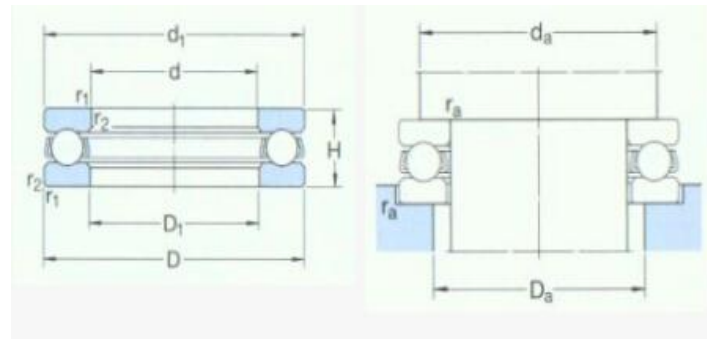


**Features of Thrust Ball Bearing**

1. Single direction thrust ball bearings: consist of two washers with raceways and balls guided by a cage. Washers have flat seating surfaces, and that is why they must be supported so that all balls can be evenly loaded. Bearings carry the axial load only in one direction. They are not able to carry radial forces.
2. Double direction thrust ball bearings: have two cages with balls between the central shaft washer and two housing washers with flat seating surfaces. The shaft washer has raceways on both sides and is fixed on the journal. Bearings are able to carry only axial forces in both directions.

**One way thrust ball bearing-aligning seat rings**



Motion(shanghai)Industrial Development Co.,Ltd

Principal dimensions			Basic load ratings		Pu	Min Loadin g A	Speed ratings		Bearing + Seat rings	Designation		Dimensions											Abutment and fillet dimensions			
(mm)			KN				rpm	Limitin g		Bearing	Housin g	mm											mm			
d	D	H <sub>1</sub>	dyc Cr	stc Cor								Speed Ratings	D <sub>2</sub>	D <sub>3</sub>	H	C	R	s	r <sub>1,2</sub> Min	d <sub>a</sub> Min	Da Max	r <sub>a</sub> Max				
15	32	15	16.5	27	1	0.0038	7000	10000	0.063	53202	U202	15	32	17	24	35	13.3	4	28	12	0.6	25	24	0.6		
17	35	15	17.2	30	1.1	0.0047	6700	9500	0.071	53203	U203	17	35	19	26	38	13.2	4	32	16	0.6	28	26	0.6		
20	40	17	22.5	40.5	1.53	0.0085	6000	8000	0.10	53204	U204	20	40	22	30	42	14.73	5	36	18	0.6	32	30	0.6		
25	47	19	27.6	55	2.04	0.015	5300	7500	0.15	53205	U205	25	47	27	36	50	16.72	5.5	40	19	0.6	38	36	0.6		
30	52	20	25.5	51	1.9	0.013	4800	6700	0.18	53206	U206	30	52	32	42	55	17.8	5.5	45	22	0.6	43	42	0.6		
30	60	25	37.7	71	2.65	0.026	3800	5300	0.33	53306	U306	30	60	32	45	62	22.6	7	50	22	1	48	45	1		
35	62	22	35.1	73.5	2.7	0.028	4000	5600	0.28	53207	U207	35	62	37	48	65	19.87	7	50	24	1	51	48	1		
35	68	28	49.4	96.5	3.55	0.048	3400	4800	0.46	53307	U307	35	68	37	52	72	25.6	7.5	56	24	1	55	52	1		
40	68	23	46.8	106	4	0.058	3800	5300	0.35	53208	U208	40	68	42	55	72	20.3	7	56	28.5	1	57	55	1		
40	78	31	61.8	122	4.5	0.077	3000	4300	0.67	53308	U308	40	78	42	60	82	28.5	8.5	64	28	1	63	60	1		
40	90	42	112	224	8.3	0.26	2400	3400	1.35	53408	U408	40	90	42	65	95	38.2	12	72	26	1.1	70	65	1		
45	73	24	39	86.5	3.2	0.038	3600	5000	0.39	53209	U209	45	73	47	60	78	21.3	7.5	56	26	1	62	60	1		
45	85	33	76.1	153	5.6	0.12	2800	4000	0.83	53309	U309	45	85	47	65	90	30.13	10	64	25	1	69	65	1		
50	78	26	49.4	116	4.3	0.069	3400	4500	0.47	53210	U210	50	78	52	62	82	23.49	7.5	64	32.5	1	67	62	1		

50	95	37	88.4	190	6.95	0.19	2600	3600	1.20	53310	U310	50	95	52	72	100	34.3	11	72	28	1.1	77	72	1
50	110	50	159	340	12.5	0.60	2000	2800	2.31	53410	U410	50	110	52	80	115	45.6	14	90	35	1.5	86	80	1.5
55	90	30	61.8	146	5.4	0.11	2800	4000	0.75	53211	U211	55	90	57	72	95	27.35	9	72	35	1	76	72	1
55	105	42	104	224	8.3	0.26	2200	3200	1.68	53311	U311	55	105	57	80	110	39.3	11.5	80	30	1.1	85	80	1
55	120	55	178	390	14.3	0.79	1800	2400	3.08	53411	U411	55	120	57	88	125	50.5	15.5	90	28	1.5	94	88	1.5
60	95	31	62.4	150	5.6	0.12	2800	3800	0.82	53212	U212	60	95	62	78	100	28.02	9	72	32.5	1	81	78	1
60	110	42	101	224	8.3	0.26	2200	3000	1.71	53312	U312	60	110	62	85	115	38.3	11.5	90	41	1.1	90	85	1
60	130	58	199	430	16	0.96	1600	2200	3.80	53412M	U412	60	130	62	95	135	54	16	100	34	1.5	102	95	1.5
65	100	32	63.7	163	6	0.14	2600	3600	0.91	53213	U213	65	100	67	82	105	28.7	9	80	40	1	86	82	1
65	115	43	106	240	8.8	0.30	2000	3000	1.89	53313	U313	65	115	67	90	120	39.4	12.5	90	38.5	1.1	95	90	1
70	105	32	65	173	6.4	0.16	2600	3600	0.97	53214	U214	70	105	72	88	110	28.8	9	80	38	1	91	88	1
70	125	48	135	320	11.8	0.53	1900	2600	2.50	53314	U314	70	125	72	98	130	44.2	13	100	43	1.1	103	98	1
70	150	69	234	550	19.3	1.6	1400	2000	6.50	53414M	U414	70	150	73	110	155	63.6	19.5	112	34	2	118	110	2
75	135	52	163	390	14	0.79	1700	2400	3.20	53315	U315	75	135	77	105	140	48.1	15	100	37	1.5	111	105	1.5
75	160	75	251	610	20.8	1.9	1300	1800	8.10	53415M	U415	75	160	78	115	165	69	21	125	42	2	126	115	2
80	115	33	76.1	208	7.65	0.22	2400	3400	1.10	53216	U216	80	115	82	98	120	29.5	10	90	46	1	101	98	1
80	140	52	159	390	13.7	0.79	1700	2400	3.30	53316	U316	80	140	82	110	145	47.6	15	112	50	1.5	116	110	1.5
85	125	37	97.5	275	9.8	0.39	2200	3000	1.50	53217	U217	85	125	88	105	130	33.1	11	100	52	1	109	105	1
85	150	58	190	465	16	1.1	1600	2200	4.35	53317	U317	85	150	88	115	155	53.1	17.5	112	43	1.5	124	115	1.5
90	135	42	119	325	11.4	0.55	2000	2800	2.10	53218	U218	90	135	93	110	140	38.5	13.5	100	45	1.1	117	110	1
90	155	59	195	500	16.6	1.3	1500	2200	4.70	53318	U318	90	155	93	120	160	54.6	18	112	40	1.5	129	120	1.5
90	190	88	307	815	25.5	3.5	1100	1500	13.0	53418M	U418	90	187	93	140	195	81.2	25.5	140	40	2.1	133	125	2
100	150	45	124	345	11.4	0.62	1800	2400	2.70	53220	U220	100	150	103	125	155	40.9	14	112	52	1.1	130	125	1
100	170	64	229	610	19.6	1.9	1400	1900	5.95	53320	U320	100	170	103	135	175	59.2	18	125	46	1.5	142	135	1.5
100	210	98	371	1060	31.5	5.8	950	1400	18.0	53420M	U420	100	205	103	155	220	90	27	160	50	3	165	155	2.5
110	160	45	130	390	12.5	0.79	1700	2400	2.91	53222	U222	110	160	113	135	165	40.2	14	125	65	1.1	140	135	1
110	190	72	276	780	24	3.2	1200	1700	9.10	53322M	U322	110	187	113	150	195	67.2	20.5	140	51	2	158	150	2
120	170	46	140	440	13.4	1	1600	2200	3.20	53224	U224	120	170	123	145	175	40.8	15	125	61	1.1	150	145	1
120	210	80	325	980	28.5	5	1100	1500	12.5	53324M	U324	120	205	123	165	220	74.1	22	160	63	2.1	173	165	2
130	190	53	186	585	17	1.8	1400	2000	4.85	53226	U226	130	187	133	160	195	47.9	17	140	67	1.5	166	160	1.5
140	200	55	190	620	17.6	2	1400	1900	5.45	53228	U228	140	197	143	170	210	48.6	17	160	87	1.5	176	170	1.5