



# BEARING SPECIFICATIONS 6000 SERIES

米制6000系列

Any combination of closures is available

Basic Bearing No.	Bore <i>d</i>		Outer Diameter <i>D</i>		Width <i>W</i>		Radius <i>r</i> min		Basic Load Rating KN		Ball Complement		Max Runout Speed		Weight kg
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic	Static	No.	Size mm	Grease r/min	Oil r/min	
									<i>C</i>	<i>C<sub>0</sub></i>					
606	6	.2362	17	.6693	6	.2362	0.3	.012	1.95	0.72	6	3.969	30000	38000	0.006
607	7	.2756	19	.7480	6	.2362	0.3	.012	2.88	1.08	6	3.969	28000	36000	0.008
608	8	.3149	22	.8661	7	.2756	0.3	.012	3.32	1.38	7	3.969	26000	34000	0.012
609	9	.3543	24	.9449	7	.2756	0.3	.012	3.35	1.40	7	3.969	22000	30000	0.014
6000	10	.3937	26	1.0236	8	.3150	0.3	.012	4.58	1.98	7	4.763	20000	28000	0.019
6001	12	.4724	28	1.1024	8	.3150	0.3	.012	5.10	2.38	8	4.763	19000	26000	0.021
6002	15	.5906	32	1.2598	9	.3543	0.3	.012	5.58	2.85	9	4.763	18000	24000	0.030
6003	17	.6693	35	1.3780	10	.3937	0.3	.012	6.00	3.25	10	4.763	17000	22000	0.039
6004	20	.7874	42	1.6535	12	.4724	0.6	.024	9.38	5.02	9	6.35	15000	19000	0.069
6005	25	.9843	47	1.8504	12	.4724	0.6	.024	10.00	5.85	10	6.35	13000	17000	0.080
6006	30	1.1811	55	2.1654	13	.5118	1.0	.039	10.18	6.91	11	7.144	12000	15000	0.116
6007	35	1.3780	62	2.4409	14	.5512	1.0	.039	12.47	8.66	11	7.938	10000	13000	0.155
6008	40	1.5748	68	2.6772	15	.5906	1.0	.039	13.10	9.45	12	7.938	8000	11000	0.185
6009	45	1.7717	75	2.9528	16	.6299	1.0	.039	16.22	11.96	12	8.731	7200	9000	0.231



# BEARING SPECIFICATIONS 6200 SERIES

米制6200系列

Any combination of closures is available

Basic Bearing No.	Bore <i>d</i>		Outer Diameter <i>D</i>		Width <i>W</i>		Radius <i>r</i> min		Basic Load Rating KN		Ball Complement		Max Runout Speed		Weight kg
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic	Static	No.	Size mm	Grease r/min	Oil r/min	
									<i>C</i>	<i>C<sub>0</sub></i>					
624	4	.1575	13	.5118	5	.1968	0.2	.007	1.15	0.4	6	2.381	36000	45000	0.0032
625	5	.1968	16	.6299	5	.1968	0.3	.012	1.88	0.68	6	3.175	32000	40000	0.0048
626	6	.2362	19	.7480	6	.2362	0.3	.012	2.80	1.05	6	3.969	28000	36000	0.0081
627	7	.2756	22	.8661	7	.2756	0.3	.012	3.28	1.35	7	3.969	26000	34000	0.013
628	8	.3149	24	.9448	8	.3149	0.3	.012	3.35	1.40	7	3.969	24000	32000	0.017
629	9	.3543	26	1.0236	8	.3149	0.3	.012	4.45	1.95	7	4.763	22000	30000	0.020
6200	10	.3937	30	1.1811	9	.3543	0.6	.024	5.10	2.38	8	4.763	19000	26000	0.032
6201	12	.4724	32	1.2598	10	.3937	0.6	.024	6.82	3.05	7	5.953	18000	24000	0.037
6202	15	.5906	35	1.3780	11	.4331	0.6	.024	7.65	3.72	8	5.953	17000	22000	0.045
6203	17	.6693	40	1.5748	12	.4724	0.6	.024	9.58	4.78	8	6.747	16000	20000	0.066
6204	20	.7874	47	1.8504	14	.5512	1.0	.039	12.8	6.65	8	7.938	14000	18000	0.106
6205	25	.9843	52	2.0470	15	.5906	1.0	.039	14.0	7.88	9	7.938	12000	16000	0.128
6206	30	1.1811	62	2.4409	16	.6299	1.0	.039	19.5	11.2	9	9.525	10000	13000	0.199
6207	35	1.3780	72	2.8346	17	.6693	1.1	.043	19.75	13.67	9	11.112	8800	10000	0.287



# BEARING SPECIFICATIONS 6900 SERIES

## INCH R SERIES 米制6900系列/英制 R系列

Any combination of closures is available

Basic Bearing No.	Bore <i>d</i>		Outer Diameter <i>D</i>		Width <i>W</i>		Radius <i>r</i> <sub>min</sub>		Basic Load Rating KN		Ball Complement		Max Runout Speed		Weight kg
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic <i>C</i>	Static <i>C</i> <sub>0</sub>	No.	Size mm	Grease r/min	Oil r/min	
695	5	.1969	13	.5118	4	.1575	0.2	.008	1.08	0.42	8	2.0	34000	43000	0.0024
696	6	.2362	15	.5906	5	.1969	0.2	.008	1.48	0.60	8	2.381	32000	40000	0.0038
697	7	.2756	17	.6693	5	.1969	0.2	.008	2.02	0.80	9	2.381	30000	38000	0.0052
698	8	.315	19	.7480	6	.2362	0.3	.012	2.25	0.92	7	3.5	28000	36000	0.0073
699	9	.3543	20	.7874	6	.2362	0.3	.012	2.48	1.8	9	2.381	27000	34000	0.0082
6900	10	.3937	22	.8661	6	.2362	0.5	.020	3.30	1.40	12	2.381	25000	32000	0.009
6901	12	.4724	24	.9449	6	.2362	0.5	.020	3.38	1.48	9	3.5	20000	28000	0.011
6902	15	.5906	28	1.0124	7	.2756	0.5	.020	4.00	2.02	10	3.969	19000	26000	0.016
6903	17	.6693	30	1.1811	7	.2756	0.5	.020	4.30	2.32	11	3.969	18000	24000	0.018
6904	20	.7874	37	1.4567	9	.3543	0.5	.020	6.55	3.60	11	4.763	17000	22000	0.036
6905	25	.9843	42	1.6535	9	.3543	0.5	.020	7.36	4.55	13	4.763	14000	18000	0.042
6906	30	1.1811	47	1.8504	9	.3543	0.3	.012	7.25	5.00	14	3.175	12000	16000	0.048
6907	35	1.3780	55	2.1654	10	.3937	0.6	.024	11.2	7.45	-	-	10000	14000	0.074

Any combination of closures is available

Basic Bearing No.	Bore <i>d</i>		Outer Diameter <i>D</i>		Width <i>W</i>				Radius <i>r</i> <sub>min</sub>		Basic Load Rating KN		Ball Complement	
	mm	inch	mm	inch	Open		Shielded Sealed		mm	inch	Dynamic <i>C</i>	Static <i>C</i> <sub>0</sub>	No.	Size mm
R4	6.350	.2500	15.875	.6250	4.98	.1960	4.98	.1960	0.3	.012	0.742	0.342	9	2.381
R6	9.525	.3750	22.225	.8750	5.56	.2188	7.14	.2812	0.4	.016	2.556	1.351	7	3.969
R8	12.700	.5000	28.575	1.1250	6.35	.2500	7.94	.3125	0.4	.016	3.192	2.245	8	4.763
R10	15.875	.6250	34.925	1.3750	7.14	.2812	8.73	.3438	0.8	.031	4.605	2.774	8	5.953
R12	19.050	.7500	41.275	1.6250	7.94	.3125	11.11	.4375	0.8	.031	7.246	4.445	9	6.35
99502H	15.875	.6250	34.925	1.3750	-	-	11	.4331	0.8	.031	4.605	2.774	8	5.953





# BEARING SPECIFICATIONS 6300 SERIES

米制6300系列



Any combination of closures is available

Basic Bearing No.	Bore <i>d</i>		Outer Diameter <i>D</i>		Width <i>W</i>		Radius <i>r</i> min		Basic Load Rating KN		Ball Complement		Max Runout Speed		Weight kg
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic	Static	No.	Size mm	Grease	Oil	
									<i>C</i>	<i>C<sub>0</sub></i>			r/min	r/min	
6300	10	.3937	35	1.3780	11	.4331	0.6	.024	7.65	3.48	7	6.35	15000	21000	0.053
6301	12	.4724	37	1.4567	12	.4724	1.0	.039	9.72	5.08	6	7.938	14000	20000	0.060
6302	15	.5906	42	1.6535	13	.5118	1.0	.039	11.5	5.42	7	7.938	13000	18000	0.082
6303	17	.6693	47	1.8504	14	.5512	1.0	.039	13.5	6.58	7	8.731	12000	17000	0.115
6304	20	.7874	52	2.0472	15	.5906	1.1	.043	15.9	7.8	7	9.525	11000	15000	0.144
6305	25	.9843	62	2.4409	17	.6693	1.1	.043	17.22	11.39	7	11.5	10000	13000	0.2193
6306	30	1.1811	72	2.8346	19	.7480	1.1	.043	20.77	14.17	8	12	8000	10000	0.3498
6307	35	1.3780	80	3.1496	21	.8268	1.5	.059	25.66	17.92	8	13.494	6800	8000	0.4542



# BEARING SPECIFICATIONS 6800 SERIES

米制6800系列

Any combination of closures is available

Basic Bearing No.	Bore <i>d</i>		Outer Diameter <i>D</i>		Width <i>W</i>		Radius <i>r</i> min		Basic Load Rating KN		Ball Complement		Max Runout Speed		Weight kg
	mm	inch	mm	inch	mm	inch	mm	inch	Dynamic	Static	No.	Size mm	Grease	Oil	
									<i>C</i>	<i>C<sub>0</sub></i>			r/min	r/min	
685	5	.1969	11	.4331	3	.1181	0.2	.008	0.547	0.253	8	1.588	35000	45000	0.0011
686	6	.2362	13	.5008	3.5	.1378	0.2	.008	0.331	0.4	8	2.0	33000	42000	0.0019
687	7	.2756	14	.5512	3.5	.1378	0.2	.008	0.898	0.458	9	2.0	31000	40000	0.0021
688	8	.315	16	.6299	4	.1575	0.3	.012	1.378	0.711	9	2.381	29000	38000	0.0031
689	9	.3543	17	.6693	4	.1575	0.3	.012	1.378	0.711	11	2.0	28000	36000	0.0032
6800	10	.3937	19	.7480	5	.1969	0.3	.012	1.40	0.75	9	2.381	26000	34000	0.005
6801	12	.4724	21	.8268	5	.1969	0.3	.012	1.40	0.75	12	2.381	22000	30000	0.007
6802	15	.5906	24	.9449	5	.1969	0.3	.012	1.92	1.18	14	2.381	20000	28000	0.008
6803	17	.6693	26	1.0236	5	.2756	0.3	.012	2.18	1.28	15	2.381	19000	26000	0.019
6804	20	.7874	32	1.2598	7	.2756	0.3	.012	3.45	2.25	13	3.5	17000	22000	0.042
6805	25	.9843	37	1.4567	7	.2756	0.3	.012	3.70	2.65	15	3.5	15000	19000	0.048
6806	30	1.1811	42	1.6535	7	.2756	0.3	.012	4.70	3.65	19	3.175	13000	17000	0.026
6807	35	1.3780	47	1.8504	7	.2756	0.3	.012	4.90	4.05	-	-	11000	15000	0.029
6808	40	1.5748	52	2.0472	7	.2756	0.3	.012	5.10	4.40	-	-	9000	13000	0.033



# VIBRATION AND NOISE

## 振动和噪声

The vibration and noise of bearings are classified as four classes as  $Z_1$ ,  $Z_2$ ,  $Z_3$  and  $Z_4$ . It is measured by the instrument of SO910-1, For special requirement, it is measured by BVT-1 and classified as  $V_1$ ,  $V_2$ ,  $V_3$ , and  $V_4$ .

The data are shown as below, Customer, Customer need mark the requirement of vibration and noise class on the order.

### TOLERANCE DATA FOR VIBRATION OF SINGLE BEARING

Tolerance in  $\mu\text{m/s}$

d mm	V			$V_1$			$V_2$			$V_3$			$V_4$		
	Low Brand	Medium Brand	High Brand	Low Brand	Medium Brand	High Brand	Low Brand	Medium Brand	High Brand	Low Brand	Medium Brand	High Brand	Low Brand	Medium Brand	High Brand
3,4	80	44	44	60	35	32	48	26	22	31	16	16	15	10	10
5,6	110	72	60	74	48	40	58	36	30	35	21	21	18	11	11
7,8,9	130	96	80	92	66	54	72	48	40	44	28	28	24	12	12
10,12	160	120	100	120	80	70	90	60	50	55	35	35	30	14	15
15	210	150	120	150	100	85	110	78	60	65	46	46	35	18	18
17	210	150	120	150	100	85	110	78	60	65	46	46	35	25	25
20	260	190	150	180	125	100	130	100	75	80	60	60	45	25	25
22,25	260	190	150	180	125	100	130	100	75	80	60	60	45	30	32
28	260	190	150	180	125	100	130	100	75	80	60	60	45	35	40
30,32	300	240	190	200	150	130	150	120	100	90	75	75	60	35	40
35	300	240	190	200	150	130	150	120	100	90	75	75	60	42	45
40	360	300	260	240	180	160	180	150	130	110	90	90	80	50	50
45	360	300	260	240	180	160	180	150	130	110	90	90	80	60	60
50	420	320	320	280	200	200	210	160	160	125	100	100	100	70	70
55	420	360	360	280	220	200	210	180	180	125	110	110	110	70	70
60	480	360	440	320	220	240	240	180	200	145	110	110	130	80	80

### MAXIMUM VIBRATION ACCELERATION OF SINGLE BEARING

Tolerance in dB

d mm	Diameter Series(0)				Diameter Series(2)					Diameter Series(3)				
	Z	$Z_1$	$Z_2$	$Z_3$	Z	$Z_1$	$Z_2$	$Z_3$	$Z_4$	Z	$Z_1$	$Z_2$	$Z_3$	$Z_4$
3	35	34	32	28	36	35	32	30	-	37	36	33	31	-
4	35	34	32	28	36	35	32	30	-	37	36	33	31	-
5	37	36	34	30	38	37	34	32	-	39	37	35	33	-
6	37	36	34	30	38	37	34	32	-	39	37	35	33	-
7	39	38	35	31	40	38	36	34	-	-	-	-	-	-
8	39	38	35	31	40	38	36	34	-	-	-	-	-	-
9	41	40	36	32	42	40	37	35	-	-	-	-	-	-
10	43	42	38	33	44	42	39	35	30	46	44	40	37	32
12	44	43	39	34	45	43	39	35	30	47	45	40	37	32
15	45	44	40	35	46	44	41	36	31	48	46	42	38	33
17	46	44	40	35	47	45	41	36	31	49	47	42	38	33
20	47	45	41	36	48	46	42	38	33	50	48	43	39	34
22	47	45	41	36	48	46	42	38	33	50	48	43	39	34
25	48	46	42	38	49	47	43	40	36	51	49	44	41	37
28	49	47	43	39	50	48	44	41	37	52	50	45	42	38
30	49	47	43	39	50	48	44	41	37	52	50	45	42	38
32	50	48	44	40	51	49	45	42	38	53	51	46	43	39
35	51	49	45	41	52	50	46	43	39	54	52	47	44	40
40	53	51	46	42	54	52	47	44	40	56	54	49	45	41
45	55	53	48	45	56	54	49	46	43	58	56	51	47	44
50	57	54	50	47	58	55	51	48	45	60	57	53	49	46
55	59	56	52	49	60	57	53	50	47	62	59	54	51	48
60	61	58	54	51	62	59	54	51	48	64	61	56	53	50



# CLEARANCE

## 游隙

(深沟轴承的径向游隙)

μm

轴承内径 Bore diameter d(mm)		第2组 (C <sub>2</sub> ) Group 2		基本组 (0) Standard group		第3组 (C <sub>3</sub> ) Group 3		第4组 (C <sub>4</sub> ) Group 4		第5组 (C <sub>5</sub> ) Group 5	
超过 Over	到 To	最小 Min.	最大 Max.	最小 Min.	最大 Max.	最小 Min.	最大 Max.	最小 Min.	最大 Max.	最小 Min.	最大 Max.
2.5	6	0	7	2	13	8	23	-	-	-	-
6	10	0	7	2	13	8	23	14	29	20	37
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64
40	50	1	11	6	23	18	36	30	51	45	73
50	65	1	15	8	28	23	43	38	61	55	90

注: C<sub>2</sub>组游隙公适合用于6级精度以上轴承 Note: C<sub>2</sub> Group Clearance only for Bearings over 6 Grade Accuracy



# Grease

## 油脂



油脂型号及性能 The Grease NO. And Function

Company Brand	Designation	Dropping Tem. °C	penetration at 25°C	Working Tem. °C	Remarks
Shell	Alvania R12	185	265~295	-35~120	general purpose
	Alvania R13	185	220~250	-35~135	
	Alvania RA	180	250~275	-25~100	
	Alvania EP1	180	310~340	-25~110	high Tem. Service
	Alvania EP2	185	265~295	-25~110	
	Darina 2	250	265~295	-25~150	
	Darina EP2	250	265~295	-25~150	
Dolium R2	250	265~295	-35~150	Corrosion resistant	
Esso	Andok C	260	190~210	-30~120	general purpose
	Andok 260	190	204~260	-40~120	low Tem.service
	Beacon 325	190	255~280	-54~120	
Chevron	SRI-2	240	255~280	-30~120	water resistant
Mobil	Mobilux 2	190	265~290	-10~110	general purpose
	Mobil 22	192	250~274	-40~120	Wide rang Tem.service
	Mobil 28	260	265~295	-55~175	
	Mobil 48	260	240~270	-60~170	
Kluber	Isoflex LDS 18	190	255~280	-50~110	low Tem.service
	Isoflex NBU15	250	255~280	-30~120	general purpose
Kyodo Yushii	Multemp SRL	185	225~245	-40~145	low torque service
	Multemp PS2	190	250~275	-50~110	low Tem.service
	Multemp SC-A	260	255~280	0~160	high Tem.service
	Multemp ET150	260	255~280	-10~160	
China Hangu	Hangu 2	198	265~295	-10~130	low noise service