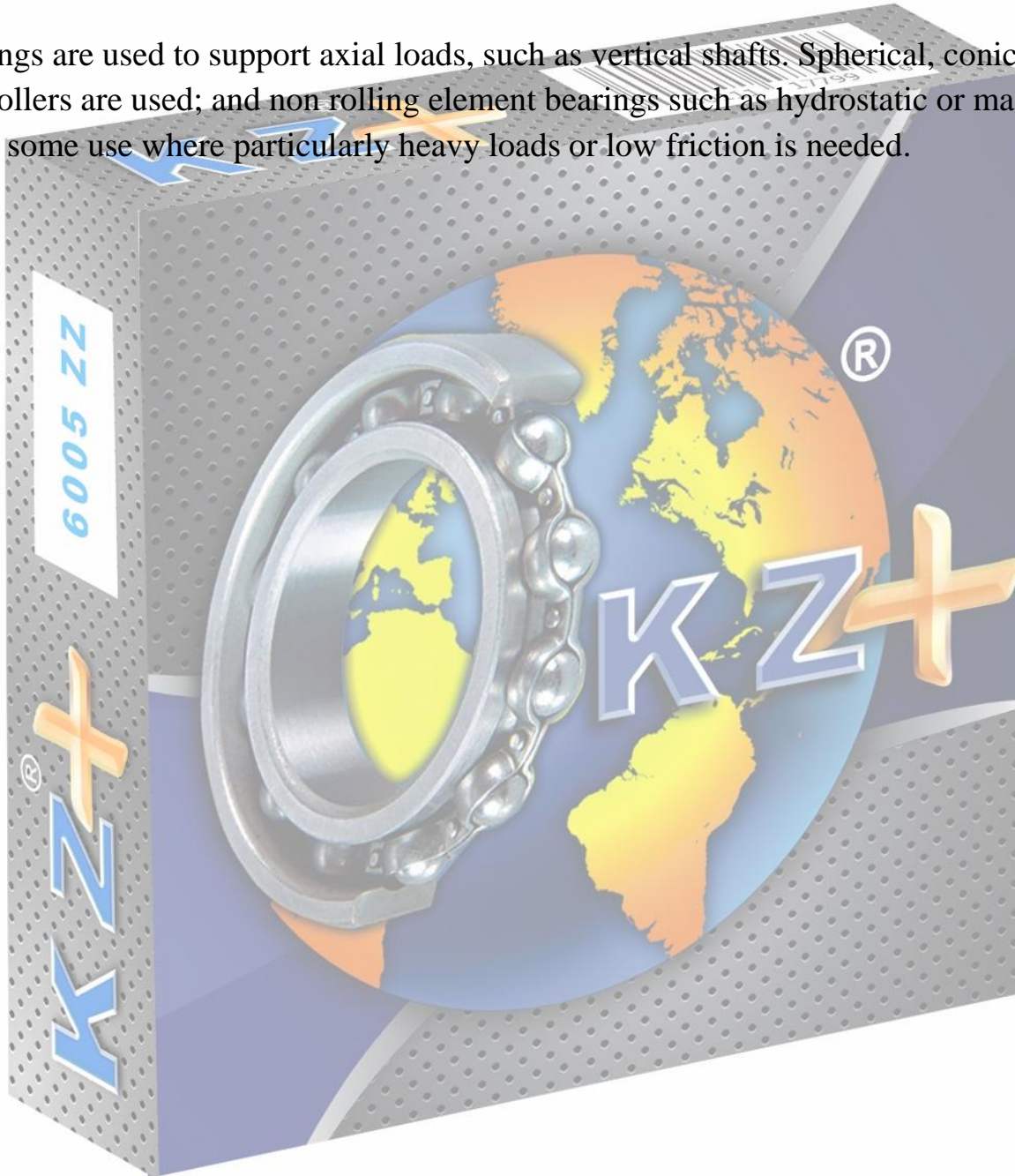


THRUST BALL BEARINGS

This kind of bearing is able to bear axial loading capacity in 2 directions and limit the axial movement of shaft or outer shell in 2 directions. Inclining to the shaft of outer shell bore is not allowed in assembling.

Thrust bearings are used to support axial loads, such as vertical shafts. Spherical, conical or cylindrical rollers are used; and non rolling element bearings such as hydrostatic or magnetic bearings see some use where particularly heavy loads or low friction is needed.



BEARING NUMBER	NOMINAL DIMENSIONS' [mm]				LOAD RATING(kN)		LIMITING SPEED(RPM)		Weight
					Dynamic	Static	Oil	Grease	
	d	D	B	r	C	Co	Lube	Lube	Kgs
51100	10	24	9	0.3	10	14	6500	10000	0.020
51101	12	26	9	0.3	10.3	15.4	6500	10000	0.022
51102	15	28	9	0.3	10.5	16.8	6100	9400	0.024
51103	17	30	9	0.3	10.8	18.2	6100	9400	0.028
51104	20	35	10	0.3	14.2	24.7	5100	7900	0.040
51105	25	42	11	0.6	19.5	37.2	4400	6800	0.059
51106	30	47	11	0.6	20.4	42.2	4300	6600	0.068
51107	35	52	12	0.6	20.4	44.7	3900	6000	0.090
51108	40	60	13	0.6	26.9	62.8	3400	5000	0.120
51109	45	65	14	0.6	27.8	69.1	3200	5000	0.150
51110	50	70	14	0.6	28.8	75.4	3100	4800	0.160
51111	55	78	16	0.6	34.8	93.1	2800	4300	0.240
51112	60	85	17	1	41.4	113	2600	4000	0.290
51113	65	90	18	1	41.7	117	2400	3700	0.340
51114	70	95	18	1	43	125	2300	3600	0.360
51115	75	100	19	1	43.2	127	2200	3400	0.420
51116	80	105	19	1	44.6	141	2100	3300	0.430
51117	85	110	19	1	45.9	150	2100	3200	0.460
51118	90	120	22	1	59.7	190	1900	2900	0.680
51120	100	135	25	1	85	268	1600	2500	0.990

BEARING NUMBER	NOMINAL DIMENSIONS' [mm]				LOAD RATING(kN)		LIMITING SPEED(RPM)		Weight Kgs
					Dynamic	Static	Oil	Grease	
	d	D	B	r	C	Co	Lube	Lube	Kgs
51200	10	26	11	0.6	12.7	17.1	5700	8800	0.030
51201	12	28	11	0.6	13.2	19	5400	8300	0.034
51202	15	32	12	0.6	16.6	24.8	4900	7500	0.046
51203	17	35	12	0.6	17.2	27.3	4900	7500	0.053
51204	20	40	14	0.6	22.3	37.7	3900	6000	0.082
51205	25	47	15	0.6	27.8	50.4	3600	5500	0.120
51206	30	52	16	0.6	29.3	58.2	3400	5200	0.150
51207	35	62	18	1	39.2	78.2	2900	4500	0.220
51208	40	68	19	1	46.9	98.3	2700	4200	0.270
51209	45	73	20	1	47.7	105	2600	4000	0.320
51210	50	78	22	1	48.5	111	2300	3600	0.390
51211	55	90	25	1	69.4	159	2100	3200	0.610
51212	60	95	26	1	73.6	179	1900	3000	0.690
51213	65	100	27	1	74.8	189	1900	2900	0.770
51214	70	105	27	1	73.6	189	1800	2800	0.810
51215	75	110	27	1	77.4	209	1800	2700	0.860
51216	80	115	28	1	78.5	218	1700	2600	0.950
51217	85	125	31	1	92.3	251	1500	2300	1.290
51218	90	135	35	1.1	117	326	1400	2100	1.770
51220	100	150	38	1.1	147	410	1200	1900	2.360

BEARING NUMBER	NOMINAL DIMENSIONS' [mm]				LOAD RATING(kN)		LIMITING SPEED(RPM)		Weight Kgs
					Dynamic C	Static Co	Oil Lube	Grease Lube	
	d	D	B	r					
51305	25	52	18	1	35.7	61.4	3100	4800	0.180
51306	30	60	21	1	42.8	78.7	2700	4200	0.270
51307	35	68	24	1	55.5	105	2400	3700	0.390
51308	40	78	26	1	69.3	135	2100	3300	0.550
51309	45	85	28	1	80	163	1900	3000	0.690
51310	50	95	31	1.1	91.6	186	1800	2700	1.000
51311	55	105	35	1.1	119	246	1600	2400	1.340
51312	60	110	35	1.1	124	267	1500	2300	1.430
51313	65	115	36	1.1	128	287	1400	2200	1.570
51314	70	125	40	1.1	148	339	1300	2000	2.060
51315	75	135	44	1.5	171	396	1200	1900	2.680
51316	80	140	44	1.5	176	424	1200	1800	2.820
51317	85	150	49	1.5	206	489	1100	1700	3.660
51318	90	155	50	1.5	213	524	1000	1600	3.880
51320	100	170	55	1.5	236	596	940	1450	5.110

BEARING NUMBER	NOMINAL DIMENSIONS' [mm]			LOAD RATING(kN)		LIMITING SPEED(RPM)	Weight Kgs
				Dynamic	Static	Grease	
	d	D	B	C	Co	Lube	
51405	25	60	24	40000	67000	3000	0.340
51406	30	70	28	54000	93000	2500	0.530
51407	35	80	32	65000	117000	2200	0.790
51408	40	90	36	84000	153000	2000	1.150
51409	45	100	39	97000	180000	1800	1.450
51410	50	110	43	119000	230000	1700	2.000
51411	55	120	48	130000	270000	1500	2.650
51412	60	130	51	149000	300000	1350	3.300
51413	65	140	56	162000	335000	1250	4.200
51414	70	150	60	175000	375000	1200	5.100
51415	75	160	65	188000	420000	1100	6.350
51416	80	170	68	200000	465000	1000	8.000
51417	85	180	72	214000	510000	1000	9.450
51418	90	190	77	230000	560000	900	11.000
51420	100	210	85	278000	720000	800	14.700

BEARING NUMBER	NOMINAL DIMENSIONS' [mm]			LOAD RATING(kN)		LIMITING SPEED(RPM)	Weight
				Dynamic	Static	Grease	
	d	D	B	C	Co	Lube	
52202	10	32	22	1200	18500	5000	0.090
52204	15	40	26	1600	28000	4500	0.150
52205	20	47	28	20000	37000	4000	0.230
52206	25	52	29	19000	35000	3600	0.280
52207	30	62	34	26000	50000	3200	0.420
52208	30	68	36	35000	73000	2800	0.540
52209	35	73	37	27000	60000	2700	0.620
52210	40	78	39	38000	80000	2500	0.710
52211	45	90	45	46000	100000	2100	1.100
52212	50	95	46	47000	105000	2100	1.250
52213	55	100	47	48000	112000	1900	1.350
52215	60	110	47	50000	120000	1800	1.650
52216	65	115	48	57000	140000	1800	1.700
52217	70	125	55	73000	185000	1600	2.350
52218	75	135	62	89000	225000	1500	3.200
52220	85	150	67	93000	240000	1300	4.300
52222	95	160	67	97000	270000	1300	4.700
52224	100	170	68	105000	300000	1200	5.250

BEARING NUMBER	NOMINAL DIMENSIONS' [mm]			LOAD RATING(kN)		RPM	Weight
				Dynamic	Static		Kgs
	d	D	B	C	Co		
52305	20	52	34	25000	41000	3800	0.330
52306	25	60	38	28000	49000	3200	0.490
52307	30	68	44	37000	66000	2900	0.710
52308	30	78	49	46000	84000	2500	1.050
52309	35	85	52	57000	105000	2400	1.300
52310	40	95	58	66000	130000	2200	1.850
52311	45	105	64	78000	155000	1800	2.500
52312	50	110	64	75000	155000	1800	2.700
52313	55	115	65	80000	165000	1700	2.900
52314	55	125	72	100000	225000	1600	3.900
52315	60	135	79	120000	270000	1400	4.850
52316	65	140	79	119000	270000	1400	5.050
52317	70	150	87	130000	310000	1300	6.450
52318	75	155	88	150000	350000	1250	6.600
52320	85	170	97	170000	420000	1200	8.900
52322	95	190	110	200000	550000	1000	13.100
52324	100	210	123	240000	680000	950	18.400

BEARING NUMBER	NOMINAL DIMENSIONS' [mm]			LOAD RATING(kN)		RPM	Weight
				Dynamic	Static		Kgs
	d	D	B	C	Co		
52405	15	60	45	40000	70000	2600	0.630
52406	20	70	52	54000	93000	2500	1.000
52407	25	80	59	65000	115000	2200	1.440
52408	30	90	65	84000	153000	2000	2.030
52409	35	100	72	97000	180000	1800	2.710
52410	40	110	78	110000	210000	1700	3.566
52411	45	120	87	130000	270000	1500	4.700
52412	50	130	93	149000	300000	1300	6.330
52413	50	140	101	173000	370000	1200	8.030
52414	55	150	107	185000	410000	1100	9.710
52415	60	160	115	190000	420000	1050	11.800
52416	65	170	120	200000	465000	950	14.800
52417	65	180	128	215000	513000	900	18.600
52418	70	190	135	230000	560000	800	20.800
52420	80	210	150	258000	670000	750	28.200
52422	90	230	166	325000	930000	720	37.800
52424	95	250	177	340000	1000000	650	48.400
52426	100	270	192	410000	1300000	600	60.100

BEARING NUMBER	NOMINAL DIMENSIONS' [mm]			LOAD RATING(kN)		RPM	Weight
				Dynamic	Static		Kgs
	d	D	B	C	Co		
53202	15	32	13.3	12000	18000	6000	0.046
53203	17	35	13.2	13000	20000	5700	0.054
53204	20	40	14.7	16000	27000	5100	0.081
53205	25	47	16.7	20000	37000	4500	0.111
53206	30	52	17.8	19000	35000	4100	0.139
53207	35	62	19.9	26000	50000	3400	0.215
53208	40	68	20.3	35000	73000	3200	0.276
53209	45	73	21.3	29000	60000	3000	0.317
53210	50	78	23.5	37000	80000	2900	0.378
53211	55	90	27.3	46000	100000	2400	0.608
53212	60	95	28	47000	105000	2400	0.678
53213	65	100	28.7	48000	110000	2200	0.767
53214	70	105	28.8	49000	120000	2200	0.793
53215	75	110	28.3	50000	127000	2000	0.874
53216	80	115	29.5	57000	140000	2000	0.916
53217	85	125	33.1	73000	185000	1800	1.250
53218	90	135	38.5	89000	225000	1700	1.700
53220	100	150	40.9	93000	240000	1500	2.290

BEARING NUMBER	NOMINAL DIMENSIONS' [mm]			LOAD RATING(kN)		RPM	Weight
				Dynamic	Static		Kgs
	d	D	B	C	Co		
53305	25	52	19.8	17000	30000	3400	0.176
53306	30	60	22.6	27500	48700	3200	0.269
53307	35	68	25.6	37000	66000	2900	0.383
53308	40	78	28.5	46000	84000	2500	0.548
53309	45	85	30.1	57000	105000	2400	0.684
53310	50	95	34.4	66000	125000	2200	0.951
53311	55	105	39.3	78000	156000	1800	1.290
53312	60	110	38.3	75000	156000	1800	1.370
53313	65	115	39.4	79000	165000	1700	1.510
53314	70	125	44.2	100000	225000	1600	2.010
53315	75	135	48.1	120000	270000	1400	2.610
53316	80	140	47.6	119000	270000	1400	2.720
53317	85	150	53.1	140000	318000	1300	3.520
53318	90	155	54.6	146000	348000	1200	3.740
53320	100	170	69.2	170000	420000	1200	4.880

BEARING NUMBER	NOMINAL DIMENSIONS' [mm]			LOAD RATING(kN)		RPM	Weight
				Dynamic	Static		Kgs
	d	D	B	C	Co		
53408	40	90	38.2	84000	153000	1800	1.080
53409	45	100	42.4	97000	180000	1700	1.430
53410	50	110	45.6	119000	232000	1700	1.900
53411	55	120	50.5	130000	250000	1500	2.520
53412	60	130	54	150000	300000	1300	3.120
53413	65	140	60.2	160000	330000	1200	3.960
53414	70	150	63.6	175000	375000	1200	5.500
53415	75	160	69	188000	420000	1100	6.850
53416	80	170	72.2	200000	465000	1000	8.000
53417	85	180	77	215000	510000	950	9.030
53418	90	190	81.2	230000	560000	900	11.000
53420	100	210	90	278000	720000	800	15.000