



**BALL
BEARINGS**

WJB BEARINGS INC.

A Subsidiary of **WJB GROUP**



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BALL BEARING NUMBERING SYSTEM

The WJB bearing numbering system utilizes a basic bearing number to indicate the appropriate bearing series, and a complementary set of prefix and suffix designations which allow a complete description of any bearing configuration.

The sequence of WJB designations and their meanings is shown below.

1 Material	2 Type	3 Basic Bearing No.	4 Closure	5 Retainer	6 O.D. Modification	7 I.D. Modification	8 Internal Clearance	9 ABEC Tolerance	10 Noise Level	11 Lubrication
S	F	608	2RS	M				A3		LG1
	R	8	2RS						EMQ	LG3
D	MF	126	ZZ							LO1
		6203	2RS			5/8	C3	A3		LG1
		1641	2RS	TN	NR					LG2

1. Material

Blank: SAE52100 Chrome Bearing Steel
S: AISI440C Stainless Steel

D: AISI300 series Stainless Steel
C: Carbon Steel

2. Type

F: Flanged Bearings
FR: Flanged inch miniature bearings
MF: Flanged metric miniature bearing

R: Miniature Inch sizes
MR: Metric miniature bearing
W: Wider width

3. Basic Bearing Number

Please see the following pages

4. Closure

Blank: Open
Z: Single shielded
ZZ: Double shielded
RS: Single Rubber Seal
2RS: Double Rubber Seal
V: Single Non-contact Seal
VV: Double Non-contact seal

RST: Single trash Seal
2RST: Double trash Seal
TS: Single Teflon Seal
2TS: Double Teflon Seal
2VS: Double Viton Seal
ZB: Shield opposite flange or snap ring side
ZS: Shield on flange or snap ring side

5. Retainer

Blank: Steel
M: Brass or Bronze

TN: Nylon

6. O.D. Modification

N: Grooved without ring

NR: Grooved with ring on

7. I.D. Modification

13mm: 13mm Bore
15mm: 15mm Bore
16mm: 16mm Bore

10: 5/8 inch Bore
16: 1 inch Bore
3/4: 3/4 inch Bore

8. Internal Clearance

Blank: Standard(C0)
C2: Tight

C3: Loose
C4: Extra Loose

9. Tolerance

Blank: ABEC-1
A3: ABEC-3

A5: ABEC-5
A7: ABEC-7

10. Noise Level

Blank: Standard

EMQ: Electric Motor Quality

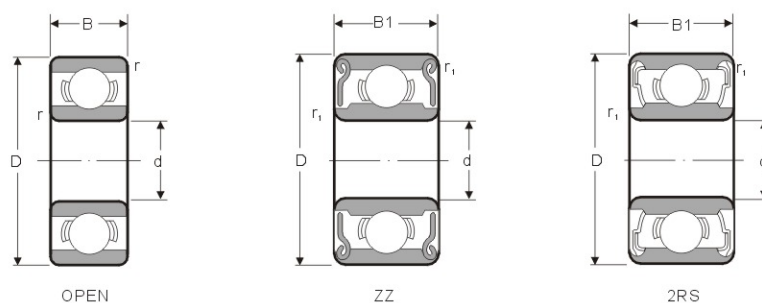
11. Lubrication

LD: Dry Bearing
LO: Oil Lube

LG: Grease Lube
LS: Silicone Lube

MINIATURE & INSTRUMENT BALL BEARINGS

Metric series

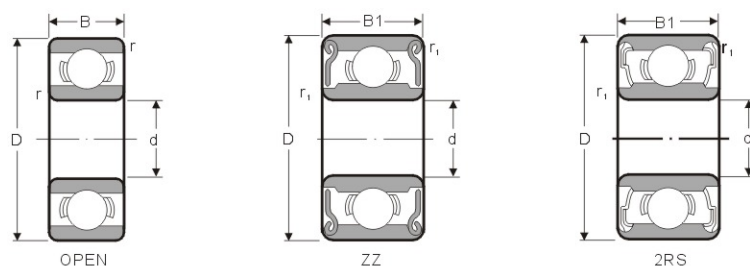


WJB Bearing No.	Bore d mm	Outer Diameter D mm	Width		Radius r r ₁ mm	Ball Complement		Basic Load Rating lbs		Weight lbs	Ref. No.	
			Open B mm	Shielded B1 mm		No.	Size inch	Dynamic Cr	Static Cor		NMB	RMB
681	1	3	1	-	0.05	7	0.5mm	18	5	-	L310	UL103
MR31	1	3	1.5	-	0.05	7	0.5mm	18	5	-		
691	1	4	1.6	-	0.10	6	1/32	24	8	-	R410	
MR41X	1.2	4	1.8	2.5	0.10	6	1/32	24	8	-		
681X	1.5	4	1.2	2	0.05	7	0.635mm	20	7	-	L415	UL154
691X	1.5	5	2	2.6	0.15	7	1/32	29	11	-	R515	R1550
601X	1.5	6	2.5	3	0.15	6	3/64	55	22	-	R615	
682	2	5	1.5	2.3	0.08	7	1/32	29	11	-	L520	UL205
MR52	2	5	2	2.5	0.10	6	3/64	37	11	-		
692	2	6	2.3	3	0.15	6	3/64	55	22	-	R620	R2060
MR62	2	6	2.5	2.5	0.15	6	3/64	60	22	-		
MR72	2	7	2.5	3	0.15	7	3/64	65	26	-		
602	2	7	2.8	3.5	0.15	7	3/64	66	29	0.001	R720	
682X	2.5	6	1.8	2.6	0.08	8	1/32	35	14	-	L625	UL256
692X	2.5	7	2.5	3.5	0.15	7	3/64	66	29	-	R725	R2570
MR82X	2.5	8	2.5	-	0.20	6	1/16	64	24	-		
602X	2.5	8	2.8	4	0.15	6	1/16	64	24	0.001	R825	R2580
MR63	3	6	2	2.5	0.10	8	1/32	35	14	-	L630	
683	3	7	2	3	0.10	7	3/64	66	29	-	L730	UL307
MR83	3	8	2.5	-	0.15	6	1/16	64	24	-		
693	3	8	3	4	0.15	6	1/16	64	24	-	R830	
MR93	3	9	2.5	4	0.20	7	1/16	70	30	-		
603	3	9	3	-	0.15	7	1/16	99	42	0.002	R930	
623	3	10	4	4	0.15	7	1/16	99	42	0.003	R1030	R3100
633	3	13	5	5	0.20	-	-	266	98	0.005		
MR74	4	7	2	2.5	0.10	11	1/32	58	25	-	L740	
MR84	4	8	2	3	0.15	7	3/64	88	33	-	L840	
684	4	9	2.5	4	0.10	7	1/16	99	42	0.001	L940	UL409
MR104	4	10	3	4	0.20	8	1/16	99	42	0.002	L1040	
694	4	11	4	4	0.15	9	1/16	123	57	0.004	R1140	
604	4	12	4	4	0.20	7	2.00mm	167	77	0.005	R1240	
624	4	13	5	5	0.20	6	3/32	224	108	0.007	R1340	R4130
634	4	16	5	5	0.30	8	3/32	300	140	0.013	R1640	R4160

Most sizes are available from AISI440C stainless steel.
For AISI 440C stainless steel add "S" prefix. Example SMR85-ZZ, S623-ZZ etc.
Other sizes not listed above will be available upon request.

MINIATURE & INSTRUMENT BALL BEARINGS

Metric series

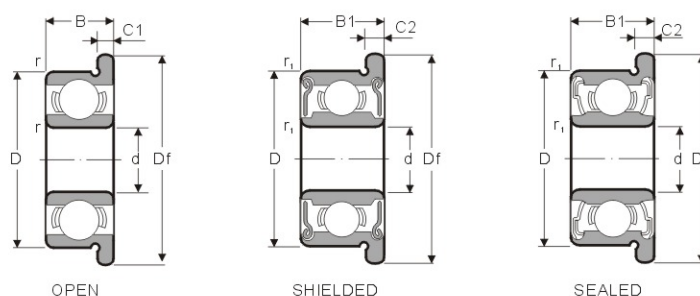


WJB Bearing No.	Bore d mm	Outer Diameter D mm	Width		Radius r r ₁ mm	Ball Complement		Basic Load Rating lbs		Weight lbs	Ref. No.	
			Open B mm	Shielded B1 mm		No.	Size inch	Dynamic Cr	Static Cor		NMB	RMB
MR85	5	8	2	2.5	0.10	13	1/32	62	31	-	L850	
MR95	5	9	2.5	3	0.15	10	3/64	112	46	0.001	L950	
MR105	5	10	3	4	0.15	8	1/16	115	55	0.002	L1050	
MR115	5	11	3	4	0.15	8	1/16	123	57	0.002		
685	5	11	3	5	0.15	9	1/16	123	57	0.003	L1150	UL511
695	5	13	4	4	0.20	8	2.0mm	187	90	0.005	R1350	
605	5	14	5	5	0.20	7	3/32	229	110	0.007	R1450	
625	5	16	5	5	0.30	8	3/32	300	140	0.010	R1650	R5160
635	5	19	6	6	0.30	6	5/32	400	190	0.017	R1950	
MR106	6	10	2.5	3	0.15	9	3/64	123	57	0.001	L1060	
MR126	6	12	3	4	0.20	10	1/16	187	82	0.002	L1260	
686	6	13	3.5	5	0.15	8	2.0mm	187	90	0.004	L1360	UL613
696	6	15	5	5	0.20	8	3/32	300	140	0.009	R1560	
606	6	17	6	6	0.30	8	3/32	300	140	0.013	R1760	
626	6	19	6	6	0.30	6	5/32	400	190	0.017	R1960	R6190
636	6	22	7	7	0.30	7	5/32	670	280	0.030		
MR117	7	11	2.5	3	0.15	9	3/64	101	46	0.001	L1170	
MR137	7	13	3	4	0.20	11	1/16	198	88	0.003	L1370	
687	7	14	3.5	5	0.15	9	2.0mm	202	103	0.004	L1470	UL714
697	7	17	5	5	0.30	7	3.0mm	235	120	0.012		
607	7	19	6	6	0.30	6	5/32	385	180	0.018	R1970	R7190
627	7	22	7	7	0.30	7	5/32	580	290	0.024	R2270	R7220
637	7	26	9	9	0.30	-	-	820	330	0.053		
MR128	8	12	2.5	3.5	0.15	11	3/64	115	57	0.001	L1280	
MR148	8	14	3.5	4	0.20	11	1/16	198	88	0.003	L1480	
688	8	16	4	5	0.20	9	3/32	310	160	0.007	L1680	UL816
698	8	19	6	6	0.30	7	3.5mm	285	145	0.014	R1980	
X117	8	22	6	6	0.30	7	5/32	580	290	0.020		
608	8	22	7	7	0.30	7	5/32	580	290	0.024	R2280	R8220
628	8	24	8	8	0.30	7	5/32	690	350	0.026		
638	8	28	9	9	0.30	-	-	1012	440	0.056		
689	9	17	4	5	0.20	9	3/32	310	143	0.013	L1790	UL917
699	9	20	6	6	0.30	9	3/32	528	231	0.017	L2090	
609	9	24	7	7	0.30	7	5/32	580	280	0.026		
629	9	26	8	8	0.30	7	3/16	790	400	0.040		
639	9	30	10	10	0.60	-	-	1045	462	0.070		

Most sizes are available from AISI440C stainless steel.
For AISI440C stainless steel add "S" prefix. Example SMR126-ZZ, S688-2RS.
Other sizes not listed above will be available upon request.

MINIATURE & INSTRUMENT BALL BEARINGS

Metric series, Flanged



WJB Bearing No.	Bore d mm	Outer Diameter mm		Flange Width		Width		Radius r mm	Basic Load Rating lbs		Weight lbs
		D	Df	C1	C2	Open B mm	Shielded B1 mm		Dynamic Cr	Static Cor	
F681	1	3	3.8	0.3	-	1	-	0.05	18	5	-
F691	1	4	5.0	0.5	-	1.6	-	0.10	24	9	-
MF41X	1.2	4	4.8	0.4	-	1.8	2.5	0.10	24	9	-
F681X	1.5	4	5.0	0.4	-	1.2	2	0.05	20	7	-
F691X	1.5	5	6.5	0.6	0.8	2	2.6	0.15	29	11	-
F601X	1.5	6	7.5	0.6	0.8	2.5	3	0.15	55	22	-
F682	2	5	6.1	0.5	0.6	1.5	2.3	0.08	29	11	-
MF52	2	5	6.2	0.6	0.6	2	2.5	0.10	29	11	-
F692	2	6	7.5	0.6	0.8	2.3	3	0.15	55	22	-
MF62	2	6	7.2	0.6	-	2.5	2.5	0.15	55	22	-
MF72	2	7	8.2	0.6	0.6	2.5	3	0.15	66	29	0.001
F602	2	7	8.5	0.7	0.9	2.8	3.5	0.15	66	29	0.001
F682X	2.5	6	7.1	0.5	0.8	1.8	2.6	0.08	35	14	-
F692X	2.5	7	8.5	0.7	0.9	2.5	3.5	0.15	66	29	0.001
MF82X	2.5	8	9.2	0.6	-	2.5	-	0.20	46	17	0.001
F602X	2.5	8	9.5	0.7	0.9	2.8	4	0.15	64	24	0.001
MF63	3	6	7.2	0.6	0.6	2	2.5	0.10	35	14	-
F683	3	7	8.1	0.5	0.8	2	3	0.10	66	29	-
MF83	3	8	9.2	0.6	-	2.5	-	0.15	64	24	0.001
F693	3	8	9.5	0.7	0.9	3	4	0.15	64	24	0.001
MF93	3	9	10.2*	0.6	0.8	2.5	4	0.20	99	42	0.001
F603	3	9	10.5	0.7	-	3	-	0.15	99	42	0.002
F623	3	10	11.5	1.0	1	4	4	0.15	99	42	0.004
MF74	4	7	8.2	0.6	0.6	2	2.5	0.10	58	25	-
MF84	4	8	9.2	0.6	0.6	2	3	0.15	88	33	0.001
F684	4	9	10.3	0.6	1	2.5	4	0.10	99	42	0.001
MF104	4	10	11.2*	0.6	0.8	3	4	0.20	99	42	0.002
F694	4	11	12.5	1	1	4	4	0.15	123	57	0.004
F604	4	12	13.5	1	1	4	4	0.20	167	77	0.005
F624	4	13	15.0	1	1	5	5	0.20	224	108	0.006
F634	4	16	18.0	1	1	5	5	0.30	300	140	0.012

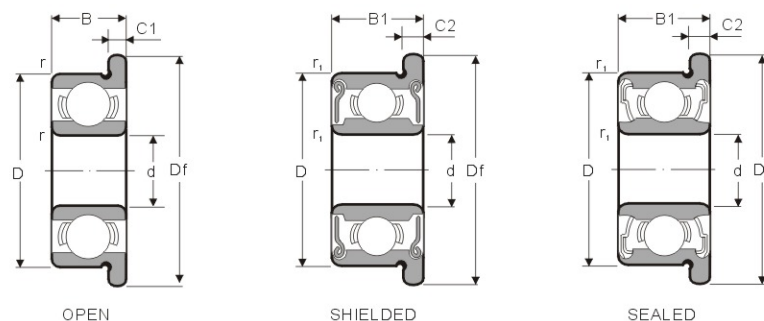
1. "*" Flange Diameter 0.4mm greater for shielded bearings.

2. Most sizes are available from AISI 440C stainless steel.

For AISI 440C stainless steel, add "S" prefix. Example SMF84-ZZ, SF684-ZZ etc.

MINIATURE & INSTRUMENT BALL BEARINGS

Metric series, Flanged



WJB Bearing No.	Bore d mm	Outer Diameter mm		Flange Width		Width		Radius r mm	Basic Load Rating lbs		Weight lbs
		D	Df	C1	C2	Open B mm	Shielded B1 mm		Dynamic Cr	Static Cor	
MF85	5	8	9.2	0.6	0.6	2	2.5	0.10	62	31	-
MF95	5	9	10.2	0.6	0.6	2.5	3	0.15	112	46	0.001
MF105	5	10	11.2*	0.6	0.8	3	4	0.15	115	55	0.002
MF115	5	11	12.6	-	0.8	-	4	0.15	123	57	0.002
F685	5	11	12.5	0.8	1	3	5	0.15	123	57	0.002
F695	5	13	15.0	1	1	4	4	0.20	187	90	0.005
F605	5	14	16.0	1	1	5	5	0.20	229	110	0.007
F625	5	16	18.0	1	1	5	5	0.30	300	140	0.017
F635	5	19	22.0	1.5	1.5	6	6	0.30	400	190	0.018
MF106	6	10	11.2	0.6	0.6	2.5	3	0.15	123	57	0.001
MF126	6	12	13.2*	0.6	0.8	3	4	0.20	187	82	0.002
F686	6	13	15.0	1	1.1	3.5	5	0.15	187	90	0.004
F696	6	15	17.0	1.2	1.2	5	5	0.20	300	140	0.009
F606	6	17	19.0	1.2	1.2	6	6	0.30	300	140	0.013
F626	6	19	22.0	1.5	1.5	6	6	0.30	400	190	0.018
MF117	7	11	12.2	0.6	0.6	2.5	3	0.15	101	46	0.001
MF137	7	13	14.2*	0.6	0.8	3	4	0.20	198	88	0.003
F687	7	14	16.0	1	1.1	3.5	5	0.15	202	103	0.005
F697	7	17	19.0	1.2	1.2	5	5	0.30	235	120	0.011
F607	7	19	22.0	1.5	1.5	6	6	0.30	385	180	0.017
F627	7	22	25.0	1.5	1.5	7	7	0.30	580	290	0.028
MF128	8	12	13.2*	0.6	0.8	2.5	3.5	0.15	115	57	0.001
MF148	8	14	15.6	0.8	0.8	3.5	4	0.20	198	88	0.004
F688	8	16	18.0	1	1.1	4	5	0.20	310	160	0.007
F698	8	19	22.0	1.5	1.5	6	6	0.30	285	145	0.016
F608	8	22	25.0	1.5	1.5	7	7	0.30	580	290	0.026
F689	9	17	19.0	1	1.1	4	5	0.20	310	143	0.007
F699	9	20	23.0	1.5	1.5	6	6	0.30	528	231	0.018
F609	9	24	27.0	1.5	1.5	7	7	0.30	580	280	0.020

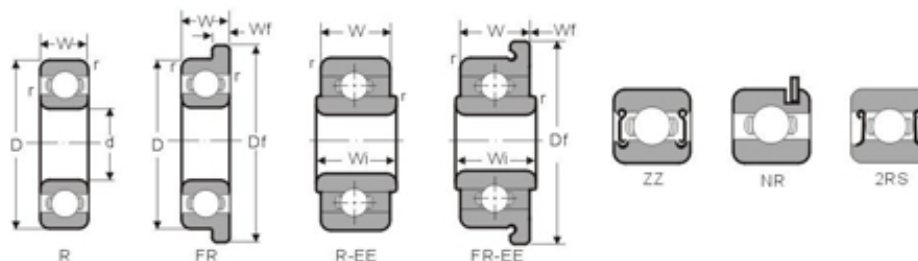
1. "*" Flange Diameter 0.4mm greater for shielded bearings.

2. Most sizes are available from AISI440C stainless steel.

For AISI440C stainless steel, add "S" prefix. Example SMF128-ZZ, SF688-ZZ etc.

SINGLE ROW RADIAL BALL BEARINGS

Inch Series R, FR, R-EE, FR-EE



WJB Bearing No.	Bore d		Outer Diameter D		Width				Flange Dimensions open		Radius r	Basic Load Rating lbs		Weight lbs
					W-inch		Wi-inch					Dynamic Cr	Static Cor	
	fraction	fraction	mm	inch	open	shielded	open	shielded	df	Wf	inch			
R09	1/25	.0400	1/8	.2500	.0469	-	-	-	-	-	.004	22	6	*
R0	3/64	.0469	5/32	.1562	.0625	.0937	.0937	.1250	.203	.013	.004	36	10	*
R1	-	.0550	3/16	.1875	.0781	.1094	.1094	.1406	.234	.023	.004	42	13	*
R1-4	5/64	.0781	1/4	.2500	.0937	.1406	.1250	.1719	.296	.023	.004	63	20	*
R133	3/32	.0937	3/16	.1875	.0625	.0937	.0937	.1250	.234	.018	.004	28	9.5	*
R1-5	3/32	.0937	5/16	.3125	.1094	.1406	.1406	.1719	.359	.023	.006	96	34	.001
R144	1/8	.1250	1/4	.2500	.0937	.1094	.1250	.1406	.296	.023	.004	64	22	*
R2-5	1/8	.1250	5/16	.3125	.1094	.1406	.1406	.1719	.359	.023	.004	26	40	.002
R2-6	1/8	.1250	3/8	.3750	.1094	.1406	.1406	.1719	.422	.023	.006	44	50	.002
R2	1/8	.1250	3/8	.3750	.1562	.1562	.1875	.1875	.440	.030	.012	44	50	.003
R2A	1/8	.1250	1/2	.5000	.1719	.1719	-	-	-	-	.012	58	89	.007
R155	5/32	.1562	5/16	.3125	.1094	.1250	.1406	.1562	.359	.023	.004	76	30	.001
R156	3/16	.1875	5/16	.3125	.1094	.1250	.1406	.1562	.359	.023	.004	89	32	.001
R166	3/16	.1875	3/8	.3750	.1250	.1250	.1562	.1562	.422	.023	.004	160	60	.002
R3	3/16	.1875	1/2	.5000	.1562	.1960	.2272	.2272	.565	.042	.012	295	110	.005
R3A	3/16	.1875	5/8	.5000	.1960	.1960	-	-	-	-	.012	295	110	.006
R168	1/4	.2500	3/8	.3750	.1250	.1250	.1562	.1562	.422	.023	.004	60	31	.001
R188	1/4	.2500	1/2	.5000	.1250	.1875	.1562	.2188	.547	.023	.006	186	84	.004
R4	1/4	.2500	5/8	.6250	.1960	.1960	.2272	.2272	.690	.042	.012	335	139	.010
R4A	1/4	.2500	3/4	.7500	.2188	.2812	-	-	-	-	.016	525	199	.017
R1810	5/16	.3125	1/2	.5000	.1562	.1562	.1875	.1875	.5470	.031	.005	117	57	*
R1038	3/8	.3750	5/8	.6250	.1562	.1562	-	-	-	-	.010	187	92	*
R1238	3/8	.3750	3/4	.7500	.1960	.1960	-	-	-	-	.010	385	189	*
R6	3/8	.3750	7/8	.8750	.2188	.2812	-	-	.969	.062	.016	745	315	.024
R1212	1/2	.5000	3/4	.7500	.1562	.1562	-	-	-	-	.010	200	114	*
R1412	1/2	.5000	7/8	.8750	.1960	.1960	-	-	-	-	.010	422	222	*
R8	1/2	.5000	1-1/8	1.1250	.2500	.3125	-	-	1.225	.062	.016	1148	535	.039
R1458	5/8	.6250	7/8	.8750	.1562	.1562	-	-	-	-	.010	202	130	*
R1658	5/8	.6250	1	1.0000	.1960	.1960	-	-	-	-	.010	462	295	*
R10	5/8	.6250	1-3/8	1.3750	.2812	.3438	-	-	-	-	.031	1347	734	.081
R1634	3/4	.7500	1	1.0000	.1562	.1562	-	-	-	-	.010	216	139	*
R1834	3/4	.7500	1-1/8	1.1250	.2812	.2812	-	-	-	-	.016	225	154	*
R12	3/4	.7500	1-5/8	1.6250	.3125	.4375	-	-	-	-	.031	1770	1018	.104
R14	7/8	.8750	1-7/8	1.8750	.3750	.5000	-	-	-	-	.031	2261	1316	.157
R16	1	1.0000	2	2.0000	.3750	.5000	-	-	-	-	.031	2261	1316	.187
R18	1-1/8	1.1250	2-1/8	2.1250	.3750	.5000	-	-	-	-	.031	2150	1407	.198
R20	1-1/4	1.2500	2-1/4	2.2500	.3750	.5000	-	-	-	-	.031	2973	1858	.209
R22	1-3/8	1.3750	2-1/2	2.5000	.4375	.5625	-	-	-	-	.031	2756	1910	.232
R24	1-1/2	1.5000	2-5/8	2.6250	.4375	.5625	-	-	-	-	.031	2906	2084	.309

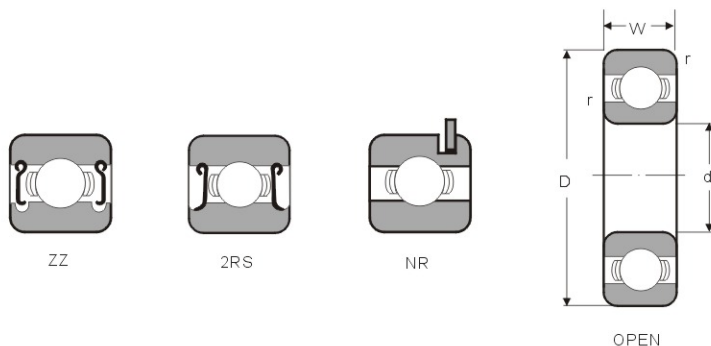
NOTES: Flange widths may be wider for shielded bearings. For flanged bearing add "F" prefix. Example: FR6ZZ.

Most items available from AISI 440C stainless steel. Add "S" prefix for AISI 440C stainless steel. e.g. SFR6-ZZ.

*Weight is less than 0.001 lbs.

SINGLE ROW RADIAL BALL BEARINGS

Inch Series 1600



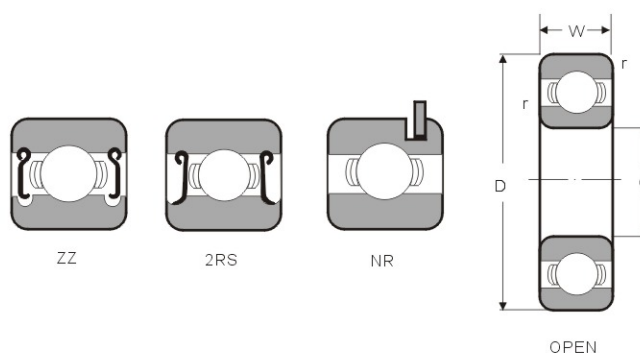
WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius r	Basic Load Rating lbs		Weight lbs
	fraction	inch	fraction	inch	fraction	inch		Dynamic Cr	Static Cor	
1601	3/16	.1875	11/16	.6875	1/4*	.2500*	0.012	350	167	.012
1602	1/4	.2500	11/16	.6875	1/4*	.2500*	0.012	350	167	.013
1603	5/16	.3125	7/8	.8750	9/32**	.2812**	0.012	686	310	.023
1604	3/8	.3750	7/8	.8750	9/32**	.2812**	0.015	686	310	.021
1605	5/16	.3125	29/32	.9062	5/16	.3125	0.012	725	318	.032
1606	3/8	.3750	29/32	.9062	5/16	.3125	0.015	725	318	.030
1607	7/16	.4375	29/32	.9062	5/16	.3125	0.015	725	318	.035
1614	3/8	.3750	1-1/8	1.1250	3/8	.3750	0.025	885	501	.077
1615	7/16	.4375	1-1/8	1.1250	3/8	.3750	0.025	885	501	.071
1616	1/2	.5000	1-1/8	1.1250	3/8	.3750	0.025	885	501	.066
1620	7/16	.4375	1-3/8	1.3750	7/16	.4375	0.025	1038	626	.105
1621	1/2	.5000	1-3/8	1.3750	7/16	.4375	0.025	1038	626	.106
1622	9/16	.5625	1-3/8	1.3750	7/16	.4375	0.025	1038	626	.101
1623	5/8	.6250	1-3/8	1.3750	7/16	.4375	0.025	1038	626	.088
1628	5/8	.6250	1-5/8	1.6250	1/2	.5000	0.025	1848	1055	.159
1630	3/4	.7500	1-5/8	1.6250	1/2	.5000	0.025	1848	1055	.143
1633	5/8	.6250	1-3/4	1.7500	1/2	.5000	0.025	1848	1055	.203
1635	3/4	.7500	1-3/4	1.7500	1/2	.5000	0.025	1848	1055	.187
1638	3/4	.7500	2	2.0000	9/16	.5625	0.035	1958	1165	.265
1640	7/8	.8750	2	2.0000	9/16	.5625	0.035	1958	1165	.247
1641	1	1.0000	2	2.0000	9/16	.5625	0.035	1958	1165	.221
1652	1-1/8	1.1250	2-1/2	2.5000	5/8	.6250	0.035	2592	1735	.463
1654	1-1/4	1.2500	2-1/2	2.5000	5/8	.6250	0.035	2592	1735	.419
1657	1-1/4	1.2500	2-9/16	2.5625	11/16	.6875	0.035	3362	2244	.474
1658	1-5/16	1.3125	2-9/16	2.5625	11/16	.6875	0.035	3362	2244	.441

1. *Width 5/16 inch for RS and 2RS. **Width 11/32 inch for RS and 2RS.
2. Add "S" prefix for AISI440C stainless steel, Example S1616-2RS.
3. Add "NR" suffix for snap ring, Example 1641-2RSNR.

SEMI-PRECISION BALL BEARINGS

Series 3000

The series 3000 semi-ground ball bearings correspond to series 1600 in basic sizes are designed to provide inexpensive, anti-friction bearing operation in applications where loads and speeds are moderate. These bearings are manufactured from selected chrome bearing steel and are case hardened to insure long life and maximum shock resistance. Bearings are ground on the outside diameter to insure proper housing fit. Maximum recommended speed is 2500 RPM. Bearings are available open, shielded or sealed and are factory lubricated with grease.



WJB Bearing No.	Bore d +.005/- .000		Outer Diameter D +.000/- Minus			Width W +.005		Basic Dynamic Load lbs
	fraction	inch	fraction	inch	minus	fraction	inch	
3001	3/16	.1875	11/16	.6875	-.0005	5/16*	.3125*	115
3002	1/4	.2500	11/16	.6875	-.0005	5/16*	.3125*	115
3003	5/16	.3125	7/8	.8750	-.0005	11/32**	.3437**	173
3004	3/8	.3750	7/8	.8750	-.0005	11/32**	.3437**	173
3005	5/16	.3125	29/32	.9062	-.0005	5/16	.3125	173
3006	3/8	.3750	29/32	.9062	-.0005	5/16	.3125	173
3007	7/16	.4375	29/32	.9062	-.0005	5/16	.3125	140
3014	3/8	.3750	1-1/8	1.1250	-.0005	3/8	.3750	266
3015	7/16	.4375	1-1/8	1.1250	-.0005	3/8	.3750	266
3016	1/2	.5000	1-1/8	1.1250	-.0005	3/8	.3750	266
3020	7/16	.4375	1-3/8	1.3750	-.0005	7/16	.4375	352
3021	1/2	.5000	1-3/8	1.3750	-.0005	7/16	.4375	352
3022	9/16	.5625	1-3/8	1.3750	-.0005	7/16	.4375	352
3023	5/8	.6250	1-3/8	1.3750	-.0005	7/16	.4375	352
3028	5/8	.6250	1-5/8	1.6250	-.0005	1/2	.5000	450
3030	3/4	.7500	1-5/8	1.6250	-.0005	1/2	.5000	450
3033	5/8	.6250	1-3/4	1.7500	-.0005	1/2	.5000	450
3035	3/4	.7500	1-3/4	1.7500	-.0005	1/2	.5000	450
3038	3/4	.7500	2	2.0000	-.0006	9/16	.5625	672
3040	7/8	.8750	2	2.0000	-.0006	9/16	.5625	672
3041	1	1.0000	2	2.0000	-.0006	9/16	.5625	672

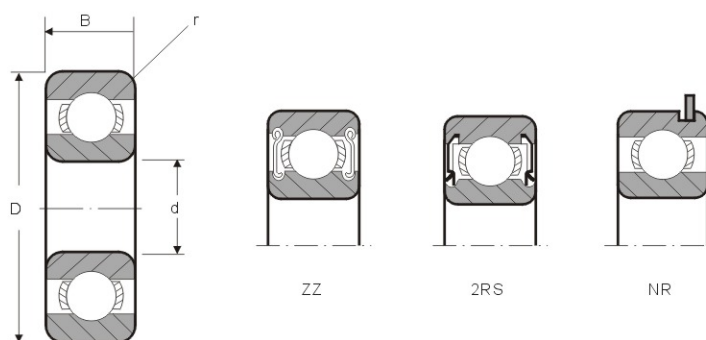
NOTES:

*width for open and shielded bearings is 1/4" (.2500).

**width for open and shielded bearings is 9/32" (.2812).

BALL BEARINGS

Inch Size RLS & RMS Series



RLS Series

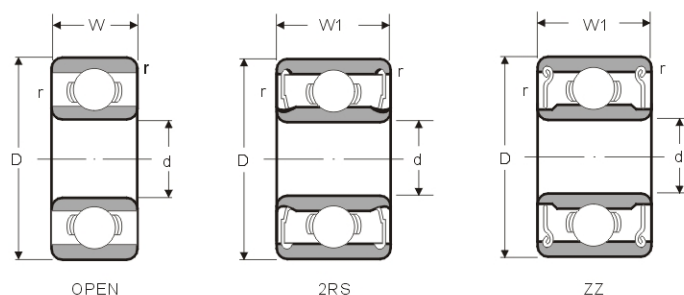
WJB Bearing No.	Boundary Dimensions							Basic Load Rating lbs		Limiting Speed rpm		Weight lbs
	d		D		B		r	Dynamic Cr	Static Cor	Grease ZZ, 2RS	Oil open	
	inch	mm	inch	mm	inch	mm						
RLS 4	1 / 2	12.700	1-5/16	33.338	3/8	9.525	1/32	520	380	20000	24000	0.03
RLS 5	5/8	15.875	1-9/16	39.688	7/16	11.112	1/22	720	430	17000	21000	0.06
RLS 6	3 / 4	19.050	1-7/8	47.625	9/16	14.288	1/16	1000	630	14000	17000	0.11
RLS 7	7/8	22.225	2	50.800	9/16	14.288	1/16	1200	760	13000	16000	0.13
RLS 8	1	25.400	2-1/4	57.150	5/8	15.875	1/16	1400	970	11500	14000	0.17
RLS 9	1-1/8	28.575	2-1/2	63.500	5/8	15.875	1/16	1530	1020	10000	12500	0.21
RLS 10	1-1/4	31.750	2-3/4	69.850	11/16	17.462	1/16	1830	1230	9200	11500	0.28
RLS 11	1-3/8	34.925	3	76.200	11/16	17.472	1/16	2010	1390	8400	10500	0.37
RLS 12	1-1/2	38.100	3-1/4	82.550	3 / 4	19.050	1/32	2400	1700	7800	9500	0.43

RMS Series

WJB Bearing No.	Boundary Dimensions							Basic Load Rating lbs		Limiting Speeds rpm		Weight lbs
	d		D		B		r	Dynamic Cr	Static Cor	Grease ZZ, 2RS	Oil open	
	inch	mm	inch	mm	inch	mm	inch					
RMS 4	1 / 2	12.700	1-5/8	41.275	5/8	15.875	1/16	900	570	17000	21000	0.10
RMS 5	5/8	15.875	1-13/16	46.038	5/8	15.875	1/16	1060	630	14000	17000	0.11
RMS 6	3 / 4	19.050	2	50.800	11/16	17.462	1/16	1240	850	13000	16000	0.16
RMS 7	7/8	22.225	2-1/4	57.150	11/16	17.462	1/16	1450	930	12000	15000	0.20
RMS 8	1	25.400	2-1/2	63.500	3 / 4	19.050	3/32	1860	1240	10000	12000	0.25
RMS 9	1-1/8	28.575	2-13/16	71.438	13/16	20.638	3/32	1810	1230	9600	12000	0.38
RMS 10	1-1/4	31.750	3-1/8	79.375	7/8	22.225	3/32	2350	1610	8400	10500	0.51

BALL BEARINGS

Series 16000,6700



Series 16000

WJB Bearing No.	Bore d		Outer Diameter D		Width W, W1		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	
16100	10	.3937	28	1.1024	8	.3150	1178	545	.050
16001	12	.4724	28	1.1024	7	.2756	1144	530	.042
16101	12	.4724	30	1.1811	8	.3150	1201	557	.055
16002	15	.5906	32	1.2598	8	.3150	1260	641	.060
16003	17	.6693	35	1.3780	8	.3150	1360	731	.065
16004	20	.7874	42	1.6535	8	.3150	1550	910	.105
16005	25	.9843	47	1.8504	8	.3150	1710	1070	.115
16006	30	1.1811	55	2.1654	9	.3543	2520	1650	.175
16007	35	1.3780	62	2.4409	9	.3543	2790	1830	.185
16008	40	1.5748	68	2.6772	9	.3543	2990	2060	.270
16009	45	1.7717	75	2.9528	10	.3937	3344	2552	.367
16010	50	1.9685	80	3.1496	10	.3937	3454	2772	.385
16011	55	2.1654	90	3.5433	11	.4331	4356	3652	.565
16012	60	2.3622	95	3.7402	11	.4331	4488	3916	.618
16013	65	2.5591	100	3.9370	11	.4331	4598	4202	.660
16014	70	2.7559	110	4.3307	13	.5118	6006	5302	.961
16015	75	2.9528	115	4.5276	13	.5118	6204	5676	1.019

Large sizes available upon request

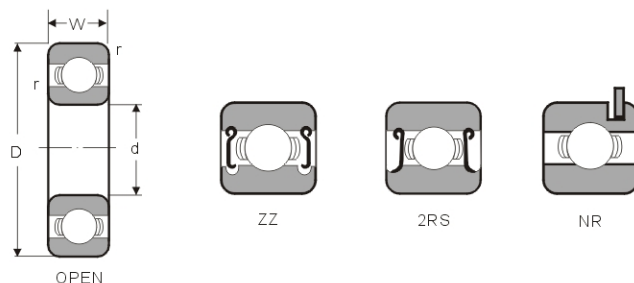
Series 6700

WJB Bearing No.	Bore d		Outer Diameter D		Width W, W1		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	
6700	10	0.3937	15	0.5906	3	0.1181	191	97	.003
6701	12	0.4724	18	0.7087	4	0.1575	207	119	.006
6702	15	0.5906	21	0.8268	4	0.1575	211	130	.007
6703	17	0.6693	23	0.9055	4	0.1575	224	147	.008
6704	20	0.7874	27	1.0630	4	0.1575	233	163	.012
6705	25	0.9843	32	1.2598	4	0.1575	242	187	.014
6706	30	1.1811	37	1.4567	4	0.1575	253	209	.016
6707	35	1.3780	44	1.7323	5	0.1969	418	363	.030
6708	40	1.5748	50	1.9685	6	0.2362	550	495	.046
6709	45	1.7717	55	2.1654	6	0.2362	583	539	.050

Other sizes available upon request.

SINGLE ROW RADIAL BALL BEARINGS

Series 6800 & 6900



WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius r		Basic Load Rating lbs		Weight lbs	
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	kg.	lbs.
6800	10	0.3937	19	0.7480	5	0.1969	0.5	0.019	410	208	0.005	0.011
6801	12	0.4724	21	0.8268	5	0.1969	0.5	0.019	430	234	0.006	0.013
6802	15	0.5906	24	0.9449	5	0.1969	0.5	0.019	465	283	0.007	0.015
6803	17	0.6693	26	1.0236	5	0.1969	0.5	0.019	630	385	0.008	0.018
6804	20	0.7874	32	1.2598	7	0.2756	0.5	0.019	900	555	0.019	0.042
6805	25	0.9843	37	1.4567	7	0.2756	0.5	0.019	965	665	0.022	0.053
6806	30	1.1811	42	1.6535	7	0.2756	0.5	0.019	1060	815	0.026	0.055
6807	35	1.3780	47	1.8504	7	0.2756	0.5	0.019	1100	905	0.029	0.063
6808	40	1.5748	52	2.0472	7	0.2756	0.5	0.019	1140	985	0.033	0.072
6809	45	1.7717	58	2.2835	7	0.2756	0.5	0.019	1419	1270	0.040	0.088
6810	50	1.9685	65	2.5591	7	0.2756	0.5	0.019	1480	1370	0.052	0.114
6811	55	2.1654	72	2.8346	9	0.3543	0.5	0.019	1980	1820	0.083	0.182
6812	60	2.3622	78	3.0709	10	0.3937	0.5	0.019	2580	2380	0.106	0.233
6813	65	2.5591	85	3.3465	10	0.3937	1	0.039	2610	2480	0.128	0.281
6814	70	2.7559	90	3.5433	10	0.3937	1	0.039	2720	2680	0.137	0.301
6815	75	2.9528	95	3.7402	10	0.3937	1	0.039	2820	2890	0.145	0.319
6816	80	3.1496	100	3.9370	10	0.3937	1	0.039	2850	2990	0.154	0.338
6817	85	3.3465	110	4.3307	13	0.5118	1.5	0.059	4200	4250	0.270	0.594
6818	90	3.5433	115	4.5276	13	0.5118	1.5	0.059	4250	4450	0.285	0.627
6819	95	3.7402	120	4.7244	13	0.5118	1.5	0.059	4350	4650	0.300	s0.660
6820	100	3.9370	125	4.9213	13	0.5118	1.5	0.059	4400	4750	0.313	0.668

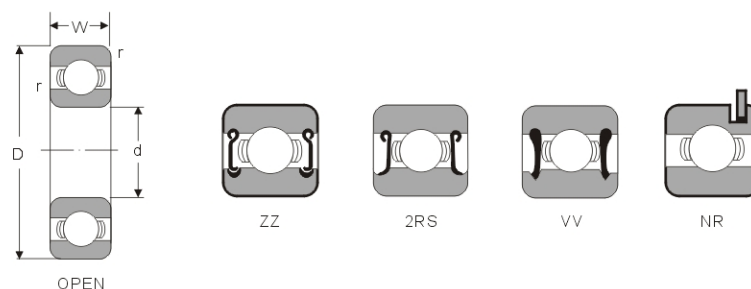
WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius r		Basic Load Rating lbs		Weight lbs	
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	kg.	lbs.
6900	10	.3937	22	.8661	6	.2362	0.5	.020	605	285	0.009	.020
6901	12	.4724	24	.9449	6	.2362	0.5	.020	650	330	0.011	.024
6902	15	.5906	28	1.1024	7	.2756	0.5	.020	920	460	0.016	.035
6903	17	.6693	30	1.1811	7	.2756	0.5	.020	1050	580	0.018	.040
6904	20	.7874	37	1.4567	9	.3543	0.5	.020	1430	825	0.036	.079
6905	25	.9843	42	1.6535	9	.3543	0.5	.020	1580	1020	0.042	.093
6906	30	1.1811	47	1.8504	9	.3543	0.5	.020	1630	1130	0.048	.106
6907	35	1.3780	55	2.1654	10	.3937	1	.039	2510	1670	0.074	.163
6908	40	1.5748	62	2.4409	12	.4724	1	.039	1140	985	0.110	.243
6909	45	1.7717	68	2.6772	12	.4724	1	.039	3400	2530	0.128	.282
6910	50	1.9685	72	2.8346	12	.4724	1	.039	3500	2750	0.132	.291
6911	55	2.1654	80	3.1496	13	.5118	1.5	.059	3600	2980	0.180	.397
6912	60	2.3622	85	3.3465	13	.5118	1.5	.059	3700	3200	0.193	.425
6913	65	2.5591	90	3.5433	13	.5118	1.5	.059	2610	2480	0.206	.454
6914	70	2.7559	100	3.9370	16	.6299	1.5	.059	5350	4750	0.335	.736
6915	75	2.9528	105	4.1339	16	.6299	1.5	.059	5500	5100	0.354	.778
6916	80	3.1496	110	4.3307	16	.6299	2	.079	5600	5400	0.374	.822
6917	85	3.3465	120	4.7244	18	.7087	2	.079	7200	6650	0.536	1.18
6918	90	3.5433	125	4.9213	18	.7087	2	.079	4250	4450	0.555	1.22
6919	95	3.7402	130	5.1181	18	.7087	2	.079	7550	7550	0.582	1.28
6920	100	3.9370	140	5.5118	20	.7874	2	.079	9250	8900	0.786	1.73

Large sizes available upon request.

For AISI440C stainless steel, add prefix "S" e.g. S6906-2RS.

SINGLE ROW RADIAL BALL BEARINGS

Series 6000

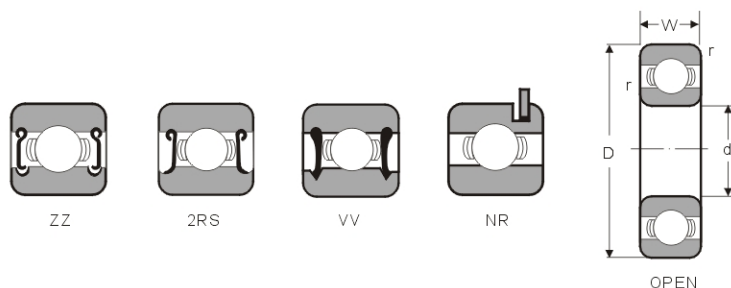


WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius r		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	
6000	10	.3937	26	1.0236	8	.3150	0.5	.020	1030	440	.042
6001	12	.4724	28	1.1024	8	.3150	0.5	.020	1150	540	.049
6002	15	.5906	32	1.2598	9	.3543	0.5	.020	1260	635	.066
6003	17	.6693	35	1.3780	10	.3937	0.5	.020	1530	755	.086
6004	20	.7874	42	1.6535	12	.4724	1.0	.039	2110	1140	.152
60/22	22	.8661	44	1.7323	12	.4724	1.0	.039	2110	1150	.163
6005	25	.9843	47	1.8504	12	.4724	1.0	.039	2260	1320	.176
60/28	28	1.1024	52	2.0472	12	.4724	1.0	.039	2800	1660	.216
6006	30	1.1811	55	2.1654	13	.5118	1.5	.059	2970	1860	.256
60/32	32	1.2598	58	2.2835	13	.5118	1.5	.059	3400	2050	.284
6007	35	1.3780	62	2.4409	14	.5512	1.5	.059	3600	2310	.342
6008	40	1.5748	68	2.6772	15	.5906	1.5	.059	3750	2590	.423
6009	45	1.7717	75	2.9528	16	.6299	1.5	.059	4700	3400	.540
6010	50	1.9685	80	3.1496	16	.6299	1.5	.059	4900	3750	.575
6011	55	2.1654	90	3.5433	18	.7087	1.5	.059	6350	4800	.849
6012	60	2.3622	95	3.7402	18	.7087	2.0	.079	6600	5200	.915
6013	65	2.5591	100	3.9370	18	.7087	2.0	.079	6850	5650	.959
6014	70	2.7559	110	4.3307	20	.7874	2.0	.079	8550	6950	1.33
6015	75	2.9528	115	4.5276	20	.7874	2.0	.079	8900	7550	1.41
6016	80	3.1496	125	4.9213	22	.8661	2.0	.079	10700	8950	1.87
6017	85	3.3465	130	5.1181	22	.8661	2.0	.079	11100	9700	1.96
6018	90	3.5433	140	5.5118	24	.9449	2.5	.098	13100	11200	2.56
6019	95	3.7402	145	5.7087	24	.9449	2.5	.098	13600	12100	2.67
6020	100	3.9370	150	5.9055	24	.9449	2.5	.098	13500	12200	2.76
6021	105	4.1339	160	6.2992	26	1.0236	3.0	.118	16300	14800	3.51
6022	110	4.3307	170	6.6929	28	1.1024	3.0	.118	18400	16400	4.32
6024	120	4.7244	180	7.0866	28	1.1024	3.0	.118	19100	17800	4.56
6026*	130	5.1181	200	7.8740	33	1.2992	3.0	.118	23900	22700	6.97
6028*	140	5.5118	210	8.2677	33	1.2992	3.0	.118	24700	24400	7.39
6030*	150	5.9055	225	8.8583	35	1.3780	3.5	.138	28300	28300	8.99
6032*	160	6.2992	240	9.4488	38	1.4961	3.5	.138	32000	32500	11.10
6034*	170	6.6929	260	10.2362	42	1.6535	3.5	.138	38000	38500	17.50
6036*	180	7.0866	280	11.0236	46	1.8110	3.5	.138	42500	44500	22.70
6038*	190	7.4803	290	11.4173	46	1.8110	3.5	.138	44000	48500	23.80
6040*	200	7.8740	310	12.2047	51	2.0079	3.5	.138	49000	54500	30.60

- * Not normal stock items. Contact us for availability.
- For AISI440C stainless steel, add "S" prefix, e.g. S6005-2RS.
Available from S6000 to S6012, open, ZZ and 2RS.

SINGLE ROW RADIAL BALL BEARINGS

Series 6200

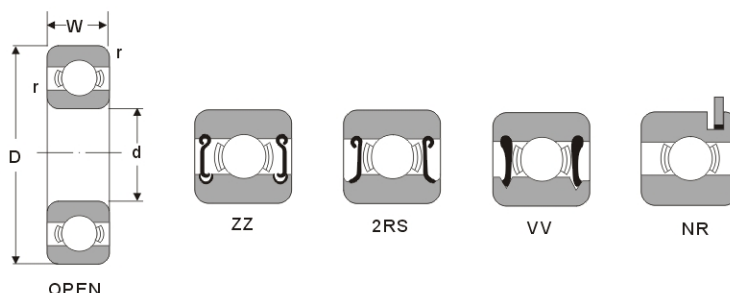


WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius r		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	
6200	10	.3937	30	1.1811	9	.3543	1.0	.039	1150	540	.071
6201	12	.4724	32	1.2598	10	.3937	1.0	.039	1370	615	.082
6201-8	12.7	.5000	32	1.2598	10	.3937	1.0	.039	1370	615	.082
6201-13mm	13	.5118	32	1.2598	10	.3937	1.0	.039	1370	615	.082
6202	15	.5906	35	1.3780	11	.4331	1.0	.039	1740	805	.099
6202-8	12.7	.5000	35	1.3780	11	.4331	1.0	.039	1740	805	.110
6202-10	15.875	.6250	35	1.3780	11	.4331	1.0	.039	1740	805	.090
6202-16mm	16	.6299	35	1.3780	11	.4331	1.0	.039	1740	805	.090
6203	17	.6693	40	1.5748	12	.4724	1.0	.039	2160	1030	.143
6203-8	12.7	.5000	40	1.5748	12	.4724	1.0	.039	2160	1030	.154
6203-15mm	15	.5906	40	1.5748	12	.4724	1.0	.039	2160	1030	.148
6203-10	15.875	.6250	40	1.5748	12	.4724	1.0	.039	2160	1030	.150
6203-16mm	16	.6299	40	1.5748	12	.4724	1.0	.039	2160	1030	.150
6203-12	19.05	.7500	40	1.5748	12	.4724	1.0	.039	2160	1030	.140
6204	20	.7874	47	1.8504	14	.5512	1.5	.059	2890	1500	.234
6204-12	19.05	.7500	47	1.8504	14	.5512	1.5	.059	2890	1500	.236
62/22	22	.8661	50	1.9685	14	.5512	1.5	.059	2900	1530	.258
6204-14	22.225	.8750	47	1.8504	14	.5512	1.5	.059	2890	1500	.230
6205	25	.9843	52	2.0472	15	.5906	1.5	.059	3150	1770	.282
6205-16	25.4	1.0000	52	2.0472	15	.5906	1.5	.059	3150	1770	.280
62/28	28	1.1024	58	2.2835	16	.6299	1.5	.059	4000	2190	.377
6206	30	1.1811	62	2.4409	16	.6299	1.5	.059	4400	2540	.439
62/32	32	1.2598	65	2.5591	17	.6693	1.5	.059	4625	2600	.498
6207	35	1.3780	72	2.8346	17	.6693	2.0	.079	5750	3450	.635
6208	40	1.5748	80	3.1496	18	.7087	2.0	.079	6550	4000	.807
6209	45	1.7717	85	3.3465	19	.7480	2.0	.079	7350	4600	.897
6210	50	1.9685	90	3.5433	20	.7874	2.0	.079	7900	5200	1.02
6211	55	2.1654	100	3.9370	21	.8268	2.5	.098	9750	6550	1.34
6212	60	2.3622	110	4.3307	22	.8661	2.5	.098	11800	8150	1.73
6213	65	2.5591	120	4.7244	23	.9055	2.5	.098	12900	9000	2.18
6214	70	2.7559	125	4.9213	24	.9449	2.5	.098	14000	9900	2.36
6215	75	2.9528	130	5.1181	25	.9843	2.5	.098	14900	11100	2.60
6216	80	3.1496	140	5.5118	26	1.0236	3.0	.118	16300	11900	3.09
6217	85	3.3465	150	5.9055	28	1.1024	3.0	.118	18700	14300	3.95
6218	90	3.5433	160	6.2992	30	1.1811	3.0	.118	21600	16100	4.74
6219	95	3.7402	170	6.6929	32	1.2598	3.5	.138	24500	18400	5.78
6220	100	3.9370	180	7.0866	34	1.3386	3.5	.138	27500	20900	6.92
6221	105	4.1339	190	7.4803	36	1.4173	3.5	.138	29900	23500	8.16
6222	110	4.3307	200	7.8740	38	1.4961	3.5	.138	32500	26300	9.61
6224	120	4.7244	215	8.4646	40	1.5748	3.5	.138	35000	29500	11.4
6226*	130	5.1181	230	9.0551	40	1.5748	4.0	.157	37500	33000	12.8
6228*	140	5.5118	250	9.8425	42	1.6535	4.0	.157	37500	33500	16.5
6230*	150	5.9055	270	10.6299	45	1.7717	4.0	.157	39500	37500	20.7
6232*	160	6.2992	290	11.4173	48	1.8898	4.0	.157	41500	42000	31.5
6234*	170	6.6929	310	12.2047	52	2.0472	5.0	.197	47500	50000	38.6
6236*	180	7.0866	320	12.5984	52	2.0472	5.0	.197	51000	54000	40.3
6238*	190	7.4803	340	13.3858	55	2.1654	5.0	.197	57500	63500	50.7
6240*	200	7.8740	360	14.1732	58	2.2835	5.0	.197	60500	70000	62.2

1. * Not normal stock items. Contact us for availability.

2. Add "S" prefix for AISI440C stainless steel, e.g. S6205-2RS. Available from S6200 to S6212, open, ZZ and 2RS.

SINGLE ROW RADIAL BALL BEARINGS



Series 6300

WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius r		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	
6300	10	.3937	35	1.3780	11	.4331	1.0	.039	1840	785	.117
6301	12	.4724	37	1.4567	12	.4724	1.5	.059	2180	940	.132
6302	15	.5906	42	1.6535	13	.5118	1.5	.059	2570	1220	.181
6303	17	.6693	47	1.8504	14	.5512	1.5	.059	3050	1470	.254
6304	20	.7874	52	2.0472	15	.5906	2.0	.079	3600	1770	.317
63/22	22	.8661	56	2.2047	16	.6299	2.0	.079	4100	2080	.511
6305	25	.9843	62	2.4409	17	.6693	2.0	.079	4750	2460	.511
63/28	28	1.1024	68	2.6772	18	.7087	2.0	.079	6000	3150	.633
6306	30	1.1811	72	2.8346	19	.7480	2.0	.079	6700	3800	.763
6306-20	31.75	1.2500	72	2.8346	19	.7480	2.0	.079	6700	3800	.749
63/32	32	1.2598	75	2.9528	20	.7874	2.0	.079	23000	16000	.842
6307	35	1.3780	80	3.1496	21	.8268	2.5	.098	7500	4300	1.01
6308	40	1.5748	90	3.5433	23	.9055	2.5	.098	9150	5400	1.40
6309	45	1.7717	100	3.9370	25	.9843	2.5	.098	11900	7200	1.84
6310	50	1.9685	110	4.3307	27	1.0630	3.0	.118	13900	8600	2.36
6311	55	2.1654	120	4.7244	29	1.1417	3.0	.118	16100	10100	3.02
6312	60	2.3622	130	5.1181	31	1.2205	3.5	.138	18400	11700	3.75
6313	65	2.5591	140	5.5118	33	1.2992	3.5	.138	20800	13400	4.59
6314	70	2.7559	150	5.9055	35	1.3780	3.5	.138	23400	15300	5.56
6315	75	2.9526	160	6.2992	37	1.4567	3.5	.138	25500	17400	6.66
6316	80	3.1496	170	6.6929	39	1.5354	3.5	.138	27600	19500	7.91
6317	85	3.3465	180	7.0866	41	1.6142	4.0	.157	29800	21800	9.33
6318	90	3.5433	190	7.4803	43	1.6929	4.0	.157	32000	24100	10.8
6319	95	3.7402	200	7.8740	45	1.7717	4.0	.157	34500	26600	12.5
6320	100	3.9370	215	8.4646	47	1.8504	4.0	.157	39000	31500	15.4
6321	105	4.1339	225	8.8583	49	1.9291	4.0	.157	41500	34500	17.7
6322	110	4.3307	240	9.4488	50	1.9685	4.0	.157	40000	40500	21.0
6324	120	4.7244	260	10.2362	55	2.1654	4.0	.157	46500	41500	27.3
6326*	130	5.1181	280	11.0236	58	2.2835	5.0	.197	51500	48000	33.3
6328*	140	5.5118	300	11.8110	62	2.4409	5.0	.197	57000	55500	40.8
6330*	150	5.9055	320	12.5984	65	2.5591	5.0	.197	61500	63500	57.8

Series 6400 Open only

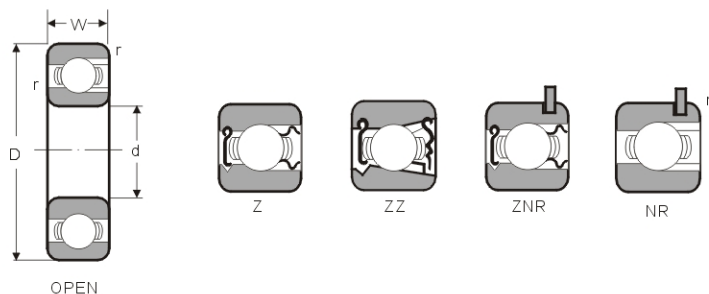
WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius r		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	
6403	17	.6693	62	2.4409	17	.6693	1.0	.039	5100	2420	.60
6404	20	.7874	72	2.8346	19	.7480	1.0	.039	6400	3150	.90
6405	25	.9843	80	3.1496	21	.8268	1.5	.059	4750	2460	1.19
6406	30	1.1811	90	3.5433	23	.9055	1.5	.059	9750	5350	1.59
6407	35	1.3780	100	3.9370	25	.9843	1.5	.059	12400	7000	2.06
6408	40	1.5748	110	4.3307	27	1.0630	2.0	.079	14300	8200	2.69
6409	45	1.7717	120	4.7244	29	1.1417	2.0	.079	17300	10100	3.41
6410	50	1.9685	130	5.1181	31	1.2205	2.0	.079	18700	11100	4.20
6411	55	2.1654	140	5.5118	33	1.2992	2.0	.079	20000	12100	5.13
6412	60	2.3622	150	5.9055	35	1.3780	2.0	.079	22900	14400	6.22
6413	65	2.5591	160	6.2992	37	1.4567	2.0	.079	24900	16200	7.44
6414	70	2.7559	180	7.0866	42	1.6535	2.5	.098	28800	20100	11.0
6415	75	2.9528	190	7.4803	45	1.7717	2.5	.098	31000	22300	13.1
6416*	80	3.1496	200	7.8740	48	1.8898	2.5	.098	37000	28200	15.3
6417*	85	3.3465	210	8.2677	52	2.0472	3.0	.118	37000	28700	18.8
6418*	90	3.5433	225	8.8583	54	2.1260	3.0	.118	41500	35500	25.4

1. * Not normal stock items, contact us for availability.

2. Add "S" prefix for AISI 440C stainless steel, e.g. S6304-2RS. Available from S6300 to S6311, open, ZZ and 2RS.

SINGLE ROW RADIAL BALL BEARINGS

Maximum-Capacity Type-Series M6200, M6300



Series M6200

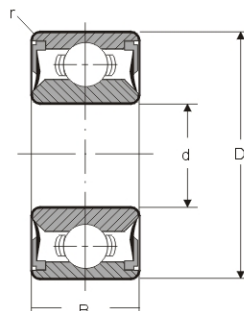
WJB Bearing No.	Bore d		Outer Diameter D		Width W		radius r		R		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	
M6205	25	.9843	52	2.0472	15	.5906	1.5	.059	0.5	.020	3800	2360	.312
M6206	30	1.1811	62	2.4409	16	.6299	1.5	.059	0.5	.020	5600	3650	.471
M6207	35	1.3780	72	2.8346	17	.6693	2	.079	0.5	.020	7400	4950	.700
M6208	40	1.5748	80	3.1496	18	.7087	2	.079	0.5	.020	8800	6250	.880
M6209	45	1.7717	85	3.3465	19	.7480	2	.079	0.5	.020	9900	7150	1.00
M6210	50	1.9685	90	3.5433	20	.7874	2	.079	0.5	.020	10300	7850	1.10
M6211	55	2.1654	100	3.9370	21	.8268	2.5	.098	0.5	.020	12800	9850	1.50
M6212	60	2.3622	110	4.3307	22	.8661	2.5	.098	0.5	.020	15500	12200	1.90
M6213	65	2.5591	120	4.7244	23	.9055	2.5	.098	0.5	.020	16900	13500	2.40
M6214	70	2.7559	125	4.9213	24	.9449	2.5	.098	0.5	.020	18300	14900	2.60
M6215	75	2.9528	130	5.1181	25	.9843	2.5	.098	0.5	.020	19100	16100	2.79
M6216	80	3.1496	140	5.5118	26	1.0236	3	.118	0.5	.020	22400	19100	3.50
M6217	85	3.3465	150	5.9055	28	1.1024	3	.118	0.5	.020	24000	20800	4.49
M6218	90	3.5433	160	6.2992	30	1.1811	3	.118	0.5	.020	29500	25700	5.50
M6219	95	3.7402	170	6.6929	32	1.2598	3.5	.138	0.5	.020	32000	27600	6.82
M6220	100	3.9370	180	7.0866	34	1.3386	3.5	.138	0.5	.020	36000	31500	8.03
M6221	105	4.1339	190	7.4803	36	1.4173	3.5	.138	0.5	.020	39000	35500	9.72
M6222	110	4.3307	200	7.8740	38	1.4961	3.5	.138	0.5	.020	42500	39500	11.30

Series M6300

WJB Bearing No.	Bore d		Outer Diameter D		Width W		radius r		r _i		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	
M6304	20	.7874	52	2.0472	15	.5906	2	.079	0.5	.020	4550	2530	.359
M6305	25	.9843	62	2.4409	17	.6693	2	.079	0.5	.020	6050	3500	.568
M6306	30	1.1811	72	2.8346	19	.7480	2	.079	0.5	.020	7400	4650	.858
M6307	35	1.3780	80	3.1496	21	.8268	2.5	.098	0.5	.020	9800	6450	1.10
M6308	40	1.5748	90	3.5433	23	.9055	2.5	.098	0.5	.020	12300	8050	1.50
M6309	45	1.7717	100	3.9370	25	.9843	2.5	.098	0.5	.020	14700	9900	2.10
M6310	50	1.9685	110	4.3307	27	1.0630	3	.118	0.5	.020	17200	11800	2.68
M6311	55	2.1654	120	4.7244	29	1.1417	3	.118	0.5	.020	21100	15200	3.41
M6312	60	2.3622	130	5.1181	31	1.2205	3.5	.138	0.5	.020	24100	17600	4.22
M6313	65	2.5591	140	5.5118	33	1.2992	3.5	.138	0.5	.020	27300	20200	5.19
M6314	70	2.7559	150	5.9055	35	1.3780	3.5	.138	0.5	.020	30500	23000	6.49
M6315	75	2.9528	160	6.2992	37	1.4567	3.5	.138	0.5	.020	33500	26000	7.92
M6316	80	3.1496	170	6.6929	39	1.5354	3.5	.138	0.5	.020	36000	29200	8.69
M6317	85	3.3465	180	7.0866	41	1.6142	4	.157	0.5	.020	39000	32500	10.30
M6318	90	3.5433	190	7.4803	43	1.6929	4	.157	0.5	.020	42000	36000	13.00
M6319	95	3.7402	200	7.8740	45	1.7717	4	.157	0.5	.020	45000	40000	15.00
M6320	100	3.9370	215	8.4646	47	1.8504	4	.157	-	-	51000	47500	18.30
M6321	105	4.1339	225	8.8583	49	1.9291	4	.157	-	-	54000	52000	20.80
M6322	110	4.3307	240	9.4488	50	1.9685	4	.157	-	-	60500	60500	24.30

CARTRIDGE TYPE BALL BEARINGS

Series 63000, 62200, 62300

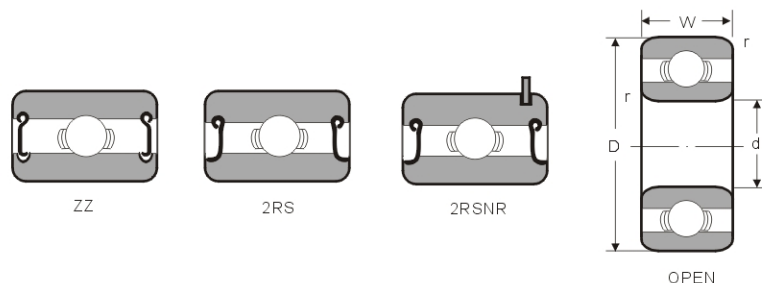


WJB Bearing No.	Dimensions(mm)				Limiting Speed rpm	Load Rating lbs		Weight lbs	Interchange Information
	d	D	B	r		Cr	Cor		
63000-2RS	10	26	12	0.5	17,500	792	407	0.062	WE6000-2RS
63001-2RS	12	28	12	0.5	15,500	858	473	0.070	WE6001-2RS
63002-2RS	15	32	13	0.5	13,500	968	572	0.092	WE6002-2RS
63003-2RS	17	35	14	0.5	11,500	1,034	638	0.112	WE6003-2RS
63004-2RS	20	42	16	1	10,000	1,606	1,012	0.194	WE6004-2RS
63005-2RS	25	47	16	1	8,900	1,716	1,166	0.220	WE6005-2RS
63006-2RS	30	55	19	1.5	7,500	2,288	1,628	0.350	WE6006-2RS
63007-2RS	35	62	20	1.5	6,600	2,640	2,002	0.462	WE6007-2RS
63008-2RS	40	68	21	1.5	6,000	2,816	2,222	0.570	WE6008-2RS
63009-2RS	45	75	23	1.5	5,300	3,520	2,926	0.759	WE6009-2RS
63010-2RS	50	80	23	1.5	5,000	3,718	3,146	0.814	WE6010-2RS
62200-2RS	10	30	14	1	14,500	836	396	0.092	WE6200-2RS
62201-2RS	12	32	14	1	14,000	1,100	616	0.101	WE6201-2RS
62202-2RS	15	35	14	1	12,500	1,254	726	0.123	WE6202-2RS
62203-2RS	17	40	16	1	11,000	1,562	902	0.187	WE6203-2RS
62204-2RS	20	47	18	1.5	9,500	2,200	1,386	0.282	WE6204-2RS
62205-2RS	25	52	18	1.5	8,300	2,376	1,540	0.321	WE6205-2RS
62206-2RS	30	62	20	1.5	7,000	3,300	2,200	0.532	WE6206-2RS
62207-2RS	35	72	23	2	6,000	4,356	2,860	0.957	WE6207-2RS
62208-2RS	40	80	23	2	5,100	4,620	3,190	0.990	WE6208-2RS
62209-2RS	45	85	23	2	4,700	5,060	3,520	1.067	WE6209-2RS
62210-2RS	50	90	23	2	4,300	5,500	4,070	1.177	WE6210-2RS
62300-2RS	10	35	17	1	12,500	1,364	770	0.143	WE6300-2RS
62301-2RS	12	37	17	1.5	11,500	1,650	946	0.163	WE6301-2RS
62302-2RS	15	42	17	1.5	11,000	1,848	1,100	0.242	WE6302-2RS
62303-2RS	17	47	19	1.5	9,500	2,200	1,276	0.328	WE6303-2RS
62304-2RS	20	52	21	2	8,800	2,574	1,584	0.433	WE6304-2RS
62305-2RS	25	62	24	2	7,300	3,300	2,200	0.704	WE6305-2RS
62306-2RS	30	72	27	2	6,100	4,400	3,014	1.067	WE6306-2RS
62307-2RS	35	80	31	2.5	5,400	5,280	3,630	1.474	WE6307-2RS
62308-2RS	40	90	33	2.5	4,700	6,600	4,598	2.002	WE6308-2RS
62309-2RS	45	100	36	2.5	4,300	8,360	6,160	2.618	WE6309-2RS

ZZ, ZZN, 2RSNR are available upon request.

SINGLE ROW RADIAL BALL BEARINGS

Cartridge Type Series W6200, W6300



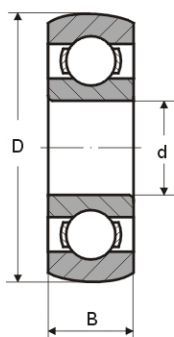
WJB Bearing No.	Bore d		Outer Diameter D		Width W			Radius r		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	fraction	inch	mm	inch	Dynamic Cr	Static Cor	
W6200	10	0.393	30	1.1811	14.3	9/16	0.5625	1.0	.039	837	396	0.10
W6201	12	0.4724	32	1.2598	15.9	5/8	0.6250	1.0	.039	1102	617	0.12
W6202	15	0.5906	35	1.3780	15.9	5/8	0.6250	1.0	.039	1256	727	0.15
W6203	17	0.6693	40	1.5748	17.5	11/16	0.6890	1.0	.039	1565	903	0.22
W6204	20	0.7874	47	1.8504	20.6	13/16	0.8110	1.5	.059	2204	1388	0.33
W6205	25	0.9843	52	2.0472	20.6	13/16	0.8110	1.5	.059	2380	1543	0.39
W6206	30	1.1811	62	2.4409	23.8	15/16	0.9370	1.5	.059	3306	2204	0.62
W6207	35	1.3780	72	2.8346	27.0	1-1/16	1.0630	2.0	.079	4365	2865	0.99
W6208	40	1.5748	80	3.1496	30.2	1.1890	1-3/16	2.0	.079	4629	3196	1.38
W6209	45	1.7717	85	3.3465	30.2	1-3/16	1.1890	2.0	.079	5070	3527	1.47
W6210	50	1.9687	90	3.5433	30.2	1-3/16	1.1890	2.0	.079	5511	4078	1.69
W6211	55	2.1654	100	3.9370	33.3	1-5/16	1.3125	2.5	.098	8920	6520	2.04
W6212	60	2.3622	110	4.3307	36.5	1-7/16	1.4375	2.5	.098	11460	8205	2.80
W6213	65	2.5591	120	4.7244	38.1	1-1/2	1.5000	1.5	.059	14000	9890	3.48
W6214	70	2.7559	125	4.9213	39.7	1-9/16	1.5625	1.5	.059	14000	9890	3.84
W6215	75	2.9528	130	5.1181	41.3	1-5/8	1.6250	1.5	.059	15750	10895	4.19
W6216	80	3.1496	140	5.5118	44.4	1-3/4	1.7500	2.0	.079	17500	11900	5.27

WJB Bearing No.	Bore d		Outer Diameter D		Width W			Radius r		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	fraction	inch	mm	inch	Dynamic Cr	Static Cor	
W6302	15	0.5906	42	1.6535	19.0	3/4	0.7500	1.5	.059	1851	1102	0.34
W6303	17	0.6693	47	1.8504	22.2	7/8	0.8750	1.5	.059	2204	1278	0.42
W6304	20	0.7874	52	2.0472	22.2	7/8	0.8750	2.0	.079	2579	1587	0.46
W6305	25	0.9843	62	2.4409	25.4	1	1.0000	2.0	.079	3306	2204	0.77
W6306	30	1.1811	72	2.8346	30.2	1-3/16	1.1890	2.5	.098	4409	3020	1.21
W6307	35	1.3780	80	3.1496	34.9	1-3/8	1.3740	2.5	.098	5291	3637	1.56
W6308	40	1.5748	90	3.5433	36.5	1-7/16	1.4370	2.5	.098	6613	4067	2.22
W6309	45	1.7717	100	3.9370	39.7	1-9/16	1.5630	2.5	.098	8377	6172	2.88
W6310	50	1.9687	110	4.3307	44.4	1-3/4	1.7480	3.0	.118	13900	8540	3.75
W6311	55	2.1654	120	4.7244	49.2	1-15/16	1.9375	3.0	.118	17100	10100	5.12
W6312	60	2.3622	130	5.1181	54.0	2-1/8	2.1250	3.5	.138	18400	11700	6.50
W6313	65	2.5591	140	5.5118	58.7	2-5/16	2.3125	3.5	.138	20700	13500	8.17
W6314	70	2.7559	150	5.9055	63.5	2-1/2	2.5000	3.5	.138	23400	15300	10.50
W6315	75	2.9528	160	6.2992	68.3	2-11/16	2.6875	3.5	.138	27200	17500	12.10
W6316	80	3.1496	170	6.6929	68.3	2-11/16	2.6875	3.5	.138	29900	21400	13.40

Large sizes available upon request.

BALL BEARING WITH SPHERICAL O.D.

Series SC200, SC300



Z one shield
ZZ two shields



RS one seal
2RS two seals



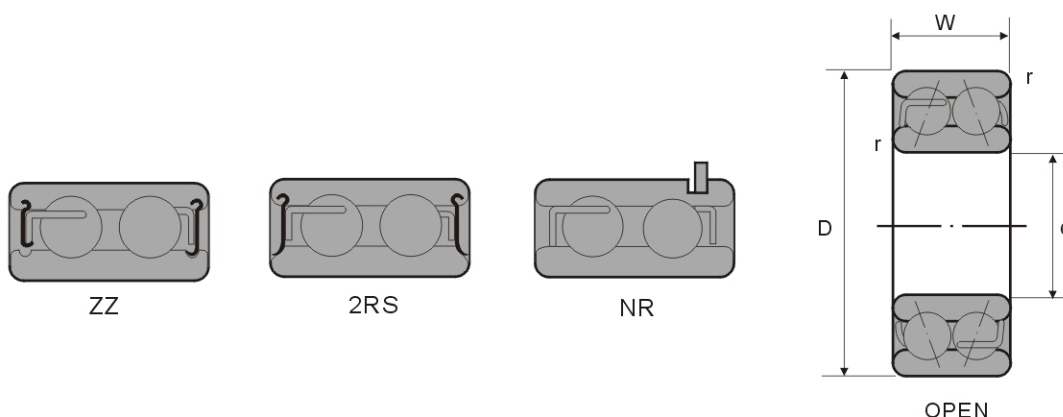
SZ one special seal
2SZ two special seals

WJB Bearing No.	Bore d		Outer Diameter D		Width W		Basic Load Rating KN		Weight
	mm	inch	mm	inch	mm	inch	Dynamic	Static	Kg
SC201	12	.4724	32	1.2598	10	.3937	6.82	3.06	.035
SC202	15	.5906	35	1.3780	11	.4331	7.64	3.72	.045
SC203	17	.6693	40	1.5748	12	.4724	9.57	4.79	.064
SC204	20	.7871	47	1.8504	14	.5512	12.84	6.66	0.11
SC205	25	.9843	52	2.0472	15	.5006	14.01	7.84	0.18
SC206	30	1.1811	62	2.4409	16	.6299	19.40	11.27	0.20
SC207	35	1.3780	72	2.8346	17	.6693	25.68	15.39	0.30
SC208	40	1.5748	80	3.1496	18	.7087	29.11	17.84	0.37
SC209	45	1.7717	85	3.3465	19	.7480	32.63	20.29	0.41
SC210	50	1.9685	90	3.5433	20	.7874	35.08	23.23	0.46
SC211	55	2.1654	100	3.9370	21	.8268	43.32	29.90	0.61
SC212	60	2.3622	110	4.3307	22	.8661	47.82	35.28	0.78
SC213	65	2.5590	120	4.7244	23	.9055	57.21	40.00	0.99
SC214	70	2.7559	125	4.9213	24	.9449	60.83	45.03	1.08
SC215	75	2.9528	130	5.1181	25	.9843	66.11	49.50	1.17
SC216	80	3.1496	140	5.5118	26	1.0236	71.55	54.30	1.44
SC217	85	3.3465	150	5.9055	28	1.1024	83.21	63.96	1.80
SC304	20	.7874	52	2.0172	15	.5906	15.88	7.84	0.14
SC305	25	.9843	62	2.4409	17	.6693	20.58	11.27	0.24
SC306	30	1.1811	72	2.8346	19	.7480	26.66	14.99	0.35
SC307	35	1.3780	80	3.1496	21	.8268	33.32	19.21	0.46
SC308	40	1.5748	90	3.5433	23	.8055	40.67	24.01	0.64
SC309	45	1.7717	100	3.9370	25	.9843	48.80	29.50	0.84
SC310	50	1.9685	110	4.3307	27	1.0630	61.94	38.22	1.10
SC311	55	2.1651	120	9.7211	29	1.1917	71.57	44.76	1.36
SC312	60	2.3622	130	5.1181	31	1.2205	81.75	51.85	1.70
SC313	65	2.5590	140	5.5118	33	1.2992	93.87	60.44	2.09
SC314	70	2.7559	150	5.9055	35	1.3780	104.13	68.04	2.51

More sizes available. Please contact us for details.

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

Non Filling-Slot Type Series 5200, W5200

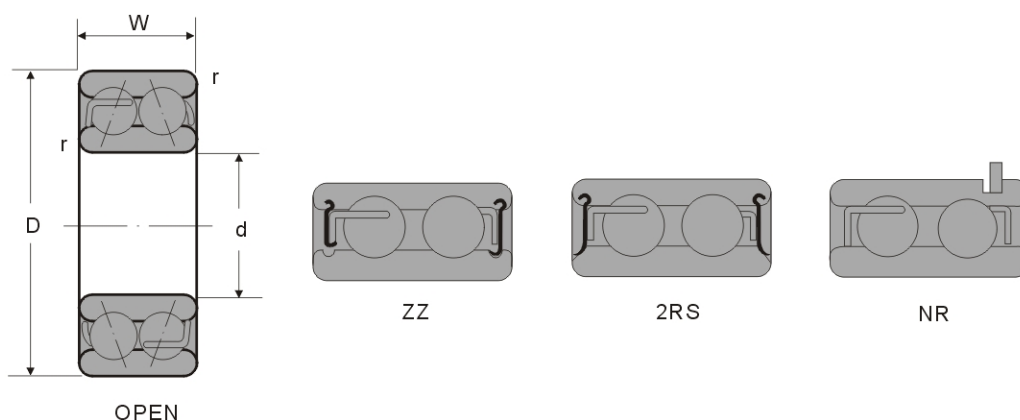


WJB Bearing No.	Bore d		Outer Diameter D		Width W			Radius r		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	fraction	inch	mm	inch	Dynamic Cr	Static Cor	
5200	10	.3937	30	1.1811	14.287	9/16	.5625	0.8	.032	1560	855	0.13
5201	12	.4724	32	1.2598	15.875	5/8	.6250	0.8	.032	2050	1140	0.16
W5201	12	.4724	32	1.2598	17.463	11/16	.6875	0.8	.032	2360	1300	0.17
5202	15	.5906	35	1.3780	15.875	5/8	.6250	1.0	.039	2260	1360	0.18
W5202	15	.5906	35	1.3780	19.050	3/4	.7500	1.0	.039	2620	1580	0.19
5203	17	.6693	40	1.5748	17.463	11/16	.6875	1.0	.039	2870	1770	0.20
W5203	17	.6693	40	1.5748	20.638	13/16	.8125	1.0	.039	2870	1770	0.20
5204	20	.7874	47	1.8504	20.638	13/16	.8125	1.5	.059	4300	2710	0.34
W5204	20	.7874	47	1.8504	23.813	15/16	.9375	1.5	.059	4300	1770	0.36
5205	25	.9843	52	2.0472	20.638	13/16	.8125	1.5	.059	4650	3200	0.42
W5205	25	.9843	52	2.0472	23.813	15/16	.9375	1.5	.059	4650	3200	0.45
5206	30	1.1811	62	2.4409	23.813	15/16	.9375	1.5	.059	6450	4600	0.64
W5206	30	1.1811	62	2.4409	26.988	1-1/16	1.0625	1.5	.059	6450	4600	0.74
5207	35	1.3780	72	2.8346	26.988	1-1/16	1.0625	2.0	.079	8500	6250	0.95
W5207	35	1.3780	72	2.8346	30.163	1-3/16	1.1875	2.0	.079	8500	6250	1.21
5208	40	1.5748	80	3.1496	30.163	1-3/16	1.1875	2.0	.079	9600	7250	1.26
5209	45	1.7717	85	3.3465	30.163	1-3/16	1.1875	2.0	.079	10800	8300	1.37
5210	50	1.9685	90	3.5433	30.163	1-3/16	1.1875	2.0	.079	11500	9400	1.48
5211	55	2.1654	100	3.9370	33.338	1-5/16	1.3125	2.5	.098	14200	11900	2.17
5212	60	2.3622	110	4.3307	36.513	1-7/16	1.4375	2.5	.098	16100	13100	2.80
5213	65	2.5591	120	4.7244	38.100	1-1/2	1.5000	2.5	.098	18700	16300	3.46
5214	70	2.7559	125	4.9213	39.688	1-9/16	1.5625	2.5	.098	20400	17900	3.97
5215	75	2.9528	130	5.1181	41.275	1-5/8	1.6250	2.5	.098	20300	18100	4.20
5216	80	3.1496	140	5.5118	44.450	1-3/4	1.7500	3.0	.118	23800	21400	5.50
5217	85	3.3465	150	5.9055	49.213	1-15/16	1.9375	3.0	.118	25100	23900	6.75
5218	90	3.5433	160	6.2992	52.388	2-1/16	2.0626	3.0	.118	31500	29000	8.90

NOTE: 5211 through 5218 are only available as open or NR types.

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

Non Filling-Slot Type Series 5300, W5300

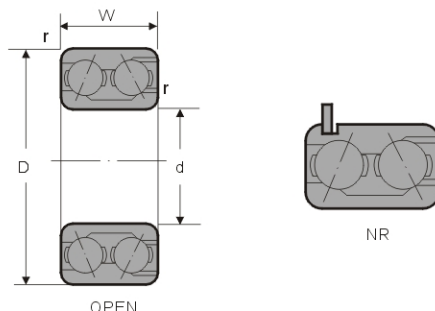


WJB Bearing No.	Bore d		Outer Diameter D		Width W			Radius r		Basic Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	fraction	inch	mm	inch	Dynamic Cr	Static Cor	
5300	10	.3937	35	1.3780	19.050	3 / 4	.7500	0.6	.024	1731	1224	0.22
5301	12	.4724	37	1.4567	19.050	3 / 4	.7500	1.1	.043	1996	1389	0.23
5302	15	.5906	42	1.6535	19.050	3 / 4	.7500	1.5	.059	3850	2260	0.38
5303	17	.6693	47	1.8504	22.225	7/8	.8750	1.5	.059	4600	2720	0.49
5304	20	.7874	52	2.0472	22.225	7/8	.8750	2.0	.079	4650	2850	0.51
W5304	20	.7874	52	2.0472	25.400	1	1.0000	2.0	.079	4650	2850	0.54
5305	25	.9843	62	2.4409	25.400	1	1.0000	2.0	.079	6850	4600	0.75
W5305	25	.9843	62	2.4409	28.575	1-1/8	1.1250	2.0	.079	6850	4600	0.89
5306	30	1.1811	72	2.8346	30.163	1-3/16	1.1875	2.0	.079	8900	6200	1.13
W5306	30	1.1811	72	2.8346	33.338	1-5/16	1.3125	2.0	.079	8900	6200	1.41
5307	35	1.3780	80	3.1496	34.925	1-3/8	1.3750	2.5	.098	11100	7850	1.74
W5307	35	1.3780	80	3.1496	38.100	1-1/2	1.5000	2.5	.098	11100	7850	1.89
5308	40	1.5748	90	3.5433	36.513	1-7/16	1.4375	2.5	.098	13600	9850	2.32
5309	45	1.7717	100	3.9370	39.688	1-9/16	1.5625	2.5	.098	16300	12100	3.10
5310	50	1.9685	110	4.3307	44.450	1-3/4	1.7500	3.0	.118	19200	14500	4.00
5311	55	2.1654	120	4.7244	49.213	1-15/16	1.9375	3.0	.118	23900	18500	5.11
5312	60	2.3622	130	5.1181	53.975	2-1/8	2.1250	3.5	.138	27300	21400	6.72
5313	65	2.5591	140	5.5118	58.738	2-5/16	2.3125	3.5	.138	31000	24600	8.60
5314	70	2.7559	150	5.9055	63.500	2-1/2	2.5000	3.5	.138	35000	28000	10.80
5315	75	2.9528	160	6.2992	68.263	2-11/16	2.6875	3.5	.138	38000	31500	12.10
5316	80	3.1496	170	6.6929	68.263	2-11/16	2.6875	3.5	.138	42000	34500	15.00

NOTE: 5310 through 5316 are only available as open or NR types.

DOUBLE ROW RADIAL BALL BEARINGS

Maximum Capacity Type Series 3200, 3300



Series 3200

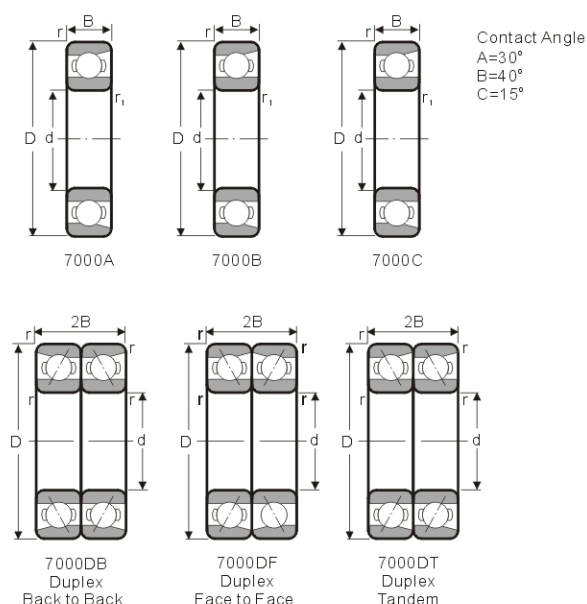
WJB Bearing No.	Bore d		Outer Diameter D		Width W				Radius r		Basic Load Rating lbs		Weight lbs
					Open		Shields & Seals				Dynamic Cr	Static Cor	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			
3202	15	0.5906	35	1.3780	15.9	0.626	19.0	0.748	1.0	0.039	2500	2040	0.152
3203	17	0.6693	40	1.5748	17.5	0.689	20.6	0.811	1.0	0.039	3200	2660	0.218
3204	20	0.7874	47	1.8504	20.6	0.811	23.8	0.937	1.5	0.059	3950	3400	0.366
3205	25	0.9843	52	2.0472	20.6	0.811	23.8	0.937	1.5	0.059	4350	4150	0.403
3206	30	1.1811	62	2.4409	23.8	0.937	27.0	1.063	1.5	0.059	6250	6150	0.668
3207	35	1.3780	72	2.8346	27.0	1.063	30.2	1.189	2.0	0.079	8400	8550	1.010
3208	40	1.5748	80	3.1496	30.2	1.189	33.3	1.311	2.0	0.079	9100	10100	1.380
3209	45	1.7717	85	3.3465	30.2	1.189	33.3	1.311	2.0	0.079	10400	11700	1.490
3210	50	1.9685	90	3.5433	30.2	1.189	33.3	1.311	2.0	0.079	11800	13400	1.540
3211	55	2.1654	100	3.9370	33.3	1.311	36.5	1.437	2.5	.098	14800	17200	2.36
3212	60	2.3622	110	4.3307	36.5	1.437	39.7	1.562	2.5	.098	15800	19800	2.95
3213	65	2.5591	120	4.7244	38.1	1.500	41.2	1.625	2.5	.098	17500	22300	3.70
3214	70	2.7559	125	4.9213	39.7	1.563	42.8	1.687	2.5	.098	19300	24800	4.06
3215	75	2.9528	130	5.1181	41.3	1.626	44.4	1.750	2.5	.098	21100	27500	4.43
3216	80	3.1496	140	5.5118	44.4	1.748	47.6	1.870	3.0	.118	23300	29400	5.97
3217	85	3.3465	150	5.9055	49.2	1.937	52.4	2.062	3.0	.118	27300	35000	7.67
3218	90	3.5433	160	6.2992	52.4	2.063	55.5	2.187	3.0	.118	30500	38000	9.35
3219	95	3.7402	170	6.6929	55.6	2.189	55.6	2.189	3.5	.138	32500	41500	11.201
3220	100	3.9370	180	7.0866	60.3	2.374	60.3	2.374	3.5	.138	42500	52500	13.00

Series 3300

WJB Bearing No.	Bore d		Outer Diameter D		Width W				Radius r		Basic Load Rating lbs		Weight lbs
					Open		Shields & Seals				Dynamic Cr	Static Cor	
	mm	inch	mm	inch	mm	inch	mm	inch					
3303	17	0.6693	47	1.8504	22.2	0.874	25.4	1.000	1.5	0.059	3950	3350	0.408
3304	20	0.7874	52	2.0472	22.2	0.874	25.4	1.000	2.0	0.079	4700	4150	0.487
3305	25	0.9843	62	2.4409	25.4	1.000	28.6	1.126	2.0	0.079	6600	6000	0.780
3306	30	1.1811	72	2.8346	30.2	1.189	33.3	1.311	2.0	0.079	8700	8200	1.230
3307	35	1.3780	80	3.1496	34.9	1.374	38.1	1.500	2.5	0.098	11100	10700	1.670
3308	40	1.5748	90	3.5433	36.5	1.437	39.7	1.563	2.5	0.098	12200	12900	2.270
3309	45	1.7717	100	3.9370	39.7	1.5630	42.8	1.687	2.5	0.098	15100	16300	3.02
3310	50	1.9685	110	4.3307	44.4	1.7480	47.6	1.875	3.0	0.118	18300	20100	4.37
3311	55	2.1654	120	4.7244	49.2	1.9370	52.4	2.062	3.0	0.118	21700	24300	5.34
3312	60	2.3622	130	5.1181	54.0	2.1260	57.1	2.250	3.5	0.138	25400	28900	6.77
3313	65	2.5591	140	5.5118	58.7	2.3110	61.9	2.437	3.5	0.138	29400	34000	8.60
3314	70	2.7559	150	5.9055	63.5	2.5000	66.7	2.625	3.5	0.138	34500	38000	11.50
3315	75	2.9528	160	6.2992	68.3	2.6890	71.4	2.812	3.5	0.138	38500	43000	13.90

ANGULAR CONTACT BALL BEARINGS

Series 7000

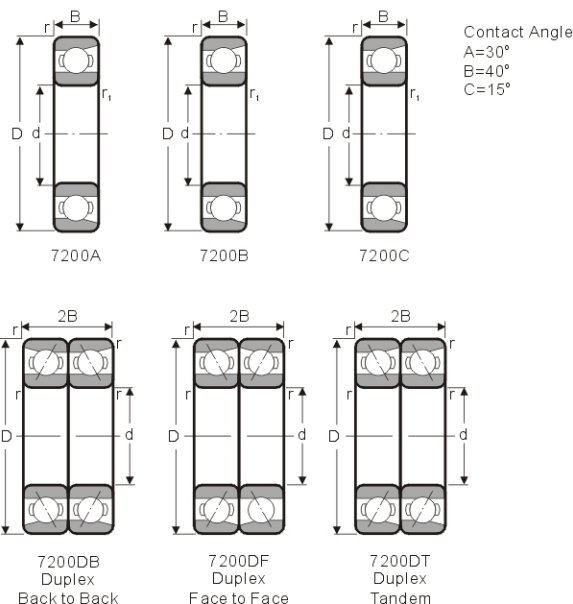


WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius				Basic Load Rating lbs		Weight lbs
							r		r1		Dynamic Cr	Static Cor	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			
7000B	10	0.3937	26	1.0236	8	0.3150	0.5	0.020	0.3	0.012	1100	495	0.049
7001B	12	0.4724	28	1.1024	8	0.3150	0.5	0.020	0.3	0.012	1220	595	0.053
7002B	15	0.5906	32	1.2598	9	0.3543	0.5	0.020	0.3	0.012	1400	760	0.077
7003B	17	0.6693	35	1.3780	10	0.3937	0.5	0.020	0.3	0.012	1740	925	0.099
7004B	20	0.7874	42	1.6535	12	0.4724	1.0	0.039	0.5	0.020	2360	1360	0.174
7005B	25	0.9843	47	1.8504	12	0.4724	1.0	0.039	0.5	0.020	2360	1670	0.201
7006B	30	1.1811	55	2.1654	13	0.5118	1.5	0.059	0.8	0.031	3400	2310	0.293
7007B	35	1.3780	62	2.4409	14	0.5512	1.5	0.059	0.8	0.031	4300	3050	0.403
7008B	40	1.5748	68	2.6772	15	0.5906	1.5	0.059	0.8	0.031	4600	3550	0.481
7009B	45	1.7717	75	2.9528	16	0.6299	1.5	0.059	0.8	0.031	5500	4350	0.613
7010B	50	1.9685	80	3.1496	16	0.6299	1.5	0.059	0.8	0.031	5850	4900	0.677
7011B	55	2.1654	90	3.5433	18	0.7087	2.0	0.079	1.0	0.039	7650	6450	0.924
7012B	60	2.3622	95	3.7402	18	0.7087	2.0	0.079	1.0	0.039	7900	6900	0.990
7013B	65	2.5591	100	3.9370	18	0.7087	2.0	0.079	1.0	0.039	8350	7700	1.050
7014B	70	2.7559	110	4.3307	20	0.7874	2.0	0.079	1.0	0.039	10500	9650	1.580
7015B	75	2.9528	115	4.5276	20	0.7874	2.0	0.079	1.0	0.039	10800	10300	1.670
7016B	80	3.1496	125	4.9213	22	0.8661	2.0	0.079	1.0	0.039	13200	12400	2.160
7017B	85	3.3465	130	5.1181	22	0.8661	2.0	0.079	1.0	0.039	13500	13200	2.430
7018B	90	3.5433	140	5.5118	24	0.9449	2.5	0.098	1.2	0.047	16100	15500	3.090
7019B	95	3.7402	145	5.7087	24	0.9449	2.5	0.098	1.2	0.047	16500	16500	3.260
7020B	100	3.9370	150	5.9055	24	0.9449	2.5	0.098	1.2	0.047	16900	17400	3.350
7021B	105	4.1339	160	6.2992	26	1.0236	3.0	0.118	1.5	0.059	19800	20100	4.210
7022B	110	4.3307	170	6.6929	28	1.1024	3.0	0.118	1.5	0.059	22700	22800	5.290
7024B	120	4.7244	180	7.0866	28	1.1024	3.0	0.118	1.5	0.059	23200	24300	5.730
7026B	130	5.1181	200	7.8740	33	1.2992	3.0	0.118	1.5	0.059	29000	31000	8.640
7028B	140	5.5118	210	8.2677	33	1.2992	3.0	0.118	1.5	0.059	29700	32500	9.170
7030B	150	5.9055	225	8.8583	35	1.3780	3.5	0.138	2.0	0.079	34000	38000	10.700

1. Contact Angle A and C will be available upon request.
2. Brass or Bronze retainers are noted with the suffix "M".
3. Flush ground bearings are noted with the suffix "G".

ANGULAR CONTACT BALL BEARINGS

Series 7200

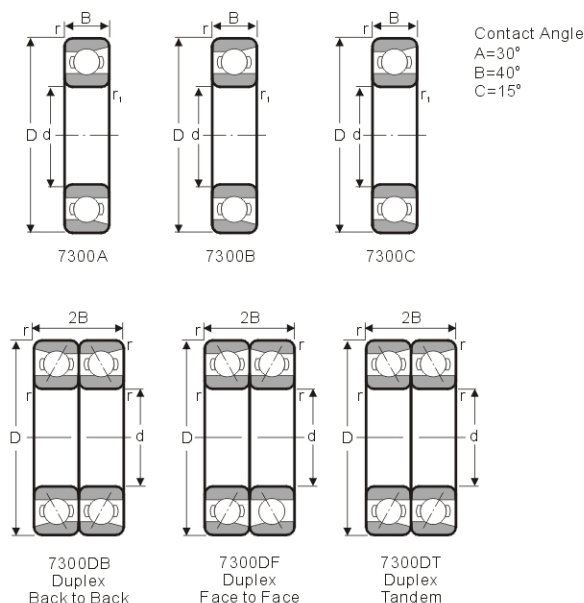


WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius				Basic Load Rating lbs		Weight lbs
							r		r1		Dynamic Cr	Static Cor	
	mm	inch	mm	inch	mm	inch	mm	inch					
7200B	10	0.3937	30	1.1811	9	0.3543	1.0	0.039	0.5	0.020	1220	615	0.062
7201B	12	0.4724	32	1.2598	10	0.3937	1.0	0.039	0.5	0.020	1600	810	0.077
7202B	15	0.5906	35	1.3780	11	0.4331	1.0	0.039	0.5	0.020	2040	1060	0.093
7203B	17	0.6693	40	1.5748	12	0.4724	1.0	0.039	0.5	0.020	2690	1490	0.134
7204B	20	0.7874	47	1.8504	14	0.5512	1.5	0.059	0.8	0.031	3250	1890	0.220
7205B	25	0.9843	52	2.0472	15	0.5906	1.5	0.059	0.8	0.031	3650	2320	0.271
7206B	30	1.1811	62	2.4409	16	0.6299	1.5	0.059	0.8	0.031	5050	3350	0.423
7207B	35	1.3780	72	2.8346	17	0.6693	2.0	0.079	1.0	0.039	6700	4500	0.611
7208B	40	1.5748	80	3.1496	18	0.7087	2.0	0.079	1.0	0.039	7950	3650	0.783
7209B	45	1.7717	85	3.3465	19	0.7480	2.0	0.079	1.0	0.039	8900	6450	0.891
7210B	50	1.9685	90	3.5433	20	0.7874	2.0	0.079	1.0	0.039	9300	7050	1.000
7211B	55	2.1654	100	3.9370	21	0.8268	2.5	0.098	1.2	0.047	11500	8900	1.320
7212B	60	2.3622	110	4.3307	22	0.8661	2.5	0.098	1.2	0.047	13900	11000	1.690
7213B	65	2.5591	120	4.7244	23	0.9055	2.5	0.098	1.2	0.047	15800	13000	2.120
7214B	70	2.7559	125	4.9213	24	0.9449	2.5	0.098	1.2	0.047	17200	14300	2.360
7215B	75	2.9528	130	5.1181	25	0.9843	2.5	0.098	1.2	0.047	17800	15400	2.580
7216B	80	3.1496	140	5.5118	26	1.0236	3.0	0.118	1.5	0.059	20000	17100	3.060
7217B	85	3.3465	150	5.9055	28	1.1024	3.0	0.118	1.5	0.059	22400	19900	3.920
7218B	90	3.5433	160	6.2992	30	1.1811	3.0	0.118	1.5	0.059	26500	23200	4.810
7219B	95	3.7402	170	6.6929	32	1.2598	3.5	0.138	2.0	0.079	30000	26500	5.890
7220B	100	3.9370	180	7.0866	34	1.3386	3.5	0.138	2.0	0.079	32500	28200	7.050
7221B	105	4.1339	190	7.4803	36	1.4173	3.5	0.138	2.0	0.079	35000	32000	8.360
7222B	110	4.3307	200	7.8740	38	1.4961	3.5	0.138	2.0	0.079	38000	35500	9.810
7224B	120	4.7244	215	8.4646	40	1.5748	3.5	0.138	2.0	0.079	41000	40000	13.800
7226B	130	5.1181	230	9.0551	40	1.5748	4.0	0.157	2.0	0.079	44000	44500	15.800
7228B	140	5.5118	250	9.8425	42	1.6535	4.0	0.157	2.0	0.079	45500	48500	19.400
7230B	150	5.9055	270	10.6299	45	1.7717	4.0	0.157	2.0	0.079	52000	58000	24.300

1. Contact Angle A and C will be available upon request.
2. Brass or Bronze retainers are noted with the suffix "M".
3. Flush ground bearings are noted with the suffix "G".

ANGULAR CONTACT BALL BEARINGS

Series 7300

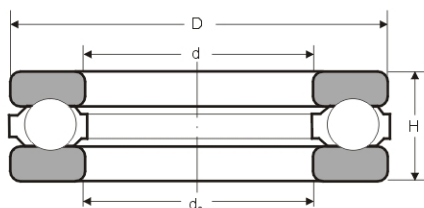


WJB Bearing No.	Bore d		Outer Diameter D		Width W		Radius				Basic Load Rating lbs		Weight lbs
							r		r1		Dynamic Cr	Static Cor	
	mm	inch	mm	inch	mm	inch	mm	inch					
7300B	10	0.3937	35	1.3780	11	0.4331	1.0	0.039	0.5	0.020	2280	1110	0.106
7301B	12	0.4724	37	1.4567	12	0.4724	1.5	0.059	0.8	0.031	2510	1180	0.126
7302B	15	0.5906	42	1.6535	13	0.5118	1.5	0.059	0.8	0.031	3000	1620	0.172
7303B	17	0.6693	47	1.8504	14	0.5512	1.5	0.059	0.8	0.031	3600	1940	0.236
7304B	20	0.7874	52	2.0472	15	0.5906	2.0	0.079	1.0	0.039	4200	2340	0.304
7305B	25	0.9843	62	2.4409	17	0.6693	2.0	0.079	1.0	0.039	5950	3550	0.483
7306B	30	1.1811	72	2.8346	19	0.7480	2.0	0.079	1.0	0.039	7550	5000	0.743
7307B	35	1.3780	80	3.1496	21	0.8268	2.5	0.098	1.2	0.047	9000	5900	0.999
7308B	40	1.5748	90	3.5433	23	0.9055	2.5	0.098	1.2	0.047	11000	7400	1.430
7309B	45	1.7717	100	3.9370	25	0.9843	2.5	0.098	1.2	0.047	14300	9800	1.890
7310B	50	1.9685	110	4.3307	27	1.0630	3.0	0.118	1.5	0.059	16700	11700	2.400
7311B	55	2.1654	120	4.7244	29	1.1417	3.0	0.118	1.5	0.059	19300	13900	3.060
7312B	60	2.3622	130	5.1181	31	1.2205	3.5	0.138	2.0	0.079	22000	16100	3.840
7313B	65	2.5591	140	5.5118	33	1.2992	3.5	0.138	2.0	0.079	25000	18400	4.650
7314B	70	2.7559	150	5.9055	35	1.3780	3.5	0.138	2.0	0.079	28000	21000	5.640
7315B	75	2.9528	160	6.2992	37	1.4567	3.5	0.138	2.0	0.079	30500	23800	6.770
7316B	80	3.1496	170	6.6929	39	1.5354	3.5	0.138	2.0	0.079	33000	26700	8.050
7317B	85	3.3465	180	7.0866	41	1.6142	4.0	0.157	2.0	0.079	35500	29800	9.570
7318B	90	3.5433	190	7.4803	43	1.6929	4.0	0.157	2.0	0.079	38500	33000	11.200
7319B	95	3.7402	200	7.8740	45	1.7717	4.0	0.157	2.0	0.079	41000	36500	13.000
7320B	100	3.9370	215	8.4646	47	1.8504	4.0	0.157	2.0	0.079	46500	43500	15.800
7321B	105	4.1339	225	8.8583	49	1.9291	4.0	0.157	2.0	0.079	49500	47500	18.100
7322B	110	4.3307	240	9.4488	50	1.9685	4.0	0.157	2.0	0.079	55500	55500	21.200
7324B	120	4.7244	260	10.2362	55	2.1654	4.0	0.157	2.0	0.079	55500	56500	32.400
7326B	130	5.1181	280	11.0236	58	2.2835	5.0	0.197	2.5	0.098	61500	66000	38.800
7328B	140	5.5118	300	11.8110	62	2.4409	5.0	0.197	2.5	0.098	67500	75500	47.400
7330B	150	5.9055	320	12.5984	65	2.5591	5.0	0.197	2.5	0.098	74000	86000	55.300

1. Contact Angle A and C will be available upon request.
2. Brass or Bronze retainers are noted with the suffix "M".
3. Flush ground bearings are noted with the suffix "G".

SINGLE DIRECTION THRUST BALL BEARINGS

Metric Series 51100, 51200, 51300



Series 51100

WJB Bearing No.	Bore				Outer Diameter D		Width H		Basic Load Rating lbs		Weight lbs
	d		d2		mm	inch	mm	inch	Dynamic Cr	Static Cor	
	mm	inch	mm	inch							
51100	10	.3937	11	.433	24	.9449	9	.3543	2250	3150	.046
51101	12	.4724	13	.512	26	1.0236	9	.3543	2320	3450	.051
51102	15	.5906	16	.630	28	1.1024	9	.3543	2370	3750	.053
51103	17	.6693	18	.709	30	1.1811	9	.3543	2430	4100	.057
51104	20	.7874	21	.827	35	1.3780	10	.3937	3200	5550	.088
51105	25	.9843	26	1.024	42	1.6535	11	.4331	4400	8350	.132
51106	30	1.1811	32	1.260	47	1.8504	11	.4331	4600	9500	.152
51107	35	1.3780	37	1.457	52	2.0472	12	.4724	4600	10000	.187
51108	40	1.5748	42	1.654	60	2.3622	13	.5118	6050	14100	.276
51109	45	1.7717	47	1.850	65	2.5591	14	.5512	6250	15500	.326
51110	50	1.9685	52	2.047	70	2.7559	14	.5512	6450	17000	.355
51111	55	2.1654	57	2.244	78	3.0709	16	.6299	7800	20900	.498
51112	60	2.3622	62	2.441	85	3.3465	17	.6693	9300	25300	.653
51113	65	2.5591	67	2.638	90	3.5433	18	.7087	9400	26400	.745
51114	70	2.7559	72	2.835	95	3.7402	18	.7087	9700	28500	.785
51115	75	2.9528	77	3.031	100	3.9370	19	.7480	10000	30500	.880

Series 51200

51200	10	.3937	12	.472	26	1.0236	11	.4331	2850	3850	.066
51201	12	.4724	14	.551	28	1.1024	11	.4331	2960	4250	.075
51202	15	.5906	17	.669	32	1.2598	12	.4724	3750	5600	.101
51203	17	.6693	19	.748	35	1.3780	12	.4724	3850	6150	.119
51204	20	.7874	22	.866	40	1.5748	14	.5512	5000	8500	.179
51205	25	.9843	27	1.063	47	1.8504	15	.5906	6250	11300	.245
51206	30	1.1811	32	1.260	52	2.0472	16	.6299	6600	13100	.306
51207	35	1.3780	37	1.457	62	2.4409	18	.7087	8800	17600	.474
51208	40	1.5748	42	1.654	68	2.6772	19	.7480	10000	22100	.608
51209	45	1.7717	47	1.850	73	2.8740	20	.7874	10700	23600	.699
51210	50	1.9685	52	2.047	78	3.0709	22	.8661	10900	25100	.833
51211	55	2.1654	57	2.244	90	3.5433	25	.9843	15600	35500	1.34
51212	60	2.3622	62	2.441	95	3.7402	26	1.0236	16500	40000	1.49
51213	65	2.5591	67	2.638	100	3.9370	27	1.0630	16800	42500	1.69
51214	70	2.7559	72	2.835	105	4.1339	27	1.0630	17100	44500	1.75
51215	75	2.9528	77	3.031	110	4.3307	27	1.0630	17400	47000	1.93

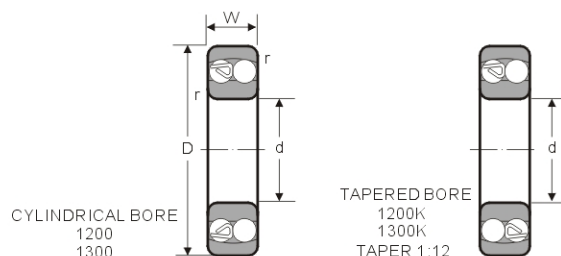
Series 51300

51305	25	.9843	27	1.063	52	2.0472	18	.7087	8050	13800	.388
51306	30	1.1811	32	1.260	60	2.3622	21	.8268	9600	17700	.593
51307	35	1.3780	37	1.457	68	2.6772	24	.9449	12500	23500	.845
51308	40	1.5748	42	1.654	78	3.0709	26	1.0236	15600	30000	1.21
51309	45	1.7717	47	1.850	85	3.3465	28	1.1024	18000	36500	1.51

Other sizes available upon request.

DOUBLE ROW SELF ALIGNING BALL BEARINGS

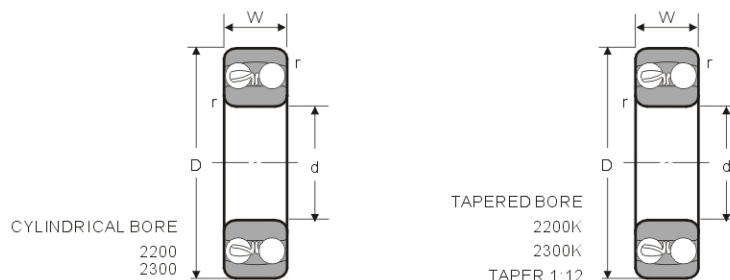
Series 1200, 1200K, 1300, 1300K



WJB Bearing No.		Bore d		Outer Diameter D		Width W		Radius r		Basic Load Rating lbs		Weight lbs
										Dynamic Cr	Static Cor	
1200	1200K	10	.3937	30	1.1811	9	.3543	1.0	.039	1230	268	0.075
1201	1201K	12	.4724	32	1.2598	10	.3937	1.0	.039	1260	286	0.088
1202	1202K	15	.5906	35	1.3780	11	.4331	1.0	.039	1680	395	0.108
1203	1203K	17	.6693	40	1.5748	12	.4724	1.0	.039	1770	450	0.161
1204	1204K	20	.7874	47	1.8504	14	.5512	1.5	.059	2230	585	0.265
1205	1205K	25	.9843	52	2.0472	15	.5906	1.5	.059	2720	740	0.311
1206	1206K	30	1.1811	62	2.4409	16	.6299	1.5	.059	3500	1050	0.485
1207	1207K	35	1.3780	72	2.8346	17	.6693	2.0	.079	3550	1150	0.712
1208	1208K	40	1.5748	80	3.1496	18	.7087	2.0	.079	4350	1470	0.919
1209	1209K	45	1.7717	85	3.3465	19	.7480	2.0	.079	4900	1650	1.03
1210	1210K	50	1.9685	90	3.5433	20	.7874	2.0	.079	5100	1820	1.16
1211	1211K	55	2.1654	100	3.9370	21	.8268	2.5	.098	6000	2250	1.55
1212	1212K	60	2.3622	110	4.3307	22	.8661	2.5	.098	6800	2590	1.98
1213	1213K	65	2.5591	120	4.7244	23	.9055	2.5	.098	6950	2820	2.54
1214	1214K	70	2.7559	125	4.9213	24	.9449	2.5	.098	7800	3100	2.78
1215	1215K	75	2.9528	130	5.1181	25	.9843	2.5	.098	8750	3550	3.00
1216	1216K	80	3.1496	140	5.5118	26	1.0236	3.0	.118	8950	3800	3.68
1217	1217K	85	3.3465	150	5.9055	28	1.1024	3.0	.118	11000	4650	4.56
1218	1218K	90	3.5433	160	6.2992	30	1.1811	3.0	.118	12800	5300	5.56
1219	1219K	95	3.7402	170	6.6929	32	1.2598	3.5	.138	14300	6100	6.83
1220	1220K	100	3.9370	180	7.0866	34	1.3386	3.5	.138	15500	6700	8.16
1300	1300K	10	.3937	35	1.3780	11	.4331	0.6	.024	1630	3650	.128
1301	1301K	12	.4724	37	1.4567	12	.4724	1.0	.039	2130	4850	.148
1302	1302K	15	.5906	42	1.6535	13	.5118	1.5	.059	2150	5150	.207
1303	1303K	17	.6693	47	1.8504	14	.5512	1.5	.059	2820	7150	.287
1304	1304K	20	.7874	52	2.0472	15	.5906	2.0	.079	2790	7500	.359
1305	1305K	25	.9843	62	2.4409	17	.6693	2.0	.079	4050	1130	0.567
1306	1306K	30	1.1811	72	2.8346	19	.7480	2.0	.079	4800	1420	0.853
1307	1307K	35	1.3780	80	3.1496	21	.8268	2.5	.098	5650	1770	1.12
1308	1308K	40	1.5748	90	3.5433	23	.9055	2.5	.098	6650	2180	1.58
1309	1309K	45	1.7717	100	3.9370	25	.9843	2.5	.098	8550	2860	2.11
1310	1310K	50	1.9685	110	4.3307	27	1.0630	3.0	.118	9750	3150	2.67
1311	1311K	55	2.1654	120	4.7244	29	1.1417	3.0	.118	11600	4000	3.48
1312	1312K	60	2.3622	130	5.1181	31	1.2205	3.5	.138	12900	4700	4.32
1313	1313K	65	2.5591	140	5.5118	33	1.2992	3.5	.138	13900	5150	5.40
1314	1314K	70	2.7559	150	5.9055	35	1.3780	3.5	.138	16700	6250	6.60
1315	1315K	75	2.9528	160	6.2992	37	1.4567	3.5	.138	17800	6750	7.85
1316	1316K	80	3.1496	170	6.6929	39	1.5354	3.5	.138	19900	7450	9.22
1317	1317K	85	3.3465	180	7.0866	41	1.6142	4.0	.157	22000	8500	11.00
1318	1318K	90	3.5433	190	7.4803	43	1.6929	4.0	.157	26100	10000	12.80
1319	1319K	95	3.7402	200	7.8740	45	1.7717	4.0	.157	29600	11400	14.70
1320	1320K	100	3.9370	215	8.4646	47	1.8504	4.0	.157	32000	12900	18.30

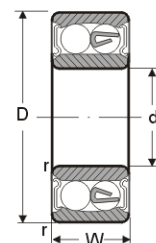
DOUBLE ROW SELF ALIGNING BALL BEARINGS

Series 2200, 2200K, 2300, 2300K



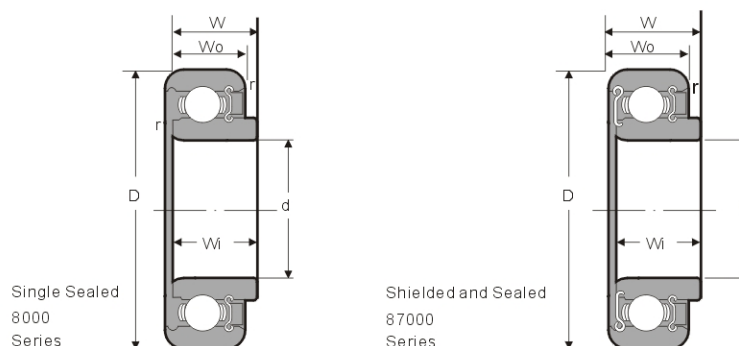
WJB Bearing No.		Bore d		Outer Diameter D		Width W		Radius r		Basic Load Rating lbs		Weight lbs	
										Dynamic Cr	Static Cor	2200 2300	2200K 2300K
2200	2200K	10	.3937	30	1.1811	14	.5512	1.0	.039	1640	360	0.104	0.098
2201	2201K	12	.4724	32	1.2598	14	.5512	1.0	.039	1710	390	0.117	0.113
2202	2202K	15	.5906	35	1.3780	14	.5512	1.0	.039	1780	415	0.132	0.127
2203	2203K	17	.6693	40	1.5748	16	.6299	1.0	.039	2200	545	0.194	0.188
2204	2204K	20	.7874	47	1.8504	18	.7087	1.5	.059	2830	745	0.309	0.300
2205	2205K	25	.9843	52	2.0472	18	.7087	1.5	.059	2760	775	0.359	0.348
2206	2206K	30	1.1811	62	2.4409	20	.7874	1.5	.059	3400	1020	0.573	0.560
2207	2207K	35	1.3780	72	2.8346	23	.9055	2.0	.079	4850	1480	0.888	0.873
2208	2208K	40	1.5748	80	3.1496	23	.9055	2.0	.079	5000	1650	1.11	1.09
2209	2209K	45	1.7717	85	3.3465	23	.9055	2.0	.079	5200	1830	1.20	1.18
2210	2210K	50	1.9685	90	3.5433	23	.9055	2.0	.079	5200	1900	1.30	1.27
2211	2211K	55	2.1654	100	3.9370	25	.9843	2.5	.098	5950	2220	1.79	1.75
2212	2212K	60	2.3622	110	4.3307	28	1.1024	2.5	.098	7650	2840	2.40	2.36
2213	2213K	65	2.5591	120	4.7244	31	1.2205	2.5	.098	9750	3700	3.22	3.15
2214	2214K	70	2.7559	125	4.9213	31	1.2205	2.5	.098	9850	3850	3.35	3.30
2215	2215K	75	2.9528	130	5.1181	31	1.2205	2.5	.098	9950	4000	3.57	3.48
2216	2216K	80	3.1496	140	5.5118	33	1.2992	3.0	.118	10900	4450	4.43	4.34
2217	2217K	85	3.3465	150	5.9055	36	1.4173	3.0	.118	13100	5300	5.56	5.42
2218	2218K	90	3.5433	160	6.2992	40	1.5748	3.0	.118	15800	6450	7.50	7.34
2219	2219K	95	3.7402	170	6.6929	43	1.6929	3.5	.138	18700	7750	9.04	8.82
2220	2220K	100	3.9370	180	7.0866	46	1.8110	3.5	.138	21100	8850	11.0	10.70
2300	2300K	10	.3937	35	1.3780	17	.6693	1.0	.039	2270	485	0.183	0.180
2301	2301K	12	.4724	37	1.4567	17	.6693	1.5	.059	2640	610	0.201	0.195
2302	2302K	15	.5906	42	1.6535	17	.6693	1.5	.059	2700	650	0.251	0.245
2303	2303K	17	.6693	47	1.8504	19	.7480	1.5	.059	3250	800	0.384	0.340
2304	2304K	20	.7874	52	2.0472	21	.8268	2.0	.079	4050	1060	0.461	0.452
2305	2305K	25	.9843	62	2.4409	24	.9449	2.0	.079	5500	1480	0.739	0.721
2306	2306K	30	1.1811	72	2.8346	27	1.0630	2.0	.079	7050	1970	1.10	1.08
2307	2307K	35	1.3780	80	3.1496	31	1.2205	2.5	.098	8850	2530	1.49	1.45
2308	2308K	40	1.5748	90	3.5433	33	1.2992	2.5	.098	10100	3050	2.04	1.99
2309	2309K	45	1.7717	100	3.9370	36	1.4173	2.5	.098	12200	3750	2.71	2.65
2310	2310K	50	1.9685	110	4.3307	40	1.5748	3.0	.118	14500	4550	3.62	3.53
2311	2311K	55	2.1654	120	4.7244	43	1.6929	3.0	.118	16900	5400	4.63	4.52
2312	2312K	60	2.3622	130	5.1181	46	1.8110	3.5	.138	19600	6350	5.73	5.58
2313	2313K	65	2.5591	140	5.5118	48	1.8898	3.5	.138	21600	7300	7.12	6.94
2314	2314K	70	2.7559	150	5.9055	51	2.0079	3.5	.138	24600	8450	8.60	-
2315	2315K	75	2.9528	160	6.2992	55	2.1654	3.5	.138	27700	9650	10.4	10.20
2316	2316K	80	3.1496	170	6.6929	58	2.2835	3.5	.138	28800	10200	13.4	13.10
2317	2317K	85	3.3465	180	7.0866	60	2.3622	4.0	.157	31500	11500	15.4	15.20
2318	2318K	90	3.5433	190	7.4803	64	2.5197	4.0	.157	34000	12900	18.6	18.20
2319	2319K	95	3.7402	200	7.8740	67	2.6378	4.0	.157	37000	14500	21.6	21.10
2320	2320K	100	3.9370	215	8.4646	73	2.8740	4.0	.157	43000	17800	27.3	26.70

WJB Bearing No.	Dimensions(mm)				Limiting Speed rpm	Load Rating lbs		Weight lbs
	Bore	Odd.	Width	Chamfer		Cr	Cor	
2200-2RS	10	30	14	1.0	14,000	1640	360	0.110
2201-2RS	12	32	14	1.0	13,000	1710	390	0.121
2202-2RS	15	35	14	1.0	11,500	1780	415	0.132
2203-2RS	17	40	16	1.0	10,500	2200	545	0.216
2204-2RS	20	47	18	1.5	9,000	2830	745	0.319
2205-2RS	25	52	18	1.5	7,700	2760	775	0.363
2206-2RS	30	62	20	1.5	6,400	3400	1020	0.583
2207-2RS	35	72	23	2.0	5,500	4850	1480	0.924
2208-2RS	40	80	23	2.0	5,000	5000	1650	1.122
2209-2RS	45	85	23	2.0	4,600	5200	1830	1.100
2305-2RS	25	62	24	1.5	6,500	5500	1480	0.726



FELT SEAL TYPE BALL BEARINGS

Series 8000, 87000

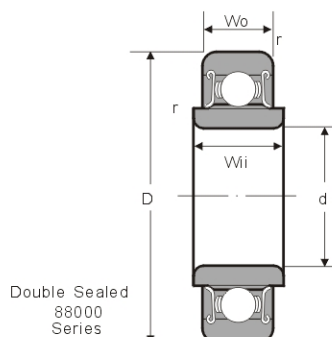


WJB Bearing No.		Bore d		Outer Diameter D		Width						Radius r		Basic Load Rating lbs		Weight lbs
						W		Wo		Wi				Dynamic Cr	Static Cor	
8000	87000	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			
8035	87035	5	.1969	19	.7480	10.319	.4063	8	.3150	9.804	.3860	0.3	.012	524	198	0.023
8036	87036	6	.2362	19	.7480	10.319	.4063	8	.3150	9.804	.3860	0.3	.012	524	198	0.025
8006	87006	6	.2362	24	.9449	10.319	.4063	8	.3150	9.804	.3860	0.3	.012	747	314	0.048
8037	87037	7	.2756	22	.8661	10.319	.4063	8	.3150	9.804	.3860	0.3	.012	740	306	0.039
8007	87007	7	.2756	24	.9449	10.319	.4063	8	.3150	9.804	.3860	0.3	.012	747	317	0.047
8038	87038	8	.3150	22	.8661	10.319	.4063	8	.3150	9.804	.3860	0.3	.012	740	306	0.038
8008	87008	8	.3150	24	.9449	10.319	.4063	8	.3150	9.804	.3860	0.3	.012	747	317	0.044
8039	87039	9	.3543	26	1.0236	10.319	.4063	8	.3150	9.804	.3860	0.6	.025	1025	438	0.053
8009	87009	9	.3543	30	1.1811	12.700	.5000	9	.3543	12.192	.4800	0.6	.025	1047	465	0.095
8500	87500	10	.3937	30	1.1811	12.700	.5000	9	.3543	12.192	.4800	0.6	.025	1047	465	0.077
8011	87011	11	.4331	32	1.2598	12.700	.5000	10	.3937	12.192	.4800	0.6	.025	1375	626	0.101
8501	87501	12	.4724	32	1.2598	12.700	.5000	10	.3937	12.192	.4800	0.6	.025	1375	626	0.097
8013	87013	13	.5118	32	1.2598	12.700	.5000	10	.3937	12.192	.4800	0.6	.025	1375	266	0.093
8014	87014	14	.5512	35	1.3780	12.700	.5000	11	.4331	12.192	.4800	0.6	.025	1525	747	0.115
8502	87502	15	.5906	35	1.3780	12.700	.5000	11	.4331	12.192	.4800	0.6	.025	1525	747	0.108
8016	87016	16	.6299	35	1.3780	12.700	.5000	11	.4331	12.192	.4800	0.6	.025	1525	747	0.105
8602	87602	15	.5906	42	1.6535	15	.5906	13	.5118	14	.5512	1.0	.040	1940	976	0.193
8503	87503	17	.6693	40	1.5748	14.288	.5625	12	.4724	13.665	.5380	0.6	.025	1940	976	0.154
8603	87603	17	.6693	47	1.8504	16	.6299	14	.5512	15	.5906	1.0	.040	2885	1494	0.257
8504	87504	20	.7874	47	1.8504	15.875	.6250	14	.5512	15.240	.6000	1.0	.040	2885	1494	0.237
8604	87604	20	.7874	52	2.0472	19	.7480	15	.5906	18	.7078	1.0	.040	3150	1785	0.352
8505	87505	25	.9843	52	2.0472	15.875	.6250	15	.5906	15.240	.6000	1.0	.040	3150	1785	0.292
8605	87605	25	.9843	62	2.4409	21	.8268	17	.6693	21	.8268	1.0	.040	3150	1785	0.600
8026	87026	26	1.0236	52	2.0472	15.875	.6250	15	.5906	15.240	.6000	1.0	.040	3150	1785	0.282
8506	87506	30	1.1811	62	2.4409	20	.7874	16	.6299	19	.7480	1.0	.040	1970	1140	0.506
8606	87606	30	1.1811	72	2.8346	23	.9055	19	.7480	23	.9055	1.0	.040	1970	1140	0.890
8507	87507	35	1.3780	72	2.8346	21	.8268	17	.6693	20	.7874	1.0	.040	2120	1330	0.708
8607	87607	35	1.3780	80	3.1496	25	.9843	21	.8268	25	.9843	1.5	.060	2120	1330	1.120
8508	87508	40	1.5748	80	3.1496	24	.9449	21	.8268	24	.9449	1.0	.040	2960	1820	1.070
8608	87608	40	1.5748	90	3.5433	27	1.0630	23	.9055	27	1.0630	1.5	.060	2960	1820	1.560
8509	87509	45	1.7717	85	3.3465	24	.9449	21	.8268	24	.9449	1.0	.040	3300	2050	1.200
8609	87609	45	1.7717	100	3.9370	30	1.1811	25	.9843	30	1.1811	1.5	.060	3300	2050	2.010
8510	87510	50	1.9685	90	3.5433	26	1.0236	22	.8661	26	1.0236	1.0	.040	3560	2350	1.300
8511	87511	55	2.1654	100	3.9370	27	1.0630	23	.9055	27	1.0630	1.5	.060	4390	2970	1.640
8512	87512	60	2.3622	110	4.3307	29	1.1420	25	.9840	29	1.1420	1.5	.060	5900	3070	2.110

Snap Ring available upon request.

FELT SEAL TYPE BALL BEARINGS

Series 88000

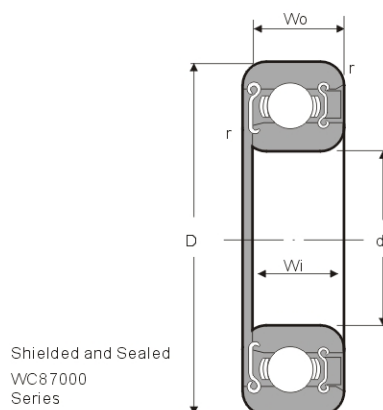
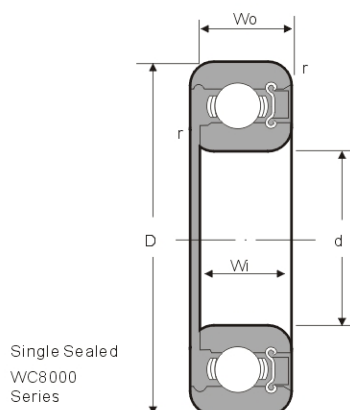


WJB Bearing No.	Bore d		Outer Diameter D		Width				Radius r		Basic Load Rating lbs		Weigh lbs
					Wo		Wii				Dynamic Cr	Static Cor	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			
88000	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			
88035	5	.1969	19	.7480	8	.3150	12.624	.4970	0.3	.012	524	198	0.026
88036	6	.2362	19	.7480	8	.3150	12.624	.4970	0.3	.012	524	198	0.027
88006	6	.2362	24	.9449	8	.3150	12.624	.4970	0.3	.012	747	314	0.055
88037	7	.2756	22	.8661	8	.3150	12.624	.4970	0.3	.012	740	306	0.043
88007	7	.2756	24	.9449	8	.3150	12.624	.4970	0.3	.012	747	317	0.051
88038	8	.3150	22	.8661	8	.3150	12.624	.4970	0.3	.012	740	306	0.040
88008	8	.3150	24	.9449	8	.3150	12.624	.4970	0.3	.012	747	317	0.048
88039	9	.3543	26	1.0236	8	.3150	12.624	.4970	0.6	.025	1025	438	0.057
88009	9	.3543	30	1.1811	9	.3543	16.401	.6457	0.6	.025	1047	465	0.105
88500	10	.3937	30	1.1811	9	.3543	16.401	.6457	0.6	.025	1047	465	0.091
88011	11	.4331	32	1.2598	10	.3937	15.400	.6063	0.6	.025	1375	626	0.104
88501	12	.4724	32	1.2598	10	.3937	15.400	.6063	0.6	.025	1375	626	0.099
88013	13	.5118	32	1.2598	10	.3937	15.400	.6063	0.6	.025	1375	266	0.095
88014	14	.5512	35	1.3780	11	.4331	14.399	.5669	0.6	.025	1525	747	0.125
88502	15	.5906	35	1.3780	11	.4331	14.399	.5669	0.6	.025	1525	747	0.119
88016	16	.6299	35	1.3780	11	.4331	14.399	.5669	0.6	.025	1525	47	0.114
88602	15	.5906	42	1.6535	13	.5118	17	.6693	1.0	.040	1940	76	0.210
88503	17	.6693	40	1.5748	12	.4724	16.601	.6536	0.6	.025	1940	976	0.166
88603	17	.6693	47	1.8504	14	.5512	18	.7087	1.0	.040	2885	1494	0.279
88504	20	.7874	47	1.8504	14	.5512	17.750	.6988	1.0	.040	2885	1494	0.259
88604	20	.7874	52	2.0472	15	.5906	23	.9055	1.0	.040	3150	1785	0.398
88505	25	.9843	52	2.0472	15	.5906	16.749	.6594	1.0	.040	3150	1785	0.304
88605	25	.9843	62	2.4409	17	.6693	25	.9843	1.0	.040	3150	1785	0.650
88026	26	1.0236	52	2.0472	15	.5906	16.749	.6594	1.0	.040	3150	1785	0.294
88506	30	1.1811	62	2.4409	16	.6299	24	.9449	1.0	.040	1970	1140	0.571
88506	30	1.1811	72	2.8346	19	.7480	27	1.0630	1.0	.040	1970	1140	0.970
88507	35	1.3780	72	2.8346	17	.6693	25	.9843	1.0	.040	2120	1330	0.765
88607	35	1.3780	80	3.1496	21	.8268	29	1.1417	1.5	.060	2120	1330	1.200
88508	40	1.5748	80	3.1496	21	.8268	27	1.0630	1.0	.040	2960	1820	1.180
88608	40	1.5748	90	3.5433	23	.9055	31	1.2205	1.5	.060	2960	1820	1.650
88509	45	1.7717	85	3.3465	21	.8268	27	1.0630	1.0	.040	3300	2050	1.220
88609	45	1.7717	100	3.9370	25	.9843	35	1.3780	1.5	.060	3300	2050	2.190
88510	50	1.9685	90	3.5433	22	.8661	30	1.1811	1.0	.040	3560	2350	1.400
88511	55	2.1654	100	3.9370	23	.9055	31	1.2205	1.5	.060	4390	2970	1.780
88512	60	2.3622	110	4.3307	25	.9843	33	1.2992	1.5	.060	5900	3070	2.340

Snap Ring available upon request.

FELT SEAL TYPE BALL BEARINGS

Series WC8000, WC87000

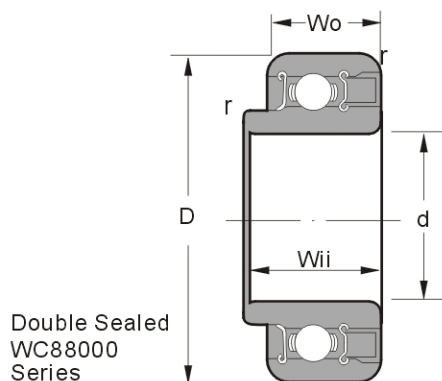


WJB Bearing No.		Bore d		Outer Diameter D		Width				Radius r		Basic Load Rating lbs		Weigh lbs
						Wi		Wo				Dynamic Cr	Static Cor	
						mm	inch	mm	inch					
WC8000	WC87000	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			
WC8006	WC87006	6	.2362	24	.9449	9.804	.3860	10.319	.4063	0.3	.012	747	317	.055
WC8007	WC87007	7	.2756	24	.9449	9.804	.3860	10.319	.4063	0.3	.012	747	317	.051
WC8008	WC87008	8	.3150	24	.9449	9.804	.3860	10.319	.4063	0.3	.012	747	317	.048
WC8009	WC87009	9	.3543	30	1.1811	12.192	.4800	12.700	.5000	0.6	.025	1047	465	.105
WC8011	WC87011	11	.4331	32	1.2598	12.192	.4800	12.700	.5000	0.6	.025	1375	626	.104
WC8013	WC87013	13	.5118	32	1.2598	12.192	.4800	12.700	.5000	0.6	.025	1375	626	.095
WC8014	WC87014	14	.5512	35	1.3780	12.192	.4800	12.700	.5000	0.6	.025	1525	747	.125
WC8016	WC87016	16	.6299	35	1.3780	12.192	.4800	12.700	.5000	0.6	.025	1525	747	.114
WC8026	WC87026	26	1.0236	52	2.0472	15.240	.6000	15.875	.6250	1	.04	3150	1785	.294
WC8035	WC87035	5	.1969	19	.748	9.804	.3860	10.319	.4063	0.3	.012	524	198	.026
WC8036	WC87036	6	.2362	19	.748	9.804	.3860	10.319	.4063	0.3	.012	524	198	.027
WC8037	WC87037	7	.2756	22	.8661	9.804	.3860	10.319	.4063	0.3	.012	740	306	.043
WC8038	WC87038	8	.3150	22	.8661	9.804	.3860	10.319	.4063	0.3	.012	740	306	.040
WC8039	WC87039	9	.3543	26	1.0236	9.804	.3860	10.319	.4063	0.6	.025	1025	438	.057
WC8500	WC87500	10	.3937	30	1.1811	12.192	.4800	12.700	.5000	0.6	.025	1047	465	.091
WC8501	WC87501	12	.4724	32	1.2598	12.192	.4800	12.700	.5000	0.6	.025	1375	626	.099
WC8502	WC87502	15	.5906	35	1.3780	12.192	.4800	12.700	.5000	0.6	.025	1525	747	.119
WC8503	WC87503	17	.6693	40	1.5748	13.665	.5380	14.288	.5625	0.6	.025	2149	1075	.116
WC8504	WC87504	20	.7874	47	1.8504	15.240	.6000	15.875	.6250	1	.04	2885	1494	.259
WC8505	WC87505	25	.9843	52	2.0472	15.240	.6000	15.875	.6250	1	.04	3150	1785	.304
WC8506	WC87506	30	1.1811	62	2.4409	19	.7480	20	.7874	1	.04	3363	2256	.571
WC8507	WC87507	35	1.3780	72	2.8346	20	.7874	21	.8268	1	.04	2120	1330	.765
WC8508	WC87508	40	1.5748	80	3.1496	24	.9449	24	.9449	1	.04	2960	1820	1.180
WC8509	WC87509	45	1.7717	85	3.3465	24	.9449	24	.9449	1	.04	3300	2050	1.220
WC8510	WC87510	50	1.9685	90	3.5433	26	1.0236	26	1.0236	1	.04	3560	2350	1.400
WC8511	WC87511	55	2.1654	100	3.9370	27	1.0630	27	1.0630	1.5	.06	4390	2970	1.740

Snap Ring available upon request.

FELT SEAL TYPE BALL BEARINGS

Series WC88000

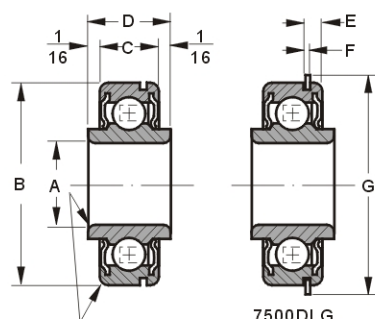


WJB Bearing No.	Bore d		Outer Diameter D		Width				Radius r		Basic Load Rating		Weigh lbs
					lbs								
	W _o	W _{ii}	Dynamic C _r	Static C _{or}									
88000	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			
WC88006	6	.2362	24	.9449	10.319	.4063	12.624	.4970	0.3	.012	747	317	.055
WC88007	7	.2756	24	.9449	10.319	.4063	12.624	.4970	0.3	.012	747	317	.051
WC88008	8	.3150	24	.9449	10.319	.4063	12.624	.4970	0.3	.012	747	317	.048
WC88009	9	.3543	30	1.1811	12.700	.5000	16.401	.6457	0.6	.025	1047	465	.105
WC88011	11	.4331	32	1.2598	12.700	.5000	15.400	.6063	0.6	.025	1375	626	.104
WC88013	13	.5118	32	1.2598	12.700	.5000	15.400	.6063	0.6	.025	1375	626	.095
WC88014	14	.5512	35	1.3780	12.700	.5000	14.399	.5669	0.6	.025	1525	747	.125
WC88016	16	.6299	35	1.3780	12.700	.5000	14.399	.5669	0.6	.025	1525	747	.114
WC88026	26	1.0236	52	2.0472	15.875	.6250	16.749	.6594	1	.04	3150	1785	.294
WC88035	5	.1969	19	.748	10.319	.4063	12.624	.4970	0.3	.012	524	198	.026
WC88036	6	.2362	19	.748	10.319	.4063	12.624	.4970	0.3	.012	524	198	.027
WC88037	7	.2756	22	.8661	10.319	.4063	12.624	.4970	0.3	.012	740	306	.043
WC88038	8	.3150	22	.8661	10.319	.4063	12.624	.4970	0.3	.012	740	306	.040
WC88039	9	.3543	26	1.0236	10.319	.4063	12.624	.4970	0.6	.025	1025	438	.057
WC88500	10	.3937	30	1.1811	12.700	.5000	16.401	.6457	0.6	.025	1047	465	.091
WC88501	12	.4724	32	1.2598	12.700	.5000	15.400	.6063	0.6	.025	1375	626	.099
WC88502	15	.5906	35	1.3780	12.700	.5000	14.399	.5669	0.6	.025	1525	747	.119
WC88503	17	.6693	40	1.5748	14.288	.5625	16.601	.5636	0.6	.025	2149	1075	.166
WC88504	20	.7874	47	1.8504	15.875	.6250	17.750	.6988	1	.04	2885	1494	.259
WC88505	25	.9843	52	2.0472	15.875	.6250	16.749	.6594	1	.04	3150	1785	.304
WC88506	30	1.1811	62	2.4409	20	.7874	24	.9449	1	.04	3363	2256	.571
WC88507	35	1.3780	72	2.8346	21	.8268	25	.9843	1	.04	2120	1330	.765
WC88508	40	1.5748	80	3.1496	24	.9449	27	1.0630	1	.04	2960	1820	1.180
WC88509	45	1.7717	85	3.3465	24	.9449	27	1.0630	1	.04	3300	2050	1.220
WC88510	50	1.9685	90	3.5433	26	1.0236	30	1.1811	1	.04	3560	2350	1.400
WC88511	55	2.1654	100	3.9370	27	1.0630	31	1.2205	1.5	.06	4390	2970	1.720
WC88603	17	.6693	47	1.8504	16	.6299	18	.7087	1.5	.06	2885	1494	.259
WC88604	20	.7874	52	2.0472	19	.7480	23	.9055	1.5	.06	3150	1785	.388
WC88605	25	.9483	62	2.4409	21	.8268	25	.9843	1.5	.06	3300	2050	.600

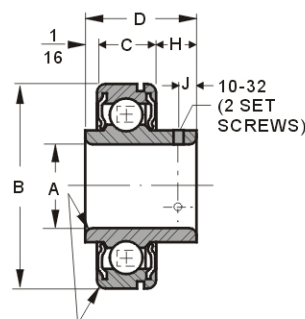
Snap Ring available upon request.

EXTRA LIGHT INCH SERIES EXTENDED INNER RING AND SET SCREWS

Series 7500 and 7600



7500DLG



7600DLG

Series 7500DLG

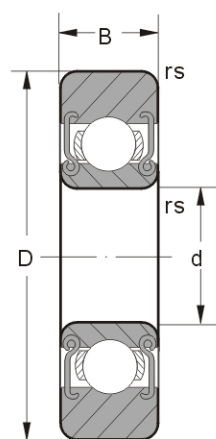
WJB Bearing No.		Bore A +.0000 -.0005	Outer Diameter B		Width C		Width D	E	F	G	Basic Load Rating lbs	
					outer ring +.000 -.005	inner ring +.000 -.005					Static Cr	Dynamic Cor
7508DL	7508DLG	.5000	1.7500	+.0000 -.0005	.625	.750	.136	.042	1-59/64	657	1125	
7510DL	7510DLG	.6250	1.7500	+.0000 -.0005	.625	.750	.136	.042	1-59/64	657	1125	
7512DL	7512DLG	.7500	1.7500	+.0000 -.0005	.625	.750	.136	.042	1-59/64	657	1125	
7514DL	7514DLG	.8750	2.0000	+.0000 -.0006	.625	.750	.136	.042	2-5/32	1020	1680	
7516DL	7516DLG	1.0000	2.0000	+.0000 -.0006	.625	.750	.136	.042	2-5/32	1020	1680	
7518DL	7518DLG	1.1250	2.5625	+.0000 -.0006	.750	.875	.190	.065	2-27/32	1708	2526	
7520DL	7520DLG	1.2500	2.5625	+.0000 -.0006	.750	.875	.190	.065	2-27/32	1708	2526	

Series 7600DLG

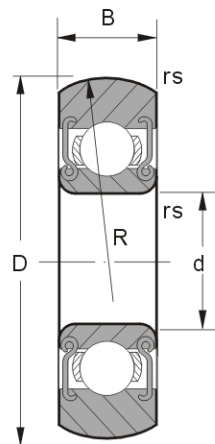
WJB Bearing No.		Bore A +.0000 -.0005	Outer Diameter B		Width C		width D	E	F	G	H	J	Basic Load Rating lbs	
					outer ring +.000 -.005	inner ring +.000 -.005							Static Cr	Dynamic Cor
7608DL	7608DLG	.5000	1.7500	+.0000 -.0005	.625	.750	.136	.042	1-59/64	.405	.233		657	1125
7610DL	7610DLG	.6250	1.7500	+.0000 -.0005	.625	.750	.136	.042	1-59/64	.405	.233		657	1125
7612DL	7612DLG	.7500	1.7500	+.0000 -.0005	.625	.750	.136	.042	1-59/64	.405	.233		657	1125
7614DL	7614DLG	.8750	2.0000	+.0000 -.0006	.625	.750	.136	.042	2-5/32	.492	.261		1020	1680
7616DL	7616DLG	1.0000	2.0000	+.0000 -.0006	.625	.750	.136	.042	2-5/32	.492	.261		1020	1680
7618DL	7618DLG	1.1250	2.5625	+.0000 -.0006	.750	.875	.190	.065	2-27/32	.605	.261		1708	2526
7620DL	7620DLG	1.2500	2.5625	+.0000 -.0006	.750	.875	.190	.065	2-27/32	.605	.261		1708	2526

BALL BEARINGS

Track Roller



361200

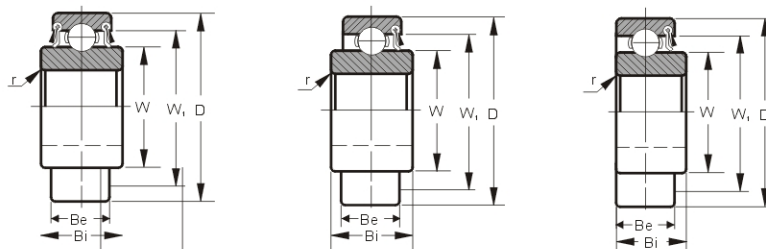


361200R LR6000 LR200

WJB Bearing No.	Bore d		Outer Diameter D		Width B		Fillet Radius rs		Spherical Radius R		Load Rating lbs		Weight lbs
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic Cr	Static Cor	
361200	10	.3937	32	1.2598	9	.3543	0.6	.024	----	----	1147	535	.090
361200R	10	.3937	32	1.2598	9	.3543	0.6	.024	400	15.7480	1147	535	.090
361201	12	.4724	35	1.3780	10	.3937	0.6	.024	----	----	1535	688	.114
361201R	12	.4724	35	1.3780	10	.3937	0.6	.024	400	15.7480	1535	688	.114
361202	15	.5906	40	1.5748	11	.4331	0.6	.024	----	----	1719	837	.163
361202R	15	.5906	40	1.5748	11	.4331	0.6	.024	400	15.7480	1719	837	.163
361203	17	.6693	47	1.8504	12	.4724	0.6	.024	----	----	2153	1078	.242
361203R	17	.6693	47	1.8504	12	.4724	0.6	.024	400	15.7480	2153	1078	.242
361204	20	.7874	52	2.0472	14	.5512	1.0	.039	----	----	2889	1496	.352
361204R	20	.7874	52	2.0472	14	.5512	1.0	.039	400	15.7480	2889	1496	.352
361205	25	.9843	62	2.4409	15	.5906	1.0	.039	----	----	3155	1773	.528
361205R	25	.9843	62	2.4409	15	.5906	1.0	.039	400	15.7480	3155	1773	.528
331206	30	1.1811	72	2.8346	16	.6299	1.0	.039	----	----	4379	2545	.748
361206R	30	1.1811	72	2.8346	16	.6299	1.0	.039	400	15.7480	4379	2545	.748
361207	35	1.3780	80	3.1496	17	.6693	2.0	.079	----	----	4356	2860	.902
361207R	35	1.3780	80	3.1496	17	.6693	2.0	.079	400	15.7480	4356	2860	.902
361208	40	1.5748	85	3.3465	18	.7087	2.0	.079	----	----	4620	3190	1.012
361208R	40	1.5748	85	3.3465	18	.7087	2.0	.079	400	15.7480	4620	3190	1.012
LR6000	10	.3937	28	1.1024	8	.3150	0.3	.012	500	19.6850	1031	443	.022
LR6001	12	.4724	30	1.1811	8	.3150	0.3	.012	500	19.6850	1147	535	.066
LR6002	15	.5906	35	1.2598	9	.3543	0.3	.012	500	19.6850	1258	639	.110
LR6003	17	.6693	40	1.5748	10	.3937	0.3	.012	500	19.6850	1350	731	.154
LR6004	20	.7874	47	1.8504	12	.4724	0.6	.024	500	19.6850	2111	1132	.242
LR200	10	.3937	32	1.2598	9	.3543	0.6	.024	500	19.6850	1147	535	.090
LR201	12	.4724	35	1.3780	10	.3937	0.6	.024	500	19.6850	1534	688	.114
LR202	15	.5906	40	1.5748	11	.4331	0.6	.024	500	19.6850	1719	837	.163
LR203	17	.6693	47	1.8504	12	.4724	0.6	.024	500	19.6850	2153	1078	.242
LR204	20	.7874	52	2.0472	14	.5512	1.0	.039	500	19.6850	2889	1496	.352
LR205	25	.9843	62	2.4409	15	.5906	1.0	.039	500	19.6850	3154	1773	.528

AGRICULTURAL BEARINGS

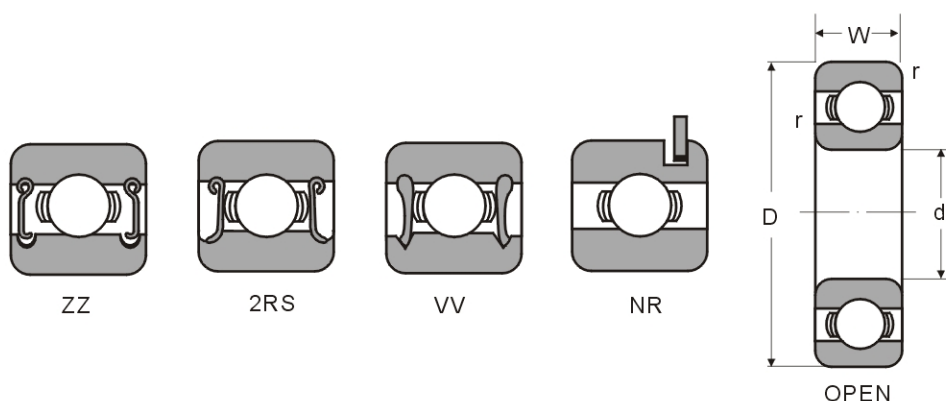
Metric Series



WJB Bearing No.	Bore		Outer Diameter		Width				Description of Specialties
					Outer Ring		Inner Ring		
	inch	mm	inch	mm	inch	mm	inch	mm	
202NPP9	0.5050	12.827	1.5000	38.100	0.4331	11.000	0.4331	11.000	O.D. turned to 3/4 radius. Trash seals. Special bore, extended inner ring. Trash seals. Inner ring extended one side. Trash seals.
202RRE	0.5906	15.000	1.3780	35.000	0.4331	11.000	0.8800	22.352	
203JD	0.6693	17.000	1.5748	40.000	0.4724	12.000	0.5512	14.000	
203KR2	0.6253	15.883	1.5748	40.000	0.4724	12.000	0.5512	14.000	Thick outer ring, two inch O.D., Trash seals.
203KRR2	0.6400	16.260	1.5748	40.000	0.4724	12.000	0.7200	18.288	
203KRR3	0.6280	15.951	2.0000	50.800	0.5906	15.000	0.5906	15.000	
203KRR5	0.5150	13.081	1.5748	40.000	0.4720	12.000	0.7200	18.288	Thick outer ring, extended inner ring. Trash seals.
203KRR6	0.6400	16.256	1.8504	47.000	0.4724	12.000	0.7200	18.288	
203KRR7	0.6693	17.000	1.5748	40.000	0.4720	12.000	0.6540	16.612	
203NPP9	0.6260	15.900	1.5748	40.000	0.5100	12.950	0.5100	12.950	Special bore, special width. Trash seals.
Z9504AB	0.7500	19.050	1.7805	45.225	0.6100	15.494	0.6100	15.494	Trash guarded seals. Fafnir 204RR6.
Z9504-2RST	0.7500	19.050	1.7805	45.225	0.6100	15.494	0.6100	15.494	
204KR2	0.7505	19.063	1.7805	45.225	0.6100	15.494	0.6100	15.494	
204KRD4	0.6300	16.000	1.8504	47.000	0.5512	14.000	0.6890	17.500	Special bore. Trash seals.
204KRR3	0.7874	20.000	1.8504	47.000	0.5512	14.000	0.6990	17.755	
204KRR8	0.6260	15.900	1.7805	45.225					
204RR8	0.6310	16.027	1.7805	45.225	0.6100	15.494	0.6100	15.494	Special bore, special O.D., special width. Trash seals. Gothic arch race . Double lip trash seal extended side, single lip trash seal opposite.
204RY2	0.6310	16.027	1.7805	45.225	0.6100	15.494	0.7350	18.669	
205E-2RST	0.7560	19.202	2.0472	52.000	0.5906	15.000	0.8310	21.107	Special bore, extended inner ring. Trash seals. Special shroud seal one side only.
205KR3	0.7510	19.075	2.0472	52.000	0.7000	17.780	0.6400	16.256	
205KR4	1.0005	25.413	2.0472	52.000	0.5906	15.000	1.0000	25.400	
205KP6	0.7560	19.202	2.0472	52.000	0.7000	17.780	0.9210	23.393	Inner ring extended one side, inset side opposite. Triple lip extended side, open side opposite.
205KRR6	0.5150	13.081	2.0472	52.000	0.5906	15.000	1.3750	34.925	
205KRR7	0.5120	13.000	2.0472	52.000	0.5902	15.000	1.5000	38.100	Special bore, extended inner ring. Trash seals. Inner ring extended both sides, bearing not centered on inner ring. Trash seals.
G205PPB7	0.9375	23.813	2.0472	52.000	0.5910	15.000	1.3780	35.000	
205PPB7	0.9375	23.813	2.0472	52.000	0.5910	15.000	1.3780	35.000	Same as 205PPB7 with grease groove. Beveled O.D. Triple lip seals.
205PP8	0.5104	12.964	2.0472	52.000	0.5910	15.000	1.3750	34.925	
205NPP9									
205PP9	0.7560	19.202	2.0472	52.000	0.5910	15.000	1.3750	34.925	Special bore, extended inner ring. Triple lip seals. Special bore, extended inner ring. Triple lip seals.
205PP10	0.6300	16.000	2.0472	52.000	0.5910	15.000	1.3750	34.925	
205PP12	0.6350	16.129	2.0472	52.000	0.5902	15.000	1.5000	38.100	
									Inner ring extended both sides, bearing not centered on inner ring. Triple lip seals.
206KR7	1.1811	30.000	2.4409	62.000	0.6300	16.000	0.9449	24.000	
206KRR6	1.0000	25.400	2.4409	62.000			0.9449		
206KRR8	1.1811	30.000	2.4490	62.000	0.6300	16.000	0.9449	24.000	Special bore, extended inner ring. Triple lip seals.
206KRRB	0.7580	19.250	2.4409	62.000	0.6300	16.000	0.9449	24.000	
206KRRB6	1.000	25.400	2.4409	62.000			0.9449	24.000	
206PD2	1.2500	31.750	2.5625	65.088	0.6693	17.000	0.7293	18.524	Special O.D., extended inner ring. Trash seals. Extended inner ring. Double lip seal.
207KYY	1.3780	35.000	2.8346	72.000	0.6693	17.000	0.9843	25.000	
99502H	0.6250	15.875	1.3750	34.925	0.4331	11.000	0.4331	11.000	
499502H	0.6250	15.875	1.3750	34.925	0.4331	11.000	0.4331	11.000	With snap ring Bearing supplied with an axel ring.
88128R	1.5312	38.892	3.1496	80.000	0.8268	21.000	1.0830	27.500	

More sizes available. Please contact us for details.

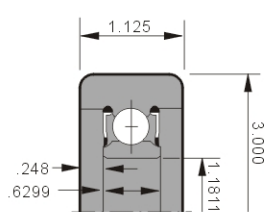
SPECIAL BALL BEARINGS FOR AUTOMOTIVES



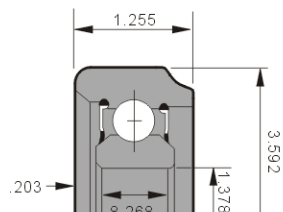
WJB Bearing No.	Bore d mm	Outer Diameter D mm	Width W mm	Radius r mm	Basic Load Rating lbs		Limiting Speed rpm	Weight lbs
					Dynamic Cr	Static Cor		
B8-74D	8	22	11	0.6	728	306	36,000	0.05
B8-79D	8	23	11	0.6	739	334	32,000	0.05
B8-23D	8	23	14	0.6	783	380	32,000	0.07
B8-85D	8	23	14	0.6	783	380	32,000	0.07
B10-46D	10	23	11	0.3	735	418	23,000	0.04
6000-TT	10	26	8	0.3	1,021	436	23,000	0.04
62000	10	26	10	0.3	1,021	436	23,000	0.05
B10-50D	10	27	11	0.6	1,054	447	23,000	0.06
B10-27D	10	27	14	0.6	1,054	447	23,000	0.07
B214-2RS	12	35	18	1.0	1,760	768	20,000	0.13
B366-2RS	15	32	11	0.6	1,256	583	18,000	0.08
6202-TT	15	35	11	0.6	1,703	693	18,000	0.10
B15-69	15	35	13	0.6	1,703	693	18,000	0.12
B279-2RS	15	35	13	0.6	1,703	693	18,000	0.12
B348-2RS	15	38	19	1.1	1,815	895	18,000	0.20
B319-2RS	15	43	13	0.6	2,466	1,001	16,000	0.20
B336-2RS	15	46	14	0.6	2,600	1,054	15,000	0.21
B15-86D	15	47	14	1.0	3,364	1,120	14,000	0.23
B15-83D	15	47	18	1.0	3,630	1,296	14,000	0.24
B382-2RS	15	52	16	1.1	4,114	1,848	14,000	0.25
B17-107D	17	47	18	1.1	3,364	1,877	12,000	0.34
B17-47D	17	47	24	1.1	3,364	1,877	12,000	0.39
B333-2RS	17	52	16	1.1	4,598	2,200	13,000	0.42
B17-99D	17	52	17	1.1	4,598	2,200	13,000	0.45
B17-116D	17	52	18	1.1	4,598	2,200	13,000	0.53
6904DVV	18.8	37	9	0.6	1,465	770	17,000	0.08
62304(20)	20	52	21	1.1	5,025	2,600	13,000	0.46
62322	20	56	21	1.1	4,127	2,075	13,000	0.51
B25-147	25	62	19	1.1	4,620	2,211	8,000	0.60

Please refer to web site www.wjbautomotive.com for more information.

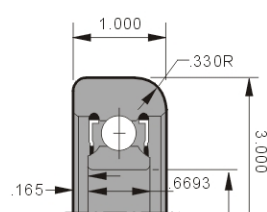
MAST GUIDE BEARINGS



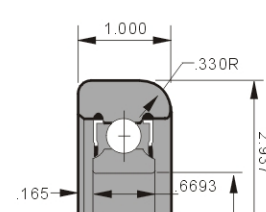
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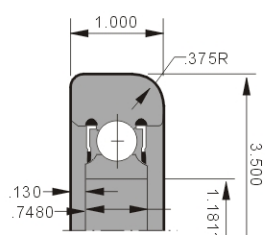
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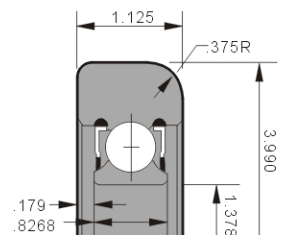
MG305-2RS-1



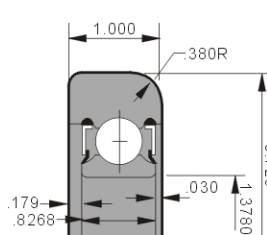
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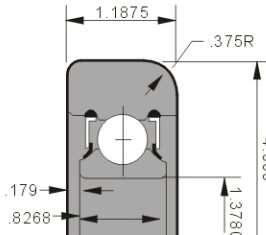
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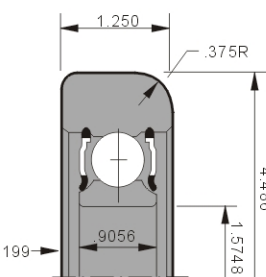
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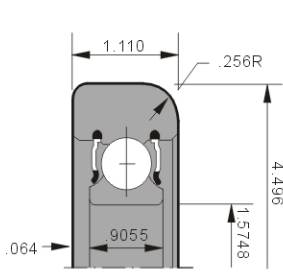
MG307-2RS-2



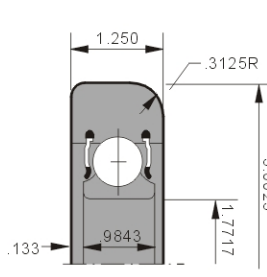
MG307-2RS-3



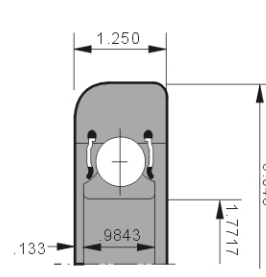
MG308-2RS-1



MG308-2RS-6



MG309-2RS-1



MG309-2RS-2

WJB Bearing No.	MRC Interchange	Hoover/NSK Interchange	BCA Interchange	McGill Interchange
MG206-2RS-1	206SZZ-16			
MG208-2RS-1	208SZZ-15		MG207FFH	BB1705
MG305-2RS-1	305SZZ-3	X421	MG305DD	BB849
MG305-2RS-2	305SZZ-6		MG305DDA	
MG306-2RS-1	306SZZ-5	X555	MG306DD	
MG307-2RS-1	307SZZ-10	X376RS	MG307FFH	BB2005-2
MG307-2RS-2	307SZZ-9	X549RS	MG307FFK	
MG307-2RS-3	307SZZ-4		MG307FFA	BB816
MG308-2RS-1	308SZZ-5		MG308FFA	BB1747
MG308-2RS-6	308SZZ-6			
MG309-2RS-1	309SZZ-4	X501 RS	MG309DDA	BB1652
MG309-2RS-2	309SZZ-1	X469		BB850

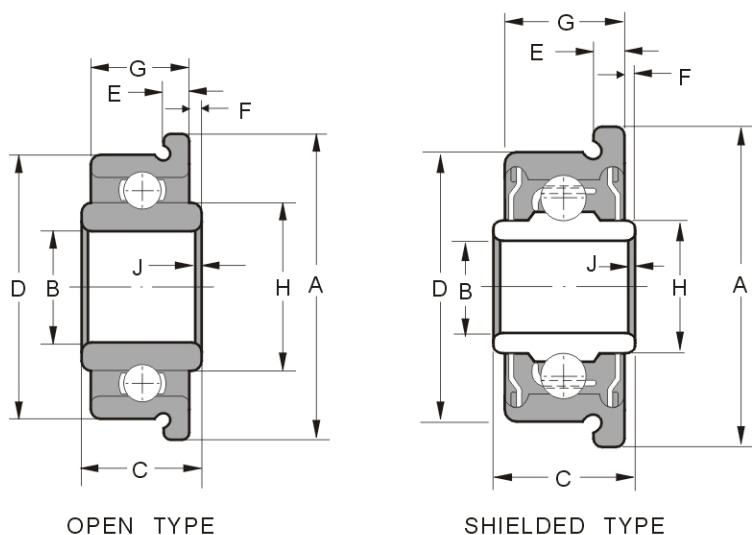
BEARINGS WITH SPECIAL FEATURES

TAPERED O.D.

The F flanged series has shoulders integral with the bearings for mounting in through-bored housings. They are used where compactness is essential or where it is not desirable to machine housing shoulders. All sizes in this series have tapered outside diameters, and all are available with double shields.

These bearings are particularly suitable for such applications as precision instruments, packaging machinery, motion picture projectors and the like. Some sizes are available in both standard bearing quality, chromium-alloy high carbon steel and stainless steel, as indicated in the tables. To specify stainless steel, use the prefix S before the bearing number. Example: SF4.

These bearings are electric motor quality for applications where extra quietness is a requirement.



WJB Bearing No.	Bore B +.0003 -.0000	Chamfer J +.010 -.000	O.D. D +.0000 -.0004	Width C +.001 -.001	Inner Ring		Outer Ring		Flange		Load Rating		Weight
					F +.005 -.005	H min.	G +.000 -.004	Taper per foot	A +.005 -.002	E +.002 -.002	Dynamic Cr	Static Cor	
Open Shielded													
F2* -	.1875	.010	.4382	.189	.016	.273	.163	.080	.500	.042	260	106	.01
- F2ZZ	.1250	.010	.3757	.188	.015	.181	.163	.075	.438	.037	160	48	.01
F3 --	.1875	.010	.5632	.218	.015	.273	.195	.080	.625	.042	325	110	.01
F3ZZ	.1875	.010	.5632	.250	.015	.245	.226	.068	.625	.042	325	110	.01
F4 F4ZZ	.2500	.010	.6257	.250	.015	.331	.226	.068	.687	.042	365	125	.01
F5* F5ZZ	.3125	.010	.6882	.250	.015	.381	.226	.068	.750	.042	540	196	.01

F2- full type, no retainer, not recommended for speed over 500 rpm.

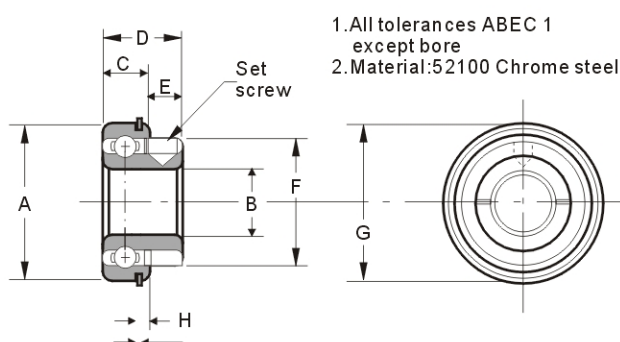
F5-H dimension is point 410S.

CLAMP TYPE COLLAR BEARING

Standard type

WJB Bearing No.	A +.0000 -.0004	B +.0005 -.0000	C +.0000 -.005	D +.000 -.005	E	F
S1PP7-4	.6250	.1875	.1960	.4219	3/16	9/16
S1PP7-3	.6250	.2500	.1960	.4219	3/16	9/16
S3PP16	.8750	.3125	.2812	.5625	1/4	25/32
S3PP4	.8750	.3750	.2812	.5625	1/4	25/32
S5PP2	1.1250	.5000	.3125	.6250	9/32	29/32

Material AISI 52100 Chrome Steel. All tolerances ABEC-1 except bore.

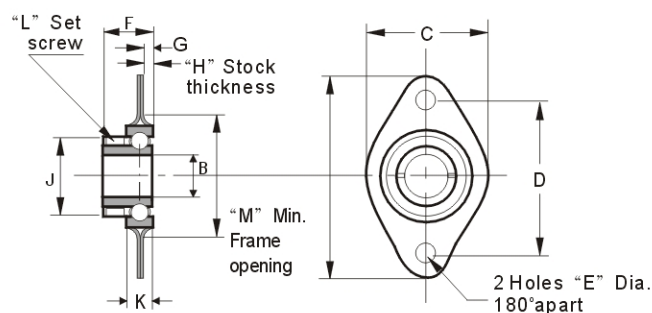


Wireloc Type

WJB Bearing No.	A +.0000 -.0004	B +.0005 -.0000	C +.0000 -.005	D +.000 -.005	E	F	G	H	I
S1PPG7-4	.6250	.1875	.1960	.4219	3/16	9/16	47/64	.070	.026
S1PPG7-3	.6250	.2500	.1960	.4219	3/16	9/16	47/64	.070	.026
S3PPG16	.8750	.3125	.2812	.5625	1/4	25/32	63/64	.090	.026
S3PPG4	.8750	.3750	.2812	.5625	1/4	25/32	63/64	.090	.026
S5PPG2	1.1250	.5000	.3125	.6250	9/32	29/32	1-15/64	.090	.031

ST FLANGETTE UNIT

WJB Bearing No.	B +.0005 -.0000	C	D	E	F	G	H	J	K	L	M	A
S1PPB7-3ST	.2500	7/8	1-7/32	7/32	.430	.079	.0269	9/16	7/32	4-40	25/32	1-25/32
S3PPB15ST	.3125	1-3/16	1-17/32	7/32	.562	.107	.0329	25/32	9/32	8-36	1-3/32	2-3/32
S3PPB5ST	.3750	1-3/16	1-17/32	7/32	.562	.107	.0329	25/32	9/32	8-36	1-3/32	2-3/32
S5PPB2SST	.5000	1-7/16	1-25/32	7/32	.625	.120	.0359	29/32	5/16	8-36	1-9/32	2-11/32



ENGINEERING DATA

1. Bearing Material

Steel type	Max. Temp	Spec	C%	Cr%	Si%	Mn%	P%	S%	Mo%	Hardness
Chrome Steel	300°F	SAE 52100	0.95-1.10	1.30-1.60	0.15-0.35	0.50 max	0.025max	0.025max	-	HRC60-64
	300°F	GB GCr15	0.95-1.05	1.30-1.65	0.15-0.35	0.20-0.40	0.020max	0.020max	-	HRC60-64
Stainless Steel	570°F	AISI440C	0.95-1.20	16.00-18.00	1.00 max	1.00max	0.04max	0.03max	0.75max	HRC58-62
Stainless Steel	570°F	AISI304	0.08 max	18.00-20.00	1.00 max	2.00max	0.045max	0.03max	0.75max	HRC25-39

- For corrosive or very high temperature environments, stainless steel bearings should be specified
- Chrome steel bearings have higher life ratings
- AISI 304 stainless steel has slightly greater corrosion resistance than AISI440C and superior low noise qualities
- Sizes may be available with ceramic balls for high speed or dry lube use or where electrical conductivity is undesirable

2. Retainer

Metal crown/ribbon

This standard retainer is manufactured from carbon steel for chrome bearings and AISI304 stainless steel for stainless bearings. The crown cage is used primarily on smaller miniature bearings and thin section bearings.

- Good for low to medium speeds
- Can withstand high temperatures

Delrin crown

This synthetic retainer is used in high speed applications.

- Low noise
- Max temperature approx 230°F
- Does not retain oil

Phenolic crown

This retainer is also used for high speed applications. Generally more expensive, it does have advantages over the synthetic type.

- Good oil retention
- Max temperature approx 300°F

Full Complement

A full complement (or full ball) bearing contains extra balls and has no retainer. It is used for its greater radial load capacity although axial load capacity is very small. These bearings can only be used at low speeds.

- High radial load capacity
- Low speed only

3. Closures

Shields

Most sizes are available with metal shields. Shields are designed to prevent larger particles from entering the bearing and also to keep grease inside the bearing. They may be pressed into the bearings outer ring (non-removable) or retained by a Circlip (removable). As the shields make no contact with the inner ring, they do not increase starting or running torque. Shields on stainless steel bearings are generally made from ANSI 304 grade stainless steel.

- Prevent contamination by larger particles
- Reduce lubricant leakage
- No torque increase

Contact seals

The standard bearing seal consists of neoprene rubber bonded to a metal washer. The inner lip of the seal rubs against the bearing inner ring to provide an effective seal against smaller particles such as dust and moisture while preventing lubricant leakage. Contact seals produce much higher torque levels than shields and reduce the maximum speed of a bearing.

- Good protection against contamination
- Greatly reduce lubricant leakage
- Reduce maximum speed by approx. 40%
- Greatly increase bearing torque
- Temp. range -22°F/+230°F

Certain types of miniature bearing are available with teflon seals. These are suitable for temperatures up to 570°F and are more chemically stable than rubber seals.

Non-contact seals

These seals do not rub against the bearing inner ring and therefore do not have the same effect on bearing torque and maximum speed as contact seals. They offer superior protection over metal shields but do not provide as effective a seal as the contact type.

- Good protection against contamination
- Greatly reduced lubricant leakage
- Much lower torque levels than contact seals
- Do not affect maximum speed
- Temp. Range 22°F to 230°F

4. Lubrication

WJB Code	Grease & Oil Name	Color	Operating Temp. Range °F	Base Oil	Thickener	Mil-Spec
LG1	Chevron SRI-2	Green	-20 to + 350	Petroleum	Polyurea	MILG3545G
LG2	Alvania-2	Amber	-30 to + 230	Petroleum	Lithium	MILG18709
LG3	Alvania-3	Amber	-35 to + 230	Petroleum	Lithium	MILG81322
LG4	Andok C	Brown	-30 to + 250	Petroleum	Sodium	
LG5	Andok 260	Light Brown	-20 to + 275	Petroleum	Sodium	MILG3545
LG6	Beacon 325	Light Tan	-60 to + 250	Diester	Lithium	MILG3278
LG7	Mobilgrease XHP	Dark Blue	-20 to + 250	Mineral	Lithium	
LG8	Mobilgrease 28	Dark Red	-80 to + 350	Synthetic	Synthetic	MILG81322E
LG9	Multemp SRL	Fair Straw	-40 to + 300	Synthetic	Lithium	
LG10	Multemp PS2		-65 to + 265	Synthetic	Lithium	
LG11	Dow Corning 33	Pink/Gray	-100 to +355	Silicone	Lithium	MILL225719
LG12	Dow Corning 44	Brown/Amber	-40 to + 400	Silicone	Lithium	MILL15719A
LG13	Shell Dolium R	Reddish-Brown	-20 to +350	Petroleum	Synthetic	
LG14	Krytox-240AC	White	-30 to +550	Fluorinated	Fluorotelomer	MILG27617E Type 3
LG15	Aeroshell 7	Buff	-100 to +250	Diester	Microgel	MIL G23827A
LO1	Aeroshell 3		-70 to +240	Petroleum		
LO2	Aeroshell fluid 12		-65 to +250	Diester		MILL-6085B

Other greases and oil will be available upon request.

5. Load Rating

Dynamic load rating: The dynamic load rating is that constant stationary radial load which 90% of a group of identical chrome steel bearings, with only the inner ring rotating, can endure for one million revolutions before the first signs of fatigue develop. AISI440C/AISI304 stainless steel bearings will achieve approximately 80% of the figure quoted. These figures are used in the calculation of life ratings and bearings should not be subjected to such loads in normal application. For life ratings, please contact WJB.

Static load rating: This rating represents the purely radial load which will cause a total permanent deformation of the balls or raceway equal to one ten-thousandth of the ball diameter. This may be tolerable for certain applications but not where smoothness and accuracy are required. Static load ratings for stainless steel bearings are approximately 75% of the load ratings for chrome steel bearings.

The load capacity of a bearing may be limited by the lubricant. Certain lubricants are only suitable for light loads while others are designed for high load applications. Load ratings are higher for full complement bearings (see Retainer).

6. Radial Play

Also referred to as radial internal clearance, it is the amount of play or looseness between the inner and outer ring or more specifically: average outer ring raceway diameter – average inner ring raceway diameter – (2 x ball diameter). Radial play should not be confused with tolerance grade and is entirely separate. Play measured along the bearing axis is known as axial play. Axial play is approximately 10 times the radial play value. Radial play may be greatly altered by the mounting conditions of a bearing. Interference fits on shaft or housing can reduce radial play by up to 80% of the interference fit. Temperature differentials between shaft and housing can increase or reduce radial play. This can also occur as a result of the shaft or housing materials having different expansion coefficients to the bearing steel.

Tight radial play MC1, MC2, Po2, P13, C2 Consider for pure radial loads and low noise applications. Beware of axial loads, high speed applications and very low torque applications. Interference fits should not be used.

Medium radial play MC13, MC4, P24, P35, C0 Most commonly used and supplied as standard

Loose radial play MC1, MC6, P58, P811, C3, C4 Consider for higher axial loads due to greater thrust load capacity. Greater interference fits and shaft misalignment can be tolerated. Preferable for very low torque applications.

(a) Radial play for bore size under .3937" (10mm)

Metric .001mm	MC1 0-5	MC2 3-8	MC3 5-10	MC4 8-13	MC5 13-20	MC6 20-28
Inch .0001"	P02 0-2	P13 1-3	P24 2-4	P35 3-5	P58 5-8	P811 8-11

(b) Radial play for bore size for metric and large inch size

Bore Diameter d				C2		C0		C3		C4	
mm		inch		Less than normal clearance		Normal clearance		Greater than normal clearance		Greater than C3 clearance	
Over	Incl.	Over	Incl.	Low	High	Low	High	Low	High	Low	High
-	2.5	-	0.0984	0	2.4	1.6	4.3	3.91	7.9	-	-
2.5	6	0.0984	0.2362	0	2.8	0.8	5.1	3.1	9.1	-	-
6	10	0.2362	0.3937	0	2.8	0.8	5.1	3.1	9.1	5.5	11.4
10	18	0.3937	0.7087	0	3.5	1.2	7.1	4.3	9.8	7.1	13.0
18	24	0.7087	0.9449	0	3.9	1.9	7.9	5.1	11.0	7.9	14.2
24	30	0.9449	1.1811	.39	4.3	1.9	7.9	5.1	11.0	9.1	16.1
30	40	1.1811	1.5748	.39	4.3	2.4	7.9	5.9	13.0	11.0	18.1
40	50	1.5748	1.9685	.39	4.3	2.4	9.1	7.1	14.2	11.8	20.1
50	65	1.9685	2.5591	.39	5.9	3.1	11.0	9.1	17.0	15.0	24.0
65	80	2.5591	3.1496	.39	5.9	3.9	11.8	9.8	20.1	18.1	28.0
80	100	3.1496	3.9370	.39	7.1	4.7	14.2	11.8	22.8	20.9	33.1
100	120	3.9370	4.7244	.79	7.9	5.9	16.1	14.2	26.0	24.0	38.2
120	140	4.7244	5.5118	.79	9.1	7.1	18.9	16.1	31.9	28.0	44.9
140	160	5.5118	6.2993	.79	9.1	7.1	20.9	18.1	35.8	31.9	51.2
160	180	6.2992	7.0866	.79	9.8	7.9	24.0	20.9	40.2	35.8	57.9
180	200	7.0866	7.8740	.79	11.8	9.8	28.0	24.8	46.0	42.1	64.2

7. Maximum Speeds

A number of factors affect speed limitation such as temperature, load, radial play, retainer, lubricant and closures. The speeds quoted in this catalogue are approximate and only valid for bearings used on a horizontal shaft with a metal cage, standard tolerance grade and radial play, medium loading, rotating inner ring and suitable lubricant (see below). Vertical shaft applications will necessitate a reduction of approximately 20%. Temperature excesses and heavy loadings will also require slower speeds. Bearings fitted with contact seals cannot achieve the same speeds due to increased friction between seal lip and bearing inner ring. The choice of lubricant may also have a significant effect on the speed rating. The maximum rpm at which a lubricant can effectively operate varies from type to type. The following adjustment factors are based on bearings with a metal crown or ribbon cage. The maximum speed of a bearing can be increased by the use of a delrin or phenolic cage provided a high speed lubricant is used or by the use of ceramic balls.

Rotating inner ring

	Open/ZZ	2RS
Petroleum oil	Nil reduction	40% reduction
Synthetic oil	Nil reduction	40% reduction
Silicon oil	40% reduction	40% reduction
Standard grease	20% reduction	40% reduction
High speed grease	Nil reduction	40% reduction
Silicon grease	40% reduction	40% reduction

Rotating outer ring

	Open/ZZ	2RS
	40% reduction	40% reduction
	40% reduction	40% reduction
	60% reduction	60% reduction
	50% reduction	50% reduction
	40% reduction	40% reduction
	60% reduction	60% reduction

8. Tolerance

The listing below expresses bearing tolerances as established by the: "Annular Bearing Engineers Committee" (ABEC) of the: "Antifriction Bearing Manufacturers Association Inc." (AFBMA) These standards are also recognized by the "American National Standards Institute Inc." (ANSI) and, by international agreement, they are accepted by the "International Organization of Standardization" (ISO)

Inner Ring Tolerance ABEC-1, ABEC-3

Bore Diameter d				Bore Tolerance				Radial Runout		Width Tolerance			
mm		inch		ABEC-1		ABEC-3		ABEC-1	ABEC-3	ABEC-1		ABEC-3	
Over	Incl.	Over	Incl.	Low	High	Low	High	ABEC-1	ABEC-3	Low	High	Low	High
2.5	10	0.0984	0.3937	-0.0003	+0	-0.0003	+0	.0003	.0025	-0.0050	+0	-0.0050	+0
10	18	0.3937	0.7087	-0.0003	+0	-0.0003	+0	.0004	.0003	-0.0050	+0	-0.0050	+0
18	30	0.7087	1.1811	-0.0004	+0	-0.0003	+0	.0005	.0003	-0.0050	+0	-0.0050	+0
30	50	1.1811	1.9685	-0.00045	+0	-0.00045	+0	.0006	.0004	-0.0050	+0	-0.0050	+0
50	80	1.9685	3.1496	-0.0006	+0	-0.0005	+0	.0008	.0004	-0.0060	+0	-0.0060	+0
80	120	3.1496	4.7244	-0.0008	+0	-0.0006	+0	.0010	.0005	-0.0080	+0	-0.0080	+0
120	180	4.7244	7.0866	-0.0010	+0	-0.0007	+0	.0012	.0007	-0.0100	+0	-0.0100	+0
180	250	7.0866	9.8425	-0.0012	+0	-0.00085	+0	.0016	.0008	-0.0120	+0	-0.0120	+0
250	315	9.8425	12.4015	-0.0014	+0	-0.0010	+0	.0020	.0010	-0.0140	+0	-0.0140	+0
315	400	12.4015	15.7480	-0.0016	+0	-0.0011	+0	.0024	.0012	-0.0160	+0	-0.0160	+0

Inner Ring Tolerance ABEC-5, ABEC-7, ABEC-9

Bore Diameter				Bore Dia. +.0000			Radial Runout (Max.)			Width Variation(Max)			Ref. Runout with bore(Max.)		
mm		inch		ABEC5	ABEC7	ABEC9	ABEC5	ABEC7	ABEC9	ABEC5	ABEC7	ABEC9	ABEC5	ABEC7	ABEC9
Over	Incl.	Over	Incl.												
0	10	0	.3937	-.0002	-.00015	-.0001	.00015	.0001	.00005	.0002	.0001	.00005	.0003	.0001	.00005
10	18	.3937	.7087	-.0002	-.00015	-.0001	.00015	.0001	.00005	.0002	.0001	.00005	.0003	.0001	.00005
18	30	.7087	1.1811	-.00025	-.0002	-.0001	.00015	.0001	.0001	.0002	.0001	.00005	.0003	.00015	.00005
30	50	1.1811	1.9685	-.0003	-.00025	-.0001	.0002	.00015	-	.0002	.0001	-	.0003	.00015	-
50	80	1.9685	3.1496	-.00035	-.0003	-.00015	.0002	.00015	-	.0002	.00015	-	.0003	.0002	-
80	120	3.1496	4.7244	-.0004	-.0003	-.0002	.0025	.0002	-	.0003	.00015	-	.0004	.0002	-
120	180	4.7244	7.0866	-.0005	-.0004	-.0003	.0003	.00025							
180	250	7.0866	9.8425	-.0006	-.00045	-.0003	.0004	.0003							
250	315	9.8425	12.4015	-.0007	-.00055										
315	400	12.4015	15.7480	-.0009	-.0007										

Inner Ring Tolerance ABEC-5, ABEC-7, ABEC-9

Bore Diameter				Groove Runout with Reference Side		Width Tolerance +.0000		Bore 2 point out-of-round (max.)		Bore Taper (max.)	
mm		inch		(max.)		ABEC5	ABEC7	ABEC5	ABEC7	ABEC5	ABEC7
Over	Incl.	Over	Incl.	ABEC5	ABEC7						
0	10	0	.3937	-.0003	-.0001	-.0010	-.0010	-.0001	-.0001	-.0001	-.0001
10	18	.3937	.7087	-.0003	-.0001	-.0010	-.0010	-.0001	-.0001	-.0001	-.0001
18	30	.7087	1.1811	-.0003	-.00015	-.0010	-.0010	-.0001	-.0001	-.0001	-.0001
30	50	1.1811	1.9685	-.0003	-.00015	-.0010	-.0010				
50	80	1.9685	3.1496	-.0003	-.00015	-.0010	-.0015				
80	120	3.1496	4.7244	-.0004	-.0002	-.0015	-.0015				

Outer Ring Tolerance ABEC-1, ABEC-3

Bore Diameter				Bore Tolerance		Radial Runout		Width Tolerance		Flange Width Tolerance +.0/-minus		Flange Diameter Tolerance +.0/-minus	
mm		inch		ABEC-1	ABEC-3	ABEC-1	ABEC-3	ABEC-1	ABEC-3	ABEC-1	ABEC-3	ABEC-1	ABEC-3
Over	Incl.	Over	Incl.	Low	Low			Low	Low				
6	18	0.2362	0.7087	-.0003	-.0003	.0006	.0003	-.0050	-.0050	-.0020	-.0020	-.0020	-.0020
18	30	0.7087	1.1811	-.00035	-.0003	.0006	.0004	-.0050	-.0050	-.0020	-.0020	-.0020	-.0020
30	50	1.1811	1.9685	-.00045	-.00035	.0008	.0004	-.0050	-.0050	-.0020	-.0020	-.0020	-.0020
50	80	1.9685	3.1496	-.0005	-.00045	.0010	.0005	-.0050	-.0050	-	-	-	-
80	120	3.1496	4.7244	-.0006	-.0005	.0014	.0007	-.0060	-.0060	-	-	-	-
120	150	4.7244	5.9055	-.0007	-.0006	.0016	.0008	-.0080	-.0080	-	-	-	-
150	180	5.9055	7.0866	-.0010	-.0007	.0018	.0009	-.0100	-.0100	-	-	-	-
180	250	7.0866	9.8425	-.0012	-.0008	.0020	.0010	-.0120	-.0120	-	-	-	-
250	315	9.8425	12.4015	-.0014	-.0010	.0024	.0012	-.0140	-.0140	-	-	-	-
5	400	12.4015	15.7480	-.0016	-.0011	.0028	.0014	-.0160	-.0160	-	-	-	-

Outer Ring Tolerance ABEC-5, ABEC-7, ABEC-9

Bore Diameter				Width Tolerance +.0000		Outer Diameter Taper (max.)	
mm		inch		ABEC5	ABEC7	ABEC5	ABEC7
Over	Incl.	Over	Incl.				
0	18	0	.7087	-.0010	-.0010	.0001	.0001
18	30	.7087	1.1811	-.0010	-.0010	.0001	.0001
30	50	1.1811	1.9685	-.0010	-.0010	.0001	.0001
50	80	1.9685	3.1496	-.0010	-.0010		
80	120	3.1496	4.7244	-.0015	-.0015		
120	150	4.7244	5.9055	-.0015	-.0015		

Outer Ring Tolerance ABEC-5, ABEC-7

Bore Diameter				Outer Diameter Tolerance			Radial Runout (max.)			Width Variation (max .)			Outside Cylindrical Surface Runout with Reference side(max.)		
mm		inch		+.0000											
Over	Incl.	Over	Incl.	ABEC5	ABEC7		ABEC5	ABEC7	ABEC9	ABEC5	ABEC7	ABEC9	ABEC5	ABEC7	ABEC9
0	18	0	.7087	-.0002	-.0002	-.0001	.0002	.00015	.00005	.0002	.0001	.00005	.0003	.00015	.00005
18	30	.7087	1.1811	-.0002	-.0002	-.00015	.0002	.00015	.0001	.0002	.0001	.00005	.0003	.00015	.00005
30	50	1.1811	1.9685	-.0002	-.0002	-.00015	.0002	.00015	.0001	.0002	.0001	.00005	.0003	.00015	.00005
50	80	1.9685	3.1496	-.0003	-.0002	-.00015	.0003	.0002	.0001	.0002	.00015	-	.0003	.00015	-
80	120	3.1496	4.7244	-.0003	-.0003	-.00015	.0004	.0002	.0001	.0003	.0002	-	.0003	.0002	-
120	150	4.7244	5.9055	-.0004	-.0004	-.00015	.0005	.0003	.0001	.0003	.0003	-	.0004	.0002	-

Outer Ring Tolerance ABEC-5, ABEC-7

Bore Diameter				Flange with Tolerance limits (max.)+.0000		Flange Diameter Tolerance limits (max.)+.0000		Outer Diameter 2pt. Out-of-round (max.)		Groove runout with reference side (max.)	
mm		inch									
Over	Incl.	Over	Incl.	ABEC5	ABEC7	ABEC5	ABEC7	ABEC5	ABEC7	ABEC5	ABEC7
0	18	0	.7087	-.0020	-.0020	-.0010	-.0010	-.0001	-.0001	-.0003	.0002
18	30	.7087	1.1811	-.0020	-.0020	-.0010	-.0010	-.0001	-.0001	-.0003	.0002
30	50	1.1811	1.9685	-.0020	-.0020	-.0010	-.0010	-.0001	-.0001	-.0003	.0002
50	80	1.9685	3.1496							-.0004	.0002
80	120	3.1496	4.7244							-.0005	.0002
120	150	4.7244	5.9055							-.0005	.0003

9. Shaft Tolerance

SELECTION OF SHAFT TOLERANCE CLASSIFICATIONS FOR METRIC RADIAL BALL AND ROLLER BEARINGS OF TOLERANCE CLASSES ABEC-1

Dimensions in Inches

Design & Operating Conditions			Ball Bearings			Cylindrical Roller Bearings			Spherical Roller Bearings		
Rotational Conditions	Inner Ring Axial Displaceability	Radial Loading	d		Tolerance Classification (1)	d		Tolerance Classification (1)	d		Tolerance Classification (1)
			Over	Incl .		Over	Incl .		Over	Incl .	
Inner Ring Rotation in relation to load Direction or Load Direction is Intermediate		Light	0	0.71	H5	0	1.57	j(6)	0	1.57	j6(2)
			0.71	All	j6(2)	1.57	5.51	k(6)	1.57	3.94	k6(2)
						5.51	12.60	m6(2)	3.94	12.60	m6(2)
						12.60	19.70	n6	12.60	19.70	n6
						19.70	All	p6	19.70	All	p6
		Normal	0	0.71	J5	0	1.57	k5	0	1.57	k5
			0.71	All	k5	1.57	3.94	m5	4.72	2.56	m5
						3.94	5.51	m6	5.56	3.94	m6
						5.51	12.60	n6	3.94	5.51	n6
						12.60	19.70	n6	5.51	11.00	p6
						19.70	All	p6	11.00	19.70	r6
								r6	19.70	All	r7
		Heavy	0.71	3.94	K5	0	1.57	m5	0	1.57	m5
			3.94	All	m5	1.57	2.56	m6	1.57	2.56	m6
						2.56	5.51	n6	2.56	3.94	n6
						5.51	7.87	p6	3.94	5.51	p6
						7.87	19.70	r6	5.51	7.87	r6
						19.70	All	r7	7.87	All	r7
Inner Ring Stationary in Relation to Load Direction	Inner Ring must be easily axially displaceable	Light	All Sizes		g6	All Sizes		g6	All Sizes		g6
		Normal									
		Heavy									
	Inner Ring need not to be easily axially displaceable	Light	All Sizes		h6	All Sizes		h6	All Sizes		h6
		Normal									
		Heavy									
Pure Thrust (Axial) Load			All Sizes		j6	Consult Bearing Manufacturer					

Note:

(1) Tolerance Classifications shown are for solid steel shaft.

For hollow or nonferrous shafts, tighter fits may be needed.

(2) If greater accuracy is needed, substitute j5, k5 and m5 for j6, k6, and m6 respectively.

10. Housing Tolerances

SELECTION OF SHAFT TOLERANCE CLASSIFICATIONS FOR METRIC
RADIAL BALL AND ROLLER BEARINGS OF TOLERANCE CLASSES ABEC-1

Design & Operating Conditions				
Rotational Conditions	Loading	Other Conditions	Outer Ring Axial Displaceability	Tolerance Classification
Outer Ring Stationary In relation to load direction	Light Normal or Heavy	Heat input through shaft	Outer ring easily axially displaceable	G7(3)
		Housing not split axially		H7(2)
	Shock with temporary complete unloading			H6(2)
	Load Direction Intermediate	Light	Housing not split axially	Transitional range (4)
Normal or heavy		K6(2)		
Heavy shock		Split housing not recommended	M6(2)	
Outer Ring Rotating in relation to load direction	Lihgt		Outer ring not easily axially displaceable	N6(2)
	Normal or heavy			
	Heavy	Thin wall housing not split		P6(2)

(1) For cast iron or steel housings numerical values are listed in Table on page 41. For housings of non-Ferrous alloys tighter fits may be needed.

(2) Where wider tolerances are permissible, use tolerance classifications H8, H7, J7, K7, M7, N7, and P7 in place of H7, H6, J6, K6, M6, N6, and P6 respectively.

(3) For large bearings and temperature differences between outer ring and housings greater than 10 degrees C, F7 may be used instead of G7.

(4) The tolerance zones are such that the outer ring may be either tight or loose in the housing.

BEARING INTERCHANGE

Miniature Ball Bearings

WJB	NMB	FAFNIR	NTN	FAG	SKF
MR63-ZZ	L-630ZZ		673-ZZA		
MR83-ZZ	---		693-ZZA		
MR93-ZZ	---				
MR74-ZZ	L-740ZZ		674-ZZA		
MR84-ZZ	L-840ZZ				
MR104-ZZ	---				
MR95-ZZ	L-950ZZ				
MR105-ZZ	L-1050ZZ				
MR115-ZZ	L-1150ZZY04				
MR106-ZZ	L-1060ZZ		WA676ZZA		
MR126-ZZ	L-1260ZZ				
MR117-ZZ	L-1170ZZ		WA677-ZZA		
MR128-ZZ	L-1280ZZ		W678-ZZA		
MR148-ZZ	L-1480ZZ				
623-ZZ	L-1030ZZ		623-ZZA		
633-ZZ	---				
624-ZZ	R-1340ZZ		624-ZZ		
634-ZZ	R-1640ZZ	34KDD	634-ZZ	634-2Z	R4B2Z
685-ZZ	L-1150ZZ		W685-ZZA		
695-ZZ	R-1350ZZ				
605-ZZ	R-1450ZZ		605-ZZ		
625-ZZ	R-1650ZZ				
635-ZZ	635-ZZ	35KDD	635-ZZ	635-2Z	R5B2Z
686-ZZ	L-1360ZZ		686-ZZ		
696-ZZ	R-1560ZZ		696-ZZ		
606-ZZ	R-1760ZZ		606-ZZ		
626-ZZ	626-ZZ	36KDD	626-ZZ	626-2Z	R6B2Z
687-ZZ	L-1470ZZ		W687-ZZA		
697-ZZ	---		697-ZZ		
607-ZZ	607-ZZ		607-ZZ		
627-ZZ	627-ZZ	37KDD	627-ZZ	627-2Z	R27Z
688-ZZ	L-1680ZZ		W688-ZZ		
608-ZZ	608-ZZ	38KDD	608-ZZ	608-2Z	R82Z
628-ZZ	---		628-ZZ		
689-ZZ	L-1790ZZ		W689-ZZ		
699-ZZ	L-2090		699-ZZ		
609-ZZ	---		609-ZZ		
629-ZZ	629-ZZ	39KDD	629-ZZ	629-2Z	R92Z

WJB	NMB	MPB	BARDEN	RMB	FAG	NHBB
SR09	SSRI-2	S2C	SR0-9	UL1304X	SR0308	SR09
SR0	SSRI2-1/2	S2-1/2C	SR0	UL1505X	SR0310	SR0
SR0ZZ	SSRI2-1/2ZZ	S2-1/2CHH	SR0SS	ULZ1505X	SR0310ZZ	SR0PP
SR1	SSRI-3	S3C	SR1	R1706X	SR0412	SR1
SR1ZZ	SSRI-3ZZ	S3CHH	SR1SS	RF1706X	SR0412ZZ	SR1PP
SR1-4	SSRI-4	S4C	SR1-4	R2508X	SR0516	SR1-4
SR1-4ZZ	SSRI-4ZZ	S4CHH	SR1-4SS	RF2508X	SR0516ZZ	SR1-4PP
SR133	SSRI-3332	S3332C	SR133	UL3006X	SR0612	SR133
SR133ZZ	SSRI-3332ZZ	S3332CHH	SR133SS	ULZ3006X	SR0612ZZ	SR133PP
SR1-5	SSRI-5	S5C	SR1-5	R3010X	SR0620	SR1-5
SR1-5ZZ	SSRI-5ZZ	S5CHH	SR1-5SS	RF3010X	SR0620ZZ	SR1-5PP
SR144	SSRI-418	S418C	SR144	UL4008X	SR0816	SR144
SR144ZZ	SSRI-418ZZ	S418CHH	SR144SS	ULZ4008X	SR0816ZZ	SR144PP
SR2-5	SSRI-518	S518C	SR2-5	R4010X	SR0820	SR2-5
SR2-5ZZ	SSRI-518ZZ	S518CHH	SR2-5SS	RF4010X	SR0820ZZ	SR2-5PP
SR2-6	SSRI-618	S618C	SR2-6	--	SR0824	SR2-6
SR155	SSRI-5532	S5532C	SR155	UL5010X	SR1020	SR155
SR155ZZ	SSRI-5532ZZ	S5532CHH	SR155SS	ULZ5010X	SR1020ZZ	SR155PP
SR156	SSRI-5632	S5632C	SR156	UL6010X	SR1220	SR156
SR156ZZ	SSRI-5632ZZ	S5632CHH	SR156SS	ULZ6010X	SR1220ZZ	SR156PP
SR166	SSRI-6632	S6316C	SR166	UL6012X	SR1224	SR166
SR166ZZ	SSRI-6632ZZ	S6316CHH	SR166SS	ULZ6012X	SR1224ZZ	SR166PP
SR168	SSRI-614	S614C	SR168	UL8012X	SR1624	SR168
SR168ZZ	SSRI-614ZZ	S614CHH	SR168SS	ULZ8012X	SR1624ZZ	SR168PP
SR188	SSRI-814	S814C	SR188	UL8016X	SR1632	SR188
SR188ZZ	SSRI-814ZZ	S814CHH	SR188SS	ULZ8016X	SR1632ZZ	SR188PP
SR1810	SSRI-8516	S8516R	SR1810	--	SR2032	SR1810
SR1810ZZ	SSRI-8516ZZ	S8516RHH	SR1810SS	--	SR2032ZZ	SR1810PP

Miniature Ball Bearings

WJB	NMB	MPB	BARDEN	RMB	FAG	NHBB
SFR09	SSRIF-2	S2FC	SFR09	ULK1340X	SRF40125	SFR09
SFR0	SSRIF2-1/2	S2-1/2FC	SFR0	ULK1505X	SRF0310	SFR0
SFR0ZZ	SSRIF2-1/2ZZ	S2-1/2FCHH	SFR0SS	ULKF1505X	SRF0310ZZ	SFR0PP
SFR1	SSRIF-3	S3FC	SFR1	RK1706X	SRF0412	SFR1
SFR1ZZ	SSRIF-3ZZ	S3FCHH	SFR1SS	RKF1706X	SRF0412ZZ	SFR1PP
SFR1-4	SSRIF-4	S4FC	SFR1-4	RK2508X	SRF0516	SFR-4
SFR1-4ZZ	SSRIF-4ZZ	S4FCHH	SFR1-4SS	RKF2508X	SRF0516ZZ	SFR1-4PP
SFR133	SSRIF-3332	S3332FC	SFR133	ULK3006X	SRF0612	SFR133
SFR133ZZ	SSRIF-3332ZZ	S3332FCHH	SFR133SS	ULKZ3006X	SRF0612ZZ	SFR133PP
SFR1-5	SSRIF-5	S5FC	SFR1-5	RK3010X	SRF0620	SFR1-5
SFR1-5ZZ	SSRIF-5ZZ	S5FCHH	SFR1-5SS	RKF3010X	SRF0620ZZ	SFR1-5PP
SFR144	SSRIF-418	S418FC	SFR144	ULK4008X	SRF0816	SFR144
SFR144ZZ	SSRIF-418ZZ	S418FCHH	SFR144SS	ULKZ4008X	SRF0816ZZ	SFR144PP
SFR2-5	SSRIF-518	S518FC	SFR2-5	RK4010X	SRF0820	SFR2-5
SFR2-5ZZ	SSRIF-518ZZ	S518FCHH	SFR2-5SS	RKF4010X	SRF0820ZZ	SFR2-5PP
SFR2-6	SSRIF-618	S618FC	SFR2-6		SRF0824	SFR2-6
SFR2-6ZZ	SSRIF-618ZZ	S618FCHH	SFR2-6SS		SRF0824ZZ	SFR2-6PP
SFR155	SSRIF-5532	S5532FC	SFR155	ULK5010X	SRF1020	SFR155
SFR155ZZ	SSRIF-5532ZZ	S5532FCHH	SFR155SS	ULKZ5050X	SRF1020ZZ	SFR155PP
SFR156	SSRIF-5632	S5632FC	SFR156	ULK6010X	SRF1220	SFR156
SFR156ZZ	SSRIF-5632ZZ	S5632FCHH	SFR156SS	ULKZ6010X	SRF1220ZZ	SFR156PP
SFR166	SSRIF-6632	S6316FC	SFR166	ULK6012X	SRF1224	SFR166
SFR166ZZ	SSRIF-6632ZZ	S6316FCHH	SFR166SS	ULKZ6012X	SRF1224ZZ	SFR166PP
SFR168	SSRIF-614	S614FC	SFR168	ULK8012X	SRF1624	SFR168
SFR168ZZ	SSRIF-614ZZ	S614FCHH	SFR168SS	ULKZ8012X	SRF1624ZZ	SFR168PP
SFR188	SSRIF-814	S814FC	SFR188	ULK8016X	SRF1632	SFR188
SFR188ZZ	SSRIF-814ZZ	S814FCHH	SFR188SS	ULKZ8016X	SRF1632ZZ	SFR188PP
SFR1810	SSRIF-8516	S8516FC	SFR1810		SRF2032	SFR1810
SFR1810ZZ	SSRIF-8516ZZ	S8516FCHH	SFR1810SS		SRF2032ZZ	SFR1810PP

R Series, Stainless Steel

WJB	NMB	MPB	BARDEN	RMB	FAG	NHBB
SR2	SSR-2	SR2C	SR2	R4012X	SR2	SR2
SR2ZZ	SSR-2ZZ	SR2CHH	SR2SS	RF4012X	SR22Z	SR2PP
SR2A	SSR-2A	SR2AC	SR2A		SR2A	SR2A
SR2AZZ	SSR-2AZZ	SR2ACHH	SR2ASSS		SR2A2Z	SR2APP
SR3	SSR-3	SR3C	SR3	R6016X	SR3	SR3
SR3ZZ	SSR-3ZZ	SR3CHH	SR3SS	RF6016X	SR32Z	SR3PP
SR4	SSR-4	SR4C	SR4	R8020X	SR4	SR4
SR4ZZ	SSR-4ZZ	SR4CHH	SR4SS	RF8020X	SR42Z	SR4PP
SR4A	SSRI-1214	SR4AR	SR4A		SR4A	SR4A
SR4AZZ	SSRI-1214ZZ	SR4ARHH	SR4ASS		SR4A2Z	SR4APP
SR6	SSRI-1438	SR6R	SR6		SR6	SR6
SR6ZZ	SSRI-1438ZZ	SR6RHH	SR6SS		SR62Z	SR6PPD
SR8	SSRI-1812	SR8R	SR8		SR8	SR8D
SR8ZZ	SSRI-1812ZZ	SR8RHH	SR8SS		SR82Z	SR8PPD
SFR2	SSRF-2	SR2FC	SFR2	RK4012X	SRF2	SFR2
SFR2ZZ	SSRF-2ZZ	SR2FCHH	SFR2SS	RKF4012X	SRF22Z	SFR2PP
SFR3	SSRF-3	SR3FC	SFR3	ULK6016	SRF3	SFR3
SFR3ZZ	SSRF-3ZZ	SR3FCHH	SFR3SS	RKF6016X	SRF32Z	SFR3PP
SFR4	SSRF-4	SR4FC	SFR4	RK8020X	SRF4	SFR4
SFR4ZZ	SSRF-4ZZ	SR4FCHH	SFR4SS	RKF8020X	SRF42Z	SFR4PP
SFR6	SSRIF-1438	SR6FR	SFR6		SRF6	SFR6D
SFR6ZZ	SSRIF-1438ZZ	SR6FRHH	SFR6SS		SRF62Z	SFR6PPD

R Series Inch

WJB	NSK	SKF	MRC	FAFNIR	FAG
R2	R2	EE-0	R-2	33K3	R-2
R2A	R2A	--	R-2-A	33K4	R-2-A
R3	R3	EE-1	R-3	33K5	R-3
R4	R4	EEA-2	R-4	S1K7	R-4
R4A	R4A	EE-2	R-4-A	S1K	R-4-A
R6	R6	EE-3	R-6	S3K	R-6
R8	R8	EE-4	R-8	S5K	R-8
R10	R10	EE-5	R-10	S7K	R-10
R12	R12	EE-6	R-12	S8K	R-12
R14	R14	EE-8	R-14	S9K	R-14
R16	R16	EE-9	R-16	S10K	R-16
R18	R18	EE-10	R-18	S11K	R-18
R20	R20	EE-11	R-20	S12K	R-20
R22	--	--	R-22	--	R-22
R24	R24	--	R-24	--	R-24

6800/6900 Series Ball Bearings

WJB	SKF	FAG	MRC	FAFNIR
6800	61800	61800	1800S	--
6801	61801	61801	1801S	--
6810	61810	1810S	--	--
6800-ZZ	61800-2Z	61800-2Z	1800SFF	--
6801-ZZ	61801-2Z	61801-2Z	1801SFF	--
6810-ZZ	61810-2Z	61810-2Z	1810SFF	--
6800-2RS	61800-2RS	61800-2RS	1800SZZ	--
6801-2RS	61801-2RS	61801-2RS	1801SZZ	--
6810-2RS	61810-2RS	61810-2RS	1810SZZ	--
6900	61900	61900	1900S	9300K
6901	61901	61901	1901S	9301K
6910	61910	61910	1910S	9310K
6900-ZZ	61900-2Z	61900-2Z	1900SFF	9300KDD
6901-ZZ	61901-2Z	61901-2Z	1901SFF	9301KDD
6910-ZZ	61910-2Z	61910-2Z	1910SFF	9310KDD
6900-2RS	61900-2RS	61900-2RS	1900SZZ	9300KPP
6901-2RS	61901-2RS	61901-2RS	1901SZZ	9301KPP
6910-2RS	61910-2RS	61910-2RS	1910SZZ	9310KPP

6000 Series Ball Bearings

WJB	FAFNIR	MRC	NSK	SFK	NTN
6000-ZZ	9100KDD	100KSFF	6000-ZZ	6000-2Z	6000-ZZ
6003-ZZ	9103KDD	103KSFF	6003-ZZ	6003-2Z	6003-ZZ
6006-ZZ	9106KDD	106KSFF	6006-ZZ	6006-2Z	6006-ZZ
6009-ZZ	9109KDD	109KSFF	6009-ZZ	6009-2Z	6009-ZZ
6012-ZZ	9112KDD	112KSFF	6012-ZZ	6012-2Z	6012-ZZ
6015-ZZ	9115KDD	115KSFF	6015-ZZ	6015-2Z	6015-ZZ
6018-ZZ	--	118KSFF	6018-ZZ	6018-2Z	6018-ZZ
6021-ZZ	--	121KSFF	6021-ZZ	6021-2Z	6021-ZZ
6024-ZZ	--	124KSFF	6024-ZZ	6024-2Z	6024-ZZ

WJB	FAFNIR	MRC	NSK	SFK	NTN
6000-2RS	9100PP	100KSZZ	6000DDU	6000-2RS	6000LLB
6003-2RS	9103PP	103KSZZ	6003DDU	6003-2RS	6003LLB
6006-2RS	9106PP	106KSZZ	6006DDU	6006-2RS	6006LLB
6009-2RS	9109PP	109KSZZ	6009DDU	6009-2RS	6009LLB
6012-2RS	9112PP	112KSZZ	6012DDU	6012-2RS	6012LLB
6015-2RS	9115PP	115KSZZ	6015DDU	6015-2RS	6015LLB
6018-2RS	9118PP	118KSZZ	6018DDU	6018-2RS	6018LLB
6021-2RS	9121PP	121KSZZ	6021DDU	6021-2RS	6021LLB
6024-2RS	9124PP	124KSZZ	6024DDU	6024-2RS	6024LLB

6000 Series Ball Bearings

WJB	FAFNIR	MRC	NSK	SFK	NTN
6200-ZZ	200KDD	200KSFF	6200-ZZ	6200-2Z	6200-ZZ
6203-ZZ	203KDD	203KSFF	6203-ZZ	6203-2Z	6203-ZZ
6206-ZZ	206KDD	206KSFF	6206-ZZ	6206-2Z	6206-ZZ
6209-ZZ	209KDD	209KSFF	6209-ZZ	6209-2Z	6209-ZZ
6212-ZZ	212KDD	212KSFF	6212-ZZ	6212-2Z	6212-ZZ
6215-ZZ	215KDD	215KSFF	6215-ZZ	6215-2Z	6215-ZZ
6218-ZZ	218KDD	218KSFF	6218-ZZ	6218-2Z	6218-ZZ
6221-ZZ	--	221KSFF	6221-ZZ	6221-2Z	6221-ZZ
6224-ZZ	--	224KSFF	6224-ZZ	6224-2Z	6224-ZZ

WJB	FAFNIR	MRC	NSK	SFK	NTN
6200-2RS	200PP	200SZZ	6200DDU	6200-2RS	6200LLB
6203-2RS	203KPP	203SZZ	6203DDU	6203-2RS	6203LLB
6206-2RS	206NPP	206SZZ	6206DDU	6206-2RS	6206LLB
6209-2RS	209NPP	209SZZ	6209DDU	6209-2RS	6209LLB
6212-2RS	212NPP	212SZZ	6212DDU	6212-2RS	6212LLB
6215-2RS	215NPP	215SZZ	6215DDU	6215-2RS	6215LLB
6218-2RS	218NPP	218SZZ	6218DDU	6218-2RS	6218LLB
6221-2RS	--	221SZZ	6221DDU	6221-2RS	6221LLB
6224-2RS	--	224SZZ	6224DDU	6224-2RS	6224LLB

WJB	FAFNIR	MRC	NSK	SFK	NTN
6300-ZZ	300KDD	300KSFF	6300-ZZ	6300-2Z	6300-ZZ
6303-ZZ	303KDD	303KSFF	6303-ZZ	6303-2Z	6303-ZZ
6306-ZZ	306KDD	306KSFF	6306-ZZ	6306-2Z	6306-ZZ
6309-ZZ	309KDD	309KSFF	6309-ZZ	6309-2Z	6309-ZZ
6312-ZZ	312KDD	312KSFF	6312-ZZ	6312-2Z	6312-ZZ
6315-ZZ	315KDD	315KSFF	6315-ZZ	6315-2Z	6315-ZZ
6318-ZZ	--	318KSFF	6318-ZZ	6318-2Z	6318-ZZ
6321-ZZ	--	321KSFF	6321-ZZ	--	6321-ZZ
6324-ZZ	--	324KSPF	6324-ZZ	--	--

WJB	FAFNIR	MRC	NSK	SFK	NTN
6300-2RS	--	300SZZ	6300DDU	6300-2RS	6300LLB
6303-2RS	303NPP	303SZZ	6303DDU	6303-2RS	6303LLB
6306-2RS	306NPP	306SZZ	6306DDU	6306-2RS	6306LLB
6309-2RS	309NPP	309SZZ	6309DDU	6309-2RS	6309LLB
6312-2RS	312NPP	312SZZ	6312DDU	6312-2RS	6312LLB
6315-2RS	315NPP	315SZZ	6315DDU	6315-2RS	6315LLB
6318-2RS	318NPP	318SZZ	6318DDU	6318-2RS	6318LLB
6321-2RS	--	321SZZ	6321DDU	6321-2RS	6321LLB
6324-2RS	--	324SZZ	6324DDU	6324-2RS	6324LLB

5200 Series Double Row Ball Bearings

WJB	FAFNIR	NSK	MRC	SKF	NTN
5200-ZZ	5200KDD2	5200-ZZ	5200SBKFF	55500	--
5201-ZZ	5201KDD	5201-ZZ	5201SBKFF	55501	--
5202-ZZ	5202KDD	5202-ZZ	5202SBKFF	55502	--
5203-ZZ	5203KDD	5203-ZZ	5203SBKFF	55503	5203-ZZ
5204-ZZ	5204KDD	5204-ZZ	5204SBKFF	55504	5204-ZZ
5205-ZZ	5205KDD	5205-ZZ	5205SBKFF	55505	5205-ZZ
5206-ZZ	5206WDD	5206-ZZ	5206SBKFF	55506	5206-ZZ
5207-ZZ	5207WDD	5207-ZZ	5207SBKFF	55507	5207-ZZ
5208-ZZ	5208WDD	5208-ZZ	5208SBKFF	55508	5208-ZZ
5209-ZZ	5209WDD	5209-ZZ	5209SBKFF	55509	5209-ZZ
5210-ZZ	5210WDD	5210-ZZ	5210SBKFF	55510	5210-ZZ

5300 Series Double Row Ball Bearings

WJB	BCA	NSK	MRC	NDH	MCGILL
5300-ZZ	--	5300-ZZ	--	--	---
5301-ZZ	--	5301-ZZ	--	--	---
5302-ZZ	--	5302-ZZ	--	--	---
5303-ZZ	--	5303-ZZ	5303SBKFF	55603	5303FF
5304-ZZ	--	5304-ZZ	5304SBKFF	55604	5304FF
5305-ZZ	5305-SS	5305-ZZ	5305SBKFF	55605	5305FF
5306-ZZ	5306-SS	5306-ZZ	5306SBKFF	55606	5306FF
5307-ZZ	5307-SS	5307-ZZ	5307SBKFF	55607	5307FF
5308-ZZ	5308-SS	5308-ZZ	5308SBKFF	55608	5308FF
5309-ZZ	5309-SS	2309-ZZ	5309SBKFF	55609	5309FF
5310-ZZ	5310-SS	5310-ZZ	5310SBKFF	55610	5310FF

1600,3000,7500DLG and 7600DLG Series

WJB	NICE	SCHATZ	GBC	FEDERAL
1601	1601-NS	BR-01	21103-00	BR01
1654	1654-NS	BR-54	24020-00	BR54
1657	1657-NS	--	24120-00	--
1601-ZZ	1601-DS	BR-7701	21103-77	BR-7701
1654-ZZ	1654-DS	BR-7754	24020-77	BR-7754
1657-ZZ	1657-DS	--	24120-77	--
1601-2RS	1601-DC	BR-9901A	21103-55	BR-9901A
1654-2RS	1654-DC	BR-9954	24020-55	BR-9954
1657-2RS	1657-DC	--	24120-55	--
3041	3041-NS	--	23263-00	--
3041-ZZ	3041-DS	--	23263-77	--
3041-2RS	3041-DC	--	23263-55	--
7512DLG	7512DLG	W512	S8603-55	--
7516DLG	7516DLG	W516	S8605-55	--
7612DLG	7612DLG	WE512	S8703-55	--
7616DLG	7616DLG	WE516	S8706-55	--

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