

SCLCR BORING BARS USING "CCMT / CCGT" INSERTS

D

SANDVIK STYLE SCLCR BORING BARS

All USST Boring Bars Come With Flats On The Shanks For Easy Setup. Boring Bars Ending With "RC" In The Part Number Have Coolant Hole.

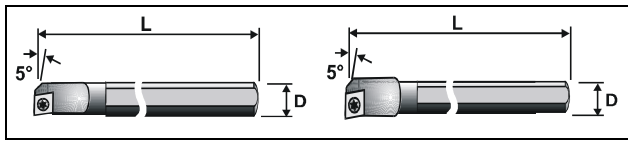


Fig 1

Fig 2

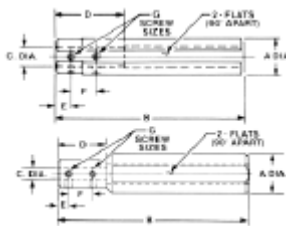


(See inserts on following page)

Hang Out Ratio →				Steel Shank			Heavy Metal			Carbide Shank			Accessories	
Insert	Sandvik Reference #	Shank "D"	Fig #	4 x Shank Diameter			6 x Shank Diameter			8 x Shank Diameter			Screw \$1.00	Wrench \$5.00
				Min Bore	L	Part No. & Price	Min Bore	L	Part No. & Price	Min Bore	L	Part No. & Price		
CC_ _21.5_	-	0.250 (1/4)	1	0.340	3.15	BBS-0900RC \$40.00	-	-	-	-	-	-	-	-
	_05-SCLCR-2	0.312 (5/16)	1	0.438	5	BBS-1000R \$34.00	0.362	4	BBS-3000R \$87.00	0.438	6	BBS-5000R \$126.00	SC-76	TX-207
		0.312 (5/16)	1	0.438	4	BBS-1000RC \$42.00	-	-	-	-	-			
	_06-SCLCR-2	0.375 (3/8)	1	0.500	5	BBS-1010R \$36.00	0.425	4	BBS-3010R \$92.00	0.500	6	BBS-5010R \$131.00		
		0.375 (3/8)	1	0.500	4.34	BBS-1010RC \$44.00	-	-	-	-	-			
	_08-SCLCR-2	0.500 (1/2)	1	0.630	5	BBS-1020R \$40.00	0.550	6	BBS-3020R \$113.00	0.630	8	BBS-5020R \$170.00		
0.500 (1/2)		1	0.600	4.90	BBS-1020RC \$48.00	-	-	-	-	-				
_10-SCLCR-2	0.625 (5/8)	1	0.810	7	BBS-1040R \$45.00	0.675	6	BBS-3040R \$130.00	0.810	8	BBS-5040R \$239.00	SC-76	TX-207	
CC_ _32.5_	_08-SCLCR-3	0.500 (1/2)	1	0.630	5	BBS-1030R \$40.00	-	-	-	0.630	8	BBS-5030R \$170.00	SC-77	TX-215
	_10-SCLCR-3	0.625 (5/8)	1	0.810	7	BBS-1050R \$45.00	0.675	6	BBS-3050R \$130.00	0.810	8	BBS-5050R \$239.00	SC-77	TX-215
		0.625 (5/8)	1	0.700	5.92	BBS-1050RC \$53.00	-	-	-	-	-			
	_12-SCLCR-3	0.750 (3/4)	1	1.000	7	BBS-1060R \$53.00	0.800	8	BBS-3060R \$211.00	1.000	10	BBS-5060R \$386.00		
_16-SCLCR-3	1.000	2	1.280	7	BBS-1070R \$80.00	1.050	10	BBS-3070R \$314.00	1.280	12	BBS-5070R \$479.00			

RC- Coolant thru

BORING BAR SLEEVES



Boring bar sleeves are used to adapt all boring bar or shank type tools to any CNC turning machine or machining center for extensions or hard to reach areas. They are hardened, precision ground concentric and black oxidized for long life. Innovative design on the 1-1/2 OD boring bar sleeves helps the tools stay cool longer by projecting the coolant directly on the cutting edge.

A	B	Scw Size	E	F	D	C	Part Number	Price Each
3/4	5	10-32	5/16	5/8	1 1/2	1/4	TBBS-07-0250	\$71.25
						5/16	TBBS-07-0312	
						3/8	TBBS-07-0375	
1/2	TBBS-07-0500							
1	6	1/4-28	7/16	5/8	1 3/4	5/16	TBBS-10-0312	\$71.25
						3/8	TBBS-10-0375	
						1/2	TBBS-10-0500	
2	TBBS-10-0500							
1 1/4	6 1/2	1/4-28	5/16	5/8	1 1/2	3/8	TBBS-12-0375	\$86.45
						1/2	TBBS-12-0500	
						5/8	TBBS-12-0625	
		7/16	3/4	3	TBBS-12-0750			
				4	TBBS-12-0875			
				1	TBBS-12-1000			
1 1/2	7	1/4-28	5/16	5/8	2	3/8	TBBS-15-0375	\$89.30
						1/2	TBBS-15-0500	
						5/8	TBBS-15-0625	
		7/16	3/4	2 1/2	TBBS-15-0750			
				3	TBBS-15-0875			
				4	TBBS-15-1000			

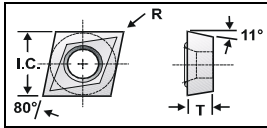
D	A	B	Scw Size	E	F	D	C	Part Number	Price Each
1 3/4	8	5/16-24	5/16	5/8	2 1/2	1/2	TBBS-17-0500	\$97.85	
						5/8	TBBS-17-0625		
						3/4	TBBS-17-0750		
7/8	TBBS-17-0875								
2	9	7/16-20	7/16	1	2 1/2	1	TBBS-17-1000	\$109.25	
						2	TBBS-20-0625		
						2 3/4	TBBS-20-0750		
						3	TBBS-20-0875		
2 1/2	10	1/2-20	7/16	1	3 1/2	1	TBBS-20-1000	\$128.25	
						2	TBBS-20-1250		
						3	TBBS-20-1500		
						4	TBBS-25-0625		
						5/8	TBBS-25-0750		
						1/2	TBBS-25-1000		
3	11-1/2	1/2-20	1/2	1	3 1/2	1 1/4	TBBS-25-1250	\$166.25	
						1 1/2	TBBS-25-1500		
						2	TBBS-30-1000		
						3 1/2	TBBS-30-1250		
						4 1/2	TBBS-30-1500		
						5/8	TBBS-30-1750		
4	14	5/8-18	1/2	1	4 1/2	2	TBBS-30-2000	\$289.75	
						19/32	TBBS-40-1500		
						5/8	TBBS-40-1750		
						19/32	TBBS-40-2000		
						5/8	TBBS-40-2500		
						3/4	TBBS-40-3000		

Call Us Today For All Of Your Machine Tool Needs!

CCMT INSERTS

LEGEND

Material	
SS	Stainless Steel
CS	Carbon Steel
S	Steel
CI	Cast Iron
AL	Aluminum
NF	Non-Ferrous Material
Operation	
F	Finish
M	Medium



CCMT 2 1.5 2
 I.C.-size T-thickness R-radius

TUNGALOY INSERTS QUANTITY DISCOUNT	
1-19 pcs	LIST
20-39 pcs	5% OFF
40-99 pcs	10% OFF
100 +	CALL

ISCAR & USST INSERTS QUANTITY DISCOUNT	
1-29 pcs	10% OFF
30+ pcs	15% OFF



Bars Using	IC	T	R	chip breaker	oper.	Toughness TOSHIBA TUNGALOY					ISCAR INSERTS				USST Inserts			
						S,SS	NF,SA	SS,SA	SS	S	CI	S, SS, CI	S, SS	S	CI	S		
						AT530	AH110	AH120	T6030	T9025	IC20	IC656	IC8048	IC9025	N26	NP1000		
CCMT21.5 (CCMT0602 -)	0.250	0.094	1/4	3/32	1/64	CERMET	COATED CARBIDE				UNCOATED CARBIDE	COATED CARBIDE						
						-	-	-	-	-	-	-	-	-	-	CAR-704 \$6.83	-	-
						14	-	-	-	-	-	-	CAR-712 \$6.83	-	-	CAR-714 \$6.83	-	-
						PS	M to F	TO-1133 call	-	-	TO-4917 call	TO-3500 call	-	-	-	-	-	-
		24	M to F	-	-	-	TO-4914 call	-	-	-	-	-	-	-				
		14	-	-	-	-	-	-	CAR-721 \$5.40	CAR-722 \$6.83	CAR-723 \$6.83	CAR-724 \$6.83	US-615 \$4.28	US-616 \$6.08				
		PS	M to F	TO-1141 call	-	-	TO-4923 call	TO-3501 call	-	-	-	-	-	-				
		PF	M to F	-	TO-3800 call	-	TO-3803 call	TO-3804 call	-	-	-	-	-	-				
	PM	M to F	-	TO-3805 call	TO-3806 call	TO-3809 call	TO-3810 call	-	-	-	-	-	-					
	24	M to F	-	-	-	TO-4919 call	TO-4920 call	-	-	-	-	-	-					
	0.031	1/32	PS	M to F	TO-1149 call	-	-	TO-4929 call	TO-3502 call	-	-	-	-	-				
	PF	M to F	-	TO-3811 call	-	TO-3814 call	TO-3815 call	-	-	-	-	-	-					
	PM	M to F	-	TO-3816 call	TO-3817 call	TO-3820 call	TO-3821 call	-	-	-	-	-	-					
	24	M to F	-	-	-	TO-4925 call	TO-4926 call	-	-	-	-	-	-					
	CCMT32.5 (CCMT09T3 -)	0.375	0.156	3/8	5/32	1/64	PS	M to F	TO-1157 call	-	-	TO-3457 call	TO-3503 call	-	-	-	-	-
							PF	M to F	-	-	-	TO-3822 call	-	-	-	-	-	
24							M to F	-	-	-	TO-4931 call	-	-	-	-	-		
14			-	-	-	-	-	-	CAR-731 \$5.81	CAR-732 \$8.08	CAR-733 \$8.08	CAR-734 \$8.08	US-621 \$5.07	US-622 \$7.06				
PS			M to F	TO-1163 call	-	-	TO-4940 call	TO-3504 call	-	-	-	-	-					
PF			M to F	-	TO-3823 call	-	TO-3826 call	TO-3827 call	-	-	-	CAR-744 \$8.08	-	-				
PM		M to F	-	TO-3828 call	TO-3829 call	TO-3832 call	TO-3833 call	-	-	-	-	-						
24		M to F	-	-	-	TO-4936 call	TO-4937 call	-	-	-	-	-						
14		-	-	-	-	-	-	CAR-751 \$5.81	CAR-752 \$8.08	CAR-753 \$8.08	CAR-754 \$8.08	US-631 \$5.07	US-632 \$7.06					
0.031		1/32	PS	M to F	TO-1171 call	-	-	TO-4946 call	TO-3505 call	-	-	-	-					
PF		M to F	-	TO-3834 call	-	TO-3837 call	TO-3838 call	-	-	-	-	-						
PM		M to F	-	TO-3839 call	TO-3840 call	TO-3843 call	TO-3844 call	-	-	-	-	-						
24		M to F	-	-	-	TO-6030	TO-4943	-	-	-	-	-						

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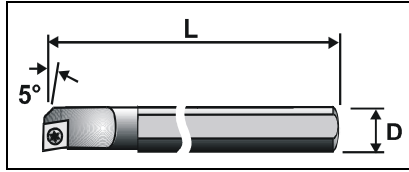
SDUCR BORING BARS USING "DCMT/DCGT" INSERTS

D

USST

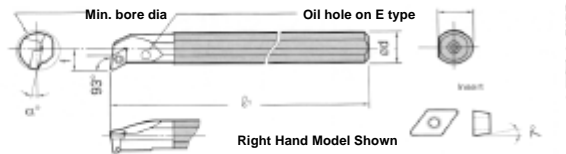
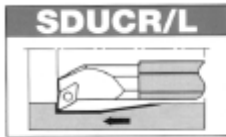
SANDVIK STYLE SDUCR BORING BARS

All USST Boring Bars Come With Flats On The Shanks For Easy Setup



		USST					ULTRADEX						
(See inserts on following page)		Steel Shank			Accessories		Carbide Shank			Carbide w/ Hole			
Insert	Mfg Ref #	Shank "D"	Min Bore	L	Part No. & Price	Screw	Torx Wrench	Min Bore	L	Part Number & Price	Min Bore	L	Part Number & Price
DC_ _21.5_	06-SDUCR-2	0.375 (3/8)	0.750	5	BBS-1100R \$34.00	SC-76 \$1.00	TX-207 \$5.00	0.600	6	UD-CSDUCR386NC \$139.00	0.600	6	UD-CSDUCR386 \$159.00
	08-SDUCR-2	0.500 (1/2)	0.875	5	BBS-1110R \$40.00			0.870	5	UD-CSDUCR508NC \$159.00	0.730	8.2	UD-CSDUCR508 \$169.00
	10-SDUCR-2	0.625 (5/8)	1.000	7	BBS-1120R \$45.00			-	-	-	0.850	7.2	UD-CSDUCR627 \$189.00
	SDUCR	0.625 (5/8)	-	-	-	-	-	-	0.850	10.2	UD-CSDUCR6210 \$229.00		
DC_ _32.5_	12-SDUCR-3	0.750 (3/4)	1.250	7	BBS-1130R \$53.00	SC-77 \$5.00	TX-215 \$5.00	-	-	-	0.980	7.35	UD-SDUCR757 \$239.00
	SDUCR	0.750 (3/4)	-	-	-	-	-	-	-	-	0.980	10.3	UD-SDUCR7510 \$274.00
	SDUCR	1.000	-	-	-	-	-	-	-	-	1.300	9.5	UD-SDUCR109 \$369.00
	SDUCR	1.000	-	-	-	-	-	-	-	-	1.300	12.5	UD-SDUCR1012 \$429.00

TOSHIBA TUNGALOY SDUCR BORING BARS USING "DCMT/DCGT" INSERTS



		TOSHIBA TUNGALOY								
		Carbide Shank			Carbide w/ Hole			Accessories		
Insert	MFG REF #	SHANK "D"	MIN BORE	L	Part Number & Price	MIN BORE	L	Part Number & Price	Screw	Wrench
DC_ _21.5_	06-SDUCR-2	0.375 (3/8)	0.600	5	TO-C06-SDUCR2 \$145.08	0.600	5	TO-E06-SDUCR2 \$145.08	TO-CSTB25 \$1.00	TO-T-8F \$4.16
	08-SDUCR-2	0.500 (1/2)	0.730	5	TO-C08-SDUCR2 \$173.16	0.730	5	TO-E08-SDUCR2 \$173.16	TO-CSTB25 \$1.00	TO-T-8F \$4.16
	10-SDUCR-2	0.625 (5/8)	0.850	7	TO-C10-SDUCR2 \$227.24	0.850	7	TO-E10-SDUCR2 \$227.24	TO-CSTB25 \$1.00	TO-T-8F \$4.16
DC_ _32.5_	12-SDUCR-3	0.750 (3/4)	0.980	7	TO-C12-SDUCR3 \$300.56	0.980	7	TO-E12-SDUCR3 \$300.56	TO-CSTB45 \$1.00	TO-T-15F \$3.28

TOOLHOLDER BUSHINGS



Type J
Prices Starting At:
\$32.49



Type C
Prices Starting At:
\$42.75



Type Z
Prices Starting At:
\$78.66

Tool Holder Bushings are designed to adapt tools such as boring bars and drills to CNC machine tools. Adapting tools to all brands of equipment is easy due to the slots on the body of the bushing.

MANY MORE SIZES AND STYLES AVAILABLE!
Please See Pages 238-241 For Our Complete Selection!

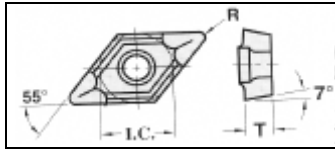
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DCMT/DCGT INSERTS



LEGEND

Material	
SS	Stainless Steel
CS	Carbon Steel
S	Steel
CI	Cast Iron
AL	Aluminum
NF	Non-Ferrous Material
GT	General Turning
SA	Super Alloys
IN	Inconel
Operation	
R	Roughing
M	Medium
F	Finishing



Tungaloy INSERTS
CALL FOR OUR **LOW PRICES!**

TUNGALOY INSERTS QUANTITY DISCOUNT	
1-19 pcs	LIST
20-39 pcs	5% OFF
40-99 pcs	10% OFF
100 +	CALL

ISCAR & USST INSERTS QUANTITY DISCOUNT	
1-29 pcs	10% OFF
30+ pcs	15% OFF

Bars Using	IC	T	R	chip breaker	oper.	TOSHIBA TUNGALOY					Iscar Inserts				USST Inserts							
						COATED CARBIDE					UNCOATED CARBIDE	COATED CARBIDE	COATED CARBIDE	COATED CARBIDE	NF	S,SS						
						CER-MET	S,SS	NF,SA	SS,SA	SS	S	CI	S,SS,CI	S,SS	S	N26	NP1000					
AT530	AH110	AH120	T6030	T9025	IC20	IC656	IC8048	IC9025														
DCMT21.5 (DCMT 0702_)	0.250	0.094	1/128	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-				
				PS	M to F	TO-1595 call	-	-	-	TO-5529 call	-	-	-	-	-	-	-	-	-	-		
				PF	M to F	-	-	-	-	TO-3845	-	-	-	-	-	-	-	-	-	-	-	
				-	F	-	-	-	-	-	-	-	-	-	-	CAR-774 \$8.40	US-641 \$5.27	US-642 \$7.06	-	-		
				PS	M to F	TO-1601 call	-	-	TO-5534 call	TO-3566 call	-	-	-	-	-	-	-	-	-	-	-	
				PF	M to F	-	TO-3846 call	-	TO-3848 call	TO-3849 call	-	-	-	-	-	-	-	-	-	-	-	
	1/4	3/32	0.016	1/64	PM	M to F	-	TO-3850 call	TO-3851 call	TO-3853 call	TO-3854 call	-	-	-	-	-	-	-	-			
					24	M to F	-	-	-	TO-5530 call	TO-5531 call	-	-	-	-	-	-	-	-	-	-	
					PS	M to F	TO-1608 call	-	-	-	TO-3567 call	-	-	-	-	-	-	-	-	-	-	-
					PF	M to F	-	TO-3855 call	-	TO-3857 call	TO-3858 call	-	-	-	-	-	-	-	-	-	-	-
					PM	M to F	-	TO-3859 call	TO-3860 call	TO-3862 call	TO-3863 call	-	-	-	-	-	-	-	-	-	-	-
					24	M to F	-	-	-	TO-5535 call	TO-5536 call	-	-	-	-	-	-	-	-	-	-	-
DCMT32.5 (DCMT 11T3_)	0.375	0.156	1/128	-	F	-	-	-	-	-	-	-	-	-	-	-	-	-				
				PS	M to F	TO-1614 call	-	-	-	TO-3568 call	-	-	-	-	-	-	-	-	-	-		
				PF	M to F	-	-	-	-	TO-3864 call	-	-	-	-	-	-	-	-	-	-	-	
				24	M to F	-	-	-	-	TO-5539 call	-	-	-	-	-	-	-	-	-	-	-	
				14	-	-	-	-	-	-	CAR-791 \$6.89	CAR-792 \$10.12	CAR-793 \$10.12	CAR-794 \$10.12	US-651 \$6.41	US-652 \$8.27	-	-	-	-		
				PS	M to F	TO-1620 call	-	-	-	TO-3569 call	-	-	-	-	-	-	-	-	-	-	-	
	3/8	5/32	0.016	1/64	PF	M to F	-	TO-3865 call	-	TO-3868 call	TO-3869 call	-	-	-	-	-	-	-	-			
					PM	M to F	-	TO-3870 call	TO-3871 call	TO-3874 call	TO-3875 call	-	-	-	-	-	-	-	-	-	-	
					24	M to F	-	-	-	TO-5545 call	TO-3731 call	-	-	-	-	-	-	-	-	-	-	-
					14	-	-	-	-	-	-	CAR-801 \$6.89	CAR-802 \$10.12	CAR-803 \$10.12	CAR-804 \$10.12	US-656 \$6.41	US-657 \$8.27	-	-	-	-	
					PS	M to F	TO-1628 call	-	-	-	TO-3570 call	-	-	-	-	-	-	-	-	-	-	-
					PF	M to F	-	TO-3876 call	-	TO-3879 call	TO-3880 call	-	-	-	-	-	-	-	-	-	-	-
1/32	0.031	1/32	PM	M to F	-	TO-3881 call	TO-3882 call	TO-3885 call	TO-3886 call	-	-	-	-	-	-	-	-	-				
			24	M to F	-	-	-	TO-5550 call	TO-5551 call	-	-	-	-	-	-	-	-	-	-			

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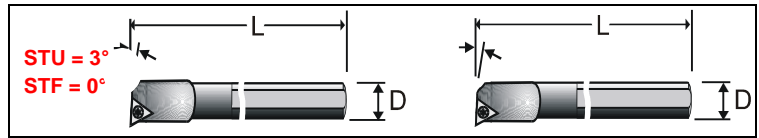
STFCR/STUCR BARS USING "TCMT/TCGT" INSERTS

D

SANDVIK STYLE STFCR/STUCR BORING BARS



All USST Boring Bars Come With Flats On The Shanks For Easy Setup

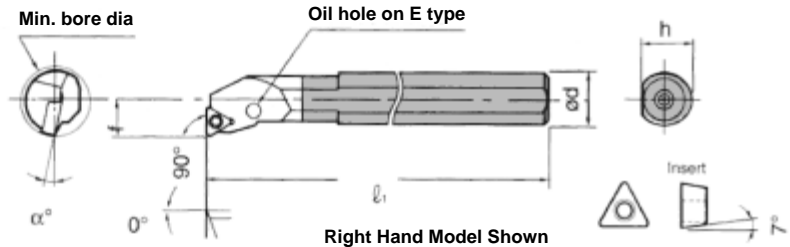
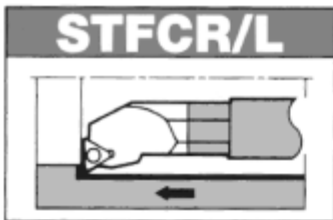


(See Inserts on following page)

Hang Out Ratio →			Steel Shank			Heavy Metal			Carbide Shank			Accessories	
Insert	Sandvik Reference #	Shank "D"	Min Bore	L	Part No. & Price	Min Bore	L	Part No. & Price	Min Bore	L	Part No. & Price	Screw \$ 1.00	Wrench \$ 5.00
TC_T21.5_	_06-STFCR-2	0.375 (3/8)	0.500	5	BBS-1200R \$ 36.00	0.425	4	BBS-3200R \$ 92.00	0.500	6	BBS-5200R \$ 131.00	SC-76	TX-207
	_08-STFCR-2	0.500 (1/2)	0.630	5	BBS-1210R \$ 40.00	0.550	6	BBS-3210R \$ 113.00	0.630	8	BBS-5210R \$ 170.00		
	_10-STFCR-2	0.625 (5/8)	0.810	7	BBS-1220R \$ 45.00	0.675	6	BBS-3220R \$ 130.00	0.810	8	BBS-5220R \$ 239.00		
	_12-STFCR-2	0.750 (3/4)	1.000	7	BBS-1230R \$ 53.00	0.800	8	BBS-3230R \$ 211.00	1.000	10	BBS-5230R \$ 386.00		
TC_T32.5_	_12-STFCR-3	0.750 (3/4)	1.000	7	BBS-1240R \$ 53.00	0.800	8	BBS-3240R \$ 211.00	1.000	10	BBS-5240R \$ 386.00	SC-77	TX-215
TC_T21.5_	_06-STUCR-2	0.375 (3/8)	0.425	5	BBS-1250R \$ 36.00	0.425	4	BBS-3250R \$ 92.00	0.500	6	BBS-5250R \$ 131.00	SC-76	TX-207
	_08-STUCR-2	0.500 (1/2)	0.630	5	BBS-1260R \$ 40.00	0.550	6	BBS-3260R \$ 113.00	0.630	8	BBS-5260R \$ 170.00		
	_10-STUCR-2	0.625 (5/8)	0.810	7	BBS-1270R \$ 45.00	0.675	6	BBS-3270R \$ 130.00	0.810	8	BBS-5270R \$ 239.00		
TC_T32.5_	_12-STUCR-3	0.750 (3/4)	1.000	7	BBS-1290R \$ 53.00	0.800	8	BBS-3290R \$ 211.00	1.000	10	BBS-5290R \$ 386.00	SC-77	TX-215

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TOSHIBA TUNGALOY STFCR BORING BARS USING TCMT/TCGT INSERTS



Bars using TCMT/TCGT Inserts

B

TOSHIBA TUNGALOY			Carbide Shank			Carbide w/ Hole			Accessories	
Insert	Toshiba Reference#	Shank "D"	Min Bore	L	Part Number & Price	Min Bore	L	Part Number & Price	Screw	Wrench
TC__21.5_	06-STFCR-2	3/8	0.470	5	TO-C06-STFCR2 \$ 145.08	0.470	5	TO-E06-STFCR2 \$ 145.08	TO-CSTB25 \$ 0.70	TO-T-8F \$ 4.16
	08-STFCR-2	1/2	0.592	5	TO-C08-STFCR2 \$ 173.16	0.592	5	TO-E08-STFCR2 \$ 173.16	TO-CSTB25 \$ 0.70	TO-T-8F \$ 4.16
	10-STFCR-2	5/8	0.760	7	TO-C10-STFCR2 \$ 227.24	0.760	7	TO-E10-STFCR2 \$ 227.24	TO-CSTB25 \$ 0.70	TO-T-8F \$ 4.16
TC__32.5_	12-STFCR-3	3/4	0.920	7	TO-C12-STFCR3 \$ 300.56	0.920	7	TO-E12-STFCR3 \$ 300.56	TO-CSTB4S \$ 0.62	TO-T-15F \$ 3.28

(See inserts on following page)

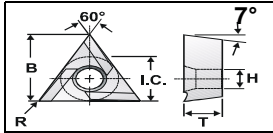
Call Us Today For All Of Your Machine Tool Needs!

TCMT/TCGT INSERTS



LEGEND

Material	
SS	Stainless Steel
CS	Carbon Steel
S	Steel
CI	Cast Iron
AL	Aluminum
NF	Non-Ferrous Material
GT	General Turning
SA	Super Alloys
IN	Inconel
Operation	
R	Roughing
M	Medium
F	Finishing



Tungaloy INSERTS
CALL FOR OUR LOW PRICES!

TUNGALOY INSERTS QUANTITY DISCOUNT	
1-19 pcs	LIST
20-39 pcs	5% OFF
40-99 pcs	10% OFF
100 +	CALL

ISCAR & USST INSERTS QUANTITY DISCOUNT	
1-29 pcs	10% OFF
30+ pcs	15% OFF



E

B

B

TOSHIBA TUNGALOY				Iscar Inserts			USST Inserts	
S,SS	S,SS	S,SS	NF	S,SS,CI	S,SSQ	S	NF	S,SS
AT530	NS530	T6030	T9025	IC656	IC8048	IC9025	N26	NP1000

Bars Using	IC	T	R	chip breaker	oper.	CERMET		COATED CARBIDE			C2	C5						
						TO-2547 call	-	TO-7216 call	TO-3630 call	-	-	-	Uncoated	Coated				
TCMT21.5_ (TCMT 1102_)	0.250	0.094	1/4	3/32	0.008	PS	M to F	TO-2547 call	-	TO-7216 call	TO-3630 call	-	-	-	-	-		
						24	M to F	-	TO-2545 call	-	TO-7212 call	-	-	-	-	-		
					0.016	19	F	-	-	-	-	CAR-812 \$6.29	CAR-813 \$6.29	CAR-814 \$6.29	-	-	-	-
						PS	M to F	TO-2554 call	TO-2555 call	TO-7223 call	TO-3631 call	-	-	-	-	-		
						PM	M to F	-	-	-	TO-7221 call	-	-	-	-	-		
						24	M to F	-	TO-2552 call	TO-7218 call	TO-7219 call	-	-	-	-	-		
					0.031	PS	M to F	TO-2562 call	-	-	TO-3632 call	-	-	-	-	-		
						PM	M to F	-	-	-	TO-7228 call	-	-	-	-	-		
						24	M to F	-	TO-2560 call	TO-7225 call	TO-7226 call	-	-	-	-	-		
						1/32	M to F	-	TO-2560 call	TO-7225 call	TO-7226 call	-	-	-	-	-		
TCMT32.5_	0.375	0.156	3/8	5/32	0.016	PS	M to F	TO-2569 call	TO-2570 call	TO-7235 call	TO-3633 call	-	-	-	-	-		
						PM	M to F	-	-	-	TO-7233 call	-	-	-	-	-		
						24	M to F	-	TO-2567 call	TO-7230 call	TO-7231 call	-	-	-	-	-		
					0.031	14	M to F	-	-	-	-	CAR-822 \$8.57	CAR-823 \$8.57	CAR-824 \$8.57	US-666 \$5.20	US-667 \$7.42		
						PS	M to F	TO-2577 call	TO-2578 call	TO-7242 call	TO-3634 call	-	-	-	-	-		
						PM	M to F	-	-	-	TO-7240 call	-	-	-	-	-		
						24	M to F	-	TO-2575 call	TO-7237 call	TO-7238 call	-	-	-	-	-		
					19	F	-	-	-	-	CAR-832 \$8.57	CAR-833 \$8.57	CAR-834 \$8.57	US-671 \$5.20	US-672 \$7.42			

TOSHIBA TUNGALOY INSERT GRADE INFORMATION

Grade	Features	Applications
NS530	- High Wear resistance and thermal and shock resistance - Performs well in wet cutting	- General purpose cermet covering a wide range of cutting conditions from low to high speeds for various steels.
AT530	-Special PVD TiAlN coated cermet. -Well balanced wear resistance and toughness.	-Finish to semi-finish turning and boring of various steels and stainless steels. -Can be used for light interrupted cutting.
T9025	- TiAlOxide coating - wear resistant substrate plus multiple coated layers	- Low to medium speed turning and boring of steels and stainless steels
H10T	-Typical K10 (C-2) type uncoated carbide with good overall wear resistance and toughness. -Used for positive inserts.	- For general boring of non-ferrous materials.

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