



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	\$237.00
41102-90	2" Magnetic V-Block	2"	.062"Ø-1.250"Ø	NTM	\$377.00

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																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$181.00
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	\$215.00
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	\$215.00
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 Thread-ing	\$215.00
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	\$261.00
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	\$261.00
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	\$215.00
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	\$215.00
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	\$215.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00

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	2022 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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$215.00
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	\$307.00
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	\$307.00
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	\$307.00
C10-MWLN-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	\$307.00
C10-NKLC05	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	\$352.00
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	\$352.00
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	\$307.00
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	\$307.00

CARBIDE BORING BARS																				
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Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$307.00
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	\$412.00
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	\$412.00
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 Thread-ing	\$412.00
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	\$412.00

CARBIDE BORING BARS																				
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Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
C12-MWLNR-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	\$412.00
C12-MWLNR-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	\$412.00
C12-NKLCL05	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	\$463.00
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	\$463.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00

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	2022 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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$412.00
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	\$540.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00

CARBIDE BORING BARS																				
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Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 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	\$540.00
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	\$540.00
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	\$540.00
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	\$540.00
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	\$181.00
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	\$210.00
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	\$215.00
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	\$248.00
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	\$307.00
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	\$344.00
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	\$412.00
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	\$458.00
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	\$181.00
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	\$210.00
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	\$215.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
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	\$248.00
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	\$307.00
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	\$345.00
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	\$412.00
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	\$458.00
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	\$181.00
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	\$210.00
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	\$181.00
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	\$210.00
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	\$181.00
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	\$181.00
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	\$210.00
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	\$181.00
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	\$210.00
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	\$181.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
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	\$210.00
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	\$181.00
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	\$210.00
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	\$215.00
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	\$248.00
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	\$307.00
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	\$345.00
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	\$307.00
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	\$345.00
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	\$412.00
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	\$458.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00

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	2022 Price
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00

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	2022 Price
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00
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	\$210.00

CARBIDE BORING BARS																				
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Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
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	\$248.00
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	\$248.00
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	\$248.00
E08-NKLCL05	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	\$301.00
E08-NKLCR05	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	\$301.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00

CARBIDE BORING BARS																				
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Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00
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	\$248.00

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	2022 Price
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$391.00
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	\$391.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00

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	2022 Price
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	\$345.00
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	\$345.00
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	\$345.00
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	\$345.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
E12-NKLCL05	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	\$515.00
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	\$515.00
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	\$458.00
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	\$458.00
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	\$458.00

CARBIDE BORING BARS																				
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Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$458.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00

CARBIDE BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00
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	\$603.00

STEEL 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	2022 Price
A05-SCLCL-2	5/16 Ø STUBBY Steel Boring Bar With Coolant	Left	0.312	4.5"	0.219	0.385	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$118.00
A05-SCLCR-2	5/16 Ø STUBBY SteelBoring Bar With Coolant	Right	0.312	4.5"	0.219	0.385	-5°	Coolant Thru		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$118.00
A06-SCLCL-2	3/8 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$118.00
A06-SCLCR-2	3/8 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$118.00
A06-SCLPL-2	3/8 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$118.00
A06-SCLPR-2	3/8 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$118.00
A06-SDUCL-2	3/8 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$118.00
A06-SDUCR-2	3/8 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$118.00
A06-SDUPL-2	3/8 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$118.00
A06-SDUPR-2	3/8 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$118.00
A06-STFCL-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
A06-STFCR-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
A06-STFPL-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
A06-STFPR-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
A06-STUCL-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
A06-STUCR-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
A06-STUNL-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
A06-STUNR-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
A06-STUPL-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
A06-STUPR-2	3/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
A06-SWLPL-2	3/8 Ø STUBBY Steel 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		Steel		80° Trigon w/ Cool	ID Boring Bar	\$118.00
A06-SWLPR-2	3/8 Ø STUBBY Steel 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		Steel		80° Trigon w/ Cool	ID Boring Bar	\$118.00
A08-CTFPL-2	1/2 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-CTFPR-2	1/2 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-NKLCL05	1/2 Ø STUBBY Steel 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		Steel		Profiling	OD/ID Profiling	\$142.00
A08-NKLCR05	1/2 Ø STUBBY Steel 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		Steel		Profiling	OD/ID Profiling	\$142.00
A08-SCLCL-2	1/2 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$124.00
A08-SCLCL-3	1/2 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$124.00
A08-SCLCR-2	1/2 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$124.00
A08-SCLCR-3	1/2 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$124.00

STEEL 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	2022 Price
A08-SCLPL-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$124.00
A08-SCLPL-3	1/2 Ø STUBBY Steel Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$124.00
A08-SCLPR-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$124.00
A08-SCLPR-3	1/2 Ø STUBBY Steel Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$124.00
A08-SDUCL-2	1/2 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$124.00
A08-SDUCR-2	1/2 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$124.00
A08-SDUPL-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Left	0.5	5"	0.437	0.697	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$124.00
A08-SDUPR-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Right	0.5	5"	0.437	0.697	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$124.00
A08-STFCL-2	1/2 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-STFCR-2	1/2 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-STFPL-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-STFPR-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-STUCL-2	1/2 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-STUCR-2	1/2 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-STUNL-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
A08-STUNR-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-STUPL-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-STUPR-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
A08-SWLPL-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/Cool	ID Boring Bar	\$124.00
A08-SWLPR-2	1/2 Ø STUBBY Steel Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/Cool	ID Boring Bar	\$124.00
A10-CTFPL-2	5/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-CTFPR-2	5/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-MWLN-3	5/8 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$137.00
A10-NKLCLO5	5/8 Ø STUBBY Steel 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		Steel		Profiling	OD/ID Profiling	\$159.00
A10-NKLCRO5	5/8 Ø STUBBY Steel 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		Steel		Profiling	OD/ID Profiling	\$159.00
A10-SCLCL-2	5/8 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$137.00
A10-SCLCL-3	5/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-5°	Coolant Thru		5513-020-03	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$137.00
A10-SCLCR-2	5/8 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$137.00
A10-SCLCR-3	5/8 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$137.00
A10-SCLPL-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$137.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
A10-SCLPL-3	5/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$137.00
A10-SCLPR-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$137.00
A10-SCLPR-3	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$137.00
A10-SDUCL-2	5/8 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$137.00
A10-SDUCR-2	5/8 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$137.00
A10-SDUPL-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.625	7"	0.5	0.823	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$137.00
A10-SDUPR-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.5	0.823	-3°	Coolant Thru		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$137.00
A10-STFCL-2	5/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STFCR-2	5/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STFPL-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STFPR-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	0°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STUCL-2	5/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STUCL-3	5/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STUCR-2	5/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STUCR-3	5/8 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00

STEEL 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	2022 Price
A10-STUNL-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STUNR-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-3°	Coolant Thru		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STUPL-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-STUPR-2	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-3°	Coolant Thru		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
A10-SWLPL-3	5/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/Cool	ID Boring Bar	\$137.00
A10-SWLPR-3	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.406	0.729	-5°	Coolant Thru		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/Cool	ID Boring Bar	\$137.00
A12-CTFPL-3	3/4 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-CTFPR-3	3/4 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-MWLNL-3	3/4 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$152.00
A12-MWLNR-3	3/4 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$152.00
A12-MWLNR-33	3/4 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$152.00
A12-NKLCL05	3/4 Ø STUBBY Steel 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		Steel		Profiling	OD/ID Profiling	\$175.00
A12-NKLCR05	3/4 Ø STUBBY Steel 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		Steel		Profiling	OD/ID Profiling	\$175.00
A12-SCLCL-3	3/4 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$152.00
A12-SCLCR-3	3/4 Ø STUBBY Steel 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		Steel		80° Diamond w/Cool	ID Boring Bar	\$152.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
A12-SCLPL-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$152.00
A12-SCLPR-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$152.00
A12-SDUCL-3	3/4 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$152.00
A12-SDUCR-3	3/4 Ø STUBBY Steel 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		Steel		55° Diamond	ID Boring Bar	\$152.00
A12-SDUPL-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Left	0.75	7"	0.562	0.947	-3°	Coolant Thru		MS-1155	DPMT-32.52	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$152.00
A12-SDUPR-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Right	0.75	7"	0.562	0.947	-3°	Coolant Thru		MS-1155	DPMT-32.52	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$152.00
A12-STFCL-3	3/4 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STFCL-2	3/4 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STFCR-3	3/4 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STFCR-2	3/4 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STFPL-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	0°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STFPR-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	0°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STUCL-3	3/4 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STUCR-2	3/4 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STUCR-3	3/4 Ø STUBBY Steel 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		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
A12-STUNL-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-3°	Coolant Thru		S-944	T-321P	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STUNR-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-3°	Coolant Thru		S-944	T-321P	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STUPL-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-3°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-STUPR-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-3°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
A12-SWLPL-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-5°	Coolant Thru		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/Cool	ID Boring Bar	\$152.00
A12-SWLPR-3	3/4 Ø STUBBY Steel Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/Cool	ID Boring Bar	\$152.00
A16-CTFPL-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Left	1	7"	0.625	1.135	0°	Coolant Thru	CK-20/STC-11		TPG-322	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$186.00
A16-CTFPR-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Right	1	7"	0.625	1.135	0°	Coolant Thru	CK-20/STC-11		TPG-322	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$186.00
A16-MCLNL-4	1.0 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$186.00
A16-MCLNR-4	1.0 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$186.00
A16-MTLNR-3	1.0 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$186.00
A16-MWLNL-3	1.0 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$186.00
A16-MWLNR-3	1.0 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$186.00
A16-MWLNR-4	1.0 Ø STUBBY Steel 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		Steel		Clamp	ID Boring Bar	\$186.00
A16-SCLCL-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Left	1	7"	0.625	1.135	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$186.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
A16-SCLCL-4	1.0 Ø STUBBY Steel Boring Bar With Coolant	Left	1	7"	0.625	1.135	-5°	Coolant Thru		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$186.00
A16-SCLCR-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$186.00
A16-SCLCR-4	1.0 Ø STUBBY Steel Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$186.00
A16-SCLPL-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Left	1	7"	0.625	1.135	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$186.00
A16-SCLPR-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Right	1	7"	0.625	1.135	-5°	Coolant Thru		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond w/Cool	ID Boring Bar	\$186.00
A16-STUCR-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Right	1	7"	0.625	1.135	-3°	Coolant Thru		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$186.00
A16-STUNL-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Left	1	7"	0.625	1.135	-3°	Coolant Thru		S-944	T-321P	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$186.00
A16-STUNR-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Right	1	7"	0.625	1.135	-3°	Coolant Thru		S-944	T-321P	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$186.00
A16-STUPR-3	1.0 Ø STUBBY Steel Boring Bar With Coolant	Right	1	7"	0.625	1.135	-3°	Coolant Thru		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$186.00
S05-SCLCL-2	5/16 Ø STUBBY Steel Boring Bar	Left	0.312	4-1/2"	0.219	0.385	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$96.00
S05-SCLCR-2	5/16 Ø STUBBY Steel Boring Bar	Right	0.312	4-1/2"	0.219	0.385	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$96.00
S06-SCLCL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$96.00
S06-SCLCR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$96.00
S06-SCLPL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$96.00
S06-SCLPR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$96.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
S06-SDUCL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.375	0.573	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$96.00
S06-SDUCR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.375	0.573	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$96.00
S06-SDUPL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.375	0.573	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$96.00
S06-SDUPR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.375	0.573	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$96.00
S06-STFCL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.25	0.448	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-STFCR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-STFPL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.25	0.448	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-STFPR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-STUCL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-STUCR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-STUNL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-STUNR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-STUPL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-STUPR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S06-SWLPL-2	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-5°	Solid		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$96.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
S06-SWLPR-2	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-5°	Solid		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$96.00
S08-CTFPL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	0°	Solid	CK-27/STC-27		TPG-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-CTFPR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	0°	Solid	CK-27/STC-27		TPG-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-NKLCL05	1/2 Ø STUBBY Steel Profile Bar	Left	0.5	5"	0.375	0.670	-5°	Solid	CM-105/S-518		NPGR-51R	55° Rhomboid	STUBBY	NTM		Steel		Profiling	OD/ID Profiling	\$119.00
S08-NKLCR05	1/2 Ø STUBBY Steel Profile Bar	Right	0.5	5"	0.375	0.670	-5°	Solid	CM-106/S-518		NPGR-51L	55° Rhomboid	STUBBY	NTM		Steel		Profiling	OD/ID Profiling	\$119.00
S08-SCLCL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$104.00
S08-SCLCL-3	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$104.00
S08-SCLCR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$104.00
S08-SCLCR-3	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$104.00
S08-SCLPL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$104.00
S08-SCLPL-3	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$104.00
S08-SCLPR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$104.00
S08-SCLPR-3	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$104.00
S08-SDUCL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.437	0.697	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$104.00
S08-SDUCR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.437	0.697	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$104.00

STEEL 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	2022 Price
S08-SDUPL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.437	0.697	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$104.00
S08-SDUPR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.437	0.697	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$104.00
S08-STFCL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-STFCR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-STFPL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-STFPR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-STUCL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-STUCR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-STUNL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-STUNR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-STUPL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-STUPR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S08-SWLPL-2	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	-5°	Solid	MS-1153	MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$104.00
S08-SWLPR-2	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		MS-1153	WPMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$104.00
S10-CTFPL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	0°	Solid	CK-19/STC-9		TPG-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
S10-CTFPR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	0°	Solid	CK-19/STC-9		TPG-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-MWLNR-3	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.438	0.761	-5°	Solid	CK-5/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$118.00
S10-NKLCL05	5/8 Ø STUBBY Steel Profile Bar	Left	0.625	7"	0.5	0.870	-5°	Solid	CM-71/S-524		NPGR-51R	55° Rhomboid	STUBBY	NTM		Steel		Profiling	OD/ID Profiling	\$136.00
S10-NKLCR05	5/8 Ø STUBBY Steel Profile Bar	Right	0.625	7"	0.5	0.870	-5°	Solid	CM-79/S-524		NPGR-51L	55° Rhomboid	STUBBY	NTM		Steel		Profiling	OD/ID Profiling	\$136.00
S10-SCLCL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$118.00
S10-SCLCL-3	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$118.00
S10-SCLCR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		5513-020-03	CCMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$118.00
S10-SCLCR-3	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$118.00
S10-SCLPL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$118.00
S10-SCLPL-3	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		MS-1155	CPMT-32.62	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$118.00
S10-SCLPR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		MS-1153	CPMT-21.51	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$118.00
S10-SCLPR-3	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$118.00
S10-SDUCL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.5	0.823	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$118.00
S10-SDUCR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.5	0.823	-3°	Solid		5513-020-03	DCMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$118.00
S10-SDUPL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.5	0.823	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$118.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
S10-SDUPR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.5	0.823	-3°	Solid		MS-1153	DPMT-21.51	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$118.00
S10-STFCL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STFCR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STFPL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STFPR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	0°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STUCL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STUCL-3	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STUCR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STUCR-3	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STUNL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STUNR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	-3°	Solid		S-930	T-221P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STUPL-2	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-STUPR-2	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	-3°	Solid		MS-1153	TPMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S10-SWLPL-3	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.406	0.729	-5°	Solid		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$118.00
S10-SWLPR-3	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.406	0.729	-5°	Solid		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$118.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
S12-CTFPL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	0°	Solid	CK-7/STC-9		TPG-322	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-CTFPR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	0°	Solid	CK-7/STC-9		TPG-322	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-MWLNL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	-5°	Solid	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$132.00
S12-MWLNR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$132.00
S12-MWLNR-33	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid	CK-7/STC-9	NL-33	WNMG-332	80° Trigon	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$132.00
S12-NKLCL05	3/4 Ø STUBBY Steel Profile Bar	Left	0.75	7"	0.562	1.000	-5°	Solid	CM-68/S-524		NPGR-51R	55° Rhomboid	STUBBY	NTM		Steel		Profiling	OD/ID Profiling	\$153.00
S12-NKLCR05	3/4 Ø STUBBY Steel Profile Bar	Right	0.75	7"	0.562	1.000	-5°	Solid	CM-68/S-524		NPGR-51L	55° Rhomboid	STUBBY	NTM		Steel		Profiling	OD/ID Profiling	\$153.00
S12-SCLCL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$132.00
S12-SCLCR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$132.00
S12-SCLPL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$132.00
S12-SCLPR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$132.00
S12-SDUCL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.625	1.010	-3°	Solid		5513-020-09	DCMT-32.52	55° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$132.00
S12-SDUCR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.625	1.010	-3°	Solid		5513-020-09	DCMT-32.52	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$132.00
S12-SDUPL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.562	0.947	-3°	Solid		MS-1155	DPMT-32.52	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$132.00
S12-SDUPR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.562	0.947	-3°	Solid		MS-1155	DPMT-32.52	55° Rhomboid	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$132.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
S12-STFCL-2	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		55° Diamond	ID Boring Bar	\$132.00
S12-STFCL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	0°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STFCR-2	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	0°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STFCR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	0°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STFPL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	0°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STFPR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	0°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STUCL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STUCR-2	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-3°	Solid		5513-020-03	TCMT-21.51	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STUCR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STUNL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	-3°	Solid		S-944	T-321P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STUNR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-3°	Solid		S-944	T-321P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STUPL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	-3°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-STUPR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-3°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S12-SWLPL-3	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	-5°	Solid		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$132.00
S12-SWLPR-3	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid		MS-1155	WPMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$132.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
S16-CTFPL-3	1.0 Ø STUBBY Steel Boring Bar	Left	1	7"	0.625	1.135	0°	Solid	CK-20/STC-11		TPG-322	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$166.00
S16-CTFPR-3	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	0°	Solid	CK-20/STC-11		TPG-322	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$166.00
S16-MCLNL-4	1.0 Ø STUBBY Steel Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid	CK-20/STC-11	NL-44	CNMG-432	80° Rhomboid	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$166.00
S16-MCLNR-4	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid	CK-20/STC-11	NL-44	CNMG-432	80° Rhomboid	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$166.00
S16-MTLNR-3	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid	Ck-7/STC-9	NL-33L	TNGA-332	60° Triangle	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$166.00
S16-MWLNL-3	1.0 Ø STUBBY Steel Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$166.00
S16-MWLNR-3	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid	CK-6/STC-5	NL-33	WNMG-322	80° Trigon	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$166.00
S16-MWLNR-4	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid	CK-20/STC-11	NL-44	WNMG-432	80° Trigon	STUBBY	NTM		Steel		Clamp	ID Boring Bar	\$166.00
S16-SCLCL-3	1.0 Ø STUBBY Steel Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$166.00
S16-SCLCL-4	1.0 Ø STUBBY Steel Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$166.00
S16-SCLCR-3	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid		5513-020-09	CCMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$166.00
S16-SCLCR-4	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid		5513-020-17	CCMT-432	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$166.00
S16-SCLPL-3	1.0 Ø STUBBY Steel Boring Bar	Left	1	7"	0.625	1.135	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$166.00
S16-SCLPR-3	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-5°	Solid		MS-1155	CPMT-32.52	80° Rhomboid	STUBBY	NTM		Steel		80° Diamond No Cool	ID Boring Bar	\$166.00
S16-STUCR-3	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-3°	Solid		5513-020-09	TCMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$166.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
S16-STUNL-3	1.0 Ø STUBBY Steel Boring Bar	Left	1	7"	0.625	1.135	-3°	Solid		S-944	T-321P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$166.00
S16-STUNR-3	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-3°	Solid		S-944	T-321P	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$166.00
S16-STUPR-3	1.0 Ø STUBBY Steel Boring Bar	Right	1	7"	0.625	1.135	-3°	Solid		MS-1155	TPMT-32.52	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$166.00
S-STJOL 062	3/8 Ø STUBBY Steel Boring Bar	Left	0.375	4-3/4"	0.25	0.448	-2°	Solid		BHF0306R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S-STJOL 062C	3/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.375	4-3/4"	0.25	0.448	-2°	Coolant Thru		BHF0306R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
S-STJOL 082	1/2 Ø STUBBY Steel Boring Bar	Left	0.5	5"	0.312	0.572	-2°	Solid		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S-STJOL 082C	1/2 Ø STUBBY Steel Boring Bar With Coolant	Left	0.5	5"	0.312	0.572	-2°	Coolant Thru		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00
S-STJOL 102	5/8 Ø STUBBY Steel Boring Bar	Left	0.625	7"	0.375	0.698	-2°	Solid		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S-STJOL 102C	5/8 Ø STUBBY Steel Boring Bar With Coolant	Left	0.625	7"	0.375	0.698	-2°	Coolant Thru		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
S-STJOL 123	3/4 Ø STUBBY Steel Boring Bar	Left	0.75	7"	0.5	0.885	-2°	Solid		BFTX0410A	TPGA-332	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S-STJOL 123C	3/4 Ø STUBBY Steel Boring Bar With Coolant	Left	0.75	7"	0.5	0.885	-2°	Coolant Thru		BFTX0410A	TPGA-332	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
S-STJOR 062	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-2°	Solid		BHF0306R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$96.00
S-STJOR 062C	3/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.375	4-3/4"	0.25	0.448	-2°	Coolant Thru		BHF0306R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$118.00
S-STJOR 082	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-2°	Solid		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$104.00
S-STJOR 082C	1/2 Ø STUBBY Steel Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-2°	Coolant Thru		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$124.00

STEEL BORING BARS																				
			Ø	OAL	F Dim															
Catalog Number	Description	Hand of Cut	Bar Diameter	Length	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	2022 Price
S-STJOR 102	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.375	0.698	-2°	Solid		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$118.00
S-STJOR 102C	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.375	0.698	-2°	Coolant Thru		BHF0308R	TPGA-221	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$137.00
S-STJOR 123	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-2°	Solid		BFTX0410A	TPGA-332	60° Triangle	STUBBY	NTM		Steel		60° Triangle No Cool	ID Boring Bar	\$132.00
S-STJOR 123C	3/4 Ø STUBBY Steel Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-2°	Coolant Thru		BFTX0410A	TPGA-332	60° Triangle	STUBBY	NTM		Steel		60° Triangle w/Cool	ID Boring Bar	\$152.00
S-SWLOR 062	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.25	0.448	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$96.00
S-SWLOR 062C	3/8 Ø STUBBY Steel 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		Steel		80° Trigon w/ Cool	ID Boring Bar	\$118.00
S-SWLOR 070	3/8 Ø STUBBY Steel Boring Bar	Right	0.375	4-3/4"	0.218	0.416	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$96.00
S-SWLOR 070C	3/8 Ø STUBBY Steel 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		Steel		80° Trigon w/ Cool	ID Boring Bar	\$118.00
S-SWLOR 082	1/2 Ø STUBBY Steel Boring Bar	Right	0.5	5"	0.312	0.572	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$104.00
S-SWLOR 082C	1/2 Ø STUBBY Steel Boring Bar With Coolant	Right	0.5	5"	0.312	0.572	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/ Cool	ID Boring Bar	\$124.00
S-SWLOR 102	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.375	0.698	-5°	Solid		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$118.00
S-SWLOR 102C	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.375	0.698	-5°	Coolant Thru		TS25	WCMT-21.51	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/ Cool	ID Boring Bar	\$137.00
S-SWLOR 103	5/8 Ø STUBBY Steel Boring Bar	Right	0.625	7"	0.375	0.698	-5°	Solid		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$118.00
S-SWLOR 103C	5/8 Ø STUBBY Steel Boring Bar With Coolant	Right	0.625	7"	0.375	0.698	-5°	Coolant Thru		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/ Cool	ID Boring Bar	\$137.00
S-SWLOR 123	3/4 Ø STUBBY Steel Boring Bar	Right	0.75	7"	0.5	0.885	-5°	Solid		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon No Cool	ID Boring Bar	\$132.00
S-SWLOR 123C	3/4 Ø STUBBY Steel Boring Bar With Coolant	Right	0.75	7"	0.5	0.885	-5°	Coolant Thru		TS4	WCMT-32.52	80° Trigon	STUBBY	NTM		Steel		80° Trigon w/ Cool	ID Boring Bar	\$152.00