

CIRCLE STYLE MINI BORING BARS

DIAMOND SHAPED INSERTS (CDCD INSERTS)

- Minimum bore:
 - .290 - 7° lead angle
 - .208 - 5° lead angle
 - .230 - 5° lead angle
- Uses CDCD type inserts
- Shanks have locating flats for easy set-up
- Available in steel, heavy metal or carbide shanks
- See following page for inserts
- **Made in the USA**

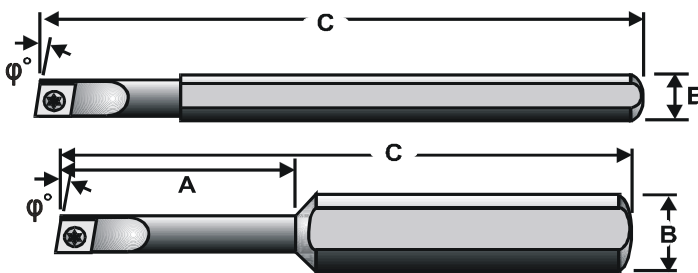


Fig 1

Fig 2



Steel Shank	Heavy Metal	Carbide Shank
4 x Shank Diameter	6 x Shank Diameter	8 x Shank diameter

Min Bore	A Boring Depth	B Shank Dia	C OAL	Fig #	Steel Shank		Heavy Metal		Carbide Shank		Screws \$1.00	Wrench \$5.00
					Part Number	Price	Part Number	Price	Part Number	Price		
.180	-	0.156	4.00	1	-	-	BBC-3000R	\$121.00	BBC-5005R	\$129.00	19501	TX-206
	0.500	0.187	2.50	1	BBC-1010R	\$40.00	-	-	-	-		
		0.500	2.50	2	BBC-1015R	\$45.00	-	-	-	-		
		0.625	2.50	2	BBC-1020R	\$45.00	-	-	-	-		
	1.000	0.500	2.50	2	-	-	BBC-3025R	\$142.00	-	-		
		0.625	2.50	2	-	-	BBC-3030R	\$161.00	-	-		
1.500	0.500	4.00	2	-	-	-	-	BBC-5035R	\$146.00			
.208	-	0.187	2.50	1	BBC-1045R	\$40.00	-	-	-	-		
	4.00		1	-	-	BBC-3050R	\$94.00	BBC-5050R	\$119.00			
	0.500	0.375	2.50	2	BBC-1060R	\$45.00	-	-	-	-		
		0.500	2.75	2	BBC-1065R	\$45.00	-	-	-	-		
		0.625	2.75	2	BBC-1070R	\$45.00	-	-	-	-		
	1.000	0.375	2.50	2	BBC-1075R	\$45.00	-	-	-	-		
		0.500	2.75	2	BBC-1080R	\$45.00	-	-	-	-		
	1.250	0.625	2.75	2	BBC-1085R	\$45.00	-	-	-	-		
			4.00	2	-	-	BBC-3090R	\$161.00	-	-		
	1.875	0.625	4.00	2	-	-	BBC-3095R	\$178.00	-	-		
			5.00	2	-	-	-	-	BBC-5100R	\$146.00		
	.230	-	0.187	2.50	1	BBC-1110R	\$40.00	-	-	-	-	
4.00		1		-	-	BBC-3115R	\$94.00	BBC-5115R	\$119.00			
0.500		0.375	2.50	2	BBC-1125R	\$45.00	-	-	-	-		
		0.500	2.75	2	BBC-1130R	\$45.00	-	-	-	-		
		0.625	2.75	2	BBC-1135R	\$45.00	-	-	-	-		
1.000		0.375	2.50	2	BBC-1140R	\$45.00	-	-	-	-		
		0.500	2.75	2	BBC-1145R	\$45.00	-	-	-	-		
1.500		0.625	2.75	2	BBC-1150R	\$45.00	-	-	-	-		
			4.00	2	-	-	BBC-3155R	\$161.00	-	-		
2.000		0.625	4.00	2	-	-	BBC-3160R	\$221.00	-	-		
			5.00	2	-	-	-	-	BBC-5165R	\$146.00		
				5.00	2	-	-	-	BBC-5170R	\$152.00		

*Circle is a registered trademark of Circle Machine Company

7100 UFO APOLLO



- Click-to-Fit™ adjustable temples
- Soft vinyl nose piece
- 6-base slimline lens
- Blocks 100% U.V.
- Meets ANSI Standards

Frame Color	Lense Color	Part Number	Price Each
Black	Clear	BOUT-71MB-000	\$6.99
Black	Gray	BOUT-71MB-002	\$7.29

DISPOSABLE EARPLUGS



- NRR 31db
- CE EN-352-2:2002 certification
- Contoured fit, disposable polyurethane ear plugs
- Plug gently expands and self-adjusts to all size ear canals
- Available corded or uncorded in convenient dispenser box

Description	Pack Size	Part Number	Price
Disposable Uncorded Earplugs	200/box	PYR-DP1000	\$25.00
Disposable Corded Earplugs	100/box	PYR-DP1001	\$25.00

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CIRCLE STYLE MINI BORING BARS

D

DIAMOND SHAPED INSERTS USING CDCD INSERTS



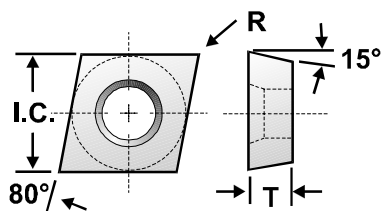
- Lead angle: 5°
- Minimum bore: .290
- Uses CDCD type inserts
- Shanks have locating flats for easy set-up
- Available in steel, heavy metal or carbide shanks
- See bottom of page for inserts
- Made in the USA



Steel Shank	Heavy Metal	Carbide Shank
4x Shank Dia.	6x Shank Dia.	8x Shank Dia.

Min Bore	A Boring Depth	B Shank Dia	C OAL	Fig #	Part Number	Price	Part Number	Price	Part Number	Price	Screws \$1.00	Wrench \$5.00
.290	-	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	-	-	-	-		
	0.750	0.375	2.500	2	BBC-1205R	\$40.00	-	-	-	-		
		0.500	2.750	2	BBC-1210R	\$40.00	-	-	-	-		
	1.000	0.375	2.500	2	BBC-1215R	\$40.00	-	-	-	-		
	1.250	0.375	2.500	2	BBC-1220R	\$40.00	-	-	-	-		
		0.500	2.750	2	BBC-1225R	\$40.00	-	-	-	-		
	1.750	0.500	4.000	2	-	-	BBC-3230R	\$161.00	-	-		
		0.625	4.000	2	-	-	BBC-3235R	\$178.00	-	-		
	2.500	0.500	5.000	2	-	-	-	-	BBC-5240R	\$146.00		
0.625		5.000	2	-	-	-	-	BBC-5245R	\$152.00			

CDCD TYPE INSERTS



I.C.	T	R	Uncoated CM2 C1/C2	Coated CVM2 C1/C2	Uncoated CS7 C6/C7	Coated CV7 C6/C7	Coated TL120
.156	.040	.002	US-701 \$7.50	US-711 \$8.25	US-706 \$7.50	US-721 \$8.25	US-731 \$8.75
		.007	US-702 \$7.50	US-712 \$8.25	US-707 \$7.50	US-722 \$8.25	US-732 \$8.75
		.015	US-703 \$7.50	US-713 \$8.25	US-708 \$7.50	US-723 \$8.25	US-733 \$8.75

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 Finish, Finish
TL120	TiAlN Coated	High Temp Alloys, Stainless Steels	Semi Finish, Finish

DIGIT COUNTER MICROMETERS

.0001/.001" GRADUATION



A

- .001" is read directly from the counter, .0001" is read on the micrometer sleeve
- Steel or carbide measuring face
- Ratchet stop and lock nut
- Balanced frame design for comfortable and accurate measuring
- Extremely hard and stable one-piece spindle
- Micro-lapped anvil and spindle faces



Range	Graduation	Face	Model	Part Number	Price
0-1"	.001"	Steel	216RL-1	STR-55953	\$199.00
1-2"	.001"	Steel	216RL-2	STR-56153	\$243.00
2-3"	.001"	Steel	216RL-3	STR-56205	\$274.00
3-4"	.001"	Steel	216RL-4	STR-56208	\$308.00
0-1"	.0001"	Carbide	216XRL-1	STR-55959	\$204.00
1-2"	.0001"	Carbide	216XRL-2	STR-56156	\$253.00
2-3"	.0001"	Carbide	216XRL-3	STR-63491	\$281.00
3-4"	.0001"	Carbide	216XRL-4	STR-63492	\$319.00

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DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

CIRCLE STYLE MINI BORING BARS

TRIANGLE SHAPED INSERTS (TDAB INSERTS)



- Minimum bore: .270 to .360
- Uses TDAB type inserts
- Shanks have locating flats for easy set-up
- Available in steel, heavy metal or carbide shanks
- See bottom of page for inserts
- Made in the USA

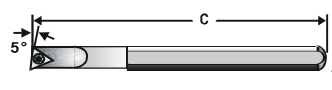


Fig 1

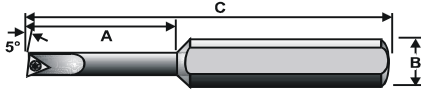
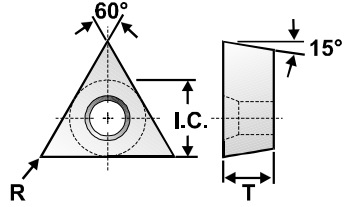


Fig 2

Min Bore	A Boring Depth	B Shank Dia	C OAL	Fig #	Steel Shank		Heavy Metal		Carbide Shank		Screws \$1.00	Wrench \$5.00
					Part Number	Price	Part Number	Price	Part Number	Price		
.270	-	0.187	3.500	1	BBC-1300R	\$40.00	-	-	-	-	19502	TX-206
			4.000	1	-	-	BBC-3305R	\$94.00	-	-		
	0.500	0.500	3.000	2	BBC-1315R	\$45.00	-	-	-	-		
		0.625	3.000	2	BBC-1320R	\$50.00	-	-	-	-		
	1.00	0.500	4.000	2	BBC-1330R	\$45.00	-	-	-	-		
		0.625	4.000	2	BBC-1335R	\$50.00	-	-	-	-		
	1.625	0.500	4.000	2	-	-	BBC-3340R	\$161.00	-	-		
		0.625	4.000	2	-	-	BBC-3345R	\$178.00	-	-		
2.250	0.500	5.000	2	-	-	-	-	BBC-5350R	\$146.00			
	0.625	5.000	2	-	-	-	-	BBC-5355R	\$152.00			
.300	-	0.250	4.000	1	BBC-1360R	\$40.00	BBC-3360R	\$94.00	-	-		
		0.500	3.000	2	BBC-1370R	\$45.00	-	-	-	-		
	0.750	0.625	-	2	BBC-1375R	\$50.00	-	-	-	-		
		0.500	3.000	2	BBC-1380R	\$45.00	-	-	-	-		
	1.250	0.625	-	2	BBC-1385R	\$50.00	-	-	-	-		
		0.500	4.000	2	-	-	BBC-3390R	\$161.00	-	-		
	1.875	0.625	4.000	2	-	-	BBC-3395R	\$178.00	-	-		
		0.500	5.000	2	-	-	-	-	BBC-5400R	\$146.00		
2.500	0.625	5.000	2	-	-	-	-	BBC-5405R	\$152.00			
	-	0.312	4.000	1	BBC-1410R	\$40.00	BBC-3410R	\$121.00	BBC-5415R	\$135.00		
1.000		0.500	3.000	2	BBC-1420R	\$45.00	-	-	-	-		
	1.500	0.625	3.000	2	BBC-1425R	\$50.00	-	-	-	-		
2.250		0.500	3.000	2	BBC-1430R	\$45.00	-	-	-	-		
	3.125	0.625	4.000	2	BBC-1435R	\$55.00	-	-	-	-		
2.250		0.500	4.000	2	-	-	BBC-3440R	\$161.00	-	-		
	3.125	0.625	4.000	2	-	-	BBC-3445R	\$221.00	-	-		
3.125		0.500	5.000	2	-	-	-	-	BBC-5450R	\$146.00		
	3.125	0.625	5.000	2	-	-	-	-	BBC-5455R	\$152.00		

TDAB TYPE INSERTS



I.C.	T	R	Uncoated CM2 C1/C2	Coated CVM2 C1/C2	Uncoated CS7 C6/C7	Coated CV7 C6/C7	Coated TL120
			\$7.50 ea	\$8.25 ea	\$7.50 ea	\$8.25 ea	\$8.75 ea
.160	.047	.002	US-751	US-761	US-756	US-771	US-781
		.007	US-752	US-762	US-757	US-772	US-782
		.015	US-753	US-763	US-758	US-773	US-783

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 Finish, Finish
TL120	TiAlN Coated	High Temp Alloys, Stainless Steels	Semi Finish, Finish

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