1.5	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	\$190.05
C05-SCLCL-2	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	\$190.05
C05-SCLCR-2	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	\$190.05
C05-SCLPL-1.8	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	\$190.05
C05-SCLPR-1.8	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	\$190.05
C05-SCLPR-2	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	\$190.05
C05-SWLCR-1.5	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	\$190.05
C05-SWLCR-2	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	\$190.05
C05-SWLPL-1.5	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	\$190.05
C05-SWLPR-1.5	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	\$190.05

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
C06-SCLCL-2	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	\$190.05
C06-SCLCR-2	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	\$190.05
C06-SCLPL-2	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	\$190.05
C06-SCLPR-2	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	\$190.05
C06-SDUCL-2	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	\$190.05
C06-SDUCR-2	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	\$190.05
C06-SDUPL-2	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	\$190.05
C06-SDUPR-2	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	\$190.05
C06-STFCL-2	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	\$190.05
C06-STFCR-2	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	\$190.05
C06-STFPL-2	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	\$190.05
C06-STFPR-2	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	\$190.05
C06-STUCL-2	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	\$190.05
C06-STUCR-2	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	\$190.05
C06-STUNL-2	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	\$190.05

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
C06-STUNR-2	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	\$190.05
C06-STUPL-2	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	\$190.05
C06-STUPR-2	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	\$190.05
C06-SWLCR-2	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	\$190.05
C06-SWLCR-2-218	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	\$190.05
C06-SWLPL-2	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	\$190.05
C06-SWLPR-2	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	\$190.05
C08-CTFPL-2	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	\$225.75
C08-CTFPR-2	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	\$225.75
C08-LSER-3	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	\$225.75
C08-NKLCL05	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	\$274.05
C08-NKLCR05	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	\$274.05
C08-SCLCL-2	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	\$225.75
C08-SCLCL-3	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	\$225.75
C08-SCLCR-2	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	\$225.75

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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75
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	\$225.75

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-STUNL-2	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	\$225.75
C08-STUNR-2	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	\$225.75
C08-STUPL-2	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	\$225.75
C08-STUPR-2	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	\$225.75
C08-SWLCR-2	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	\$225.75
C08-SWLPL-2	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	\$225.75
C08-SWLPR-2	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	\$225.75
C10-CTFPL-2	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	\$322.35
C10-CTFPR-2	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	\$322.35
C10-LSER-3	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	\$322.35
C10-MWLNR-3	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	\$322.35
C10-NKLCLO5	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	\$369.60
C10-NKLCR05	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	\$369.60
C10-SCLCL-2	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	\$322.35
C10-SCLCL-3	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	\$322.35

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
C10-SCLCR-2	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	\$322.35
C10-SCLCR-3	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	\$322.35
C10-SCLPL-2	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	\$322.35
C10-SCLPL-3	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	\$322.35
C10-SCLPR-2	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	\$322.35
C10-SCLPR-3	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	\$322.35
C10-SDUCL-2	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	\$322.35
C10-SDUCR-2	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	\$322.35
C10-SDUPL-2	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	\$322.35
C10-SDUPR-2	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	\$322.35
C10-STFCL-2	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	\$322.35
C10-STFCR-2	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	\$322.35
C10-STFPL-2	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	\$322.35
C10-STFPR-2	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	\$322.35
C10-STUCL-2	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	\$322.35

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
C10-STUCL-3	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	\$322.35
C10-STUCR-2	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	\$322.35
C10-STUCR-3	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	\$322.35
C10-STUNL-2	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	\$322.35
C10-STUNR-2	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	\$322.35
C10-STUPL-2	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	\$322.35
C10-STUPR-2	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	\$322.35
C10-SWLCR-2	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	\$322.35
C10-SWLCR-3	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	\$322.35
C10-SWLPL-3	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	\$322.35
C10-SWLPR-3	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	\$322.35
C12-CTFPL-3	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	\$432.60
C12-CTFPR-3	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	\$432.60
C12-LSER-3	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	\$432.60
C12-MWLNL-3	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	\$432.60

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
C12-MWLN-3	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	\$432.60
C12-MWLN-33	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	\$432.60
C12-NKLC05	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	\$486.15
C12-NKLCR05	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	\$486.15
C12-SCLCL-3	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	\$432.60
C12-SCLCR-3	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	\$432.60
C12-SCLPL-2	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	\$432.60
C12-SCLPL-3	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	\$432.60
C12-SCLPR-3	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	\$432.60
C12-SDUCL-3	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	\$432.60
C12-SDUCR-3	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	\$432.60
C12-SDUPL-3	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	\$432.60
C12-SDUPR-3	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	\$432.60
C12-STFCL-2	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	\$432.60
C12-STFCL-3	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	\$432.60

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
C12-STFCR-2	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	\$432.60
C12-STFCR-3	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	\$432.60
C12-STFPL-3	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	\$432.60
C12-STFPR-3	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	\$432.60
C12-STUCL-3	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	\$432.60
C12-STUCR-2	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	\$432.60
C12-STUCR-3	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	\$432.60
C12-STUNL-3	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	\$432.60
C12-STUNR-3	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	\$432.60
C12-STUPL-3	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	\$432.60
C12-STUPR-3	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	\$432.60
C12-SWLCR-3	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	\$432.60
C12-SWLPL-3	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	\$432.60
C12-SWLPR-3	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	\$432.60
C16-CTFPL-3	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	\$567.00

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
C16-CTFPR-3	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	\$567.00
C16-DCLNL-4	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	\$567.00
C16-DCLNR-4	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	\$567.00
C16-MCLNL-4	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	\$567.00
C16-MCLNR-4	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	\$567.00
C16-MTLNR-3	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	\$567.00
C16-MWLNL-3	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	\$567.00
C16-MWLNR-3	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	\$567.00
C16-MWLNR-4	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	\$567.00
C16-SCLCL-3	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	\$567.00
C16-SCLCL-4	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	\$567.00
C16-SCLCR-3	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	\$567.00
C16-SCLCR-4	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	\$567.00
C16-SCLPL-3	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	\$567.00
C16-SCLPR-3	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	\$567.00

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
C16-STUCR-3	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	\$567.00
C16-STUNL-3	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	\$567.00
C16-STUNR-3	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	\$567.00
C16-STUPR-3	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	\$567.00
C20-MCLNR-4	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	\$1,268.40
C20-MWLN-4	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	\$1,268.40
C20-SCLCL-4	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	\$1,268.40
C20-SCLCR-4	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	\$1,268.40
C20-SCLPR-3	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	\$1,268.40
CSTJOL 062	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	\$190.05
CSTJOL 062C	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	\$220.50
CSTJOL 082	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	\$225.75
CSTJOL 082C	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	\$260.40
CSTJOL 102	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	\$322.35
CSTJOL 102C	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	\$361.20

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
CSTJOL 123	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	\$432.60
CSTJOL 123C	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	\$480.90
CSTJOR 062	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	\$190.05
CSTJOR 062C	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	\$220.50
CSTJOR 082	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	\$225.75
CSTJOR 082C	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	\$260.40
CSTJOR 102	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	\$322.35
CSTJOR 102C	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	\$362.25
CSTJOR 123	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	\$432.60
CSTJOR 123C	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	\$480.90
CSWLO504L	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	\$190.05
CSWLO504LC	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	\$220.50
CSWLO504R	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	\$190.05
CSWLO504RC	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	\$220.50
CSWLOR 055	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	\$190.05

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
CSWLOR 062	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	\$190.05
CSWLOR 062C	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	\$220.50
CSWLOR 065	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	\$190.05
CSWLOR 065C	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	\$220.50
CSWLOR 066	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	\$190.05
CSWLOR 066C	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	\$220.50
CSWLOR 070	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	\$190.05
CSWLOR 070C	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	\$220.50
CSWLOR 082	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	\$225.75
CSWLOR 082C	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	\$260.40
CSWLOR 102	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	\$322.35
CSWLOR 102C	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	\$362.25
CSWLOR 103	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	\$322.35
CSWLOR 103C	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	\$362.25
CSWLOR 123	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	\$432.60

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
CSWLOR 123C	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	\$480.90
E04-SWLCR-1.2	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	\$220.50
E04-SWLPL-1.5	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	\$220.50
E04-SWLPR-1.5	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	\$220.50
E05-SCLCL-2	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	\$220.50
E05-SCLCR-2	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	\$220.50
E05-SCLPL-1.8	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	\$220.50
E05-SCLPR-1.8	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	\$220.50
E05-SCLPR-2	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	\$220.50
E05-SWLCR-1.5	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	\$220.50
E05-SWLCR-2	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	\$220.50
E05-SWLPL-1.5	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	\$220.50
E05-SWLPR-1.5	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	\$220.50
E06-SCLCL-2	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	\$220.50
E06-SCLCR-2	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	\$220.50

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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50

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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$220.50
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	\$260.40
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	\$260.40
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	\$260.40
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	\$316.05
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	\$316.05
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40

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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40
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	\$260.40

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-STUPL-2	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	\$260.40
E08-STUPR-2	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	\$260.40
E08-SWLCR-2	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	\$260.40
E08-SWLPL-2	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	\$260.40
E08-SWLPR-2	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	\$260.40
E10-CTFPL-2	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	\$362.25
E10-CTFPR-2	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	\$362.25
E10-LSER-3	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	\$362.25
E10-MWLN-3	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	\$362.25
E10-NKLC05	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	\$410.55
E10-NKLCR05	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	\$410.55
E10-SCLCL-2	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	\$362.25
E10-SCLCL-3	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	\$362.25
E10-SCLCR-2	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	\$362.25
E10-SCLCR-3	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	\$362.25

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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25

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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$362.25
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90

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-NKLC05	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	\$540.75
E12-NKLCR05	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	\$540.75
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90

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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$480.90
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	\$633.15
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	\$633.15
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	\$633.15

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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15
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	\$633.15

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-STUNR-3	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	\$633.15
E16-STUPR-3	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	\$633.15
E20-MCLNR-4	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	\$1,298.00
E20-MWLN-4	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	\$1,298.00
E20-SCLCL-4	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	\$1,298.00
E20-SCLCR-4	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	\$1,298.00
E20-SCLPR-3	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	\$1,298.00