

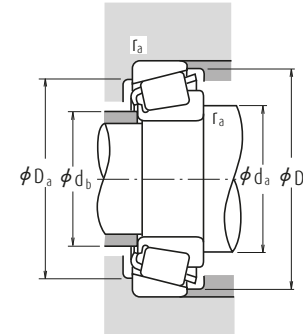
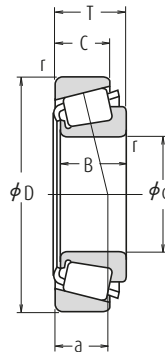


Tapered Roller Bearings (Inch Series)

Single-Row Tapered Roller Bearings (Inch Design)



Bore Diameter 12.000 – 22.225 mm



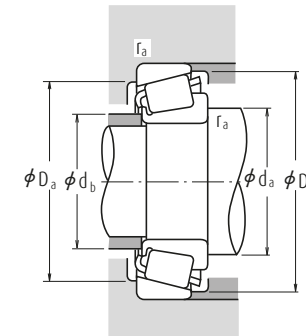
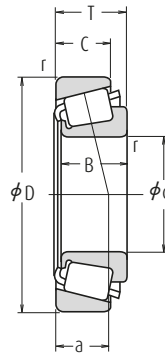
Boundary Dimensions (mm)						Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)		
d	D	T	B	C	Cone	Cup	C _r	C _{0r}	Grease	Oil
					r min.					
12.000	31.991	10.008	10.785	7.938	0.8	1.3	10 300	8 900	13 000	18 000
12.700	34.988	10.998	10.988	8.730	1.3	1.3	11 700	10 900	12 000	16 000
15.000	34.988	10.998	10.988	8.730	0.8	1.3	11 700	10 900	12 000	16 000
15.875	34.988	10.998	10.998	8.712	1.3	1.3	13 800	13 400	11 000	15 000
	39.992	12.014	11.153	9.525	1.3	1.3	14 900	15 700	9 500	13 000
	41.275	14.288	14.681	11.112	1.3	2.0	21 300	19 900	10 000	13 000
	42.862	14.288	14.288	9.525	1.5	1.5	17 300	17 200	8 500	12 000
	42.862	16.670	16.670	13.495	1.5	1.5	26 900	26 300	9 500	13 000
	44.450	15.494	14.381	11.430	1.5	1.5	23 800	23 900	8 500	11 000
	49.225	19.845	21.539	14.288	0.8	1.3	37 500	37 000	8 500	11 000
	47.000	21.000	21.000	16.000	1.0	2.0	35 000	36 500	9 000	12 000
	39.992	12.014	11.153	9.525	0.8	1.3	14 900	15 700	9 500	13 000
17.455	36.525	11.112	11.112	7.938	1.5	1.5	11 600	11 000	10 000	14 000
17.462	39.878	13.843	14.605	10.668	1.3	1.3	22 500	22 500	10 000	13 000
	47.000	14.381	14.381	11.112	0.8	1.3	23 800	23 900	8 500	11 000
19.050	39.992	12.014	11.153	9.525	1.0	1.3	14 900	15 700	9 500	13 000
	45.237	15.494	16.637	12.065	1.3	1.3	28 500	28 900	9 000	12 000
	47.000	14.381	14.381	11.112	1.3	1.3	23 800	23 900	8 500	11 000
	49.225	18.034	19.050	14.288	1.3	1.3	37 500	37 000	8 500	11 000
	49.225	19.845	21.539	14.288	1.2	1.3	37 500	37 000	8 500	11 000
	49.225	21.209	19.050	17.462	1.3	1.5	37 500	37 000	8 500	11 000
	49.225	23.020	21.539	17.462	1.5	3.5	37 500	37 000	8 500	11 000
	53.975	22.225	21.839	15.875	1.5	2.3	40 500	39 500	7 500	10 000
	47.000	14.381	14.381	11.112	1.5	1.3	23 800	23 900	8 500	11 000
	51.994	15.011	14.260	12.700	1.5	1.3	26 000	27 900	7 500	10 000
20.625	49.225	23.020	21.539	17.462	1.5	1.5	37 500	37 000	8 500	11 000
20.638	49.225	19.845	19.845	15.875	1.5	1.5	36 000	37 000	8 000	11 000
21.430	50.005	17.526	18.288	13.970	1.3	1.3	38 500	40 000	8 000	11 000
22.000	45.237	15.494	16.637	12.065	1.3	1.3	29 200	33 500	8 500	11 000
	45.975	15.494	16.637	12.065	1.3	1.3	29 200	33 500	8 500	11 000
22.225	50.005	13.495	14.260	9.525	1.3	1.0	26 000	27 900	7 500	10 000
	50.005	17.526	18.288	13.970	1.3	1.3	38 500	40 000	8 000	11 000
	52.388	19.368	20.168	14.288	1.5	1.5	40 500	43 000	7 500	10 000
	53.975	19.368	20.168	14.288	1.5	1.5	40 500	43 000	7 500	10 000
	56.896	19.368	19.837	15.875	1.3	1.3	38 000	40 500	7 100	9 500
	57.150	22.225	22.225	17.462	0.8	1.5	48 000	50 000	7 100	9 500

Bearing Numbers		Abutment and Fillet Dimensions (mm)						Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	Cone r _a max.	Cup r _a max.	a	e	Y ₁	Y ₀	approx. CONE CUP	
*A 2047	A 2126	16.5	15.5	26	29	0.8	1.3	6.8	0.41	1.5	0.81	0.023	0.017
A 4050	A 4138	18.5	17	29	32	1.3	1.3	8.2	0.45	1.3	0.73	0.033	0.022
*A 4059	A 4138	19.5	19	29	32	0.8	1.3	8.2	0.45	1.3	0.73	0.029	0.022
L 21549	L 21511	21.5	19.5	29	32.5	1.3	1.3	7.7	0.32	1.9	1.0	0.031	0.018
A 6062	A 6157	22	20.5	34	37	1.3	1.3	10.3	0.53	1.1	0.63	0.044	0.031
03062	03162	21.5	20	34	37.5	1.3	2	9.1	0.31	1.9	1.1	0.061	0.035
11590	11520	24.5	22.5	34.5	39.5	1.5	1.5	13.0	0.70	0.85	0.47	0.061	0.040
17580	17520	23	21	36.5	39	1.5	1.5	10.6	0.33	1.8	1.0	0.075	0.048
05062	05175	23.5	21	38	42	1.5	1.5	11.2	0.36	1.7	0.93	0.081	0.039
09062	09195	22	21.5	42	44.5	0.8	1.3	10.7	0.27	2.3	1.2	0.139	0.065
*HM 81649	***HM 81610	27.5	23	37.5	43	1	2	14.9	0.55	1.1	0.60	0.115	0.082
A 6067	A 6157	22	21	34	37	0.8	1.3	10.3	0.53	1.1	0.63	0.042	0.031
A 5069	A 5144	23.5	21.5	30	33.5	1.5	1.5	8.9	0.49	1.2	0.68	0.030	0.020
† LM 11749	† LM 11710	23	21.5	34	37	1.3	1.3	8.7	0.29	2.1	1.2	0.055	0.028
05068	05185	23	22.5	40.5	42.5	0.8	1.3	10.1	0.36	1.7	0.93	0.082	0.047
A 6075	A 6157	24	23	34	37	1	1.3	10.3	0.53	1.1	0.63	0.037	0.031
† LM 11949	† LM 11910	25	23.5	39.5	41.5	1.3	1.3	9.5	0.30	2.0	1.1	0.081	0.044
05075	05185	25	23.5	40.5	42.5	1.3	1.3	10.1	0.36	1.7	0.93	0.077	0.047
09067	09195	25.5	24	42	44.5	1.3	1.3	10.7	0.27	2.3	1.2	0.115	0.065
09078	09195	25.5	24	42	44.5	1.2	1.3	10.7	0.27	2.3	1.2	0.124	0.065
09067	09196	25.5	24	41.5	44.5	1.3	1.5	13.8	0.27	2.3	1.2	0.115	0.085
09074	09194	26	24	39	44.5	1.5	3.5	13.8	0.27	2.3	1.2	0.124	0.082
21075	21212	31.5	26	43	50	1.5	2.3	16.3	0.59	1.0	0.56	0.156	0.097
05079	05185	26.5	24	40.5	42.5	1.5	1.3	10.1	0.36	1.7	0.93	0.073	0.047
07079	07204	27.5	27	45	48	1.5	1.3	12.1	0.40	1.5	0.82	0.105	0.061
09081	09196	27.5	25.5	41.5	44.5	1.5	1.5	13.8	0.27	2.3	1.2	0.115	0.085
12580	12520	28.5	26	42.5	45.5	1.5	1.5	12.9	0.32	1.9	1.0	0.114	0.067
† M 12649	† M 12610	27.5	25.5	44	46	1.3	1.3	10.9	0.28	2.2	1.2	0.115	0.059
*† LM 12749	† LM 12710	27.5	26	39.5	42.5	1.3	1.3	10.0	0.31	2.0	1.1	0.078	0.038
*† LM 12749	† LM 12711	27.5	26	40	42.5	1.3	1.3	10.0	0.31	2.0	1.1	0.078	0.043
07087	07196	28.5	27	44.5	47	1.3	1	10.6	0.40	1.5	0.82	0.097	0.035
† M 12648	† M 12610	28.5	26.5	44	46	1.3	1.3	10.9	0.28	2.2	1.2	0.111	0.059
1380	1328	29.5	27	45	48.5	1.5	1.5	11.3	0.29	2.1	1.1	0.137	0.067
1380	1329	29.5	27	46	49	1.5	1.5	11.3	0.29	2.1	1.1	0.137	0.082
1755	1729	29	27.5	49	51	1.3	1.3	12.2	0.31	2.0	1.1	0.152	0.102
1280	1220	29.5	29	49	52	0.8	1.5	15.1	0.35	1.7	0.95	0.183	0.106

- Notes
- * The maximum bore diameter is listed and its tolerance is negative
 - ** The maximum outside diameter is listed and its tolerance is negative
 - † The tolerances for the bore diameter and overall bearing width differ from the standard
 - *† The tolerance for the bore diameter is 0 to -20 µm, and for overall bearing width is +356 to 0 µm.

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 22.606 – 28.575 mm



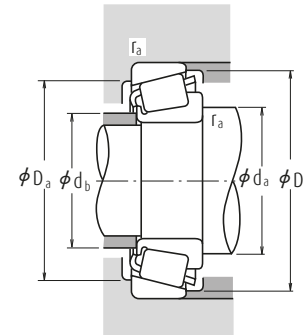
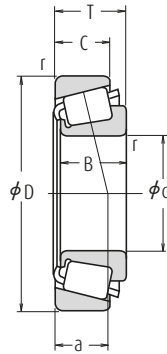
Boundary Dimensions (mm)							Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
					Cone	Cup				
d	D	T	B	C	r min.		C _r	C _{0r}	Grease	Oil
22.606	47.000	15.500	15.500	12.000	1.5	1.0	26 300	30 000	8 000	11 000
23.812	50.292	14.224	14.732	10.668	1.5	1.3	27 600	32 000	7 100	10 000
	56.896	19.368	19.837	15.875	0.8	1.3	38 000	40 500	7 100	9 500
24.000	55.000	25.000	25.000	21.000	2.0	2.0	49 500	55 000	7 100	9 500
24.981	51.994	15.011	14.260	12.700	1.5	1.3	26 000	27 900	7 500	10 000
	52.001	15.011	14.260	12.700	1.5	2.0	26 000	27 900	7 500	10 000
	62.000	16.002	16.566	14.288	1.5	1.5	37 000	39 500	6 300	8 500
	50.005	13.495	14.260	9.525	1.5	1.0	26 000	27 900	7 500	10 000
25.000	51.994	15.011	14.260	12.700	1.5	1.3	26 000	27 900	7 500	10 000
	50.005	13.495	14.260	9.525	3.3	1.0	26 000	27 900	7 500	10 000
25.400	50.005	13.495	14.260	9.525	1.0	1.0	26 000	27 900	7 500	10 000
	50.292	14.224	14.732	10.668	1.3	1.3	27 600	32 000	7 100	10 000
	57.150	17.462	17.462	13.495	1.3	1.5	39 500	45 500	6 700	9 000
	57.150	19.431	19.431	14.732	1.5	1.5	42 500	49 000	6 700	9 000
	59.530	23.368	23.114	18.288	0.8	1.5	50 000	58 000	6 300	9 000
	62.000	19.050	20.638	14.288	0.8	1.3	46 000	53 000	6 000	8 000
	63.500	20.638	20.638	15.875	3.5	1.5	46 000	53 000	6 000	8 000
	64.292	21.433	21.433	16.670	1.5	1.5	51 000	64 500	5 600	8 000
	65.088	22.225	21.463	15.875	1.5	1.5	45 000	47 500	5 600	8 000
	68.262	22.225	22.225	17.462	0.8	1.5	55 000	64 000	5 600	7 500
	72.233	25.400	25.400	19.842	0.8	2.3	63 500	83 500	5 000	7 100
	72.626	24.608	24.257	17.462	2.3	1.5	60 000	58 000	5 600	7 500
26.988	50.292	14.224	14.732	10.668	3.5	1.3	27 600	32 000	7 100	10 000
	57.150	19.845	19.355	15.875	3.3	1.5	40 000	44 500	6 700	9 000
	60.325	19.842	17.462	15.875	3.5	1.5	39 500	45 500	6 700	9 000
	62.000	19.050	20.638	14.288	0.8	1.3	46 000	53 000	6 000	8 000
28.575	57.150	19.845	19.355	15.875	3.5	1.5	40 000	44 500	6 700	9 000
	59.131	15.875	16.764	11.811	spec.	1.3	34 500	41 500	6 300	8 500
	62.000	19.050	20.638	14.288	3.5	1.3	46 000	53 000	6 000	8 000
	62.000	19.050	20.638	14.288	0.8	1.3	46 000	53 000	6 000	8 000
	64.292	21.433	21.433	16.670	1.5	1.5	51 000	64 500	5 600	8 000
	68.262	22.225	22.225	17.462	0.8	1.5	55 000	64 000	5 600	7 500
	72.626	24.608	24.257	17.462	4.8	1.5	60 000	58 000	5 600	7 500
	72.626	24.608	24.257	17.462	1.5	1.5	60 000	58 000	5 600	7 500
	73.025	22.225	22.225	17.462	0.8	3.3	54 500	64 500	5 300	7 100

Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	r _a max.			Y ₁	Y ₀	CONE approx.	CUP approx.
LM 72849	LM 72810	29	27	40.5	44.5	1.5	1	12.2	0.47	1.3	0.086	0.046
† L 44640	† L 44610	30.5	28.5	44.5	47	1.5	1.3	10.9	0.37	1.6	0.097	0.039
1779	1729	29.5	28.5	49	51	0.8	1.3	12.2	0.31	2.0	0.143	0.102
▲ JHM 33449	▲ JHM 33410	35	30	47	52	2	2	15.8	0.35	1.7	0.181	0.107
07098	07204	31	29	45	48	1.5	1.3	12.1	0.40	1.5	0.085	0.061
07098	07205	31	29	44.5	48	1.5	2	12.1	0.40	1.5	0.085	0.061
17098	17244	33	30.5	54	57	1.5	1.5	12.8	0.38	1.6	0.165	0.091
07097	07196	31	29	44.5	47	1.5	1	10.6	0.40	1.5	0.085	0.035
07097	07204	31	29	45	48	1.5	1.3	12.1	0.40	1.5	0.085	0.061
07100 SA	07196	35	29.5	44.5	47	3.3	1	10.6	0.40	1.5	0.082	0.035
07100	07196	30.5	29.5	44.5	47	1	1	10.6	0.40	1.5	0.084	0.035
† L 44643	† L 44610	31.5	29.5	44.5	47	1.3	1.3	10.9	0.37	1.6	0.090	0.039
15578	15520	32.5	30.5	51	53	1.3	1.5	12.4	0.35	1.7	0.151	0.070
M 84548	M 84510	36	33	48.5	54	1.5	1.5	16.1	0.55	1.1	0.156	0.089
M 84249	M 84210	36	32.5	49.5	56	0.8	1.5	18.3	0.55	1.1	0.194	0.13
15101	15245	32.5	31.5	55	58	0.8	1.3	13.3	0.35	1.7	0.222	0.081
15100	15250 X	38	31.5	55	59	3.5	1.5	14.9	0.35	1.7	0.22	0.113
M 86643	M 86610	38	36.5	54	61	1.5	1.5	17.7	0.55	1.1	0.246	0.128
23100	23256	39	34.5	53	61	1.5	1.5	20.0	0.73	0.82	0.214	0.142
02473	02420	34.5	33.5	59	63	0.8	1.5	16.9	0.42	1.4	0.279	0.152
HM 88630	HM 88610	39.5	39.5	60	69	0.8	2.3	20.7	0.55	1.1	0.398	0.188
41100	41286	41	36.5	61	68	2.3	1.5	20.7	0.60	1.0	0.55	0.32
† L 44649	† L 44610	37.5	31	44.5	47	3.5	1.3	10.9	0.37	1.6	0.088	0.039
1997 X	1922	37.5	31.5	51	53.5	3.3	1.5	13.9	0.33	1.8	1.0	0.152
15580	15523	38.5	32	51	54	3.5	1.5	14.7	0.35	1.7	0.95	0.123
15106	15245	33.5	33	55	58	0.8	1.3	13.3	0.35	1.7	0.94	0.211
1988	1922	39.5	33.5	51	53.5	3.5	1.5	13.9	0.33	1.8	1.0	0.141
† LM 67043	† LM 67010	40	33.5	52	56	3.5	1.3	12.6	0.41	1.5	0.80	0.147
15112	15245	40	34	55	58	3.5	1.3	13.3	0.35	1.7	0.94	0.199
15113	15245	34.5	34	55	58	0.8	1.3	13.3	0.35	1.7	0.94	0.20
M 86647	M 86610	40	38	54	61	1.5	1.5	17.7	0.55	1.1	0.60	0.223
02474	02420	36.5	36	59	63	0.8	1.5	16.9	0.42	1.4	0.79	0.257
41125	41286	48	36.5	61	68	4.8	1.5	20.7	0.60	1.0	0.55	0.292
41126	41286	41.5	36.5	61	68	1.5	1.5	20.7	0.60	1.0	0.55	0.295
02872	02820	37.5	37	62	68	0.8	3.3	18.3	0.45	1.3	0.73	0.321

Notes † The tolerances for the bore diameter and overall bearing width differ from the standard
▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 29.000 – 32.000 mm



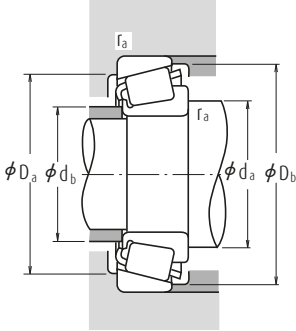
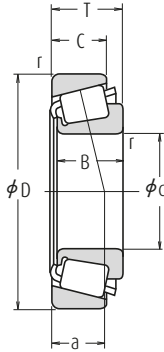
Boundary Dimensions (mm)							Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
					Cone	Cup				
d	D	T	B	C	r min.		C _r	C _{0r}	Grease	Oil
29.000	50.292	14.224	14.732	10.668	3.5	1.3	26 800	34 000	7 100	9 500
29.367	66.421	23.812	25.433	19.050	3.5	1.3	65 000	73 000	6 000	8 000
30.000	62.000	16.002	16.566	14.288	1.5	1.5	37 000	39 500	6 300	8 500
	62.000	19.050	20.638	14.288	1.3	1.3	46 000	53 000	6 000	8 000
	63.500	20.638	20.638	15.875	1.3	1.3	46 000	53 000	6 000	8 000
	72.000	19.000	18.923	15.875	1.5	1.5	52 000	56 000	5 600	7 500
30.112	62.000	19.050	20.638	14.288	0.8	1.3	46 000	53 000	6 000	8 000
30.162	58.738	14.684	15.080	10.716	3.5	1.0	28 800	33 500	6 000	8 000
	64.292	21.433	21.433	16.670	1.5	1.5	51 000	64 500	5 600	8 000
	68.262	22.225	22.225	17.462	2.3	1.5	55 500	70 500	5 300	7 500
	69.850	23.812	25.357	19.050	2.3	1.3	71 000	84 000	5 600	7 500
	69.850	23.812	25.357	19.050	0.8	1.3	71 000	84 000	5 600	7 500
	76.200	24.608	24.074	16.670	1.5	C3.3	67 500	69 500	5 000	6 700
30.213	62.000	19.050	20.638	14.288	3.5	1.3	46 000	53 000	6 000	8 000
	62.000	19.050	20.638	14.288	0.8	1.3	46 000	53 000	6 000	8 000
	62.000	19.050	20.638	14.288	1.5	1.3	46 000	53 000	6 000	8 000
30.955	64.292	21.433	21.433	16.670	1.5	1.5	51 000	64 500	5 600	8 000
31.750	58.738	14.684	15.080	10.716	1.0	1.0	28 800	33 500	6 000	8 000
	59.131	15.875	16.764	11.811	spec.	1.3	34 500	41 500	6 300	8 500
	62.000	18.161	19.050	14.288	spec.	1.3	46 000	53 000	6 000	8 000
	62.000	19.050	20.638	14.288	0.8	1.3	46 000	53 000	6 000	8 000
	62.000	19.050	20.638	14.288	3.5	1.3	46 000	53 000	6 000	8 000
	63.500	20.638	20.638	15.875	0.8	1.3	46 000	53 000	6 000	8 000
	68.262	22.225	22.225	17.462	3.5	1.5	55 000	64 000	5 600	7 500
	68.262	22.225	22.225	17.462	1.5	1.5	55 500	70 500	5 300	7 500
	69.012	19.845	19.583	15.875	3.5	1.3	47 000	56 000	5 600	7 500
	69.012	26.982	26.721	15.875	4.3	3.3	47 000	56 000	5 600	7 500
	69.850	23.812	25.357	19.050	0.8	1.3	71 000	84 000	5 600	7 500
	69.850	23.812	25.357	19.050	3.5	1.3	71 000	84 000	5 600	7 500
	72.626	30.162	29.997	23.812	0.8	3.3	79 500	90 000	5 300	7 500
	73.025	29.370	27.783	23.020	1.3	3.3	74 000	100 000	5 000	7 100
	80.000	21.000	22.403	17.826	0.8	1.3	68 500	75 500	4 500	6 300
32.000	72.233	25.400	25.400	19.842	3.3	2.3	63 500	83 500	5 000	7 100

Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	Cone r _a max.			Y ₁	Y ₀	approx. CONE	CUP
† L 45449	† L 45410	39.5	33	44.5	48	3.5	1.3	10.8	0.37	1.6	0.079	0.036
2690	2631	41	35	58	60	3.5	1.3	14.3	0.25	2.4	0.242	0.165
* 17118	17244	37	34.5	54	57	1.5	1.5	12.8	0.38	1.6	0.136	0.091
* 15117	15245	36.5	35	55	58	1.3	1.3	13.3	0.35	1.7	0.189	0.081
* 15117	15250	36.5	35	56	59	1.3	1.3	14.9	0.35	1.7	0.189	0.113
* 26118	26283	38	36	62	65	1.5	1.5	14.8	0.36	1.7	0.225	0.163
15116	15245	36	35.5	55	58	0.8	1.3	13.3	0.35	1.7	0.189	0.081
08118	08231	41.5	35	52	55	3.5	1	13.3	0.47	1.3	0.12	0.057
M 86649	M 86610	41	38	54	61	1.5	1.5	17.7	0.55	1.1	0.211	0.128
M 88043	M 88010	43.5	39.5	58	65	2.3	1.5	19.1	0.55	1.1	0.263	0.146
2558	2523	40	36.5	61	64	2.3	1.3	14.5	0.27	2.2	0.297	0.169
2559	2523	37	36.5	61	64	0.8	1.3	14.5	0.27	2.2	0.298	0.169
43118	43300	45	42	64	73	1.5	3.3	22.9	0.67	0.90	0.383	0.146
15118	15245	41.5	35.5	55	58	3.5	1.3	13.3	0.35	1.7	0.186	0.081
15120	15245	36	35.5	55	58	0.8	1.3	13.3	0.35	1.7	0.188	0.081
15119	15245	37.5	35.5	55	58	1.5	1.3	13.3	0.35	1.7	0.188	0.081
M 86648 A	M 86610	42	38	54	61	1.5	1.5	17.7	0.55	1.1	0.205	0.128
08125	08231	37.5	36	52	55	1	1	13.3	0.47	1.3	0.113	0.057
† LM 67048	† LM 67010	42.5	36	52	56	3.5	1.3	12.6	0.41	1.5	0.127	0.062
15123	15245	42.5	36.5	55	58	3.5	1.3	13.3	0.35	1.7	0.194	0.081
15126	15245	37	36.5	55	58	0.8	1.3	13.3	0.35	1.7	0.176	0.081
15125	15245	42.5	36.5	55	58	3.5	1.3	13.3	0.35	1.7	0.174	0.081
15126	15250	37	36.5	56	59	0.8	1.3	14.9	0.35	1.7	0.176	0.113
02475	02420	44.5	38.5	59	63	3.5	1.5	16.9	0.42	1.4	0.229	0.152
M 88046	M 88010	43	40.5	58	65	1.5	1.5	19.1	0.55	1.1	0.263	0.146
14125 A	14276	44	37.5	60	63	3.5	1.3	15.3	0.38	1.6	0.219	0.135
14123 A	14274	41.5	37.5	59	63	4.3	3.3	15.1	0.38	1.6	0.289	0.132
2580	2523	38.5	37.5	61	64	0.8	1.3	14.5	0.27	2.2	0.282	0.169
2582	2523	44	37.5	61	64	3.5	1.3	14.5	0.27	2.2	0.28	0.169
3188	3120	39.5	39.5	61	67	0.8	3.3	19.6	0.33	1.8	0.368	0.225
HM 88542	HM 88510	45.5	42.5	59	70	1.3	3.3	23.5	0.55	1.1	0.379	0.242
346	332	40	39.5	73	75	0.8	1.3	14.6	0.27	2.2	0.419	0.146
*HM 88638	HM 88610	48.5	42.5	60	69	3.3	2.3	20.7	0.55	1.1	0.60	0.188

Notes * The maximum bore diameter is listed and its tolerance is negative
† The tolerances for the bore diameter and overall bearing width differ from the standard

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 33.338 – 35.000 mm



Boundary Dimensions (mm)								Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
						Cone	Cup				
d	D	T	B	C	r min.			C _r	C _{or}	Grease	Oil
33.338	66.675	20.638	20.638	15.875	3.5	1.5		46 000	53 500	5 600	7 500
	68.262	22.225	22.225	17.462	0.8	1.5		55 500	70 500	5 300	7 500
	69.012	19.845	19.583	15.875	3.5	3.3		47 000	56 000	5 600	7 500
	69.012	19.845	19.583	15.875	0.8	1.3		47 000	56 000	5 600	7 500
	69.850	23.812	25.357	19.050	3.5	1.3		71 000	84 000	5 600	7 500
	72.000	19.000	18.923	15.875	3.5	1.5		52 000	56 000	5 600	7 500
	72.626	30.162	29.997	23.812	0.8	3.3		79 500	90 000	5 300	7 500
	73.025	29.370	27.783	23.020	0.8	3.3		74 000	100 000	5 000	7 100
	76.200	29.370	28.575	23.020	3.8	0.8		78 500	106 000	4 800	6 700
	76.200	29.370	28.575	23.020	0.8	3.3		78 500	106 000	4 800	6 700
34.925	79.375	25.400	24.074	17.462	3.5	1.5		67 500	69 500	5 000	6 700
	65.088	18.034	18.288	13.970	spec.	1.3		47 500	57 500	5 600	7 500
	65.088	20.320	18.288	16.256	spec.	1.3		47 500	57 500	5 600	7 500
	66.675	20.638	20.638	16.670	3.5	2.3		53 000	62 500	5 600	7 500
	69.012	19.845	19.583	15.875	3.5	1.3		47 000	56 000	5 600	7 500
	69.012	19.845	19.583	15.875	1.5	1.3		47 000	56 000	5 600	7 500
	72.233	25.400	25.400	19.842	2.3	2.3		63 500	83 500	5 000	7 100
	73.025	22.225	22.225	17.462	0.8	3.3		54 500	64 500	5 300	7 100
	73.025	22.225	23.812	17.462	3.5	3.3		63 500	77 000	5 300	7 100
	73.025	23.812	24.608	19.050	1.5	0.8		71 000	86 000	5 300	7 100
34.976	73.025	23.812	24.608	19.050	3.5	2.3		71 000	86 000	5 300	7 100
	76.200	29.370	28.575	23.020	0.8	0.8		78 500	106 000	4 800	6 700
	76.200	29.370	28.575	23.020	3.5	0.8		78 500	106 000	4 800	6 700
	76.200	29.370	28.575	23.020	3.5	3.3		78 500	106 000	4 800	6 700
	76.200	29.370	28.575	23.812	1.5	3.3		80 500	96 500	5 000	6 700
	79.375	29.370	29.771	23.812	3.5	3.3		88 000	106 000	4 800	6 700
	68.262	15.875	16.520	11.908	1.5	1.5		45 000	53 500	5 300	7 100
	72.085	22.385	19.583	18.415	1.3	2.3		47 000	56 000	5 600	7 500
	80.000	21.006	20.940	15.875	1.5	1.5		56 500	64 500	5 000	6 700
	35.000	59.131	15.875	16.764	11.938	spec.	1.3		35 000	47 000	6 000
59.975		15.875	16.764	11.938	spec.	1.3		35 000	47 000	6 000	8 000
62.000		16.700	17.000	13.600	spec.	1.0		38 000	50 000	5 600	8 000
62.000		16.700	17.000	13.600	spec.	1.5		38 000	50 000	5 600	8 000
65.987		20.638	20.638	16.670	3.5	2.3		53 000	62 500	5 600	7 500
73.025		26.988	26.975	22.225	3.5	0.8		75 500	88 500	5 300	7 500

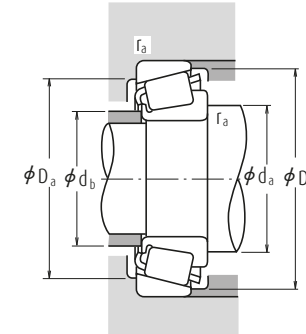
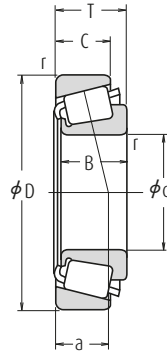
Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	Cone r _a max.			Y ₁	Y ₀	approx. CONE	CUP
1680	1620	44.5	38.5	58	61	3.5	15.2	0.37	1.6	0.89	0.196	0.121
M 88048	M 88010	42.5	41	58	65	0.8	19.0	0.55	1.1	0.60	0.236	0.146
14130	14274	45	38.5	59	63	3.5	15.3	0.38	1.6	0.86	0.207	0.132
14131	14276	39.5	38.5	60	63	0.8	15.3	0.38	1.6	0.86	0.209	0.135
2585	2523	45	39	61	64	3.5	14.5	0.27	2.2	1.2	0.263	0.169
26131	26283	44.5	38.5	62	65	3.5	14.7	0.36	1.7	0.92	0.20	0.163
3197	3120	41.5	40.5	61	67	0.8	19.6	0.33	1.8	0.99	0.348	0.225
HM 88547	HM 88510	45.5	42.5	59	70	0.8	23.5	0.55	1.1	0.60	0.362	0.242
HM 89444	HM 89411	53	44.5	65	73	3.8	23.6	0.55	1.1	0.60	0.419	0.261
HM 89443	HM 89410	46.5	44.5	62	73	0.8	23.6	0.55	1.1	0.60	0.421	0.257
43131	43312	51	42	67	74	3.5	23.7	0.67	0.90	0.49	0.348	0.22
† LM 48548	† LM 48510	46	40	58	61	3.5	14.1	0.38	1.6	0.88	0.172	0.108
† LM 48548	† LM 48511	46	40	58	61	3.5	16.4	0.38	1.6	0.88	0.172	0.108
M 38549	M 38510	46.5	40	58	62	3.5	15.2	0.35	1.7	0.94	0.194	0.112
14138 A	14276	46	40	60	63	3.5	15.3	0.38	1.6	0.86	0.194	0.135
14137 A	14276	42	40	60	63	1.5	15.1	0.38	1.6	0.86	0.196	0.135
HM 88649	HM 88610	48.5	42.5	60	69	2.3	20.7	0.55	1.1	0.60	0.307	0.188
02878	02820	42.5	42	62	68	0.8	18.3	0.45	1.3	0.73	0.266	0.16
2877	2820	47	41.5	63	68	3.5	16.1	0.37	1.6	0.90	0.291	0.15
25877	25821	43	40.5	65	68	1.5	15.7	0.29	2.1	1.1	0.306	0.167
25878	25820	47	40.5	64	68	3.5	15.7	0.29	2.1	1.1	0.304	0.165
HM 89446 A	HM 89411	47.5	44.5	65	73	0.8	23.6	0.55	1.1	0.60	0.403	0.261
HM 89446	HM 89411	53	44.5	65	73	3.5	23.6	0.55	1.1	0.60	0.40	0.261
HM 89446	HM 89410	53	44.5	62	73	3.5	23.6	0.55	1.1	0.60	0.40	0.257
31594	31520	46	43.5	64	72	1.5	21.6	0.40	1.5	0.82	0.404	0.235
3478	3420	50	43.5	67	74	3.5	20.0	0.37	1.6	0.90	0.448	0.259
19138	19268	42.5	40.5	61	65	1.5	14.5	0.44	1.4	0.74	0.196	0.073
14139	14283	41.5	40	60	65	1.3	17.7	0.38	1.6	0.87	0.198	0.21
28138	28315	43.5	41	69	73	1.5	16.0	0.40	1.5	0.82	0.308	0.199
*† L 68149	† L 68110	45.5	39	52	56	3.5	13.2	0.42	1.4	0.79	0.117	0.056
*† L 68149	† L 68111	45.5	39	53	56	3.5	13.2	0.42	1.4	0.79	0.117	0.064
* LM 78349	** LM 78310	46	40	55	59	3.5	14.4	0.44	1.4	0.74	0.137	0.074
* LM 78349	** LM 78310 A	46	40	54	59	3.5	14.4	0.44	1.4	0.74	0.138	0.073
M 38547	M 38511	46	39.5	59	61	3.5	15.2	0.35	1.7	0.94	0.193	0.103
23691	23621	49	42	63	68	3.5	18.1	0.37	1.6	0.89	0.309	0.212

Notes

- * The maximum bore diameter is listed and its tolerance is negative
- ** The maximum outside diameter is listed and its tolerance is negative
- † The tolerances for the bore diameter and overall bearing width differ from the standard
- *† The tolerance for the bore diameter is 0 to -20 µm, and for overall bearing width is +356 to 0 µm.

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 35.717 – 41.275 mm



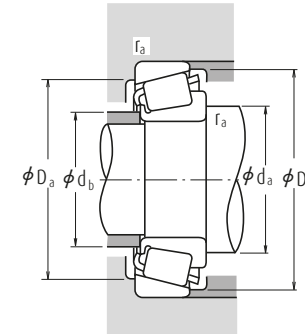
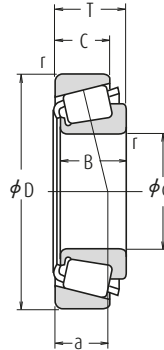
Boundary Dimensions (mm)							Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
					Cone	Cup				
d	D	T	B	C	r min.		C _r	C _{0r}	Grease	Oil
35.717	72.233	25.400	25.400	19.842	3.5	2.3	63 500	83 500	5 000	7 100
36.487	73.025	23.812	24.608	19.050	1.5	0.8	71 000	86 000	5 300	7 100
36.512	76.200	29.370	28.575	23.020	3.5	3.3	78 500	106 000	4 800	6 700
	79.375	29.370	29.771	23.812	0.8	3.3	88 000	106 000	4 800	6 700
	88.501	25.400	23.698	17.462	2.3	1.5	73 000	81 000	4 000	5 600
	93.662	31.750	31.750	26.195	1.5	3.3	110 000	142 000	4 000	5 600
38.000	63.000	17.000	17.000	13.500	spec.	1.3	38 500	52 000	5 600	7 500
38.100	63.500	12.700	11.908	9.525	1.5	0.8	24 100	30 500	5 300	7 100
	65.088	18.034	18.288	13.970	2.3	1.3	42 500	55 000	5 300	7 500
	65.088	18.034	18.288	13.970	spec.	1.3	42 500	55 000	5 300	7 500
	65.088	19.812	18.288	15.748	2.3	1.3	42 500	55 000	5 300	7 500
	68.262	15.875	16.520	11.908	1.5	1.5	45 000	53 500	5 300	7 100
	69.012	19.050	19.050	15.083	2.0	2.3	49 000	61 000	5 300	7 100
	69.012	19.050	19.050	15.083	3.5	0.8	49 000	61 000	5 300	7 100
	72.238	20.638	20.638	15.875	3.5	1.3	48 500	59 500	5 300	7 100
	73.025	23.812	25.654	19.050	3.5	0.8	73 500	91 000	5 000	6 700
	76.200	23.812	25.654	19.050	3.5	3.3	73 500	91 000	5 000	6 700
	76.200	23.812	25.654	19.050	3.5	0.8	73 500	91 000	5 000	6 700
	79.375	29.370	29.771	23.812	3.5	3.3	88 000	106 000	4 800	6 700
	80.035	24.608	23.698	18.512	0.8	1.5	69 000	84 500	4 500	6 300
	82.550	29.370	28.575	23.020	0.8	3.3	87 000	117 000	4 500	6 000
	88.501	25.400	23.698	17.462	2.3	1.5	73 000	81 000	4 000	5 600
	88.501	26.988	29.083	22.225	3.5	1.5	96 500	109 000	4 500	6 000
	95.250	30.958	28.301	20.638	1.5	0.8	87 500	97 000	3 600	5 300
39.688	73.025	25.654	22.098	21.336	0.8	2.3	62 500	80 000	5 000	6 700
	76.200	23.812	25.654	19.050	3.5	3.3	73 500	91 000	5 000	6 700
	80.167	29.370	30.391	23.812	0.8	3.3	92 500	108 000	4 800	6 300
40.000	80.000	21.000	22.403	17.826	3.5	1.3	68 500	75 500	4 500	6 300
	80.000	21.000	22.403	17.826	0.8	1.3	68 500	75 500	4 500	6 300
	88.501	25.400	23.698	17.462	2.3	1.5	73 000	81 000	4 000	5 600
41.000	68.000	17.500	18.000	13.500	spec.	1.5	43 500	58 000	5 300	7 100
41.275	73.025	16.667	17.462	12.700	3.5	1.5	44 500	54 000	4 800	6 700
	73.431	19.558	19.812	14.732	3.5	0.8	54 500	67 000	4 800	6 700
	73.431	21.430	19.812	16.604	3.5	0.8	54 500	67 000	4 800	6 700

Bearing Numbers		Abutment and Fillet Dimensions (mm)						Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
		Cone		Cup									
CONE	CUP	d _a	d _b	D _a	D _b	r _a max.		a	e	Y ₁	Y ₀	CONE	CUP
HM 88648	HM 88610	52	43	60	69	3.5	2.3	20.7	0.55	1.1	0.60	0.298	0.188
25880	25821	44	42	65	68	1.5	0.8	15.7	0.29	2.1	1.1	0.291	0.167
HM 89449	HM 89410	54	44.5	62	73	3.5	3.3	23.6	0.55	1.1	0.60	0.38	0.257
3479	3420	45.5	44.5	67	74	0.8	3.3	20.0	0.37	1.6	0.90	0.429	0.259
44143	44348	54	50	75	84	2.3	1.5	27.9	0.78	0.77	0.42	0.502	0.245
46143	46368	48.5	46.5	79	87	1.5	3.3	24.0	0.40	1.5	0.82	0.765	0.405
▲ JL 69349	▲ JL 69310	49	42.5	56	60	3.5	1.3	14.6	0.42	1.4	0.79	0.132	0.071
13889	13830	45	42.5	59	60	1.5	0.8	11.9	0.35	1.7	0.95	0.109	0.046
LM 29749	LM 29710	46	42.5	59	62	2.3	1.3	13.7	0.33	1.8	0.99	0.16	0.079
LM 29748	LM 29710	49	42.5	59	62	3.5	1.3	13.7	0.33	1.8	0.99	0.158	0.079
LM 29749	LM 29711	46	42.5	58	62	2.3	1.3	15.5	0.33	1.8	0.99	0.16	0.094
19150	19268	45	43	61	65	1.5	1.5	14.5	0.44	1.4	0.74	0.173	0.073
13687	13621	46.5	43	61	65	2	2.3	15.8	0.40	1.5	0.82	0.193	0.104
13685	13620	49.5	43	62	65	3.5	0.8	15.8	0.40	1.5	0.82	0.191	0.105
16150	16284	49.5	43	63	67	3.5	1.3	16.0	0.40	1.5	0.82	0.212	0.146
2788	2735 X	50	43.5	66	69	3.5	0.8	15.9	0.30	2.0	1.1	0.312	0.135
2788	2720	50	43.5	66	70	3.5	3.3	15.9	0.30	2.0	1.1	0.312	0.187
2788	2729	50	43.5	68	70	3.5	0.8	15.9	0.30	2.0	1.1	0.312	0.191
3490	3420	52	45.5	67	74	3.5	3.3	20.0	0.37	1.6	0.90	0.404	0.259
27880	27820	48	47	68	75	0.8	1.5	21.5	0.56	1.1	0.59	0.362	0.209
HM 801346	HM 801310	51	49	68	78	0.8	3.3	24.2	0.55	1.1	0.60	0.483	0.282
44150	44348	55	51	75	84	2.3	1.5	27.9	0.78	0.77	0.42	0.484	0.245
418	414	51	44.5	77	80	3.5	1.5	17.1	0.26	2.3	1.3	0.50	0.329
53150	53375	55	53	81	89	1.5	0.8	30.7	0.74	0.81	0.45	0.665	0.365
M 201047	M 201011	45.5	48	64	69	0.8	2.3	19.7	0.33	1.8	0.99	0.266	0.169
2789	2720	52	45	66	70	3.5	3.3	15.9	0.30	2.0	1.1	0.292	0.187
3386	3320	46.5	45.5	70	75	0.8	3.3	18.4	0.27	2.2	1.2	0.442	0.217
344	332	52	45.5	73	75	3.5	1.3	14.5	0.27	2.2	1.2	0.338	0.146
344 A	332	46	45.5	73	75	0.8	1.3	14.5	0.27	2.2	1.2	0.339	0.146
44157	44348	56	51	75	84	2.3	1.5	27.9	0.78	0.77	0.42	0.463	0.245
* LM 300849	** LM 300811	52	45	61	65	3.5	1.5	13.9	0.35	1.7	0.95	0.16	0.082
18590	18520	53	46	66	69	3.5	1.5	14.0	0.35	1.7	0.94	0.199	0.086
LM 501349	LM 501310	53	46.5	67	70	3.5	0.8	16.3	0.40	1.5	0.83	0.226	0.108
LM 501349	LM 501314	53	46.5	66	70	3.5	0.8	18.2	0.40	1.5	0.83	0.226	0.129

- Notes**
- * The maximum bore diameter is listed and its tolerance is negative
 - ** The maximum outside diameter is listed and its tolerance is negative
 - ▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 41.275 – 44.450 mm



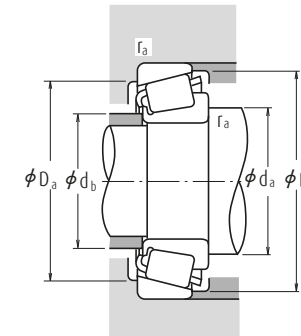
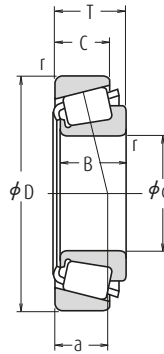
Boundary Dimensions (mm)						Basic Load Ratings (N)			Limiting Speeds (min ⁻¹)		
					Cone	Cup					
d	D	T	B	C	r min.		C _r	C _{0r}	Grease	Oil	
41.275	76.200	18.009	17.384	14.288	1.5	1.5	42 500	51 000	4 500	6 300	
	76.200	22.225	23.020	17.462	3.5	0.8	66 000	82 000	4 800	6 700	
	76.200	25.400	23.020	20.638	3.5	2.3	66 000	82 000	4 800	6 700	
	79.375	23.812	25.400	19.050	3.5	0.8	77 000	98 500	4 800	6 300	
	80.000	21.000	22.403	17.826	0.8	1.3	68 500	75 500	4 500	6 300	
	80.000	21.000	22.403	17.826	3.5	1.3	68 500	75 500	4 500	6 300	
	80.167	25.400	25.400	20.638	3.5	3.3	77 000	98 500	4 800	6 300	
	82.550	26.543	25.654	20.193	3.5	3.3	78 500	102 000	4 300	6 000	
	85.725	30.162	30.162	23.812	3.5	3.3	91 000	115 000	4 300	6 000	
	87.312	30.162	30.886	23.812	0.8	3.3	96 000	120 000	4 300	6 000	
	88.501	25.400	23.698	17.462	2.3	1.5	73 000	81 000	4 000	5 600	
	88.900	30.162	29.370	23.020	3.5	3.3	96 500	129 000	4 000	5 600	
	88.900	30.162	29.370	23.020	0.8	3.3	96 500	129 000	4 000	5 600	
	90.488	39.688	40.386	33.338	3.5	3.3	139 000	180 000	4 300	5 600	
	93.662	31.750	31.750	26.195	0.8	3.3	110 000	142 000	4 000	5 600	
42.862	95.250	30.162	29.370	23.020	3.5	3.3	106 000	143 000	3 800	5 300	
	98.425	30.958	28.301	20.638	1.5	0.8	87 500	97 000	3 600	5 300	
	76.992	17.462	17.145	11.908	1.5	1.5	44 000	54 000	4 500	6 000	
	82.550	19.842	19.837	15.080	2.3	1.5	58 500	69 000	4 500	6 300	
	82.931	23.812	25.400	19.050	2.3	0.8	76 500	99 000	4 500	6 000	
	82.931	26.988	25.400	22.225	2.3	2.3	76 500	99 000	4 500	6 000	
	42.875	76.200	25.400	25.400	20.638	3.5	1.5	77 000	98 500	4 800	6 300
		80.000	21.000	22.403	17.826	3.5	1.3	68 500	75 500	4 500	6 300
		82.931	26.988	25.400	22.225	3.5	2.3	76 500	99 000	4 500	6 000
		83.058	23.812	25.400	19.050	3.5	3.3	76 500	99 000	4 500	6 000
	43.000	74.988	19.368	19.837	14.288	1.5	1.3	52 500	68 000	4 800	6 300
		44.450	80.962	19.050	17.462	14.288	0.3	1.5	45 000	57 000	4 300
	82.931		23.812	25.400	19.050	3.5	0.8	76 500	99 000	4 500	6 000
	83.058		23.812	25.400	19.050	3.5	3.3	76 500	99 000	4 500	6 000
	87.312		30.162	30.886	23.812	3.5	3.3	96 000	120 000	4 300	6 000
88.900	30.162		29.370	23.020	3.5	3.3	96 500	129 000	4 000	5 600	
93.264	30.162		30.302	23.812	3.5	3.2	103 000	136 000	3 800	5 300	
93.662	31.750		31.750	25.400	0.8	3.3	120 000	147 000	4 000	5 600	
93.662	31.750		31.750	25.400	3.5	3.3	120 000	147 000	4 000	5 600	
93.662	31.750		31.750	26.195	3.5	3.3	110 000	142 000	4 000	5 600	
95.250	27.783		29.901	22.225	3.5	2.3	106 000	126 000	4 300	5 600	

Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	Cone Cup r _a max.			Y ₁	Y ₀	CONE approx.	CUP
11162	11300	49	46.5	67	71	1.5	1.5	17.4	0.49	1.2	0.212	0.129
24780	24720	53	47.5	68	72	3.5	0.8	17.0	0.39	1.5	0.279	0.15
24780	24721	54	47	66	72	3.5	2.3	20.2	0.39	1.5	0.279	0.189
26882	26822	54	47	71	74	3.5	0.8	16.4	0.32	1.9	0.349	0.186
336	332	47	46	73	75	0.8	1.3	14.5	0.27	2.2	0.325	0.146
342	332	53	46	73	75	3.5	1.3	14.5	0.27	2.2	0.323	0.146
26882	26820	54	47	69	74	3.5	3.3	18.0	0.32	1.9	0.349	0.219
M 802048	M 802011	57	51	70	79	3.5	3.3	22.9	0.55	1.1	0.406	0.23
3877	3820	57	50	73	81	3.5	3.3	21.8	0.40	1.5	0.506	0.285
3576	3525	49	48	75	81	0.8	3.3	19.5	0.31	2.0	0.532	0.304
44162	44348	57	51	75	84	2.3	1.5	28.0	0.78	0.77	0.447	0.245
HM 803146	HM 803110	60	53	74	85	3.5	3.3	25.6	0.55	1.1	0.579	0.322
HM 803145	HM 803110	54	53	74	85	0.8	3.3	25.6	0.55	1.1	0.582	0.322
4388	4335	57	51	77	85	3.5	3.3	24.6	0.28	2.1	0.789	0.459
46162	46368	52	51	79	87	0.8	3.3	24.0	0.40	1.5	0.695	0.405
HM 804840	HM 804810	61	54	81	91	3.5	3.3	26.1	0.55	1.1	0.726	0.354
53162	53387	57	53	82	91	1.5	0.8	30.7	0.74	0.81	0.618	0.442
12168	12303	51	48.5	68	73	1.5	1.5	17.7	0.51	1.2	0.228	0.098
22168	22325	52	48.5	73	76	2.3	1.5	17.6	0.43	1.4	0.277	0.176
25578	25520	53	49.5	74	77	2.3	0.8	17.6	0.33	1.8	0.383	0.203
25578	25523	53	49.5	72	77	2.3	2.3	20.8	0.33	1.8	0.383	0.248
26884	26823	55	48.5	69	73	3.5	1.5	18.0	0.32	1.9	0.337	0.136
342 S	332	54	47.5	73	75	3.5	1.3	14.5	0.27	2.2	0.305	0.146
25577	25523	55	49	72	77	3.5	2.3	20.8	0.33	1.8	0.381	0.248
25577	25521	55	49	72	77	3.5	3.3	17.6	0.33	1.8	0.381	0.201
* 16986	16929	51	48.5	67	71	1.5	1.3	17.2	0.44	1.4	0.24	0.106
13175	13318	50	50	72	76	0.3	1.5	20.1	0.53	1.1	0.63	0.252
25580	25520	57	50	74	77	3.5	0.8	17.6	0.33	1.8	0.359	0.203
25580	25521	56	51	72	78	3.5	3.3	17.6	0.33	1.8	0.359	0.201
3578	3525	57	51	75	81	3.5	3.3	19.5	0.31	2.0	0.477	0.304
HM 803149	HM 803110	62	53	74	85	3.5	3.3	25.6	0.55	1.1	0.528	0.322
3782	3720	58	52	82	88	3.5	3.2	22.4	0.34	1.8	0.678	0.292
49176	49368	54	53	82	87	0.8	3.3	21.6	0.36	1.7	0.648	0.371
49175	49368	59	53	82	87	3.5	3.3	21.6	0.36	1.7	0.645	0.371
46176	46368	60	54	79	87	3.5	3.3	24.0	0.40	1.5	0.635	0.405
438	432	57	51	83	87	3.5	2.3	18.6	0.28	2.1	0.555	0.384

Note * The maximum bore diameter is listed and its tolerance is negative

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 44.450 – 47.625 mm



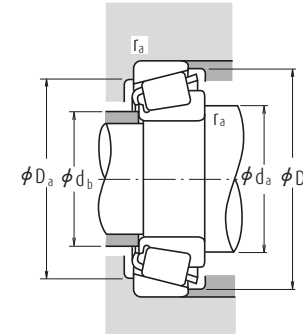
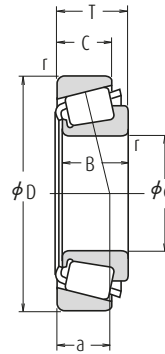
Boundary Dimensions (mm)								Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)			
					Cone	Cup							
d	D	T	B	C	r min.			C _r	C _{0r}	Grease	Oil		
44.450	95.250	30.162	29.370	23.020	3.5	3.3		106 000	143 000	3 800	5 300		
	95.250	30.958	28.301	20.638	3.5	0.8		87 500	97 000	3 600	5 300		
	95.250	30.958	28.301	20.638	1.3	0.8		87 500	97 000	3 600	5 300		
	95.250	30.958	28.301	20.638	2.0	0.8		87 500	97 000	3 600	5 300		
	95.250	30.958	28.301	22.225	1.3	0.8		100 000	122 000	3 600	5 000		
	95.250	30.958	28.575	22.225	3.5	0.8		100 000	122 000	3 600	5 000		
	98.425	30.958	28.301	20.638	3.5	0.8		87 500	97 000	3 600	5 300		
	103.188	43.658	44.475	36.512	1.3	3.3		178 000	238 000	3 800	5 000		
	104.775	36.512	36.512	28.575	3.5	3.3		139 000	192 000	3 400	4 800		
	107.950	27.783	29.317	22.225	3.5	0.8		116 000	149 000	3 400	4 800		
44.983	111.125	30.162	26.909	20.638	3.5	3.3		92 500	110 000	3 200	4 300		
	114.300	44.450	44.450	34.925	3.5	3.3		172 000	205 000	3 600	4 800		
	82.931	23.812	25.400	19.050	1.5	0.8		76 500	99 000	4 500	6 000		
	93.264	20.638	22.225	15.082	0.8	1.3		77 000	93 000	3 800	5 300		
	45.230	79.985	19.842	20.638	15.080	2.0	1.3		62 000	78 500	4 500	6 000	
		45.242	73.431	19.558	19.812	15.748	3.5	0.8		53 500	75 000	4 800	6 300
			77.788	19.842	19.842	15.080	3.5	0.8		56 000	71 000	4 500	6 300
	45.618	77.788	21.430	19.842	16.667	3.5	0.8		56 000	71 000	4 500	6 300	
		82.931	23.812	25.400	19.050	3.5	0.8		76 500	99 000	4 500	6 000	
		82.931	26.988	25.400	22.225	3.5	2.3		76 500	99 000	4 500	6 000	
46.000	75.000	18.000	18.000	14.000	2.3	1.5		51 000	71 500	4 500	6 300		
	46.038	79.375	17.462	17.462	13.495	2.8	1.5		46 000	57 000	4 500	6 000	
		80.962	19.050	17.462	14.288	0.8	1.5		45 000	57 000	4 300	6 000	
47.625		85.000	20.638	21.692	17.462	2.3	1.3		71 500	81 500	4 300	6 000	
	85.000	25.400	25.608	20.638	3.5	1.3		79 500	105 000	4 300	6 000		
	95.250	27.783	29.901	22.225	3.5	0.8		106 000	126 000	4 300	5 600		
	88.900	20.638	22.225	16.513	3.5	1.3		73 000	85 000	4 000	5 600		
	88.900	25.400	25.400	19.050	3.5	3.3		86 000	107 000	4 000	5 600		
	95.250	30.162	29.370	23.020	3.5	3.3		106 000	143 000	3 800	5 300		
	101.600	34.925	36.068	26.988	3.5	3.3		137 000	169 000	3 800	5 000		
	111.125	30.162	26.909	20.638	3.5	3.3		92 500	110 000	3 200	4 300		
	112.712	30.162	26.909	20.638	3.5	3.3		92 500	110 000	3 200	4 300		
	117.475	33.338	31.750	23.812	3.5	3.3		137 000	156 000	3 200	4 300		
	123.825	36.512	32.791	25.400	3.5	3.3		143 000	160 000	3 000	4 000		

Bearing Numbers		Abutment and Fillet Dimensions (mm)						Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	Cone	Cup			Y ₁	Y ₀	CONE	CUP
						r _a max.							
HM 804843	HM 804810	63	57	81	91	3.5	3.3	26.1	0.55	1.1	0.60	0.677	0.354
53177	53375	63	53	81	89	3.5	0.8	30.7	0.74	0.81	0.45	0.572	0.365
53176	53375	59	53	81	89	1.3	0.8	30.7	0.74	0.81	0.45	0.574	0.365
53178	53375	60	53	81	89	2	0.8	30.7	0.74	0.81	0.45	0.574	0.365
HM 903247	HM 903210	61	54	81	91	1.3	0.8	31.5	0.74	0.81	0.45	0.651	0.389
HM 903249	HM 903210	65	54	81	91	3.5	0.8	31.5	0.74	0.81	0.45	0.635	0.389
53177	53387	63	53	82	91	3.5	0.8	30.7	0.74	0.81	0.45	0.568	0.442
5356	5335	58	56	89	97	1.3	3.3	27.0	0.30	2.0	1.1	1.23	0.637
HM 807040	HM 807010	66	59	89	100	3.5	3.3	29.7	0.49	1.2	0.68	1.14	0.502
460	453 A	60	54	97	100	3.5	0.8	20.7	0.34	1.8	0.98	0.93	0.42
55175	55437	67	60	92	105	3.5	3.3	37.3	0.88	0.68	0.37	0.867	0.514
65385	65320	65	59	97	107	3.5	3.3	32.2	0.43	1.4	0.77	1.39	0.894
25584	25520	53	51	74	77	1.5	0.8	17.6	0.33	1.8	0.99	0.354	0.203
376	374	54	54	85	88	0.8	1.3	17.1	0.34	1.8	0.97	0.492	0.174
17887	17831	57	52	68	74	2	1.3	15.9	0.37	1.6	0.90	0.274	0.136
LM 102949	LM 102910	56	50	68	70	3.5	0.8	14.6	0.31	2.0	1.1	0.213	0.102
LM 603049	LM 603011	57	50	71	74	3.5	0.8	17.2	0.43	1.4	0.77	0.249	0.119
LM 603049	LM 603012	57	50	70	74	3.5	0.8	18.8	0.43	1.4	0.77	0.249	0.137
25590	25520	58	51	74	77	3.5	0.8	17.6	0.33	1.8	0.99	0.343	0.203
25590	25523	58	51	72	77	3.5	2.3	20.8	0.33	1.8	0.99	0.343	0.248
* LM 503349	** LM 503310	55	51	67	71	2.3	1.5	15.9	0.40	1.5	0.82	0.209	0.096
18690	18620	56	51	71	74	2.8	1.5	15.5	0.37	1.6	0.88	0.211	0.126
13181	13318	52	52	72	76	0.8	1.5	20.1	0.53	1.1	0.63	0.236	0.144
359 S	354 A	55	51	77	80	2.3	1.3	15.4	0.31	2.0	1.1	0.343	0.162
2984	2924	58	52	76	80	3.5	1.3	19.0	0.35	1.7	0.95	0.397	0.223
436	432 A	59	52	84	87	3.5	0.8	18.6	0.28	2.1	1.2	0.536	0.381
369 A	362 A	60	53	81	84	3.5	1.3	16.6	0.32	1.9	1.0	0.381	0.166
M 804049	M 804010	63	56	77	85	3.5	3.3	23.8	0.55	1.1	0.60	0.455	0.218
HM 804846	HM 804810	66	57	81	91	3.5	3.3	26.1	0.55	1.1	0.60	0.626	0.354
528	522	62	55	89	95	3.5	3.3	22.1	0.29	2.1	1.2	0.894	0.416
55187	55437	69	62	92	105	3.5	3.3	37.3	0.88	0.68	0.37	0.817	0.514
55187	55443	69	62	92	106	3.5	3.3	37.3	0.88	0.68	0.37	0.816	0.554
66187	66462	66	62	100	111	3.5	3.3	32.1	0.63	0.96	0.53	1.19	0.552
72187	72487	72	66	102	116	3.5	3.3	37.0	0.74	0.81	0.45	1.29	0.79

Notes * The maximum bore diameter is listed and its tolerance is negative
 ** The maximum outside diameter is listed and its tolerance is negative

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 48.412 – 52.388 mm



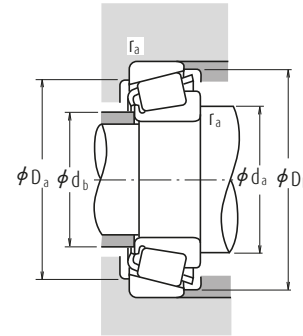
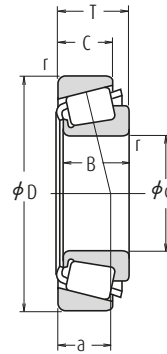
Boundary Dimensions (mm)							Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
					Cone	Cup				
d	D	T	B	C	r min.		C _r	C _{0r}	Grease	Oil
48.412	95.250	30.162	29.370	23.020	3.5	3.3	106 000	143 000	3 800	5 300
	95.250	30.162	29.370	23.020	2.3	3.3	106 000	143 000	3 800	5 300
49.212	104.775	36.512	36.512	28.575	3.5	0.8	139 000	192 000	3 400	4 800
	114.300	44.450	44.450	36.068	3.5	3.3	196 000	243 000	3 400	4 800
50.000	82.000	21.500	21.500	17.000	3.0	0.5	71 000	96 000	4 300	5 600
	82.550	21.590	22.225	16.510	0.5	1.3	71 000	96 000	4 300	5 600
	88.900	20.638	22.225	16.513	2.3	1.3	73 000	85 000	4 000	5 600
	90.000	28.000	28.000	23.000	3.0	2.5	104 000	136 000	4 000	5 600
	105.000	37.000	36.000	29.000	3.0	2.5	139 000	192 000	3 400	4 800
50.800	80.962	18.258	18.258	14.288	1.5	1.5	53 000	81 000	4 300	5 600
	82.550	23.622	22.225	18.542	3.5	0.8	71 000	96 000	4 300	5 600
	82.931	21.590	22.225	16.510	3.5	1.3	71 000	96 000	4 300	5 600
	85.000	17.462	17.462	13.495	3.5	1.5	48 500	63 000	4 300	5 600
	85.725	19.050	18.263	12.700	1.5	1.5	42 500	54 000	4 000	5 300
	88.900	20.638	22.225	16.513	3.5	1.3	73 000	85 000	4 000	5 600
	88.900	20.638	22.225	16.513	1.5	1.3	73 000	85 000	4 000	5 600
	92.075	24.608	25.400	19.845	3.5	0.8	84 500	117 000	4 000	5 300
	93.264	30.162	30.302	23.812	0.8	0.8	103 000	136 000	3 800	5 300
	93.264	30.162	30.302	23.812	3.5	0.8	103 000	136 000	3 800	5 300
	95.250	27.783	28.575	22.225	3.5	2.3	110 000	144 000	3 800	5 300
	101.600	31.750	31.750	25.400	3.5	3.3	118 000	150 000	3 600	5 000
	101.600	34.925	36.068	26.988	0.8	3.3	137 000	169 000	3 800	5 000
	101.600	34.925	36.068	26.988	3.5	3.3	137 000	169 000	3 800	5 000
	104.775	36.512	36.512	28.575	3.5	0.8	139 000	192 000	3 400	4 800
	104.775	36.512	36.512	28.575	3.5	3.3	139 000	192 000	3 400	4 800
	108.966	34.925	36.512	26.988	3.5	3.3	145 000	181 000	3 600	4 800
	111.125	30.162	26.909	20.638	3.5	3.3	113 000	152 000	3 000	4 300
	111.125	30.162	26.909	20.638	3.5	3.3	92 500	110 000	3 200	4 300
	123.825	36.512	32.791	25.400	3.5	3.3	162 000	199 000	2 800	4 000
	123.825	36.512	32.791	25.400	3.5	3.3	143 000	160 000	3 000	4 000
	127.000	44.450	44.450	34.925	3.5	3.3	199 000	258 000	3 000	4 000
	127.000	50.800	52.388	41.275	3.5	3.3	236 000	300 000	3 200	4 300
52.388	92.075	24.608	25.400	19.845	3.5	0.8	84 500	117 000	4 000	5 300
	100.000	25.000	22.225	21.824	2.3	2.0	77 000	93 000	3 800	5 300
	111.125	30.162	26.909	20.638	3.5	3.3	92 500	110 000	3 200	4 300

Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)		
					Cone	Cup							
CONE	CUP	d _a	d _b	D _a	D _b	r _a max.		a	e	Y ₁	Y ₀	CONE	CUP
HM 804849	HM 804810	66	57	81	91	3.5	3.3	26.1	0.55	1.1	0.60	0.61	0.354
HM 804848	HM 804810	63	57	81	91	2.3	3.3	26.1	0.55	1.1	0.60	0.614	0.354
HM 807044	HM 807011	69	63	91	100	3.5	0.8	29.7	0.49	1.2	0.68	1.03	0.508
HH 506348	HH 506310	71	61	97	107	3.5	3.3	30.8	0.40	1.5	0.82	1.43	0.837
▲ JLM 104948	▲ JLM 104910	60	55	76	78	3	0.5	16.1	0.31	2.0	1.1	0.306	0.129
* LM 104947 A	LM 104911	55	55	75	78	0.5	1.3	15.7	0.31	2.0	1.1	0.316	0.133
366	362 A	59	55	81	84	2.3	1.3	16.6	0.32	1.9	1.0	0.351	0.166
▲ JM 205149	▲ JM 205110	62	57	80	85	3	2.5	19.9	0.33	1.8	1.0	0.507	0.246
▲ JHM 807045	▲ JHM 807012	69	63	90	100	3	2.5	29.7	0.49	1.2	0.68	1.01	0.523
L 305649	L 305610	58	56	73	77	1.5	1.5	15.7	0.36	1.7	0.93	0.239	0.119
LM 104949	LM 104911 A	62	55	75	78	3.5	0.8	17.8	0.31	2.0	1.1	0.303	0.156
LM 104949	LM 104912	62	55	75	78	3.5	1.3	15.7	0.31	2.0	1.1	0.301	0.14
18790	18720	62	56	77	80	3.5	1.5	16.7	0.41	1.5	0.81	0.239	0.136
18200	18337	59	56	76	81	1.5	1.5	21.0	0.57	1.1	0.58	0.268	0.136
368 A	362 A	62	56	81	84	3.5	1.3	16.6	0.32	1.9	1.0	0.338	0.166
368	362 A	58	56	81	84	1.5	1.3	16.6	0.32	1.9	1.0	0.341	0.166
28580	28521	63	57	83	87	3.5	0.8	20.0	0.38	1.6	0.87	0.46	0.247
3775	3730	58	58	84	88	0.8	0.8	22.4	0.34	1.8	0.97	0.568	0.297
3780	3730	64	58	84	88	3.5	0.8	22.4	0.34	1.8	0.97	0.564	0.297
33889	33821	64	58	85	90	3.5	2.3	19.8	0.33	1.8	1.0	0.601	0.267
49585	49520	66	59	88	96	3.5	3.3	23.4	0.40	1.5	0.82	0.744	0.389
529	522	59	58	89	95	0.8	3.3	22.1	0.29	2.1	1.2	0.822	0.416
529 X	522	65	58	89	95	3.5	3.3	22.1	0.29	2.1	1.2	0.819	0.416
HM 807046	HM 807011	70	63	91	100	3.5	0.8	29.7	0.49	1.2	0.68	0.992	0.508
HM 807046	HM 807010	70	63	89	100	3.5	3.3	29.7	0.49	1.2	0.68	0.993	0.502
59200	59429	68	61	93	101	3.5	3.3	25.4	0.40	1.5	0.82	0.943	0.594
55200 C	55437	71	65	92	105	3.5	3.3	37.6	0.88	0.68	0.37	0.845	0.514
55200	55437	71	64	92	105	3.5	3.3	37.3	0.88	0.68	0.37	0.767	0.514
72200 C	72487	77	67	102	116	3.5	3.3	38.0	0.74	0.81	0.45	1.33	0.79
72200	72487	74	66	102	116	3.5	3.3	37.0	0.74	0.81	0.45	1.22	0.79
65200	65500	75	69	107	119	3.5	3.3	35.0	0.49	1.2	0.68	1.86	1.03
6279	6220	71	65	108	117	3.5	3.3	30.7	0.30	2.0	1.1	2.08	1.22
28584	28521	65	58	83	87	3.5	0.8	20.0	0.38	1.6	0.87	0.435	0.247
377	372	62	58	86	90	2.3	2	21.4	0.34	1.8	0.97	0.392	0.435
55206	55437	72	64	92	105	3.5	3.3	37.3	0.88	0.68	0.37	0.737	0.514

Notes * The maximum bore diameter is listed and its tolerance is negative
▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 53.975 – 58.738 mm



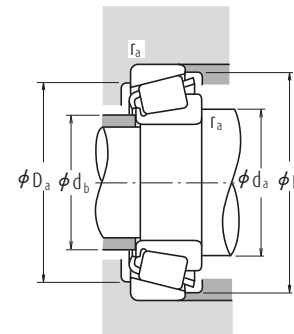
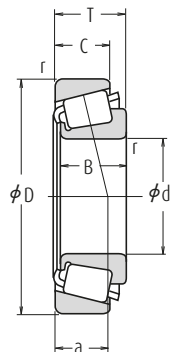
Boundary Dimensions (mm)						Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)		
					Cone	Cup				
d	D	T	B	C	r min.		C _r	C _{0r}	Grease	Oil
53.975	104.775	39.688	40.157	33.338	3.5	3.3	148 000	207 000	3 600	4 800
	107.950	36.512	36.957	28.575	3.5	3.3	144 000	182 000	3 600	4 800
	122.238	33.338	31.750	23.812	3.5	3.3	135 000	156 000	3 000	4 000
	123.825	36.512	32.791	25.400	3.5	3.3	143 000	160 000	3 000	4 000
	123.825	36.512	32.791	25.400	3.5	3.3	162 000	199 000	2 800	4 000
	123.825	38.100	36.678	30.162	3.5	3.3	161 000	221 000	3 000	4 000
	127.000	44.450	44.450	34.925	3.5	3.3	199 000	258 000	3 000	4 000
	127.000	50.800	52.388	41.275	3.5	3.3	236 000	300 000	3 200	4 300
55.000	130.175	36.512	33.338	23.812	3.5	3.3	133 000	154 000	2 600	3 600
	90.000	23.000	23.000	18.500	1.5	0.5	79 000	111 000	3 800	5 300
	95.000	29.000	29.000	23.500	1.5	2.5	111 000	152 000	3 800	5 000
	96.838	21.000	21.946	15.875	2.3	0.8	80 500	100 000	3 600	5 000
	110.000	39.000	39.000	32.000	3.0	2.5	177 000	225 000	3 400	4 500
	115.000	41.021	41.275	31.496	3.0	3.0	172 000	214 000	3 200	4 500
55.562	97.630	24.608	24.608	19.446	3.5	0.8	89 000	129 000	3 600	5 000
	122.238	43.658	43.764	36.512	1.3	3.3	198 000	292 000	3 000	4 000
	123.825	36.512	32.791	25.400	3.5	3.3	143 000	160 000	3 000	4 000
	123.825	36.512	32.791	25.400	3.5	3.3	162 000	199 000	2 800	4 000
57.150	96.838	21.000	21.946	15.875	3.5	0.8	80 500	100 000	3 600	5 000
	96.838	21.000	21.946	15.875	2.3	0.8	80 500	100 000	3 600	5 000
	96.838	25.400	21.946	20.275	3.5	2.3	80 500	100 000	3 600	5 000
	98.425	21.000	21.946	17.826	3.5	0.8	80 500	100 000	3 600	5 000
	104.775	30.162	29.317	24.605	3.5	3.3	116 000	149 000	3 400	4 800
	104.775	30.162	29.317	24.605	2.3	3.3	116 000	149 000	3 400	4 800
	104.775	30.162	30.958	23.812	0.8	3.3	130 000	170 000	3 400	4 800
	104.775	30.162	30.958	23.812	0.8	0.8	130 000	170 000	3 400	4 800
	122.238	33.338	31.750	23.812	3.5	3.3	135 000	156 000	3 000	4 000
	123.825	36.512	32.791	25.400	3.5	3.3	162 000	199 000	2 800	4 000
	123.825	38.100	36.678	30.162	3.5	3.3	161 000	221 000	3 000	4 000
	140.030	36.512	33.236	23.520	3.5	2.3	152 000	183 000	2 600	3 600
57.738	144.983	36.000	33.236	23.007	3.5	3.5	152 000	183 000	2 600	3 600
	149.225	53.975	54.229	44.450	3.5	3.3	287 000	410 000	2 600	3 400
	96.838	21.000	21.946	15.875	3.5	0.8	80 500	100 000	3 600	5 000
	112.712	33.338	30.048	26.988	3.5	3.3	120 000	173 000	3 200	4 300

Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)		Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	Cone r _a max.	a	e	e	Y ₁	Y ₀	approx. CONE	CUP
4595	4535	70	63	90	99	3.5	3.3	27.4	0.34	1.79	0.98	0.989	0.589
539	532 X	68	61	94	100	3.5	3.3	24.3	0.30	2.0	1.1	0.88	0.57
66584	66520	75	68	105	116	3.5	3.3	34.3	0.67	0.90	0.50	1.2	0.558
72212	72487	77	66	102	116	3.5	3.3	37.0	0.74	0.81	0.45	1.16	0.79
72212 C	72487	79	67	102	116	3.5	3.3	38.0	0.74	0.81	0.45	1.27	0.79
557 S	552 A	71	65	109	116	3.5	3.3	28.8	0.35	1.7	0.95	1.49	0.764
65212	65500	77	71	107	119	3.5	3.3	35.0	0.49	1.2	0.68	1.76	1.03
6280	6220	74	67	108	117	3.5	3.3	30.7	0.30	2.0	1.1	1.97	1.22
HM911242	HM911210	79	74	109	124	3.5	3.3	42.2	0.82	0.73	0.40	1.45	0.725
▲ JLM506849	▲ JLM506810	63	61	82	86	1.5	0.5	19.7	0.40	1.5	0.82	0.378	0.186
▲ JM207049	▲ JM207010	64	62	85	91	1.5	2.5	21.3	0.33	1.8	0.99	0.59	0.26
385	382 A	65	61	89	92	2.3	0.8	17.6	0.35	1.7	0.93	0.455	0.179
▲ JH307749	▲ JH307710	71	64	97	104	3	2.5	27.2	0.35	1.7	0.95	1.13	0.567
622 X	614 X	70	64	101	108	3	3	26.6	0.31	1.9	1.1	1.3	0.597
28680	28622	68	62	88	92	3.5	0.8	21.3	0.40	1.5	0.82	0.499	0.27
5566	5535	70	68	106	116	1.3	3.3	29.9	0.36	1.7	0.92	1.76	0.815
72218	72487	78	66	102	116	3.5	3.3	37.0	0.74	0.81	0.45	1.12	0.79
72218 C	72487	80	67	102	116	3.5	3.3	38.0	0.74	0.81	0.45	1.23	0.79
387 A	382 A	69	62	89	92	3.5	0.8	17.6	0.35	1.7	0.93	0.42	0.179
387	382 A	66	62	89	92	2.3	0.8	17.6	0.35	1.7	0.93	0.423	0.179
387 A	382 S	69	62	87	91	3.5	2.3	22.0	0.35	1.7	0.93	0.42	0.249
387 A	382	69	62	90	92	3.5	0.8	17.6	0.35	1.7	0.93	0.42	0.226
469	453 X	70	63	92	98	3.5	3.3	23.1	0.34	1.8	0.98	0.692	0.376
462	453 X	67	63	92	98	2.3	3.3	23.1	0.34	1.8	0.98	0.694	0.376
45289	45220	65	65	93	99	0.8	3.3	21.9	0.33	1.8	0.99	0.752	0.347
45289	45221	65	65	95	99	0.8	0.8	21.9	0.33	1.8	0.99	0.76	0.35
66587	66520	77	71	105	116	3.5	3.3	34.3	0.67	0.90	0.50	1.14	0.558
72225 C	72487	81	67	102	116	3.5	3.3	38.0	0.74	0.81	0.45	1.19	0.79
555 S	552 A	83	68	109	116	3.5	3.3	28.8	0.35	1.7	0.95	1.41	0.764
78225	78551	83	77	117	132	3.5	2.3	44.2	0.87	0.69	0.38	1.67	0.926
78225	78571	83	77	118	132	3.5	3.5	43.6	0.87	0.69	0.38	1.68	1.08
6455	6420	81	75	129	140	3.5	3.3	39.0	0.36	1.7	0.91	3.49	1.63
388 A	382 A	69	63	89	92	3.5	0.8	17.6	0.35	1.7	0.93	0.416	0.179
3981	3926	73	67	98	106	3.5	3.3	28.7	0.40	1.5	0.82	0.899	0.541

Note ▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 60.000 – 64.963 mm



Boundary Dimensions (mm)						Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)		
					Cone	Cup				
d	D	T	B	C	r min.		C _r	C _{0r}	Grease	Oil
60.000	95.000	24.000	24.000	19.000	5.0	2.5	86 500	125 000	3 600	5 000
	104.775	21.433	22.000	15.875	2.3	2.0	83 500	107 000	3 400	4 500
	110.000	22.000	21.996	18.824	0.8	1.3	85 500	113 000	3 200	4 300
	122.238	33.338	31.750	23.812	3.5	3.3	135 000	156 000	3 000	4 000
60.325	100.000	25.400	25.400	19.845	3.5	3.3	91 000	135 000	3 400	4 800
	101.600	25.400	25.400	19.845	3.5	3.3	91 000	135 000	3 400	4 800
	122.238	38.100	36.678	30.162	2.3	3.3	161 000	221 000	3 000	4 000
	122.238	38.100	38.354	29.718	8.0	1.5	188 000	245 000	3 000	4 000
	122.238	43.658	43.764	36.512	0.8	3.3	198 000	292 000	3 000	4 000
	127.000	44.450	44.450	34.925	3.5	3.3	199 000	258 000	3 000	4 000
	130.175	41.275	41.275	31.750	3.5	3.3	195 000	263 000	2 800	3 800
	135.755	53.975	56.007	44.450	3.5	3.3	264 000	355 000	2 800	3 800
61.912	136.525	46.038	46.038	36.512	3.5	3.3	233 000	370 000	2 600	3 400
	146.050	41.275	39.688	25.400	3.5	3.3	193 000	225 000	2 400	3 400
	152.400	47.625	46.038	31.750	3.5	3.3	237 000	267 000	2 400	3 400
63.500	94.458	19.050	19.050	15.083	1.5	1.5	59 000	100 000	3 600	4 800
	104.775	21.433	22.000	15.875	2.0	2.0	83 500	107 000	3 400	4 500
	107.950	25.400	25.400	19.050	1.5	3.3	90 000	138 000	3 200	4 300
	110.000	22.000	21.996	18.824	3.5	1.3	85 500	113 000	3 200	4 300
	110.000	22.000	21.996	18.824	1.5	1.3	85 500	113 000	3 200	4 300
	112.712	30.162	30.048	23.812	3.5	3.2	120 000	173 000	3 200	4 300
	112.712	30.162	30.162	23.812	3.5	3.3	142 000	202 000	3 200	4 300
	112.712	33.338	30.048	26.988	3.5	3.3	120 000	173 000	3 200	4 300
	122.238	38.100	38.354	29.718	7.0	3.3	188 000	245 000	3 000	4 000
	122.238	38.100	38.354	29.718	7.0	1.5	188 000	245 000	3 000	4 000
	122.238	38.100	38.354	29.718	3.5	1.5	188 000	245 000	3 000	4 000
	122.238	43.658	43.764	36.512	3.5	3.3	198 000	292 000	3 000	4 000
	123.825	38.100	36.678	30.162	3.5	3.3	161 000	221 000	3 000	4 000
	127.000	36.512	36.170	28.575	3.5	3.3	166 000	234 000	2 800	3 800
	130.175	41.275	41.275	31.750	3.5	3.3	195 000	263 000	2 800	3 800
	136.525	36.512	33.236	23.520	2.3	3.3	152 000	183 000	2 600	3 600
	136.525	41.275	41.275	31.750	3.5	3.3	195 000	263 000	2 800	3 800
	140.030	36.512	33.236	23.520	2.3	2.3	152 000	183 000	2 600	3 600
	64.963	127.000	36.512	36.170	28.575	3.5	3.3	166 000	234 000	2 800

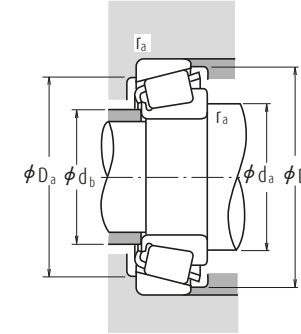
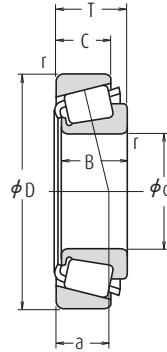
Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	r _a max.	a	e	Y ₁	Y ₀	approx. CONE	approx. CUP
▲ JLM 508748	▲ JLM 508710	75	66	85	91	5	2.5	21.6	0.40	1.5 0.82	0.43	0.20
* 39236	39412	71	67	96	100	2.3	2	20.0	0.39	1.5 0.85	0.559	0.186
397	394 A	69	68	101	104	0.8	1.3	20.9	0.40	1.5 0.82	0.642	0.263
66585	66520	79	73	105	116	3.5	3.3	34.3	0.67	0.90 0.50	1.07	0.558
28985	28921	73	67	89	96	3.5	3.3	22.9	0.43	1.4 0.78	0.538	0.232
28985	28920	73	67	90	97	3.5	3.3	22.9	0.43	1.4 0.78	0.538	0.272
558	553 X	73	69	108	115	2.3	3.3	28.8	0.35	1.7 0.95	1.33	0.692
HM 212044	HM 212010	85	70	110	116	8	1.5	27.0	0.34	1.8 0.98	1.43	0.604
5582	5535	73	72	106	116	0.8	3.3	29.9	0.36	1.7 0.92	1.61	0.815
65237	65500	82	71	107	119	3.5	3.3	35.0	0.49	1.2 0.68	1.56	1.03
637	633	78	72	116	124	3.5	3.3	29.9	0.36	1.7 0.91	1.87	0.712
6376	6320	81	74	117	126	3.5	3.3	35.0	0.32	1.8 1.0	2.45	1.39
H 715334	H 715311	84	78	119	132	3.5	3.3	37.1	0.47	1.3 0.70	2.51	0.961
H 913842	H 913810	90	82	124	138	3.5	3.3	44.4	0.78	0.77 0.42	2.2	0.898
9180	9121	90	81	130	145	3.5	3.3	44.3	0.66	0.92 0.50	2.77	1.21
L 610549	L 610510	71	69	86	91	1.5	1.5	19.6	0.42	1.4 0.78	0.306	0.154
39250	39412	73	69	96	100	2	2	20.0	0.39	1.5 0.85	0.501	0.186
29586	29520	73	71	96	103	1.5	3.3	24.0	0.46	1.3 0.72	0.661	0.281
395	394 A	77	70	101	104	3.5	1.3	20.9	0.40	1.5 0.82	0.58	0.263
390 A	394 A	73	70	101	104	1.5	1.3	20.9	0.40	1.5 0.82	0.583	0.263
3982	3920	77	71	99	106	3.5	3.2	25.5	0.40	1.5 0.82	0.789	0.454
39585	39520	77	71	101	107	3.5	3.3	23.5	0.34	1.8 0.97	0.899	0.359
3982	3926	78	71	98	106	3.5	3.3	28.7	0.40	1.5 0.82	0.789	0.541
HM 212047	HM 212011	87	73	108	116	7	3.3	26.9	0.34	1.8 0.98	1.34	0.598
HM 212047	HM 212010	87	73	110	116	7	1.5	26.9	0.34	1.8 0.98	1.34	0.604
HM 212046	HM 212010	80	73	110	116	3.5	1.5	26.9	0.34	1.8 0.98	1.35	0.604
5584	5535	81	75	106	116	3.5	3.3	29.9	0.36	1.7 0.92	1.5	0.815
559	522 A	78	73	109	116	3.5	3.3	28.8	0.35	1.7 0.95	1.23	0.764
565	563	80	73	112	120	3.5	3.3	28.3	0.36	1.6 0.91	1.46	0.655
639	633	81	74	116	124	3.5	3.3	29.9	0.36	1.7 0.91	1.77	0.712
78250	78537	85	79	115	130	2.3	3.3	44.2	0.87	0.69 0.38	1.51	0.782
639	632	79	76	119	125	3.5	3.3	29.9	0.36	1.7 0.91	1.77	1.04
78250	78551	85	79	117	132	2.3	2.3	44.2	0.87	0.69 0.38	1.51	0.926
569	563	81	74	112	120	3.5	3.3	28.3	0.36	1.6 0.91	1.41	0.655

Notes * The maximum bore diameter is listed and its tolerance is negative
▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)



Bore Diameter 65.000 – 69.850 mm



Boundary Dimensions (mm)							Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
d	D	T	B	C	Cone r min.	Cup	C _r	C _{0r}	Grease	Oil
65.000	105.000	24.000	23.000	18.500	3.0	1.0	93 000	126 000	3 400	4 500
	110.000	28.000	28.000	22.500	3.0	2.5	120 000	173 000	3 200	4 300
	120.000	29.002	29.007	23.444	2.3	3.3	123 000	169 000	3 000	4 000
	120.000	39.000	38.500	32.000	3.0	2.5	185 000	249 000	3 000	4 000
65.088	135.755	53.975	56.007	44.450	3.5	3.3	264 000	355 000	2 800	3 800
	136.525	46.038	46.038	36.512	3.5	3.3	233 000	370 000	2 600	3 400
66.675	110.000	22.000	21.996	18.824	0.8	1.3	85 500	113 000	3 200	4 300
	110.000	22.000	21.996	18.824	3.5	1.3	85 500	113 000	3 200	4 300
	112.712	30.162	30.048	23.812	3.5	3.2	120 000	173 000	3 200	4 300
	112.712	30.162	30.048	23.812	5.5	3.2	120 000	173 000	3 200	4 300
	112.712	30.162	30.162	23.812	3.5	0.8	142 000	202 000	3 200	4 300
	112.712	30.162	30.162	23.812	3.5	3.3	142 000	202 000	3 200	4 300
	117.475	30.162	30.162	23.812	3.5	3.3	119 000	179 000	3 000	4 000
	122.238	38.100	36.678	30.162	3.5	3.3	161 000	221 000	3 000	4 000
	122.238	38.100	38.354	29.718	3.5	1.5	188 000	245 000	3 000	4 000
	122.238	38.100	38.354	29.718	3.5	3.3	188 000	245 000	3 000	4 000
	123.825	38.100	36.678	30.162	3.5	3.3	161 000	221 000	3 000	4 000
	136.525	46.038	46.038	36.512	3.5	3.3	233 000	370 000	2 600	3 400
68.262	110.000	22.000	21.996	18.824	2.3	1.3	85 500	113 000	3 200	4 300
	120.000	29.795	29.007	24.237	3.5	2.0	123 000	169 000	3 000	4 000
	122.238	38.100	36.678	30.162	3.5	3.3	161 000	221 000	3 000	4 000
	127.000	36.512	36.170	28.575	3.5	3.3	166 000	234 000	2 800	3 800
	136.525	41.275	41.275	31.750	3.5	3.3	229 000	297 000	2 600	3 600
	136.525	46.038	46.038	36.512	3.5	3.3	233 000	370 000	2 600	3 400
	152.400	47.625	46.038	31.750	3.5	3.3	237 000	267 000	2 400	3 400
69.850	112.712	22.225	21.996	15.875	1.5	0.8	85 000	113 000	3 000	4 000
	112.712	25.400	25.400	19.050	1.5	3.3	96 000	152 000	2 800	4 000
	117.475	30.162	30.162	23.812	3.5	3.3	119 000	179 000	3 000	4 000
	120.000	32.545	32.545	26.195	3.5	3.3	152 000	225 000	3 000	4 000
	120.650	25.400	25.400	19.050	1.5	3.3	96 000	152 000	2 800	4 000
	127.000	36.512	36.170	28.575	3.5	0.8	166 000	234 000	2 800	3 800
	130.175	41.275	41.275	31.750	3.5	3.3	195 000	263 000	2 800	3 800
	146.050	41.275	39.688	25.400	3.5	3.3	193 000	225 000	2 400	3 400
	146.050	41.275	41.275	31.750	3.5	3.3	207 000	296 000	2 400	3 200
	149.225	53.975	54.229	44.450	5.0	3.3	287 000	410 000	2 600	3 400
	150.089	44.450	46.672	36.512	3.5	3.3	265 000	370 000	2 400	3 200

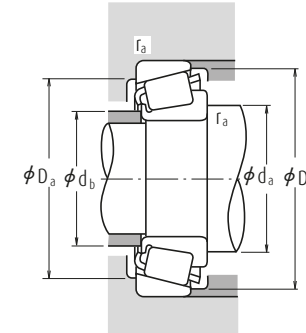
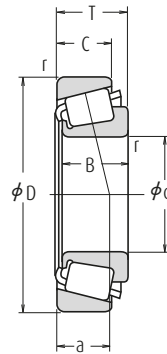
Bearing Numbers		Abutment and Fillet Dimensions (mm)						Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	Cone	Cup			Y ₁	Y ₀	CONE	CUP
						r _a max.							
▲ JLM 710949	▲ JLM 710910	77	71	96	101	3	1	23.7	0.45	1.3	0.73	0.526	0.237
▲ JM 511946	▲ JM 511910	78	72	99	105	3	2.5	24.5	0.40	1.5	0.82	0.72	0.342
478	472 A	77	73	106	114	2.3	3.3	24.3	0.38	1.6	0.86	0.942	0.466
▲ JH 211749	▲ JH 211710	80	74	107	114	3	2.5	27.9	0.34	1.8	0.98	1.25	0.625
6379	6320	84	77	117	126	3.5	3.3	35.0	0.32	1.8	1.0	2.25	1.39
H 715340	H 715311	88	82	118	132	3.5	3.3	37.1	0.47	1.3	0.70	2.4	0.961
395 A	394 A	73	73	101	104	0.8	1.3	20.9	0.40	1.5	0.82	0.528	0.263
395 S	394 A	79	73	101	104	3.5	1.3	20.9	0.40	1.5	0.82	0.524	0.263
3984	3920	80	74	99	106	3.5	3.2	25.5	0.40	1.5	0.82	0.712	0.454
3994	3920	84	74	99	106	5.5	3.2	25.5	0.40	1.5	0.82	0.706	0.454
39590	39521	80	74	103	107	3.5	0.8	23.5	0.34	1.8	0.97	0.822	0.365
39590	39520	80	74	101	107	3.5	3.3	23.5	0.34	1.8	0.97	0.822	0.359
33262	33462	81	75	104	112	3.5	3.3	26.8	0.44	1.4	0.76	0.911	0.442
560	553 X	81	75	108	115	3.5	3.3	28.8	0.35	1.7	0.95	1.14	0.692
HM 212049	HM 212010	82	75	110	116	3.5	1.5	26.9	0.34	1.8	0.98	1.25	0.604
HM 212049	HM 212011	81	74	108	116	3.5	3.3	26.9	0.34	1.8	0.98	1.25	0.598
560	552 A	81	75	109	116	3.5	3.3	28.8	0.35	1.7	0.95	1.14	0.764
H 715341	H 715311	89	83	118	132	3.5	3.3	37.1	0.47	1.3	0.70	2.34	0.961
399 A	394 A	78	74	101	104	2.3	1.3	20.9	0.40	1.5	0.82	0.497	0.263
480	472	83	76	106	113	3.5	2	25.1	0.38	1.6	0.86	0.862	0.493
560 S	553 X	83	76	108	115	3.5	3.3	28.8	0.35	1.7	0.95	1.09	0.692
570	563	83	77	112	120	3.5	3.3	28.3	0.36	1.6	0.91	1.32	0.655
H 414245	H 414210	86	82	121	129	3.5	3.3	30.6	0.36	1.7	0.92	1.95	0.796
H 715343	H 715311	90	84	118	132	3.5	3.3	37.1	0.47	1.3	0.70	2.28	0.961
9185	9121	94	81	130	145	3.5	3.3	44.3	0.66	0.92	0.50	2.53	1.21
LM 613449	LM 613410	78	76	104	107	1.5	0.8	22.1	0.42	1.4	0.79	0.562	0.238
29675	29620	80	77	101	109	1.5	3.3	26.3	0.49	1.2	0.68	0.695	0.273
33275	33462	84	77	104	112	3.5	3.3	26.8	0.44	1.4	0.76	0.83	0.442
47487	47420	84	78	107	114	3.5	3.3	26.0	0.36	1.7	0.92	1.02	0.477
29675	29630	79	78	105	113	1.5	3.3	26.3	0.49	1.2	0.68	0.695	0.489
566	563 X	85	78	114	120	3.5	0.8	28.3	0.36	1.6	0.91	1.27	0.658
643	633	86	80	116	124	3.5	3.3	29.9	0.36	1.7	0.91	1.56	0.712
H 913849	H 913810	95	82	124	138	3.5	3.3	44.4	0.78	0.77	0.42	1.95	0.898
655	653	88	82	131	139	3.5	3.3	33.2	0.41	1.5	0.81	2.35	0.891
6454	6420	94	85	129	140	5	3.3	39.0	0.36	1.7	0.91	2.95	1.63
745 A	742	88	82	134	142	3.5	3.3	32.5	0.33	1.8	1.0	2.82	1.07

Note ▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)



Bore Diameter 70.000 – 76.200 mm



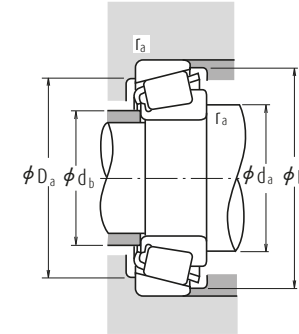
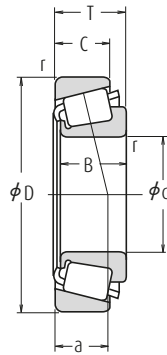
Boundary Dimensions (mm)						Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)			
						Cone	Cup				
d	D	T	B	C	r min.			C _r	C _{0r}	Grease	Oil
70.000	110.000	26.000	25.000	20.500	1.0	2.5		98 500	152 000	3 000	4 000
	115.000	29.000	29.000	23.000	3.0	2.5		126 000	177 000	3 000	4 000
	120.000	29.795	29.007	24.237	2.0	2.0		123 000	169 000	3 000	4 000
71.438	117.475	30.162	30.162	23.812	3.5	3.3		119 000	179 000	3 000	4 000
	120.000	32.545	32.545	26.195	3.5	3.3		152 000	225 000	3 000	4 000
	127.000	36.512	36.170	28.575	6.4	3.3		166 000	234 000	2 800	3 800
	127.000	36.512	36.170	28.575	3.5	3.3		166 000	234 000	2 800	3 800
	130.175	41.275	41.275	31.750	6.4	3.3		195 000	263 000	2 800	3 800
	136.525	41.275	41.275	31.750	3.5	3.3		195 000	263 000	2 800	3 800
	136.525	41.275	41.275	31.750	3.5	3.3		229 000	297 000	2 600	3 600
	136.525	46.038	46.038	36.512	3.5	3.3		233 000	370 000	2 600	3 400
	112.712	25.400	25.400	19.050	3.5	3.3		96 000	152 000	2 800	4 000
	117.475	30.162	30.162	23.812	3.5	3.3		119 000	179 000	3 000	4 000
73.025	127.000	36.512	36.170	28.575	3.5	3.3		166 000	234 000	2 800	3 800
	146.050	41.275	41.275	31.750	3.5	3.3		207 000	296 000	2 400	3 200
	149.225	53.975	54.229	44.450	3.5	3.3		287 000	410 000	2 600	3 400
	127.000	36.512	36.170	28.575	0.8	3.3		166 000	234 000	2 800	3 800
	150.000	41.275	41.275	31.750	3.5	3.0		207 000	296 000	2 400	3 200
73.817	127.000	36.512	36.170	28.575	0.8	3.3		166 000	234 000	2 800	3 800
	150.000	41.275	41.275	31.750	3.5	3.0		207 000	296 000	2 400	3 200
74.612	150.000	41.275	41.275	31.750	3.5	3.0		207 000	296 000	2 400	3 200
	150.000	41.275	41.275	31.750	3.5	3.0		207 000	296 000	2 400	3 200
75.000	115.000	25.000	25.000	19.000	3.0	2.5		101 000	150 000	3 000	4 000
	120.000	31.000	29.500	25.000	3.0	2.5		129 000	198 000	2 800	3 800
76.200	145.000	51.000	51.000	42.000	3.0	2.5		283 000	410 000	2 600	3 400
	121.442	24.608	23.012	17.462	2.0	2.0		89 000	124 000	2 800	3 800
	127.000	30.162	31.000	22.225	3.5	3.3		134 000	195 000	2 800	3 800
	127.000	30.162	31.001	22.225	6.4	3.3		134 000	195 000	2 800	3 800
	133.350	33.338	33.338	26.195	0.8	3.3		154 000	237 000	2 600	3 600
	135.733	44.450	46.101	34.925	3.5	3.3		216 000	340 000	2 600	3 600
	136.525	30.162	29.769	22.225	3.5	3.3		130 000	192 000	2 600	3 400
	136.525	30.162	29.769	22.225	6.4	3.3		130 000	192 000	2 600	3 400
	139.992	36.512	36.098	28.575	3.5	3.3		175 000	260 000	2 600	3 400
	149.225	53.975	54.229	44.450	3.5	3.3		287 000	410 000	2 600	3 400
	152.400	39.688	36.322	30.162	3.5	3.2		183 000	285 000	2 200	3 200
	152.400	41.275	41.275	31.750	3.5	3.3		207 000	296 000	2 400	3 200
	161.925	49.212	46.038	31.750	3.5	3.3		248 000	290 000	2 200	3 000
	161.925	53.975	55.100	42.862	3.5	3.3		325 000	480 000	2 200	3 000
	161.925	53.975	55.100	42.862	6.4	3.3		325 000	480 000	2 200	3 000
	161.925	53.975	55.100	42.862	6.4	0.8		325 000	480 000	2 200	3 000

Bearing Numbers		Abutment and Fillet Dimensions (mm)						Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	Cone	Cup			Y ₁	Y ₀	approx. CONE	CUP
						r _a max.							
▲ JLM 813049	▲ JLM 813010	78	77	98	105	1	2.5	26.2	0.49	1.2	0.68	0.604	0.304
▲ JLM 612949	▲ JLM 612910	83	77	103	110	3	2.5	26.4	0.43	1.4	0.77	0.800	0.362
484	472	80	78	106	113	2	2	25.1	0.38	1.6	0.86	0.822	0.493
33281	33462	85	79	104	112	3.5	3.3	26.8	0.44	1.4	0.76	0.789	0.442
47490	47420	86	79	107	114	3.5	3.3	26.0	0.36	1.7	0.92	0.983	0.477
567 S	563	92	80	112	120	6.4	3.3	28.3	0.36	1.6	0.91	1.21	0.655
567 A	563	86	80	112	120	3.5	3.3	28.3	0.36	1.6	0.91	1.23	0.655
645	633	93	81	116	124	6.4	3.3	29.9	0.36	1.7	0.91	1.49	0.712
644	632	87	81	118	125	3.5	3.3	29.9	0.36	1.7	0.91	1.5	1.04
H 414249	H 414210	89	83	121	129	3.5	3.3	30.6	0.36	1.7	0.92	1.83	0.796
H 715345	H 715311	92	84	119	132	3.5	3.3	37.1	0.47	1.3	0.70	2.15	0.961
29685	29620	86	80	101	109	3.5	3.3	26.3	0.49	1.2	0.68	0.62	0.273
33287	33462	87	80	104	112	3.5	3.3	26.8	0.44	1.4	0.76	0.746	0.442
567	563	88	81	112	120	3.5	3.3	28.3	0.36	1.6	0.91	1.17	0.655
657	653	91	85	131	139	3.5	3.3	33.2	0.41	1.5	0.81	2.24	0.891
6460	6420	93	87	129	140	3.5	3.3	39.0	0.36	1.7	0.91	2.8	1.63
568	563	83	82	112	120	0.8	3.3	28.3	0.36	1.6	0.91	1.15	0.655
658	653 X	92	86	133	141	3.5	3	33.2	0.41	1.5	0.81	2.37	0.932
▲ JLM 714149	▲ JLM 714110	87	81	104	110	3	2.5	25.3	0.46	1.3	0.72	0.638	0.272
▲ JLM 714249	▲ JLM 714210	88	83	108	115	3	2.5	28.8	0.44	1.4	0.74	0.863	0.436
▲ JH 415647	▲ JH 415610	94	89	129	139	3	2.5	36.7	0.36	1.7	0.91	2.64	1.19
34300	34478	86	84	111	116	2	2	26.3	0.45	1.3	0.73	0.65	0.316
42687	42620	90	84	114	121	3.5	3.3	27.3	0.42	1.4	0.79	1.03	0.438
42688	42620	94	84	114	121	6.4	3.3	27.3	0.42	1.4	0.79	1.01	0.438
47680	47620	86	85	119	128	0.8	3.3	29.0	0.40	1.5	0.82	1.39	0.577
5760	5735	94	88	119	130	3.5	3.3	32.9	0.41	1.5	0.81	1.86	0.887
495 A	493	92	86	122	130	3.5	3.3	28.7	0.44	1.4	0.74	1.27	0.55
495 AX	493	98	86	122	130	6.4	3.3	28.7	0.44	1.4	0.74	1.26	0.55
575	572	92	86	125	133	3.5	3.3	31.1	0.40	1.5	0.82	1.61	0.788
6461	6420	96	89	129	140	3.5	3.3	39.0	0.36	1.7	0.91	2.64	1.63
590 A	592 A	95	89	135	145	3.5	3.2	37.1	0.44	1.4	0.75	2.2	1.06
659	652	93	87	134	141	3.5	3.3	33.2	0.41	1.5	0.81	2.11	1.26
9285	9220	103	90	138	153	3.5	3.3	49.8	0.71	0.85	0.47	2.82	1.4
6576	6535	99	92	141	154	3.5	3.3	40.7	0.40	1.5	0.82	3.74	1.67
6575	6535	104	92	141	154	6.4	3.3	40.7	0.40	1.5	0.82	3.73	1.67
6575	6536	104	92	144	154	6.4	0.8	40.7	0.40	1.5	0.82	3.73	1.68

Note ▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 76.200 – 83.345 mm



Boundary Dimensions (mm)						Basic Load Ratings (N)			Limiting Speeds (min ⁻¹)		
						Cone	Cup				
d	D	T	B	C	r min.			C _r	C _{0r}	Grease	Oil
76.200	168.275	53.975	56.363	41.275	6.4	3.3		345 000	470 000	2 200	3 000
	168.275	53.975	56.363	41.275	0.8	3.3		345 000	470 000	2 200	3 000
	171.450	49.212	46.038	31.750	3.5	3.3		257 000	310 000	2 000	2 800
	177.800	55.562	50.800	34.925	3.5	3.3		257 000	310 000	2 000	2 800
77.788	121.442	24.608	23.012	17.462	3.5	2.0		89 000	124 000	2 800	3 800
	127.000	30.162	31.000	22.225	3.5	3.3		134 000	195 000	2 800	3 800
	135.733	44.450	46.101	34.925	3.5	3.3		216 000	340 000	2 600	3 600
79.375	146.050	41.275	41.275	31.750	3.5	3.3		207 000	296 000	2 400	3 200
	150.089	44.450	46.672	36.512	3.5	3.3		265 000	370 000	2 400	3 200
80.000	130.000	35.000	34.000	28.500	3.0	2.5		166 000	251 000	2 600	3 600
80.962	136.525	30.162	29.769	22.225	3.5	3.3		130 000	192 000	2 600	3 400
	139.700	36.512	36.098	28.575	3.5	3.3		175 000	260 000	2 600	3 400
	139.992	36.512	36.098	28.575	3.5	3.3		175 000	260 000	2 600	3 400
82.550	125.412	25.400	25.400	19.845	3.5	1.5		102 000	164 000	2 600	3 600
	133.350	30.162	29.769	22.225	3.5	3.3		130 000	192 000	2 600	3 400
	133.350	33.338	33.338	26.195	3.5	3.3		154 000	237 000	2 600	3 600
	133.350	33.338	33.338	26.195	0.8	3.3		154 000	237 000	2 600	3 600
	133.350	33.338	33.338	26.195	6.8	3.3		154 000	237 000	2 600	3 600
	133.350	39.688	39.688	32.545	6.8	3.3		179 000	310 000	2 600	3 600
	136.525	30.162	29.769	22.225	3.5	3.3		130 000	192 000	2 600	3 400
	139.700	36.512	36.098	28.575	3.5	3.3		175 000	260 000	2 600	3 400
	139.992	36.512	36.098	28.575	3.5	3.3		175 000	260 000	2 600	3 400
	139.992	36.512	36.098	28.575	6.8	3.3		175 000	260 000	2 600	3 400
83.345	146.050	41.275	41.275	31.750	3.5	3.3		207 000	296 000	2 400	3 200
	150.000	44.455	46.672	35.000	3.5	3.3		265 000	370 000	2 400	3 200
	150.089	44.450	46.672	36.512	3.5	3.3		265 000	370 000	2 400	3 200
	152.400	41.275	41.275	31.750	3.5	3.3		207 000	296 000	2 400	3 200
	161.925	47.625	48.260	38.100	3.5	3.3		274 000	390 000	2 200	3 000
	161.925	53.975	55.100	42.862	3.5	3.3		325 000	480 000	2 200	3 000
	168.275	47.625	48.260	38.100	3.5	3.3		274 000	390 000	2 200	3 000
	168.275	53.975	56.363	41.275	3.5	3.3		345 000	470 000	2 200	3 000
	125.412	25.400	25.400	19.845	3.5	1.5		102 000	164 000	2 600	3 600
	125.412	25.400	25.400	19.845	0.8	1.5		102 000	164 000	2 600	3 600

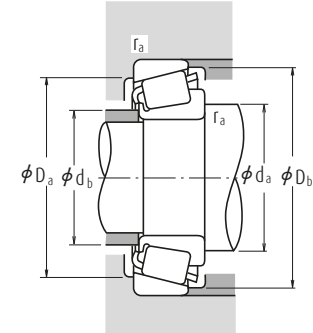
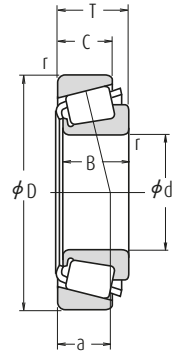
Bearing Numbers		Abutment and Fillet Dimensions (mm)						Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	Cone r _a max.	Cup	a	e	Y ₁	Y ₀	approx. CONE	CUP
843	832	101	89	149	155	6.4	3.3	35.2	0.30	2.0	1.1	4.11	1.74
837	832	90	89	149	155	0.8	3.3	35.2	0.30	2.0	1.1	4.13	1.74
9380	9321	105	98	147	164	3.5	3.3	54.1	0.76	0.79	0.43	3.47	1.51
9378	9320	105	98	148	164	3.5	3.3	57.3	0.76	0.79	0.43	3.71	2.24
34306	34478	90	84	110	116	3.5	2	26.3	0.45	1.3	0.73	0.612	0.316
42690	42620	91	85	114	121	3.5	3.3	27.3	0.42	1.4	0.79	0.976	0.438
5795	5735	96	89	119	130	3.5	3.3	32.9	0.41	1.5	0.81	1.79	0.887
661	653	96	90	131	139	3.5	3.3	33.2	0.41	1.5	0.81	1.99	0.891
750	742	96	90	134	142	3.5	3.3	32.5	0.33	1.8	1.0	2.42	1.07
▲ JM 515649	▲ JM 515610	94	88	117	125	3	2.5	29.9	0.39	1.5	0.85	1.18	0.583
496	493	95	89	122	130	3.5	3.3	28.7	0.44	1.4	0.74	1.13	0.55
581	572 X	96	90	125	133	3.5	3.3	31.1	0.40	1.5	0.82	1.44	0.774
581	572	96	90	125	133	3.5	3.3	31.1	0.40	1.5	0.82	1.44	0.788
27687	27620	96	89	115	120	3.5	1.5	25.7	0.42	1.4	0.79	0.747	0.348
495	492 A	97	90	120	128	3.5	3.3	28.7	0.44	1.4	0.74	1.08	0.434
47686	47620	97	90	119	128	3.5	3.3	29.0	0.40	1.5	0.82	1.18	0.577
47685	47620	90	90	119	128	0.8	3.3	29.0	0.40	1.5	0.82	1.18	0.577
47687	47620	103	90	119	128	6.8	3.3	29.0	0.40	1.5	0.82	1.16	0.577
HM 516448	HM 516410	105	92	118	128	6.8	3.3	32.4	0.40	1.5	0.82	1.35	0.767
495	493	97	90	122	130	3.5	3.3	28.7	0.44	1.4	0.74	1.08	0.55
580	572 X	98	91	125	133	3.5	3.3	31.1	0.40	1.5	0.82	1.39	0.774
580	572	98	91	125	133	3.5	3.3	31.1	0.40	1.5	0.82	1.39	0.788
582	572	104	91	125	133	6.8	3.3	31.1	0.40	1.5	0.82	1.37	0.788
663	653	99	92	131	139	3.5	3.3	33.2	0.41	1.5	0.81	1.85	0.891
749 A	743	99	93	134	142	3.5	3.3	32.5	0.33	1.8	1.0	2.26	1.04
749 A	742	98	93	135	143	3.5	3.3	32.5	0.33	1.8	1.0	2.26	1.07
663	652	99	92	134	141	3.5	3.3	33.2	0.41	1.5	0.81	1.85	1.26
757	752	100	94	144	150	3.5	3.3	35.6	0.34	1.8	0.97	2.79	1.61
6559	6535	104	98	141	154	3.5	3.3	40.7	0.40	1.5	0.82	3.4	1.67
757	753	100	94	147	150	3.5	3.3	35.6	0.34	1.8	0.97	2.79	2.1
842	832	101	94	149	155	3.5	3.3	35.2	0.30	2.0	1.1	3.76	1.74
27690	27620	96	90	115	120	3.5	1.5	25.7	0.42	1.4	0.79	0.727	0.348
27689	27620	90	90	115	120	0.8	1.5	25.7	0.42	1.4	0.79	0.732	0.348

Note ▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)



Bore Diameter 84.138 – 90.488 mm



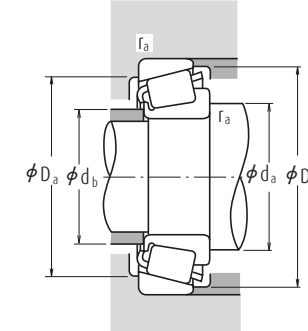
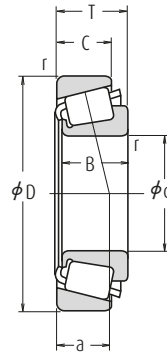
Boundary Dimensions (mm)							Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
d	D	T	B	C	Cone	Cup	C _r	C _{0r}	Grease	Oil
					r min.					
84.138	136.525	30.162	29.769	22.225	3.5	3.3	130 000	192 000	2 600	3 400
	146.050	41.275	41.275	31.750	3.5	3.3	207 000	296 000	2 400	3 200
	171.450	49.212	46.038	31.750	3.5	3.3	257 000	310 000	2 000	2 800
85.000	130.000	30.000	29.000	24.000	6.0	2.5	138 000	222 000	2 600	3 600
	130.000	30.000	29.000	24.000	3.0	2.5	138 000	222 000	2 600	3 600
	140.000	39.000	38.000	31.500	3.0	2.5	202 000	305 000	2 400	3 400
85.026	150.000	46.000	46.000	38.000	3.0	2.5	275 000	390 000	2 400	3 200
	150.089	44.450	46.672	36.512	3.5	3.3	265 000	370 000	2 400	3 200
	150.089	44.450	46.672	36.512	5.0	3.3	265 000	370 000	2 400	3 200
85.725	133.350	30.162	29.769	22.225	3.5	3.3	130 000	192 000	2 600	3 400
	136.525	30.162	29.769	22.225	3.5	3.3	130 000	192 000	2 600	3 400
	142.138	42.862	42.862	34.133	4.8	3.3	221 000	360 000	2 400	3 400
	146.050	41.275	41.275	31.750	6.4	3.3	207 000	296 000	2 400	3 200
	146.050	41.275	41.275	31.750	3.5	3.3	207 000	296 000	2 400	3 200
	152.400	39.688	36.322	30.162	3.5	3.2	183 000	285 000	2 200	3 200
	161.925	47.625	48.260	38.100	3.5	3.3	274 000	390 000	2 200	3 000
	168.275	41.275	41.275	30.162	3.5	3.3	223 000	345 000	2 000	2 800
	87.312	190.500	57.150	57.531	46.038	8.0	3.3	390 000	520 000	1 900
88.900	149.225	31.750	28.971	24.608	3.0	3.3	140 000	218 000	2 200	3 000
	152.400	39.688	36.322	30.162	3.5	3.2	183 000	285 000	2 200	3 200
	152.400	39.688	39.688	30.162	6.4	3.3	253 000	365 000	2 200	3 200
	161.925	47.625	48.260	38.100	3.5	3.3	274 000	390 000	2 200	3 000
	161.925	47.625	48.260	38.100	7.0	3.3	274 000	390 000	2 200	3 000
	161.925	53.975	55.100	42.862	3.5	3.3	325 000	480 000	2 200	3 000
	168.275	47.625	48.260	38.100	3.5	3.3	274 000	390 000	2 200	3 000
	168.275	53.975	56.363	41.275	3.5	3.3	345 000	470 000	2 200	3 000
	190.500	57.150	57.531	44.450	8.0	3.3	355 000	500 000	1 900	2 600
	190.500	57.150	57.531	46.038	8.0	3.3	390 000	520 000	1 900	2 600
	145.000	35.000	34.000	27.000	3.0	2.5	190 000	285 000	2 400	3 200
	147.000	40.000	40.000	32.500	7.0	3.5	229 000	345 000	2 400	3 200
	155.000	44.000	44.000	35.500	3.0	2.5	274 000	395 000	2 200	3 000
	90.488	161.925	47.625	48.260	38.100	3.5	3.3	274 000	390 000	2 200

Bearing Numbers		Abutment and Fillet Dimensions (mm)				Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b			Y ₁	Y ₀	CONE	CUP
498	493	98	91	122	130	3.5	3.3	28.7	0.44	1.4	0.74
664	653	99	93	131	139	3.5	3.3	33.2	0.41	1.5	0.81
9385	9321	111	98	147	164	3.5	3.3	54.1	0.76	0.79	0.43
▲ JM 716648	▲ JM 716610	104	92	117	125	6	2.5	29.5	0.44	1.4	0.74
▲ JM 716649	▲ JM 716610	98	92	117	125	3	2.5	29.5	0.44	1.4	0.74
▲ JHM 516849	▲ JHM 516810	100	94	125	134	3	2.5	33.3	0.41	1.5	0.81
▲ JH 217249	▲ JH 217210	101	95	134	142	3	2.5	33.9	0.33	1.8	0.99
749	742	101	95	134	142	3.5	3.3	32.5	0.33	1.8	1.0
749 S	742	104	95	134	142	5	3.3	32.5	0.33	1.8	1.0
497	492 A	99	93	120	128	3.5	3.3	28.7	0.44	1.4	0.74
497	493	99	93	122	130	3.5	3.3	28.7	0.44	1.4	0.74
HM 617049	HM 617010	106	95	125	137	4.8	3.3	35.4	0.43	1.4	0.76
665 A	653	107	95	131	139	6.4	3.3	33.2	0.41	1.5	0.81
665	653	102	95	131	139	3.5	3.3	33.2	0.41	1.5	0.81
596	592 A	102	96	135	144	3.5	3.2	37.1	0.44	1.4	0.75
758	752	103	97	144	150	3.5	3.3	35.6	0.34	1.8	0.97
677	672	105	99	149	160	3.5	3.3	38.3	0.47	1.3	0.70
HH 221432	HH 221410	118	103	171	179	8	3.3	42.3	0.33	1.8	0.99
42350	42587	104	98	134	143	3	3.3	34.9	0.49	1.2	0.67
593	592 A	104	98	135	144	3.5	3.2	37.1	0.44	1.4	0.75
HM 518445	HM 518410	107	96	137	148	6.4	3.3	33.1	0.40	1.5	0.82
759	752	106	99	144	150	3.5	3.3	35.6	0.34	1.8	0.97
766	752	113	99	144	150	7	3.3	35.6	0.34	1.8	0.97
6580	6535	109	102	141	154	3.5	3.3	40.7	0.40	1.5	0.82
759	753	106	99	147	150	3.5	3.3	35.6	0.34	1.8	0.97
850	832	106	100	149	155	3.5	3.3	35.2	0.30	2.0	1.1
855	854	118	103	170	174	8	3.3	41.8	0.33	1.8	0.99
HH 221434	HH 221410	120	105	171	179	8	3.3	42.3	0.33	1.8	0.99
▲ JM 718149	▲ JM 718110	105	99	131	139	3	2.5	33.0	0.44	1.4	0.74
**HM 218248	**HM 218210	111	98	133	141	7	3.5	30.8	0.33	1.8	0.99
▲ JHM 318448	▲ JHM 318410	106	100	140	148	3	2.5	34.1	0.34	1.7	0.96
760	752	107	101	144	150	3.5	3.3	35.6	0.34	1.8	0.97

Notes * The maximum bore diameter is listed and its tolerance is negative
** The maximum outside diameter is listed and its tolerance is negative
▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 92.075 – 100.012 mm



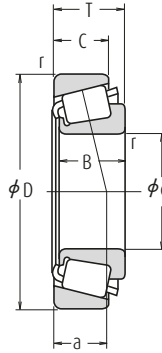
Boundary Dimensions (mm)								Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
					Cone	Cup					
d	D	T	B	C	r min.			C _r	C _{0r}	Grease	Oil
92.075	146.050	33.338	34.925	26.195	3.5	3.3		169 000	280 000	2 400	3 200
	148.430	28.575	28.971	21.433	3.5	3.0		140 000	218 000	2 200	3 000
	152.400	39.688	36.322	30.162	3.5	3.2		183 000	285 000	2 200	3 200
	152.400	39.688	36.322	30.162	6.4	3.2		183 000	285 000	2 200	3 200
	168.275	41.275	41.275	30.162	3.5	3.3		223 000	345 000	2 000	2 800
93.662	190.500	57.150	57.531	44.450	8.0	3.3		355 000	500 000	1 900	2 600
	148.430	28.575	28.971	21.433	3.0	3.0		140 000	218 000	2 200	3 000
	149.225	31.750	28.971	24.608	3.0	3.3		140 000	218 000	2 200	3 000
	152.400	39.688	36.322	30.162	3.5	3.2		183 000	285 000	2 200	3 200
	150.000	35.000	34.000	27.000	3.0	2.5		183 000	285 000	2 200	3 200
95.250	146.050	33.338	34.925	26.195	3.5	3.3		169 000	280 000	2 400	3 200
	148.430	28.575	28.971	21.433	3.0	3.0		140 000	218 000	2 200	3 000
	149.225	31.750	28.971	24.608	3.5	3.3		140 000	218 000	2 200	3 000
	152.400	39.688	36.322	30.162	3.5	3.2		183 000	285 000	2 200	3 200
	152.400	39.688	36.322	33.338	3.5	3.3		183 000	285 000	2 200	3 200
	168.275	41.275	41.275	30.162	3.5	3.3		223 000	345 000	2 000	2 800
	171.450	47.625	48.260	38.100	3.5	3.3		282 000	415 000	2 000	2 800
	180.975	47.625	48.006	38.100	3.5	3.3		258 000	375 000	2 000	2 600
	190.500	57.150	57.531	44.450	8.0	3.3		355 000	500 000	1 900	2 600
	190.500	57.150	57.531	46.038	8.0	3.3		390 000	520 000	1 900	2 600
96.838	148.430	28.575	28.971	21.433	3.5	3.0		140 000	218 000	2 200	3 000
	149.225	31.750	28.971	24.606	3.5	3.3		140 000	218 000	2 200	3 000
98.425	161.925	36.512	36.116	26.195	3.5	3.3		191 000	310 000	2 000	2 800
	168.275	41.275	41.275	30.162	3.5	3.3		223 000	345 000	2 000	2 800
	180.975	47.625	48.006	38.100	3.5	3.3		258 000	375 000	2 000	2 600
	190.500	57.150	57.531	44.450	3.5	3.3		355 000	500 000	1 900	2 600
	190.500	57.150	57.531	46.038	3.5	3.3		390 000	520 000	1 900	2 600
99.982	190.500	57.150	57.531	46.038	6.4	3.3		390 000	520 000	1 900	2 600
	150.000	32.000	30.000	26.000	2.3	2.3		146 000	235 000	2 200	3 000
100.000	155.000	36.000	35.000	28.000	3.0	2.5		191 000	325 000	2 000	2 800
	160.000	41.000	40.000	32.000	3.0	2.5		239 000	380 000	2 000	2 800
100.012	157.162	36.512	36.116	26.195	3.5	3.3		191 000	310 000	2 000	2 800

Bearing Numbers		Abutment and Fillet Dimensions (mm)						Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)		
		Cone		Cup										
CONE	CUP	d _a	d _b	D _a	D _b	r _a	max.	a	e	Y ₁	Y ₀	approx.	CONE	CUP
47890	47820	107	101	131	140	3.5	3.3	32.3	0.45	1.3	0.74	1.46		0.664
42362	42584	107	101	134	142	3.5	3	31.8	0.49	1.2	0.67	1.29		0.553
598	592 A	107	101	135	144	3.5	3.2	37.1	0.44	1.4	0.75	1.6		1.06
598 A	592 A	113	101	135	144	6.4	3.2	37.1	0.44	1.4	0.75	1.59		1.06
681	672	110	104	149	160	3.5	3.3	38.3	0.47	1.3	0.70	2.62		1.24
857	854	121	106	170	174	8	3.3	41.8	0.33	1.8	0.99	4.78		2.55
42368	42584	107	102	134	142	3	3	31.8	0.49	1.2	0.67	1.24		0.553
42368	42587	107	102	134	143	3	3.3	34.9	0.49	1.2	0.67	1.24		0.711
597	592 A	109	102	135	144	3.5	3.2	37.1	0.44	1.4	0.75	1.54		1.06
▲ JM 719149	▲ JM 719113	109	104	135	143	3	2.5	33.4	0.44	1.4	0.75	1.46		0.765
47896	47820	110	103	131	140	3.5	3.3	32.3	0.45	1.3	0.74	1.33		0.664
42375	42584	108	103	134	142	3	3	31.8	0.49	1.2	0.67	1.18		0.553
42376	42587	109	103	134	143	3.5	3.3	34.9	0.49	1.2	0.67	1.18		0.711
594	592 A	110	104	135	144	3.5	3.2	37.1	0.44	1.4	0.75	1.47		1.06
594	592	109	103	135	145	3.5	3.3	37.1	0.44	1.4	0.75	1.47		1.12
683	672	113	106	149	160	3.5	3.3	38.3	0.47	1.3	0.70	2.47		1.24
77375	77675	117	105	152	159	3.5	3.3	37.8	0.37	1.6	0.90	2.91		1.67
776	772	114	107	161	168	3.5	3.3	39.1	0.39	1.6	0.86	3.25		1.99
864	854	123	108	170	174	8	3.3	41.8	0.33	1.8	0.99	4.57		2.55
HH 221440	HH 221410	125	110	171	179	8	3.3	42.3	0.33	1.8	0.99	5.0		2.24
42381	42584	110	104	134	142	3.5	3	31.8	0.49	1.2	0.67	1.13		0.553
42381	42587	111	105	135	143	3.5	3.3	34.9	0.49	1.2	0.67	1.13		0.711
52387	52637	114	108	144	154	3.5	3.3	36.1	0.47	1.3	0.69	1.89		0.942
685	672	116	109	149	160	3.5	3.3	38.3	0.47	1.3	0.70	2.32		1.24
779	772	116	110	161	168	3.5	3.3	39.1	0.39	1.6	0.86	3.06		1.99
866	854	118	111	170	174	3.5	3.3	41.8	0.33	1.8	0.99	4.38		2.55
HH 221442	HH 221410	119	113	171	179	3.5	3.3	42.3	0.33	1.8	0.99	4.81		2.24
HH 221447	HH 221410	126	114	171	179	6.4	3.3	42.3	0.33	1.8	0.99	4.68		2.24
▲ JLM 820048	▲ JLM 820012	111	107	135	144	2.3	2.3	36.8	0.50	1.2	0.66	1.27		0.616
▲ JM 720249	▲ JM 720210	115	109	140	149	3	2.5	36.8	0.47	1.3	0.70	1.68		0.772
▲ JHM 720249	▲ JHM 720210	117	109	143	154	3	2.5	38.2	0.47	1.3	0.70	2.09		0.974
52393	52618	116	109	142	152	3.5	3.3	36.1	0.47	1.3	0.69	1.81		0.702

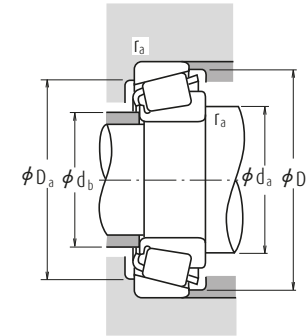
Note ▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 101.600 – 117.475 mm



Boundary Dimensions (mm)							Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)		
					Cone	Cup					
d	D	T	B	C	r min.		C _r	C _{0r}	Grease	Oil	
101.600	157.162	36.512	36.116	26.195	3.5	3.3	191 000	310 000	2 000	2 800	
	161.925	36.512	36.116	26.195	3.5	3.3	191 000	310 000	2 000	2 800	
	168.275	41.275	41.275	30.162	3.5	3.3	223 000	345 000	2 000	2 800	
	180.975	47.625	48.006	38.100	3.5	3.3	258 000	375 000	2 000	2 600	
	190.500	57.150	57.531	44.450	8.0	3.3	355 000	500 000	1 900	2 600	
104.775	190.500	57.150	57.531	46.038	8.0	3.3	390 000	520 000	1 900	2 600	
	212.725	66.675	66.675	53.975	7.0	3.3	570 000	810 000	1 700	2 200	
	180.975	47.625	48.006	38.100	7.0	3.3	258 000	375 000	2 000	2 600	
	180.975	47.625	48.006	38.100	3.5	3.3	258 000	375 000	2 000	2 600	
	190.500	47.625	49.212	34.925	3.5	3.3	296 000	465 000	1 800	2 400	
106.362	165.100	36.512	36.512	26.988	3.5	3.3	195 000	320 000	2 000	2 600	
107.950	158.750	23.020	21.438	15.875	3.5	3.3	102 000	165 000	2 000	2 800	
	159.987	34.925	34.925	26.988	3.5	3.3	164 000	315 000	2 000	2 800	
	161.925	34.925	34.925	26.988	3.5	3.3	164 000	280 000	2 000	2 800	
	165.100	36.512	36.512	26.988	3.5	3.3	195 000	320 000	2 000	2 600	
	190.500	47.625	49.212	34.925	3.5	3.3	296 000	465 000	1 800	2 400	
109.987	212.725	66.675	66.675	53.975	8.0	3.3	570 000	810 000	1 700	2 200	
	159.987	34.925	34.925	26.988	3.5	3.3	164 000	315 000	2 000	2 800	
	159.987	34.925	34.925	26.988	8.0	3.3	164 000	315 000	2 000	2 800	
	109.992	177.800	41.275	41.275	30.162	3.5	3.3	232 000	375 000	1 800	2 600
	110.000	165.000	35.000	35.000	26.500	3.0	2.5	195 000	320 000	2 000	2 600
111.125	180.000	47.000	46.000	38.000	3.0	2.5	310 000	490 000	1 900	2 600	
	190.500	47.625	49.212	34.925	3.5	3.3	296 000	465 000	1 800	2 400	
	114.300	152.400	21.433	21.433	16.670	1.5	1.5	89 500	178 000	2 000	2 800
	177.800	41.275	41.275	30.162	3.5	3.3	232 000	375 000	1 800	2 600	
	180.000	34.925	31.750	25.400	3.5	0.8	174 000	254 000	1 800	2 400	
115.087	190.500	47.625	49.212	34.925	3.5	3.3	296 000	465 000	1 800	2 400	
	212.725	66.675	66.675	53.975	7.0	3.3	475 000	700 000	1 700	2 400	
	212.725	66.675	66.675	53.975	7.0	3.3	570 000	810 000	1 700	2 200	
	115.087	190.500	47.625	49.212	34.925	3.5	3.3	296 000	465 000	1 800	2 400
	117.475	180.975	34.925	31.750	25.400	3.5	3.3	174 000	254 000	1 800	2 400



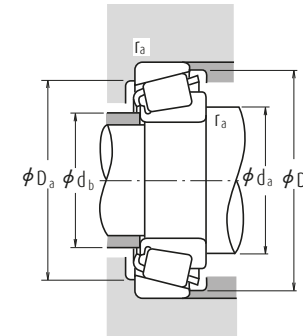
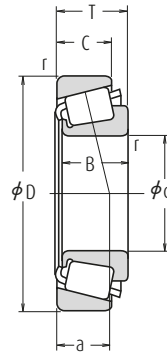
Bearing Numbers		Abutment and Fillet Dimensions (mm)						Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
					Cone	Cup							
CONE	CUP	d _a	d _b	D _a	D _b	r _a	max.	a	e	Y ₁	Y ₀	approx.	
												CONE	CUP
52400	52618	117	111	142	152	3.5	3.3	36.1	0.47	1.3	0.69	1.75	0.702
52400	52637	117	111	144	154	3.5	3.3	36.1	0.47	1.3	0.69	1.75	0.942
687	672	118	112	149	160	3.5	3.3	38.3	0.47	1.3	0.70	2.15	1.24
780	772	119	113	161	168	3.5	3.3	39.1	0.39	1.6	0.86	2.88	1.99
861	854	129	114	170	174	8	3.3	41.8	0.33	1.8	0.99	4.13	2.55
HH 221449	HH 221410	131	116	171	179	8	3.3	42.3	0.33	1.8	0.99	4.55	2.24
HH 224335	HH 224310	132	121	192	202	7	3.3	47.3	0.33	1.8	1.0	8.14	3.06
787	772	129	116	161	168	7	3.3	39.1	0.39	1.6	0.86	2.66	1.99
782	772	122	116	161	168	3.5	3.3	39.1	0.39	1.6	0.86	2.68	1.99
71412	71750	124	118	171	181	3.5	3.3	40.1	0.42	1.4	0.79	4.0	1.71
56418	56650	122	116	149	159	3.5	3.3	38.6	0.50	1.2	0.66	1.87	0.861
37425	37625	122	115	143	152	3.5	3.3	37.0	0.61	0.99	0.54	0.886	0.488
LM 522546	LM 522510	122	116	146	154	3.5	3.3	33.7	0.40	1.5	0.82	1.65	0.784
48190	48120	122	116	146	156	3.5	3.3	38.7	0.51	1.2	0.65	1.59	0.83
56425	56650	123	117	149	159	3.5	3.3	38.6	0.50	1.2	0.66	1.8	0.861
71425	71750	126	120	171	181	3.5	3.3	40.1	0.42	1.4	0.79	3.79	1.71
HH 224340	HH 224310	139	126	192	202	8	3.3	47.3	0.33	1.8	1.0	7.58	3.06
LM 522549	LM 522510	124	118	146	154	3.5	3.3	33.7	0.40	1.5	0.82	1.55	0.784
LM 522548	LM 522510	133	118	146	154	8	3.3	33.7	0.40	1.5	0.82	1.53	0.784
64433	64700	128	121	160	172	3.5	3.3	42.4	0.52	1.2	0.64	2.64	1.11
▲ JM 822049	▲ JM 822010	124	119	149	159	3	2.5	38.3	0.50	1.2	0.66	1.64	0.842
▲ JHM 522649	▲ JHM 522610	127	122	162	172	3	2.5	40.9	0.41	1.5	0.81	3.12	1.51
71437	71750	129	123	171	181	3.5	3.3	40.1	0.42	1.4	0.79	3.58	1.71
L 623149	L 623110	123	121	143	148	1.5	1.5	27.4	0.41	1.5	0.80	0.725	0.344
64450	64700	131	125	160	172	3.5	3.3	42.4	0.52	1.2	0.64	2.39	1.11
68450	** 68709	130	123	165	172	3.5	0.8	40.0	0.50	1.2	0.66	1.95	1.0
71450	71750	132	125	171	181	3.5	3.3	40.1	0.42	1.4	0.79	3.37	1.71
938	932	141	128	187	193	7	3.3	46.9	0.33	1.8	1.0	6.01	4.11
HH 224346	HH 224310	143	131	192	202	7	3.3	47.3	0.33	1.8	1.0	7.01	3.06
71453	71750	133	126	171	181	3.5	3.3	40.1	0.42	1.4	0.79	3.31	1.71
68462	68712	132	125	163	172	3.5	3.3	40.0	0.50	1.2	0.66	1.73	1.05

Notes ** The maximum outside diameter is listed and its tolerance is negative

▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 120.000 – 165.100 mm



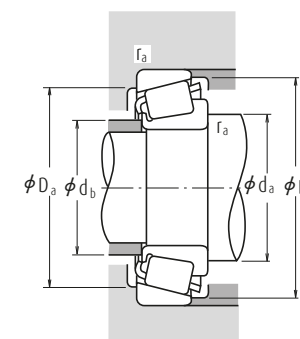
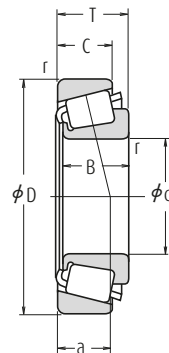
Boundary Dimensions (mm)								Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
					Cone	Cup					
d	D	T	B	C	r min.			C _r	C _{0r}	Grease	Oil
120.000	170.000	25.400	25.400	19.050	3.3	3.3		130 000	219 000	1 900	2 600
	174.625	35.720	36.512	27.783	3.5	1.5		212 000	385 000	1 900	2 600
120.650	182.562	39.688	38.100	33.338	3.5	3.3		228 000	445 000	1 800	2 400
	206.375	47.625	47.625	34.925	3.3	3.3		320 000	530 000	1 600	2 200
123.825	182.562	39.688	38.100	33.338	3.5	3.3		228 000	445 000	1 800	2 400
125.000	175.000	25.400	25.400	18.288	3.3	3.3		134 000	232 000	1 800	2 400
127.000	165.895	18.258	17.462	13.495	1.5	1.5		84 500	149 000	1 900	2 600
	182.562	39.688	38.100	33.338	3.5	3.3		228 000	445 000	1 800	2 400
	196.850	46.038	46.038	38.100	3.5	3.3		315 000	560 000	1 700	2 200
	215.900	47.625	47.625	34.925	3.5	3.3		287 000	495 000	1 500	2 000
128.588	206.375	47.625	47.625	34.925	3.3	3.3		320 000	530 000	1 600	2 200
130.000	206.375	47.625	47.625	34.925	3.5	3.3		320 000	530 000	1 600	2 200
130.175	203.200	46.038	46.038	38.100	3.5	3.3		315 000	560 000	1 700	2 200
	206.375	47.625	47.625	34.925	3.5	3.3		320 000	530 000	1 600	2 200
133.350	177.008	25.400	26.195	20.638	1.5	1.5		124 000	258 000	1 800	2 400
	190.500	39.688	39.688	33.338	3.5	3.3		240 000	485 000	1 700	2 200
	196.850	46.038	46.038	38.100	3.5	3.3		315 000	560 000	1 700	2 200
	215.900	47.625	47.625	34.925	3.5	3.3		287 000	495 000	1 500	2 000
136.525	190.500	39.688	39.688	33.338	3.5	3.3		216 000	440 000	1 700	2 200
	217.488	47.625	47.625	34.925	3.5	3.3		287 000	495 000	1 500	2 000
139.700	187.325	28.575	29.370	23.020	1.5	1.5		153 000	305 000	1 700	2 200
	215.900	47.625	47.625	34.925	3.5	3.3		287 000	495 000	1 500	2 000
	254.000	66.675	66.675	47.625	7.0	3.3		515 000	830 000	1 300	1 800
142.875	200.025	41.275	39.688	34.130	3.5	3.3		227 000	460 000	1 600	2 200
146.050	193.675	28.575	28.575	23.020	1.5	1.5		170 000	355 000	1 600	2 200
	236.538	57.150	56.642	44.450	3.5	3.3		455 000	720 000	1 400	1 900
	254.000	66.675	66.675	47.625	7.0	3.3		515 000	830 000	1 300	1 800
149.225	254.000	66.675	66.675	47.625	7.0	3.3		515 000	830 000	1 300	1 800
152.400	254.000	66.675	66.675	47.625	7.0	3.3		515 000	830 000	1 300	1 800
158.750	225.425	41.275	39.688	33.338	3.5	3.3		240 000	540 000	1 400	1 900
165.100	247.650	47.625	47.625	38.100	3.5	3.3		345 000	705 000	1 300	1 700

Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)		
CONE	CUP	d _a	d _b	D _a	D _b	Cone			Cup	Y ₁	Y ₀	approx.	
						r _a max.		CONE	CUP				
▲ JL 724348	▲ JL 724314	132	127	156	163	3.3	3.3	32.9	0.46	1.3	0.72	1.08	0.591
* M 224748	M 224710	135	129	163	168	3.5	1.5	32.2	0.33	1.8	0.99	1.9	0.866
48282	48220	136	133	168	176	3.5	3.3	34.2	0.31	2.0	1.1	2.56	1.14
795	792	139	134	186	198	3.3	3.3	45.7	0.46	1.3	0.72	4.44	1.9
48286	48220	139	133	168	176	3.5	3.3	34.2	0.31	2.0	1.1	2.37	1.14
▲ JL 725346	▲ JL 725316	138	133	161	168	3.3	3.3	34.3	0.48	1.3	0.69	1.19	0.573
LL 225749	LL 225710	135	132	158	160	1.5	1.5	24.2	0.33	1.8	0.99	0.647	0.288
48290	48220	141	135	168	176	3.5	3.3	34.2	0.31	2.0	1.1	2.19	1.14
67388	67322	144	138	180	189	3.5	3.3	39.7	0.34	1.7	0.96	3.74	1.46
74500	74850	148	141	196	208	3.5	3.3	48.4	0.49	1.2	0.68	4.92	1.99
799	792	146	140	186	198	3.3	3.3	45.7	0.46	1.3	0.72	3.86	1.9
797	792	148	141	186	198	3.5	3.3	45.7	0.46	1.3	0.72	3.76	1.9
67389	67320	146	141	183	191	3.5	3.3	39.7	0.34	1.7	0.96	3.51	2.06
799 A	792	148	142	186	198	3.5	3.3	45.7	0.46	1.3	0.72	3.74	1.9
L 327249	L 327210	143	141	167	171	1.5	1.5	29.5	0.35	1.7	0.95	1.18	0.55
48385	48320	148	142	177	184	3.5	3.3	35.9	0.32	1.9	1.0	2.58	1.16
67390	67322	149	143	180	189	3.5	3.3	39.7	0.34	1.7	0.96	3.27	1.46
74525	74850	152	146	196	208	3.5	3.3	48.4	0.49	1.2	0.68	4.44	1.99
48393	48320	151	144	177	184	3.5	3.3	35.9	0.32	1.9	1.0	2.31	1.16
74537	74856	155	148	197	210	3.5	3.3	48.4	0.49	1.2	0.68	4.19	2.13
LM 328448	LM 328410	149	147	176	182	1.5	1.5	31.7	0.36	1.7	0.93	1.59	0.67
74550	74850	158	151	196	208	3.5	3.3	48.4	0.49	1.2	0.68	3.93	1.99
99550	99100	170	156	227	238	7	3.3	55.3	0.41	1.5	0.81	9.99	3.83
48685	48620	158	151	185	193	3.5	3.3	37.6	0.34	1.8	0.98	2.63	1.19
36690	36620	155	154	182	188	1.5	1.5	33.5	0.37	1.6	0.90	1.64	0.725
HM 231140	HM 231110	164	160	217	224	3.5	3.3	45.9	0.32	1.9	1.0	6.07	2.93
99575	99100	175	162	227	238	7	3.3	55.3	0.41	1.5	0.81	9.24	3.83
99587	99100	178	165	227	238	7	3.3	55.3	0.41	1.5	0.81	8.86	3.83
99600	99100	181	167	227	238	7	3.3	55.3	0.41	1.5	0.81	8.46	3.83
46780	46720	176	169	209	218	3.5	3.3	44.3	0.38	1.6	0.86	3.69	1.66
67780	67720	185	179	229	240	3.5	3.3	52.4	0.44	1.4	0.75	5.83	2.33

Notes * The maximum bore diameter is listed and its tolerance is negative
▲ The tolerances are listed

Single-Row Tapered Roller Bearings (Inch Design)

Bore Diameter 170.000 – 206.375 mm



Boundary Dimensions (mm)					Cone		Cup		Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)	
d	D	T	B	C	r min.	r max.	C _r	C _{0r}	Grease	Oil		
170.000	230.000	39.000	38.000	31.000	3.0	2.5	278 000	520 000	1 300	1 800		
	240.000	46.000	44.500	37.000	3.0	2.5	380 000	720 000	1 300	1 800		
174.625	247.650	47.625	47.625	38.100	3.5	3.3	345 000	705 000	1 300	1 700		
177.800	227.012	30.162	30.162	23.020	1.5	1.5	181 000	415 000	1 300	1 800		
	247.650	47.625	47.625	38.100	3.5	3.3	345 000	705 000	1 300	1 700		
	260.350	53.975	53.975	41.275	3.5	3.3	455 000	835 000	1 200	1 700		
190.000	260.000	46.000	44.000	36.500	3.0	2.5	370 000	730 000	1 100	1 600		
190.500	266.700	47.625	46.833	38.100	3.5	3.3	345 000	720 000	1 100	1 500		
200.000	300.000	65.000	62.000	51.000	3.5	2.5	615 000	1 130 000	1 000	1 400		
203.200	282.575	46.038	46.038	36.512	3.5	3.3	365 000	800 000	1 000	1 400		
206.375	282.575	46.038	46.038	36.512	3.5	3.3	365 000	800 000	1 000	1 400		

Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)		Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d _a	d _b	D _a	D _b	r _a max.	a	e		Y ₁	Y ₀	approx. CONE	approx. CUP
▲ JHM 534149	▲ JHM 534110	184	178	217	224	3	2.5	43.2	0.38	1.6	0.86	3.1	1.3
▲ JM 734449	▲ JM 734410	185	180	222	232	3	2.5	50.5	0.44	1.4	0.75	4.42	2.02
67787	67720	192	185	229	240	3.5	3.3	52.4	0.44	1.4	0.75	4.88	2.33
36990	36920	189	186	214	221	1.5	1.5	42.9	0.44	1.4	0.75	2.1	0.907
67790	67720	194	188	229	240	3.5	3.3	52.4	0.44	1.4	0.75	4.56	2.33
M 236849	M 236810	195	192	241	249	3.5	3.3	47.5	0.33	1.8	0.99	6.49	2.86
▲ JM 738249	▲ JM 738210	206	200	242	252	3	2.5	56.4	0.48	1.3	0.69	4.73	2.2
67885	67820	209	203	246	259	3.5	3.3	57.9	0.48	1.3	0.69	5.4	2.64
▲ JHM 840449	▲ JHM 840410	223	215	273	289	3.5	2.5	73.1	0.52	1.2	0.63	10.3	5.19
67983	67920	222	216	260	275	3.5	3.3	61.9	0.51	1.2	0.65	6.03	2.82
67985	67920	224	219	260	275	3.5	3.3	61.9	0.51	1.2	0.65	5.66	2.82

Note ▲ The tolerances are listed