

Type code + size code

- 1: Light series 511 XX
- 2: Medium series 512 XX
- 3: Heavy series 513 XX

5

11

05

5

12

10

5

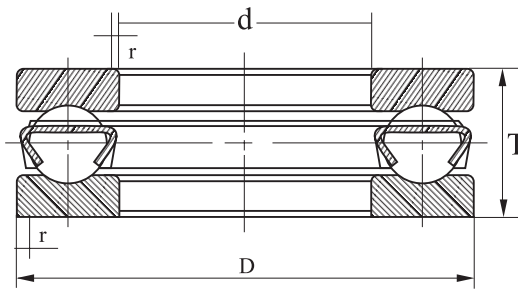
13

15

I.D.

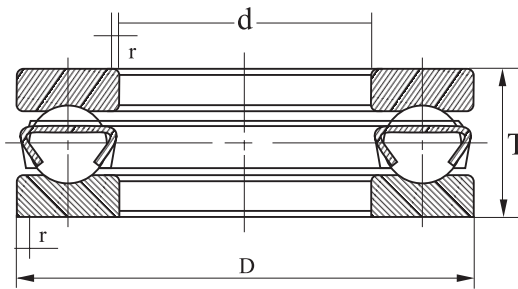
5 X --	=	mm
5 X 0 5	=	25 mm
5 X 10	=	50 mm
5 X 15	=	75 mm

PLANE THRUST BALL BEARINGS



Principal dimensions mm (in)				Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)	
d	D	B	r _{min}			Dynamic C _r	Static Cor	Grease	Oil
10 0.3937	24 0.9448	9 0.3543	0.3 0.011	0.019 0.042	51100	9.00 2030	13.44 3020	6400	9000
	26 1.0236	11 0.4330	0.6 0.023	0.028 0.062	51200	11.43 2570	16.42 3700	5500	7900
12 0.4724	26 1.0236	9 0.3543	0.3 0.011	0.21 0.046	51101	9.27 2090	14.78 3330	6100	8700
	28 1.1023	11 0.4330	0.6 0.023	0.031 0.068	51201	11.88 2670	18.24 4100	5300	7600
15 0.5905	28 1.1023	9 0.3543	0.3 0.011	0.023 0.051	51102	9.45 2130	16.13 3630	5900	8400
	32 1.2598	12 0.4724	0.6 0.023	0.043 0.095	51202	14.94 3360	23.81 5360	4800	6700
17 0.6692	30 1.1811	9 0.3543	0.3 0.011	0.025 0.055	51103	9.72 2190	17.47 3930	5700	8100
	35 1.3779	12 0.4724	0.6 0.023	0.050 0.110	51203	15.48 3480	26.21 5900	4600	6500
20 0.7874	35 1.3779	10 0.3937	0.3 0.011	0.037 0.082	51104	12.78 2880	23.71 5340	4900	7100
	40 1.5748	14 0.5511	0.6 0.023	0.077 0.170	51204	20.07 4520	36.00 8100	3900	5600
25 0.9842	42 1.6535	11 0.4330	0.6 0.023	0.056 0.123	51105	17.64 3970	35.52 7990	4400	6200
	47 1.8503	15 0.5905	0.6 0.023	0.111 0.245	51205	25.02 5630	48.48 10910	3500	5000
	52 2.0472	18 0.7086	1.0 0.039	0.169 0.373	51305	31.95 7190	59.04 13280	3000	4400
30 1.1811	47 1.8503	11 0.4330	0.6 0.023	0.064 0.141	51106	18.36 4130	40.32 9070	4100	5900
	52 2.0472	16 0.6299	0.6 0.023	0.137 0.302	51206	26.37 5930	55.68 12530	3200	4700
	60 2.3622	21 0.8267	1.0 0.039	0.267 0.589	51306	38.70 8710	75.36 16960	2700	3700
35 1.3779	52 2.0472	12 0.4724	0.6 0.023	0.081 0.179	51107	18.36 4130	42.72 9610	3700	5300
	62 2.4409	18 0.7086	1.0 0.039	0.210 0.463	51207	35.10 7900	74.88 16850	2800	4000
	68 2.6771	24 0.9448	1.0 0.039	0.386 0.851	51307	49.95 11240	100.80 22680	2300	3300
40 1.5748	60 2.3622	13 0.5118	0.6 0.023	0.120 0.265	51108	24.21 5450	60.48 13610	3300	4800
	68 2.6771	19 0.7480	1.0 0.039	0.270 0.595	51208	42.30 9520	94.56 21280	2600	3700
	78 3.0708	26 1.0236	1.0 0.039	0.536 1.182	51308	62.10 13970	129.60 29160	2100	2900
45 1.7716	65 2.5590	14 0.5511	0.6 0.023	0.143 0.315	51109	25.11 5650	66.24 14900	3000	4400
	73 2.8740	20 0.7874	1.0 0.039	0.310 0.684	51209	43.20 9720	100.80 22680	2500	3500
	85 3.3464	28 1.1023	1.0 0.039	0.672 1.482	51309	72.00 16200	156.48 35210	1900	2800
50 1.9685	70 2.7559	14 0.5111	0.6 0.023	0.153 0.337	51110	25.90 5830	72.48 16310	2900	4300
	78 3.0708	22 0.8661	1.0 0.039	0.387 0.833	51210	43.65 9820	106.56 23980	2300	3200
	95 3.7401	31 1.2204	1.1 0.043	0.931 2.053	51310	86.85 19540	193.92 43630	1700	2500

PLANE THRUST BALL BEARINGS



Principal dimensions mm (in)				Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)	
d	D	B	r _{min}			Dynamic C _r	Static Cor	Grease	Oil
55 2.1653	78 3.0708	16 0.6299	0.6 0.023	0.277 0.501	51111	31.50 7090	89.28 20088	2700	3800
	90 3.5433	25 0.9842	1.0 0.039	0.599 1.321	51211	62.55 14070	152.64 34344	2000	2900
	105 4.1338	35 1.3779	1.1 0.043	1.310 2.889	51311	107.10 24100	236.16 53136	1500	2200
60 2.3622	85 3.3464	17 0.6692	1.0 0.039	0.218 0.620	51112	37.35 8400	108.48 24408	2500	3500
	95 3.5433	26 1.0236	1.0 0.039	0.673 1.484	51212	66.15 14880	171.84 38664	1900	2700
	110 4.3307	35 1.3779	1.1 0.043	1.400 3.087	51312	110.70 24910	256.32 57672	1500	2200
65 2.5590	90 3.5433	18 0.7086	1.0 0.039	0.324 0.714	51113	37.35 8400	112.32 25272	2300	3300
	100 3.9370	27 1.0629	1.0 0.039	0.756 1.667	51213	67.50 15190	118.44 26664	1800	2600
	115 4.5275	36 1.4173	1.1 0.043	1.540 3.396	51313	115.20 25920	275.52 61992	1400	2100
70 2.7559	95 3.7401	18 0.7086	1.0 0.039	0.346 0.763	51114	38.70 8710	121.92 27432	2300	3200
	105 4.1338	27 1.0629	1.0 0.039	0.793 1.749	51214	68.40 15390	191.04 42984	1700	2500
	125 4.9213	40 1.5748	1.1 0.043	2.000 4.410	51314	133.20 29970	326.40 73440	1300	1900
75 2.9527	100 3.9370	19 0.7480	1.0 0.039	0.389 0.858	51115	40.05 9010	130.56 29376	2100	3000
	110 4.3307	27 1.0629	1.0 0.039	0.845 1.863	51215	69.75 15690	200.64 45144	1700	2500
	135 5.3150	44 1.7322	1.5 0.059	2.600 5.733	51315	153.90 34630	379.20 85320	1200	1700
80 3.1496	105 4.1339	19 0.7480	1.0 0.039	0.417 0.919	51116	40.05 9010	135.36 30456	2100	2900
	115 4.5275	28 1.1023	1.0 0.039	0.931 2.053	51216	70.65 15900	209.28 47088	1600	2300
	140 5.5118	44 1.7322	1.5 0.059	2.740 6.042	51316	158.40 35640	408.00 91800	1100	1700
85 3.3464	110 4.3307	19 0.7480	1.0 0.039	0.440 0.970	51117	41.40 9320	144.00 32400	2000	2900
	125 4.9212	31 1.2204	1.0 0.039	1.220 2.690	51217	85.95 19340	253.44 57020	1500	2100
	150 5.9055	49 1.9291	1.5 0.059	3.570 7.872	51317	180.90 40700	470.40 105840	1000	1500
90 3.5433	120 4.7244	22 0.8661	1.0 0.039	0.646 1.424	51118	53.55 12050	182.40 41040	1800	2600
	135 5.3149	35 1.3779	1.1 0.043	1.690 3.726	51218	105.30 23690	312.00 70200	1300	1900
	155 6.1023	50 1.9685	1.5 0.059	3.830 8.445	51318	178.20 40100	470.40 105840	1000	1500
100 3.9370	135 5.3149	25 0.9842	1.0 0.039	0.960 2.117	51120	76.50 17210	257.28 57890	1600	2300
	150 5.9055	38 1.4960	1.1 0.043	2.250 4.961	51220	132.30 29770	393.60 88560	1200	1700
	170 6.6929	55 2.1650	1.5 0.059	4.980 10.981	51320	213.30 47990	571.20 128520	900	1300