

TIMKEN
Where You Turn

Performance At Every Turn
Timken® 6 Series Ball Bearings





Timken. Where You Turn.

All around the world, customers turn to Timken for innovations that move them ahead of the competition. Our innovations surrounding friction management and power transmission are invaluable. And we have played a role in virtually all major technologies that have shaped our age, from automobile travel to artificial hearts. You'll find our products wherever you turn—on land, sea and in space.

When customers turn to us, they are turning to a worldwide team of 25,000 associates. As the world's largest manufacturer of tapered roller bearings and mechanical seamless steel tubing, Timken has facilities in 27 countries. We are also leveraging our knowledge of friction management to offer a broader array of bearings, related products and integrated services. Our customers benefit by having Timken, a trusted name for more than 100 years,

help evaluate entire systems, not just individual components. This approach provides cost-effective solutions, while also helping to achieve specific objectives.

A Brand You Can Trust

Wherever we do business, in every part of the world, we strive to earn and maintain customer trust.

A long list of customer certifications and prestigious quality awards, provide solid evidence that customers turn to Timken for products they can trust.

Base Part Number	Bore	OD	Width	Bearing corner radius	Dynamic Load Rating	Static Load Rating	Reference Speed		Weight
	(d)	(D)	(T)	(r)	(C)	(C ₀)	Grease	Oil	Kg
	mm	mm	mm	mm	kN	kN	rpm	rpm	
6000	10	26	8	0,3	4,58	1,97	28 500	35 000	0,019
6001	12	28	8	0,3	5,10	2,37	25 500	32 000	0,021
6002	15	32	9	0,3	5,59	2,84	22 000	28 000	0,029
6003	17	35	10	0,3	6,00	3,25	20 000	25 000	0,039
6004	20	42	12	0,6	9,38	5,03	16 500	20 000	0,068
6005	25	47	12	0,6	10,07	5,83	14 500	18 000	0,080
6006	30	55	13	1	13,23	8,28	12 000	15 000	0,117
6007	35	62	14	1	15,98	10,28	10 500	13 000	0,154
6008	40	68	15	1	16,77	11,55	9 500	12 000	0,191
6009	45	75	16	1	20,98	15,15	8 500	10 500	0,244
6010	50	80	16	1	21,79	16,58	8 000	10 000	0,266
6011	55	90	18	1,1	28,27	21,25	7 200	9 000	0,386
6012	60	95	18	1,1	29,44	23,16	6 700	8 000	0,414
6013	65	100	18	1,1	30,54	25,15	6 300	7 500	0,442
6014	70	110	20	1,1	38,05	30,87	5 700	6 800	0,631
6015	75	115	20	1,1	39,52	33,47	5 400	6 500	0,651
6016	80	125	22	1,1	47,64	39,68	5 000	6 000	0,876
6017	85	130	22	1,1	49,53	42,98	4 800	5 800	0,934
6018	90	140	24	1,5	58,16	49,60	4 500	5 400	1,138
6019	95	145	24	1,5	60,36	53,87	4 300	5 200	1,189
6020	100	150	24	1,5	60,14	54,18	4 100	4 900	1,288
6021	105	160	26	2	72,30	65,77	3 900	4 700	1,563
6022	110	170	28	2	81,97	72,75	3 700	4 400	1,946
6024	120	180	28	2	84,94	79,23	3 400	4 000	2,111
6200	10	30	9	0,6	5,97	2,63	24 000	30 000	0,032
6201	12	32	10	0,6	6,89	3,09	22 000	28 000	0,037
6202	15	35	11	0,6	7,73	3,76	19 000	24 000	0,046
6203	17	40	12	0,6	9,55	4,76	17 000	21 000	0,066
6204	20	47	14	1	12,79	6,58	14 000	17 000	0,107
6205	25	52	15	1	14,02	7,88	12 000	14 500	0,131
6206	30	62	16	1	19,45	11,26	10 000	12 500	0,200
6207	35	72	17	1,1	25,67	15,30	8 800	11 000	0,290
6208	40	80	18	1,1	29,11	17,90	7 800	9 500	0,352
6209	45	85	19	1,1	32,71	20,46	7 300	8 800	0,418
6210	50	90	20	1,1	35,07	23,18	6 600	8 300	0,459
6211	55	100	21	1,5	43,38	29,22	6 100	7 500	0,616
6212	60	110	22	1,5	52,42	36,17	5 400	6 700	0,816
6213	65	120	23	1,5	57,21	40,00	5 000	6 200	1,018
6214	70	125	24	1,5	62,19	43,99	4 700	5 800	1,096
6215	75	130	25	1,5	67,36	48,18	4 400	5 400	1,191
6216	80	140	26	2	72,67	53,00	4 200	5 200	1,471
6217	85	150	28	2	83,97	61,89	3 900	4 800	1,786
6218	90	160	30	2	95,98	71,45	3 700	4 500	2,245
6219	95	170	32	2,1	108,70	81,70	3 500	4 300	2,689
6220	100	180	34	2,1	122,11	92,88	3 300	4 000	3,243
6222	110	200	38	2,1	144,05	117,25	3 000	3 600	4,336
6224	120	215	40	2,1	155,30	131,13	2 600	3 200	5,156
6300	10	35	11	0,6	8,10	3,44	20 000	25 000	0,054
6301	12	37	12	1	9,71	4,19	18 500	23 000	0,061
6302	15	42	13	1	11,33	5,35	15 500	20 000	0,083
6303	17	47	14	1	13,63	6,62	14 000	17 000	0,112
6304	20	52	15	1,1	15,94	7,88	12 000	15 000	0,144
6305	25	62	17	1,1	23,62	12,13	10 000	12 000	0,227
6306	30	72	19	1,1	28,16	15,82	8 400	10 000	0,352
6307	35	80	21	1,5	33,32	19,15	7 300	9 000	0,458
6308	40	90	23	1,5	40,72	23,94	6 700	8 000	0,630

Base Part Number	Bore	OD	Width	Bearing corner radius	Dynamic Load Rating	Static Load Rating	Reference Speed		Weight
	(d)	(D)	(T)	(r)	(C)	(C ₀)	Grease	Oil	Kg
	mm	mm	mm	mm	kN	kN	rpm	rpm	
6309	45	100	25	1,5	52,77	31,67	5 900	7 100	0,841
6310	50	110	27	2	62,00	38,19	5 300	6 500	1,089
6311	55	120	29	2	71,48	44,58	4 800	6 000	1,375
6312	60	130	31	2,1	81,85	52,04	4 500	5 500	1,720
6313	65	140	33	2,1	92,64	59,67	4 200	5 000	2,128
6314	70	150	35	2,1	104,13	68,04	3 800	4 500	2,554
6315	75	160	37	2,1	113,42	76,96	3 600	4 200	3,076
6316	80	170	39	2,1	122,94	86,50	3 400	4 000	3,537
6317	85	180	41	3	132,67	96,58	3 200	3 800	4,160
6318	90	190	43	3	142,61	107,23	3 000	3 600	4,993
6319	95	200	45	3	152,74	118,42	2 800	3 400	5,653
6320	100	215	47	3	173,17	140,89	2 600	3 200	6,984
6322	110	240	50	3	205,36	179,35	2 300	2 800	9,483
6405	25	80	21	1,5	36,12	19,45	8 500	10 000	0,530
6408	40	110	27	2	63,71	36,58	6 000	7 100	1,230
6409	45	120	29	2	77,21	45,20	5 600	6 700	1,538
6410	50	130	31	2,1	83,05	49,37	5 000	6 000	1,889
16002	15	32	8	0,3	5,59	2,84	22 000	28 000	0,027
16005	25	47	8	0,3	8,86	5,61	14 000	18 000	0,056
16008	40	68	9	0,3	12,62	9,65	9 500	12 000	0,125
16009	45	75	10	0,6	15,54	12,25	8 500	10 500	0,166
16010	50	80	10	0,6	15,99	13,23	8 000	10 000	0,179
16013	65	100	11	0,6	17,15	15,93	6 300	7 500	0,292
16014	70	110	13	0,6	26,79	23,55	5 700	6 800	0,427
16015	75	115	13	0,6	27,50	25,31	5 400	6 500	0,451
62200-2RS	10	30	14	0,6	5,97	2,63	24 000	30 000	0,046
62201-2RS	12	32	14	0,6	6,89	3,09	22 000	28 000	0,051
62202-2RS	15	35	14	0,6	7,73	3,76	19 000	24 000	0,057
62203-2RS	17	40	16	0,6	9,55	4,76	17 000	21 000	0,087
62204-2RS	20	47	18	1	12,79	6,58	14 000	17 000	0,135
62205-2RS	25	52	18	1	14,02	7,88	12 000	14 500	0,154
62206-2RS	30	62	20	1	19,45	11,26	10 000	12 500	0,250
62207-2RS	35	72	23	1,1	25,67	15,30	8 800	11 000	0,382
62208-2RS	40	80	23	1,1	29,11	17,90	7 800	9 500	0,460
62209-2RS	45	85	23	1,1	32,71	20,46	7 300	8 800	0,505
62210-2RS	50	90	23	1,1	35,07	23,18	6 600	8 300	0,530
62301-2RS	12	37	17	1	9,71	4,19	18 500	23 000	0,082
62302-2RS	15	42	17	1	11,33	5,35	15 500	20 000	0,107
62303-2RS	17	47	19	1	13,63	6,62	14 000	17 000	0,150
62304-2RS	20	52	21	1,1	15,94	7,88	12 000	15 000	0,200
62305-2RS	25	62	24	1,1	23,62	12,13	10 000	12 000	0,315
62306-2RS	30	72	27	1,1	28,16	15,82	8 400	10 000	0,492
62307-2RS	35	80	31	1,5	33,32	19,15	7 300	9 000	0,670
62308-2RS	40	90	33	1,5	40,72	23,94	6 700	8 000	0,896
63000-2RS	10	26	12	0,3	4,58	1,97	28 500	35 000	0,027
63001-2RS	12	28	12	0,3	5,10	2,37	25 500	32 000	0,031
63002-2RS	15	32	13	0,3	5,59	2,84	22 000	28 000	0,042
63003-2RS	17	35	14	0,3	6,00	3,25	20 000	25 000	0,054
63004-2RS	20	42	16	0,6	9,38	5,03	16 500	20 000	0,093
63005-2RS	25	47	16	0,6	10,07	5,83	14 500	18 000	0,103
63006-2RS	30	55	19	1	13,23	8,28	12 000	15 000	0,169
63007-2RS	35	62	20	1	15,98	10,28	10 500	13 000	0,217
63008-2RS	40	68	21	1	16,77	11,55	9 500	12 000	0,268

- 1) Options: bearings are also available with seals, shields and alternative radial internal clearance
- 2) NR versions are limited in availability.
- 3) Note: 2RS sealed versions have 40 % reduced speed capacity.

Global Manufacturing and Distribution

Our bearing and steel manufacturing is strongly backed by Timken's technology centers. Each year, we commit more than \$50 million to our global technology organization. Rigorous worldwide quality standards ensure product quality, consistent dimensional accuracy, and component interchangeability, regardless of which Timken facility produces the bearings. Continuous testing at our global network of technology facilities backs our bearing performance predictions.

Our global distribution channels ensure our products reach customers in a timely manner and enable us to respond quickly to customer demands.

Superior Performance to Meet Customer Needs

Our commitment to superior performance begins with the highest quality steel. By leveraging our extensive expertise in steel manufacturing, we ensure that every Timken bearing meets the most stringent material requirements.

While we offer more than 100 ISO part numbers we know that unique customer performance requirements are not always met by standard-size bearings.

Our engineers and other experts readily collaborate with customers to identify custom solutions that may include special materials, geometries or surface finishes. We are also committed to adding new products to satisfy our customers' demands.

Through our experience and manufacturing expertise, Timken bearings deliver maximum performance in customer applications.



For more information about
Timken ball bearings contact your
local Timken representative, or visit
www.timken.com



TIMKEN

Where You Turn

Bearings • Steel •
Precision Components • Lubrication •
Seals • Remanufacture and Repair •
Industrial Services

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