



# CIRCLE STYLE MINI BORING BARS

## DIAMOND SHAPED INSERTS (CDCD INSERTS)

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

**Minimum Bores:**  
 .180 - Lead Angle 7°  
 .208 - Lead Angle 5°  
 .230 - Lead Angle 5°  
 Uses CDCD Type Inserts on following page.



Fig 1

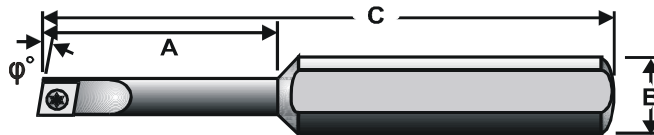


Fig 2

					Steel Shank	Heavy Metal	Carbide Shank					
					4 x Shank Diameter	6 x Shank Diameter	8 x Shank diameter					
Hang Out Ratio →					Part Number	Price	Part Number	Price	Part Number	Price	Screws \$1.00	Wrench \$5.00
Min Bore	A Boring Depth	B Shank Dia	C OAL	Fig #								
.180	-	0.156	4.000	1	-	-	BBC-3000R	\$121.00	BBC-5005R	\$129.00	19501	TX-206
	0.500	0.187	2.500	1	BBC-1010R	\$35.00	-	-	-	-		
		0.500		2	BBC-1015R	\$40.00	-	-	-	-		
		0.625	2	BBC-1020R	\$40.00	-	-	-	-			
	1.000	0.500	2.500	2	-	-	BBC-3025R	\$142.00	-	-		
		0.625		2	-	-	BBC-3030R	\$161.00	-	-		
1.500	0.500	4.000	2	-	-	-	-	BBC-5035R	\$146.00			
.208	-	0.187	2.500	1	BBC-1045R	\$35.00	-	-	-	-		
	4.000		1	-	-	BBC-3050R	\$94.00	BBC-5050R	\$119.00			
	0.500	0.375	2.500	2	BBC-1060R	\$40.00	-	-	-	-		
		0.500	2.750	2	BBC-1065R	\$40.00	-	-	-	-		
		0.625		2	BBC-1070R	\$40.00	-	-	-	-		
	1.000	0.375	2.500	2	BBC-1075R	\$40.00	-	-	-	-		
		0.500	2.750	2	BBC-1080R	\$40.00	-	-	-	-		
		0.625		2	BBC-1085R	\$40.00	-	-	-	-		
	1.250	0.500	4.000	2	-	-	BBC-3090R	\$161.00	-	-		
		0.625		2	-	-	BBC-3095R	\$178.00	-	-		
1.875	0.500	5.000	2	-	-	-	-	BBC-5100R	\$146.00			
	0.625		2	-	-	-	-	BBC-5105R	\$152.00			
.230	-	0.187	2.500	1	BBC-1110R	\$35.00	-	-	-	-		
	4.000		1	-	-	BBC-3115R	\$94.00	BBC-5115R	\$119.00			
	0.500	0.375	2.500	2	BBC-1125R	\$40.00	-	-	-	-		
		0.500	2.750	2	BBC-1130R	\$40.00	-	-	-	-		
		0.625		2	BBC-1135R	\$40.00	-	-	-	-		
	1.000	0.375	2.500	2	BBC-1140R	\$40.00	-	-	-	-		
		0.500	2.750	2	BBC-1145R	\$40.00	-	-	-	-		
		0.625		2	BBC-1150R	\$40.00	-	-	-	-		
	1.500	0.500	4.000	2	-	-	BBC-3155R	\$161.00	-	-		
		0.625		2	-	-	BBC-3160R	\$221.00	-	-		
	2.000	0.500	5.000	2	-	-	-	-	BBC-5165R	\$146.00		
		0.625		2	-	-	-	-	BBC-5170R	\$152.00		

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# CIRCLE STYLE MINI BORING BARS

## DIAMOND SHAPED INSERTS (CDCD INSERTS)

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Lead Angle 5°  
Min Bore .290

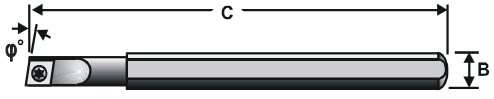


Fig 1

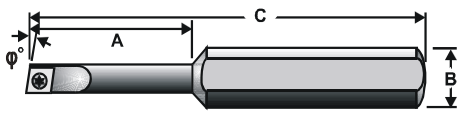
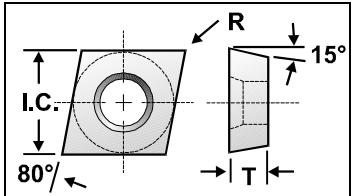


Fig 2

HangOutRatio →					Steel Shank	Heavy Metal	Carbide Shank			Screws	Wrench				
Min Bore	A Boring Depth	B Shank Dia	C OAL	Fig #	4x Shank Diameter	6x Shank Diameter	8x Shank Diameter	Part Number	Price	Part Number	Price	Part Number	Price	\$1.00	\$5.00
<b>.290</b>	-	0.250	3.000	1	BBC-1175R	\$35.00	-	-	-	-	-	-	-	19501	TX-206
			4.000	1	-	-	BBC-3180R	\$94.00	BBC-5180R	\$119.00					
			5.000	1	-	-	-	-	BBC-5185R	\$135.00					
	0.500	0.375	2.500	2	BBC-1200R	\$40.00	-	-	-	-	-	-			
			2	BBC-1205R	\$40.00	-	-	-	-						
	0.750	0.500	2.750	2	BBC-1210R	\$40.00	-	-	-	-	-				
			2	BBC-1215R	\$40.00	-	-	-	-						
	1.000	0.375	2.500	2	BBC-1220R	\$40.00	-	-	-	-	-				
	2		BBC-1225R	\$40.00	-	-	-	-							
	1.250	0.500	2.750	2	-	-	BBC-3230R	\$161.00	-	-	-				
			2	-	-	BBC-3235R	\$178.00	-	-	-					
	1.750	0.625	4.000	2	-	-	-	-	-	-	-				
			2	-	-	-	-	-	-	-					
	2.500	0.500	5.000	2	-	-	-	-	BBC-5240R	\$146.00	-	-			
2			-	-	-	-	BBC-5245R	\$152.00	-	-					

## CDCD TYPE INSERTS



Grade			CM2	CVM2	CS7	CV7	TL120
I.C.	T	R	C1/C2 Uncoated	C1/C2 Coated	C6/C7 Uncoated	C6/C7 Coated	TiAlN Coated
.156	.040	.002	US-701 \$ 6.50	US-711 \$ 7.00	US-706 \$ 6.50	US-721 \$ 7.00	US-731 \$ 8.10
		.007	US-702 \$ 6.50	US-712 \$ 7.00	US-707 \$ 6.50	US-722 \$ 7.00	US-732 \$ 8.10
		.015	US-703 \$ 6.50	US-713 \$ 7.00	US-708 \$ 6.50	US-723 \$ 7.00	US-733 \$ 8.10

### Accessories

Description	Part No.	Price
Screws	19501	\$1.00
Torx wrench	TX-6	\$5.00

## GRADE SELECTION CHART

Grade	Coating	Material	Operation
CM2	Uncoated	Non Ferrous Alloys, High Strength Steel Alloys	Finish
CVM2	TiN Coated	Non Ferrous materials, Stainless Steels	Semi-finish, Finish
CS7	UnCoated	Carbon Steels, Alloy Steels, Tool Steels	Semi-finish
CV7	TiN Coated	Steels, Stainless Steels	Semi Flnish, Finish
TL120	TiAlN Coated	High Temp Alloys, Stainless Steels	Semi Flnish, Finish

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# CIRCLE STYLE MINI BORING BARS

## TRIANGLE SHAPED INSERTS (TDAB INSERTS)

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



Min. Bore  
.270 to .360

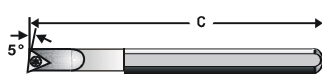


Fig 1

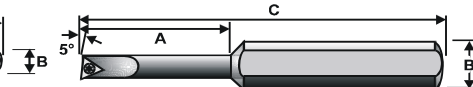
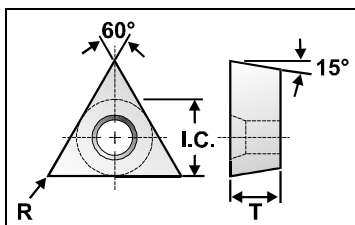


Fig 2

Hang Out Ratio →					Steel Shank	Heavy Metal	Carbide Shank		Screws \$1.00	Wrench \$5.00	
Min Bore	A Boring Depth	B Shank Dia	C OAL	Fig #	4x Shank Diameter	6x Shank Diameter	8x Shank Diameter				
					Part Number	Price	Part Number	Price	Part Number	Price	
.270	-	0.187	3.500	1	BBC-1300R	\$35.00	-	-	-	-	
			4.000	1	-	-	BBC-3305R	\$94.00	-	-	-
	0.500	0.500	3.000	2	BBC-1315R	\$40.00	-	-	-	-	
			0.625	2	BBC-1320R	\$45.00	-	-	-	-	
	1.00	0.500	4.000	2	BBC-1330R	\$40.00	-	-	-	-	
				2	BBC-1335R	\$45.00	-	-	-	-	
	1.625	0.500	4.000	2	-	-	BBC-3340R	\$161.00	-	-	-
				2	-	-	BBC-3345R	\$178.00	-	-	-
2.250	0.500	5.000	2	-	-	-	-	BBC-5350R	\$146.00		
			2	-	-	-	-	BBC-5355R	\$152.00		
.300	-	0.250	4.000	1	BBC-1360R	\$35.00	BBC-3360R	\$94.00	-	-	
			0.500	3.000	2	BBC-1370R	\$40.00	-	-	-	-
	0.750	0.625	-	2	BBC-1375R	\$45.00	-	-	-	-	
			0.500	3.000	2	BBC-1380R	\$40.00	-	-	-	-
	1.250	0.625	-	2	BBC-1385R	\$45.00	-	-	-	-	
			0.500	4.000	2	-	-	BBC-3390R	\$161.00	-	-
	2	-	-		BBC-3395R	\$178.00	-	-			
	1.875	0.500	5.000	2	-	-	-	-	BBC-5400R	\$146.00	
2				-	-	-	-	BBC-5405R	\$152.00		
.360	-	0.312	4.000	1	BBC-1410R	\$35.00	BBC-3410R	\$121.00	BBC-5415R	\$135.00	
			0.500	3.000	2	BBC-1420R	\$40.00	-	-	-	-
	0.625	2	BBC-1425R		\$45.00	-	-	-	-		
	1.000	0.500	3.000	2	BBC-1430R	\$40.00	-	-	-	-	
				2	BBC-1435R	\$47.00	-	-	-	-	
	1.500	0.500	4.000	2	-	-	BBC-3440R	\$161.00	-	-	
				2	-	-	BBC-3445R	\$221.00	-	-	
	2.250	0.500	5.000	2	-	-	-	-	BBC-5450R	\$146.00	
2				-	-	-	-	BBC-5455R	\$152.00		

19502 TX-206

## TDAB TYPE INSERTS



Grade			CM2 C1/C2	CVM2 C1/C2	CS7 C6/C7	CV7 C6/C7	TL120
I.C.	T	R	Uncoated	Coated	Uncoated	Coated	Coated
.160	.047	.002	US-751 \$ 6.50	US-761 \$ 7.00	US-756 \$ 6.50	US-771 \$ 7.00	US-781 \$ 8.10
		.007	US-752 \$ 6.50	US-762 \$ 7.00	US-757 \$ 6.50	US-772 \$ 7.00	US-782 \$ 8.10
		.015	US-753 \$ 6.50	US-763 \$ 7.00	US-758 \$ 6.50	US-773 \$ 7.00	US-783 \$ 8.10

Grades & Operations detailed on previous page

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