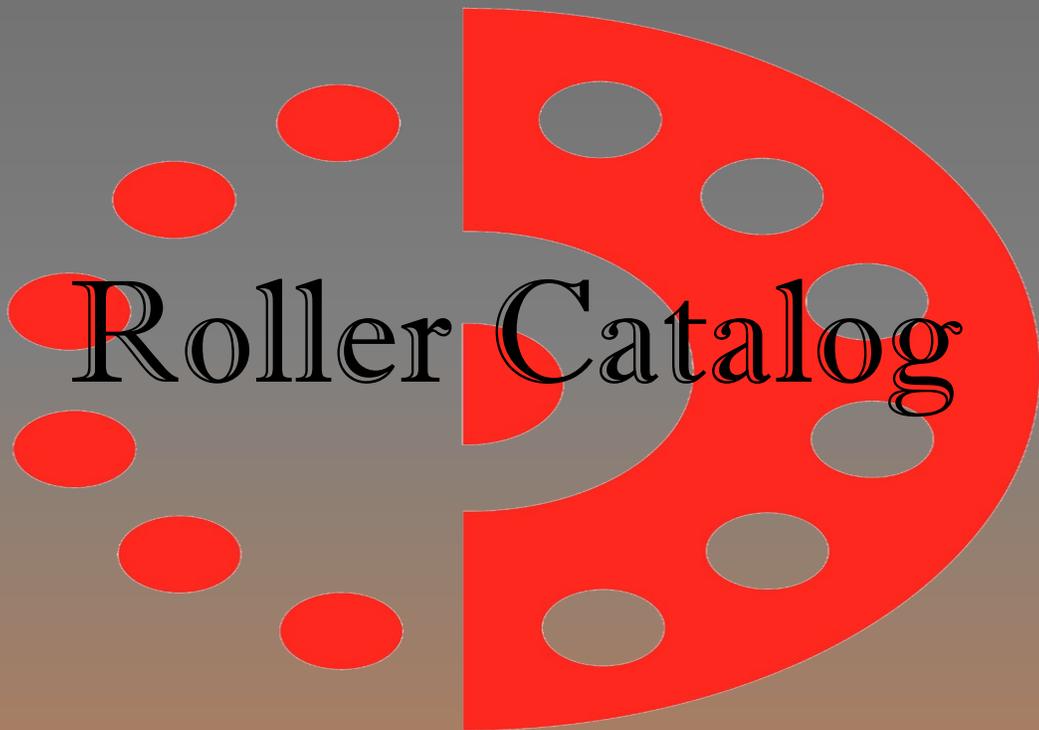


USDI



Roller Catalog

85 Morganton Industrial Park

Morganton, GA. 30560

Phone: 800-531-3560

Fax: 877-285-8941



2019

Version 1.1

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1.9" OD Light Duty

Roller Pg. 5



1.9" OD Heavy Duty

Roller Pg. 6



1.9" OD Precision

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2.5" OD Light Duty

Roller Pg. 8



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3/4" OD Light Duty Rollers



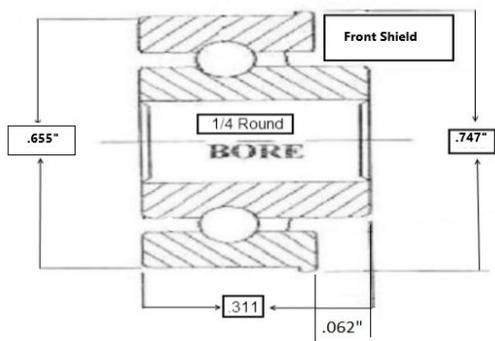
Tube: 3/4" OD 18 gauge .049" wall thickness

Axle: 1/4" Round

Spring retained

Bearing: UGF.250X.655-Z

Load Rating: 70 lbs



1.9" OD Light Duty Rollers



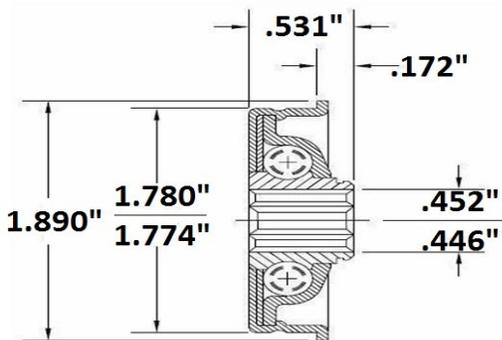
Tube: 1.9" OD 16 gauge .065" wall thickness

Axle: 7/16" Hex

Spring retained

Bearing: CB-107H05

Load Rating: 280 lbs



1.9" OD Heavy Duty Roller



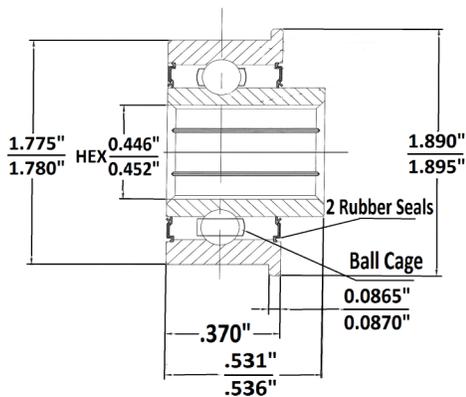
Tube: 1.9" OD 16 gauge .065" wall thickness

Axle: 7/16" Hex

Spring retained

Bearing: CBUG1.9-2RS, CBUG1.9-2RSK*

Load Rating: 1645 lbs



*CBUG1.9-2RSK has knurled OD

1.9" OD Precision Roller



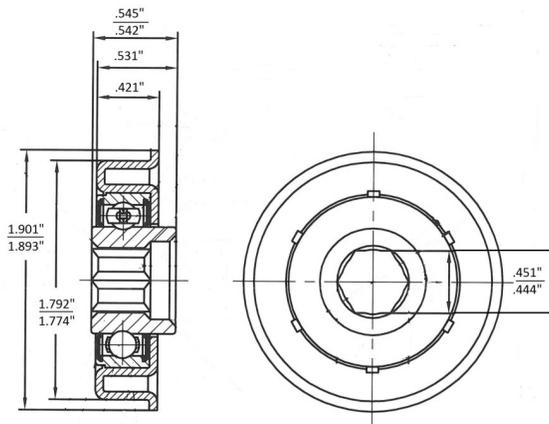
Tube: 1.9" OD 16 gauge .065" wall thickness

Axle: 7/16" Hex

Spring retained

Bearing: CBSF1.7X7/16

Load Rating: 1270 lbs



2.5" OD Light Duty Roller



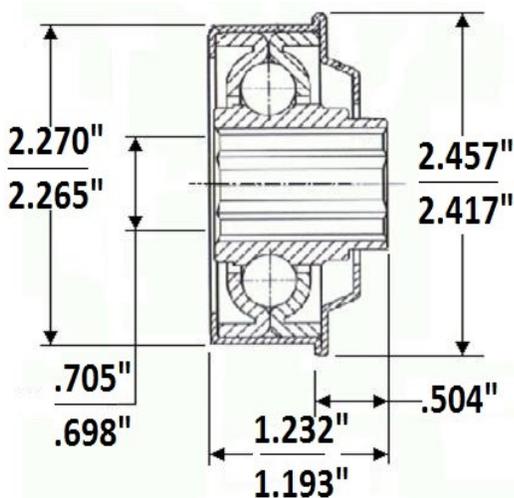
Tube: 2.5" OD 11 gauge .120" wall thickness

Axle: 11/16" Hex

Spring retained

Bearing: CB-2511H Series

Load Rating: 800 lbs



CB-2511H00 No Seals
CB-2511H32 Polymer Seals
CB-2511H42 Felt & Polymer Seal

2.5" OD Heavy Duty Roller



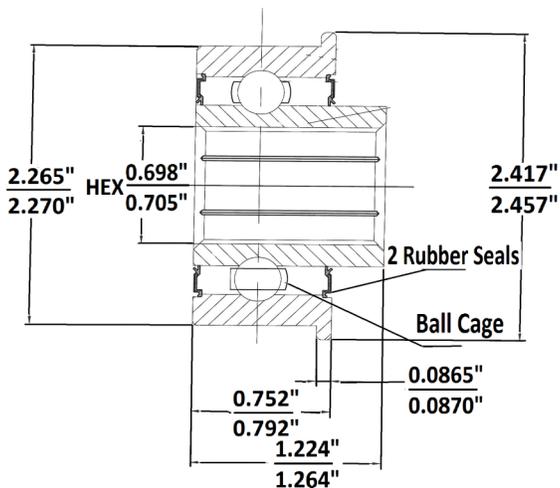
Tube: 2.5" OD 11 gauge .120" wall thickness

Axle: 11/16" Hex

Spring retained

Bearing: CBUG2.265-2RS & CBUG2.265-2RSK*

Load Rating: 2500 lbs



*CBUG2.265X11/16-2RSK has knurled OD

2.5" OD Precision Rollers



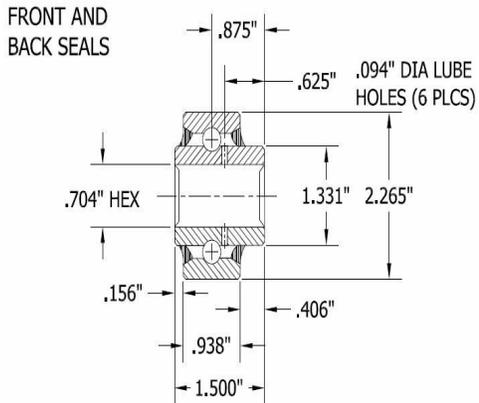
Tube: 2.5" OD 11 gauge .120" wall thickness

Axle: 11/16" Hex

Spring retained

Bearing: HDCB0511, HDCB0511-NR, CBSF2.265X11/16

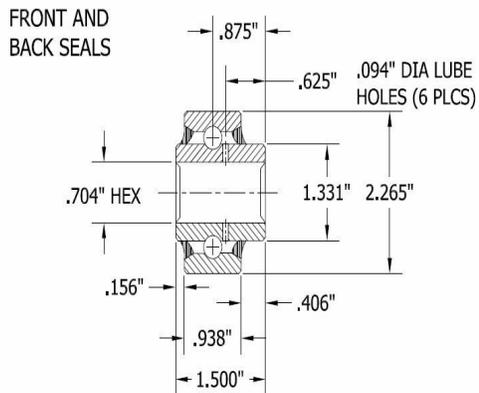
Load Rating: 2500 lbs



HDCB0511

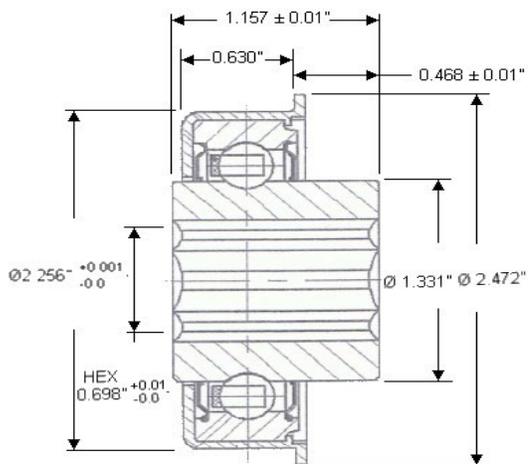


2.5" OD Precision Rollers



SNAP RING OD: 2.5

HDCB0511-NR



CBSF2.265



Alloy Bond Rollers

A cost effective alternative to Stainless Steel

Alloy Bond is a two step process using **VOC Compliant** paint and primer.

Red Iron Oxide is used as the primer for **Maximum Rust Resistance**

Top Coat is 100% Stainless Steel Pigment for **Super Corrosion Resistance**

Authorized by USDA for use in Federally Inspected Meat and Poultry Plants

Alloy Bond can be applied to any of our rollers



Both pieces of steel we left in the elements for four months. The left roller was treated with the **Alloy Bond Process**.

Replacement Roller Worksheet

Use this worksheet to gather all the information needed for a roller quote

“A” (OD in inches): _____

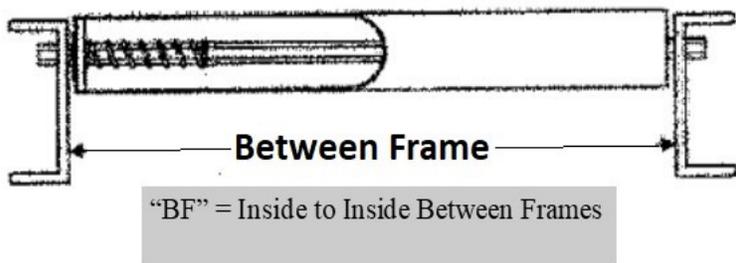
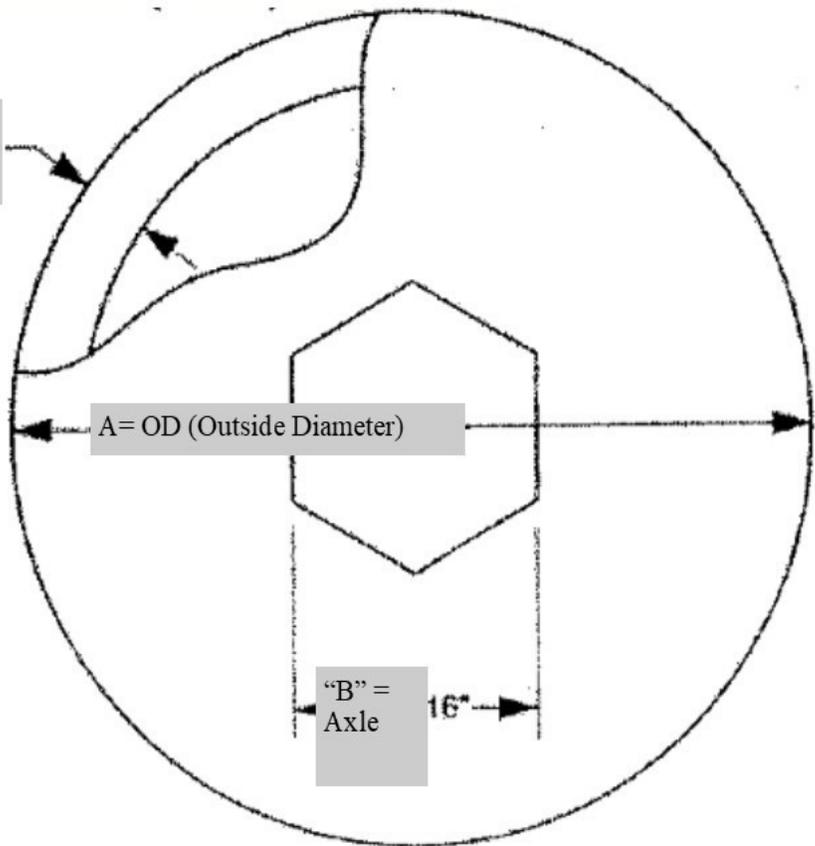
“B” (Axle size in inches): _____
 ~~~~~  
 Type:    Hex [ ] Round [ ]  
 ~~~~~  
 Retained: Spring [] Pinned []

“C” (Wall/Gauge): _____

“BF” (Between Frame—inside to inside in inches) _____

Surface Finish (Plain Steel unless otherwise noted below):
 Plain Steel: []
 Galvanized: []
 Coated:
 Type: _____

“C” = Wall Thickness (Gauge)



OR:

Actual Roller Length: _____

Actual Axle Length: _____

Interchange Chart

Conveyor Bearings

USDI	Frantz	Mathews	USDI	Frantz	Mathews
CB-385R79	3879	B1000-1	Skate Wheels		
CB-385R79	3879	B1001-1	SW1.9X250	50	B4000-1
CB-297H10	2900	B1020-1	SW1.9X250A	21A	B4001-1
CB-297H10	2900-G	B1020-2	SW1.9X250	75	
CB-297H10	2900	B1030-2	SW1.9X250	100	
CB-297H10	2900	B1040-2	SW1.9XN250	150	
CB-2511H00	2500	B1060-1	SW1.9X320	25	
CB-2511H00	2500-G	B1060-2	SW1.9XN320	30	
CB-2511H42	2542	B1064-2	CW2.75X320	2758	
CB-2511H42	2542	B1065-1	CW2.75XO320	2759	B4050-1
CB-2611H00	2600	B1070-1	CW2.75X375	2765	
CB-2611H10	2610	B1070-2	SW4X750		B4080-1
CB-2611H42	2642	B1073-1	Ball Transfers		
CB-2611H42	2642	B1073-2	BTF1-2H	1100	B4500
CB-30116H90	3090	B1080-1	BTF1-2HSS	1100SS	B4501
CB-30116H80	3080	B1081-2	BTF1-2HN	1100N	B4502
CB-30116H92	3092	B1082-2	BTF1.5-4H		B4520
CB-30116H90	3090	B1083-2	Heavy Duty Precision Bearing		
CB-30116H82	3082	B1084-2	HDCB0511		B1150-2
CB-30116H82	3082	B1086-1	HDCB0611		B1160-2
CB-017H19	119	B1230-1	HDCB0611-RH		B1161-2
CB-017H19	119	B1230-2			
CB-125H76	1276	B1260-1			
CB-297H10	2910	B1270-1			
CB-125H76	1276	B5234			
CB-107H05	1005	B5239			
CB-177H05	1705	B5241			

Interchange Chart

Unground Semi-Precision Bearings

USDI	Killan	Schatz	Nice	USDI	Killan	Schatz	Nice
UG.1875X.6875	SR-253	A1222		SP.625X1.750-2RS			1633-2RS
SP.1875X.4375-2RS			1601-2RS	SP.750X1.625-2RS			1630-2RS
UG.250X.6875	SR-254	A1622		SP.750X1.750-2RS			1635-2RS
UG.250X.750	SR-255	A1624		SP.750X2.00-2RS			1638-2RS
SP.1875X.4375-2RS			1602-2RS	SP.875X2.00-2RS			1640-2RS
UG.250X1.00	SR-290	A1632		UG1.00X2.00		A6464	
UG.3125X.875	SR-268	A2028		SP1.00X2.00-2RS			1641-2RS
SP.3125X.875			1603-2RS	SP1.250X2.50-2RS			1652-2RS
SP.3125X.9062-2RS			1605-2RS	SP1.250X2.5625-2RS			1657-2RS
UG.3125X1.0625	SR-312	A2034B		SP1.312X2.5625-2RS			1658-2RS
UG.375X.875	SR-269	A2428		Flanged Unground			
SP.375X.875-2RS			1604-2RS	UGF.1875X.625		AF1220	
UG.375X.9062		A2429		UGF.250X.500			
SP.375X1.0625-2RS			1606-2RS	UGF.250X.6875	F-150	AF1622	
UG.375X1.125	SR-333	A2436		UGF.250X.750	F-155	AF1624	
SP.375X1.125-2RS			1614-2RS	UGF.250X.8125	F-160		
UG.4375X.9062		A2829		UGF.250X.875		AF1628	
SP.4375X.9062-2RS			1607-2RS	UGF.250X.9062	F-175-1	AF1629	
SP.4375X1.125-2RS			1615-2RS	UGF.3125X.875	F-165	AF2028	
SP.4375X1.3.75-2RS			1620-2RS	UGF..3125X.9062	F-175-2	AF2029	
UG.500X1.125	SR-337	A3236		UGF.3125X1.0625		AF2034	
SP.500X1.125-2RS			1616-2RS	UGF.375X.9062	F-175-2	AF2429	
UG.500X1.375	SR-381	A3244		UGF.375X.875		AF2428	
SP.500X1.375-2RS			1621-2RS	UGF.375X1.00	F-225		
UG.750X1.750		A3256		UGF.375X1.0625	F-250-2	AF2434	
SP.5625X1.375-2RS			1622-2RS	UGF.375X1.125	F-300-19	AF2436	
UG.625X1.375		A4044		UGF.4375X.9062	F-175-4	AF2829	
SP.625X1.375-2RS			1623-2RS	UGF.375X1.375	F-350-11	AF2444	
UG.625X1.625		A4052		UGF.4375X1.0625	F-250	AF2834	
SP.625X1.625-2RS			1628-2RS	UGF.500X1.125	F-300		

Interchange Chart

Unground Semi-Precision Bearings

USDI	Killan	Schatz	Nice	USDI	Killan	Schatz	Nice
SPSR.50X1.125-2RS			1616-2RSNR	SPSR.750X1.750-2RS			1635-2RSNR
UGF.500X1.125				UGF.750X2.00		AF4864	
UGF.500X1.875	F-310	AF3238		UGF.750X2.125		AF4868	
UGF.500X1.250		AF3240		UGF.750X2.250		AF4872	
UGF.500X1.375	F-350-12	AF3244		UGF.750X2.3125		AF4874	
SPSR.50X1.375-2RS			1621-2RSNR	UGF.875X2.0	F-1000		
UGF.500X1.500		AF3248		UGF.875X2.500		AF5680	
UGF.50X1.50-EX.INR			32703-01	UGF1.00X2.00	F-1000-4	AF6464	
UGF.500X1.5625	F-550	AF3250		SPSR1.00X2.00			1641-2RSNR
UGF.500X1.625		AF3252		UGF1.00X2.00-2RS		TW25	
UGF.500X1.750		AF3256		UGF1.00X2.125		AF6468	
UGF.500X1.875		AF3256		UGF1.00X2.125-2RS		AF6468	
UGF.500X2.125		AF3268		UGF1.00X2.250		AF6472	
UGF.5625X1.250	F-325			UGF1.25X2.125	F-1100		
UGF.5625X1.375		AF3644		UGF1.250X2.500		AF8080	
SPSR.5625X1.375-2RS			1622-2RSNR	Flanged Hex Bore			
UGF.5625X1.500		AF3648		UGFH.3125X.875		AFH2028	
UGF.625X1.250		AF4040		UGFH.3125X1.125		AFH2036	
UGF.625X1.375	F-350-13	AF4044		UGFH.375X1.125		AFH2436	
SPSR.625X1.375-2RS			1623-2RSNR	UGFH.4375X1.125		AFH2836	
UGF.625X1.50-2RS		TW10		UGFH.4375X1.375		AFH2844	
UGF.625X1.875	F-850			UGFH.4375X1.500		AFH2848	
UGF.6875X1.500	F-500	AF4448		UGFH.4375X1.750		AFH2856	
UGF.750X1.375-2RS	F350-89	AF4844		UGFH.4375X2.125		AFH2868	
UGF.750X1.625	F-600-3			UGFH.500X1.500		AFH3248	
SPSR.750X1.625-2RS			1630-2RSNR	UGFH.625X1.750		AFH4056	
UGF.750X1.6875	F-700			UGFH.7500X2.00		AFH4864	
UGF.750X1.750	F-750	AF4856					

Pipe Size Chart & Fraction to Decimal

TUBE / PIPE SIZES (to assist in Bearing selection)

Sheet Metal Gauges		Approximate Tubing OD / ID				Dimensions of WELDED & SEAMLESS WROUGHT STEEL PIPE				
Gauge	Decimal	OD (in.)	Gauge	Wall (in.)	ID (in.)	Nom. Size(in)	Sched-ule	Wall (in.)	Actual ID	Actual OD
1	0.28125	1	18	0.049	0.902	1	40	0.133	1.049	1.315
2	0.26562	1	16	0.065	0.870	1	80	0.179	0.957	1.315
3	0.23910	1	14	0.083	0.834	1-1/4	40	0.140	1.380	1.660
4	0.22420	1-1/4	18	0.049	1.152	1-1/4	80	0.191	1.278	1.660
5	0.20920	1-1/4	16	0.065	1.120	1-1/2	40	0.145	1.610	1.900
6	0.19430	1-1/4	14	0.083	1.084	1-1/2	80	0.200	1.500	1.900
7	0.17930	1-3/8	18	0.049	1.277	2	40	0.154	2.067	2.375
8	0.16440	1-3/8	16	0.065	1.245	2	80	0.218	1.939	2.375
9	0.14950	1-3/8	14	0.083	1.209	2-1/2	40	0.203	2.469	2.875
10	0.13450	1-1/2	18	0.049	1.402	2-1/2	80	0.276	2.323	2.875
11	0.11960	1-1/2	16	0.065	1.370	2-1/2	160	0.375	2.125	2.875
12	0.10460	1-1/2	14	0.083	1.334	3	40	0.216	3.068	3.500
13	0.08970	1-7/8	18	0.049	1.777	3	80	0.300	2.900	3.500
14	0.07470	1-7/8	16	0.065	1.745	3	160	0.438	2.624	3.500
15	0.06730	1.9	17	0.058	1.784	3-1/2	40	0.226	3.548	4.000
16	0.05980	1.9	16	0.065	1.770	3-1/2	80	0.318	3.364	4.000
17	0.05380	1.9	14	0.083	1.734					
18	0.04780	1.9	12	0.109	1.682					
19	0.04180	1.9	11	0.120	1.660					
20	0.03590	1.9	9	0.148	1.604					
21	0.03290	2	20	0.035	1.930					
22	0.02990	2	18	0.049	1.902					
23	0.02690	2	16	0.065	1.870					
24	0.02390	2	14	0.083	1.834					
25	0.02090	2-1/4	18	0.049	2.152					
26	0.01790	2-1/4	16	0.065	2.120					
27	0.01640	2-1/4	14	0.083	2.084					
28	0.01490	2-1/2	14	0.083	2.334					
29	0.01350	2-1/2	13	0.095	2.310					
30	0.01200	2-1/2	12	0.109	2.282					
31	0.01094	2-1/2	11	0.120	2.260					
32	0.01016	2-9/16	7	0.180	2.202					
33	0.00938	3	13	0.095	2.810					
34	0.00859	3	11	0.120	2.760					
35	0.00781	3	10	0.134	2.732					
36	0.00703	3-1/4	11	0.120	3.010					
37	0.00664	3-1/4	9	0.148	2.954					
38	0.00625									

8ths	16ths	32nds	64ths
1/8 - .125	1/16 - .0625	1/32 - .0312	1/64 - .0156
1/4 - .250	3/16 - .1875	3/32 - .0938	3/64 - .0469
3/8 - .375	5/16 - .3125	5/32 - .1562	5/64 - .0781
1/2 - .500	7/16 - .4375	7/32 - .2188	7/64 - .1094
5/8 - .625	9/16 - .5625	9/32 - .2812	9/64 - .1406
3/4 - .750	11/16 - .6875	11/32 - .3438	11/64 - .1719
7/8 - .875	13/16 - .8125	13/32 - .4062	13/64 - .2031
	15/16 - .9375	15/32 - .4688	15/64 - .2344
		17/32 - .5312	17/64 - .2656
		19/32 - .5938	19/64 - .2969
		21/32 - .6562	21/64 - .3281
		23/32 - .7188	23/64 - .3594
		25/32 - .7812	25/64 - .3906
		27/32 - .8438	27/64 - .4531
		29/32 - .9062	31/64 - .4844
		31/32 - .9688	33/64 - .5156
			35/64 - .5469
			37/64 - .5781
			39/64 - .6094
			41/64 - .6406
			43/64 - .6719
			45/64 - .7031
			47/64 - .7344
			49/64 - .7656
			51/64 - .7969
			53/64 - .8281
			55/64 - .8594
			57/64 - .8906
			59/64 - .9219
			61/64 - .9531
			63/64 - .9844

Notes

Notes

USDI Tools

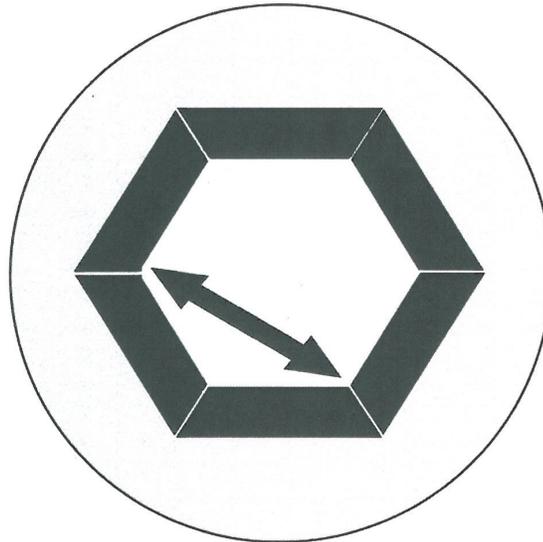
How to Measure a Hex Bore



To Properly Measure a HEX Bore Dimension:

(Think of a the hex as a clock - DO NOT measure flat to flat.)

1. Place one caliper end at the groove (not at the flat) at 6:00.
2. Place the other caliper end at the groove at either 10:00 or 2:00.



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