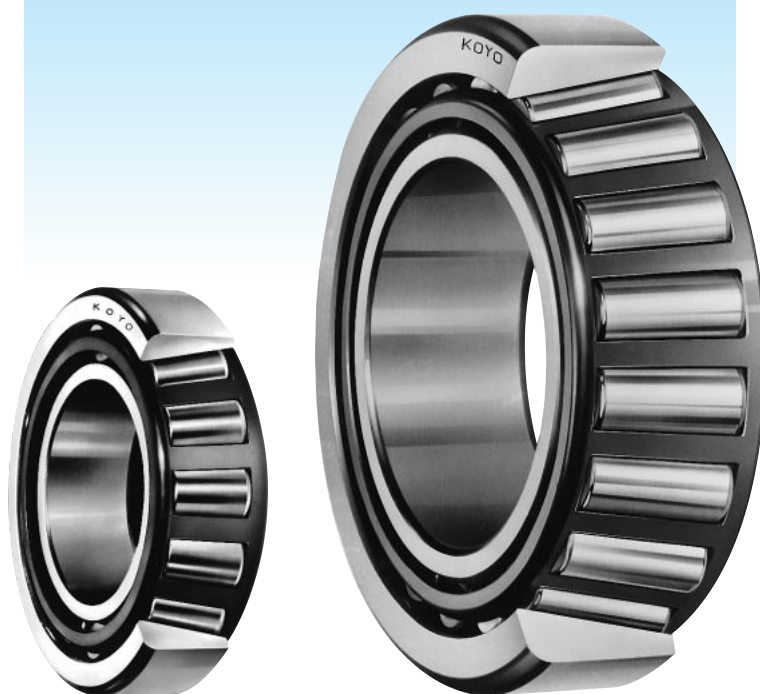


KOYO

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Tapered roller bearings

Tapered roller bearings are designed such that cup, cone and rollers have tapered surfaces whose apexes converge at a common point on the bearing axis.

Along with metric series bearings, inch series bearings are also available.

This type of bearing is suitable for applications that involve heavy or impact loading.

■ Tapered roller bearings

- Able to carry radial and axial load in one direction simultaneously.

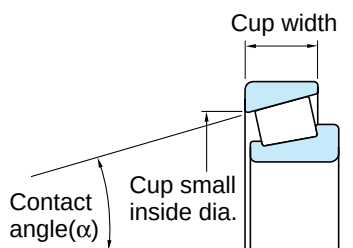
Because an axial component of force is produced when this type of bearing is loaded radially, two bearings are used together facing one another, or two or more bearings are matched and used.

- There are the standard, medium and steep type which are different in contact angle size.

Medium-tapered metric series bearings are identified by the supplementary code "C" which is added as a suffix to bearing numbers.

- Bearings whose cup width, cup small inside diameter and contact angle are determined in accordance with ISO 355 specifications are identified by the supplementary code "J" as a suffix.

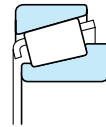
Cone assemblies and the cups of such bearings are inter-changeable with those of bearings produced abroad if the bearing numbers are the same.



ISO sub-unit specifications

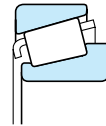
Note : When supplementary code "J" is added as a prefix (not a suffix) to bearing numbers (e.g. JHM720249/JHM720210), the bearings are not designed according to ISO 355. Such bearings are called "J series metric tapered roller bearings," and are produced according to special tolerances.

Tapered roller bearings



Metric series

Bore diameter **15 – 200 mm**



Inch series

(including J series metric bearing)

Bore diameter **15.875 – 200.000 mm**

Tapered roller bearings

Boundary dimensions	Metric single-row tapered roller bearings : as specified in JIS B 1512.		
	Reference	JIS B 1512 specifies new dimension series which are based on ISO 355, as well as the conventional "3XX" dimension series. These new dimension series are as follows :	
	New dimension series		
	(1) Angle series		
	Angle series	Contact angle α	
		over	up to
	2	10°	13°52'
	3	13°52'	15°59'
	4	15°59'	18°55'
	5	18°55'	23°
	6	23°	27°
	7	27°	30°
	(2) Diameter series		
	Diameter series	$D/ (d^{0.77})$	
		over	up to
	B	3.40	3.80
	C	3.80	4.40
	D	4.40	4.70
	E	4.70	5.00
	F	5.00	5.60
	G	5.60	7.00
	(3) Width series		
	Width series	$T/ \{(D-d)^{0.95}\}$	
		over	up to
	B	0.50	0.68
	C	0.68	0.80
	D	0.80	0.88
	E	0.88	1.00
	Remarks :		
	1. Combine these series symbols in the listed order to make the dimension series numbers. (ex. 2BC)		
	2. Bearing numbers consist of a dimension series number and a bore diameter which is added as a suffix. (ex. 2BC080 : bearing bore diameter 80 mm)		
Tolerances	• Metric series single-row tapered roller bearings as specified in JIS B 1514. • Inch series tapered roller bearings as specified in ABMA Section 19. • J series metric tapered roller bearings the tolerance is specified separately.		
Standard cage	Pressed steel cage (supplementary code : //) (Some large size bearings have a pin type cage (FP) instead.)		
Allowable misalignment	Single-row tapered roller bearings : 0.000 9 rad (3') (If the misalignment exceeds this angle size, Koyo is ready to design special bearings to order.)		

Equivalent radial load	■ Single-row tapered roller bearings
	Dynamic equivalent radial load $\left[\text{when } \frac{F_a}{F_r} \leq e \right] P_r = F_r$
	$\left[\text{when } \frac{F_a}{F_r} > e \right] P_r = 0.4F_r + Y_1 F_a$
	Static equivalent radial load $P_{0r} = 0.5F_r + Y_0 F_a$ when $P_{0r} < F_r$, $P_{0r} = F_r$
	■ Double-row or four-row tapered roller bearings
	Dynamic equivalent radial load $\left[\text{when } \frac{F_a}{F_r} \leq e \right] P_r = F_r + Y_2 F_a$
	$\left[\text{when } \frac{F_a}{F_r} > e \right] P_r = 0.67F_r + Y_3 F_a$
	Static equivalent radial load $P_{0r} = F_r + Y_0 F_a$

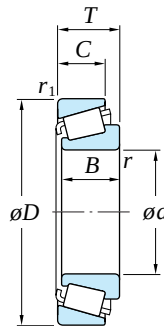
Remarks) 1. When two single-row tapered roller bearings are used together facing one another, an axial component of force is produced under radial load.

2. When the load is too small, slippage occurs between the rollers and raceways, causing smearing to develop. This also occurs to matched pair bearings when the ratio of axial load to radial load exceeds the value e shown in the specification table ($F_a / F_r > e$).

Consult Koyo on use of bearings under such conditions.

Tapered roller bearings metric series

d 15 – 30 mm



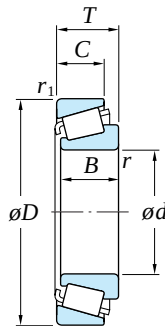
Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	(Refer.) Dimension series to ISO355	(Refer.) Mass (kg)
d	D	T	B	C	$r_{min.}$	$r_{1min.}$	C_r	C_{0r}	Grease lub.	Oil lub.			
15	35	11.75	11	10	0.6	0.6	15.8	14.5	12 000	16 000	30202R 30302JR	–	0.054
	42	14.25	13	11	1	1	21.9	19.2	10 000	14 000		2FB	0.098
17	40	13.25	12	11	1	1	20.8	20.7	10 000	14 000	30203JR	2DB	0.081
	40	17.25	16	14	1	1	27.4	27.5	10 000	14 000	32203JR	2DD	0.104
	47	15.25	14	12	1	1	27.4	24.5	9 200	12 000	30303R	–	0.127
	47	20.25	19	16	1	1	31.9	29.9	9 400	13 000	32303	–	0.170
20	42	15	15	12	0.6	0.6	27.3	31.5	9 700	13 000	32004JR	3CC	0.102
	47	15.25	14	12	1	1	25.8	25.5	9 000	12 000	57008R	–	0.125
	47	15.25	14	12	1	1	27.0	27.2	8 700	12 000	30204JR	2DB	0.127
	47	19.25	18	15	1	1	33.1	34.7	8 900	12 000	32204JR	2DD	0.159
	52	16.25	16	13	1.5	1.5	36.2	35.1	8 300	11 000	30304AJR	–	0.179
	52	22.25	21	18	1.5	1.5	45.1	46.7	8 400	11 000	32304JR	2FD	0.244
22	44	15	15	11.5	0.6	0.6	28.3	33.6	9 100	12 000	320/22JR	3CC	0.108
25	47	15	15	11.5	0.6	0.6	30.2	37.7	8 300	11 000	32005JR	4CC	0.118
	47	17	17	14	0.6	0.6	33.5	42.3	8 300	11 000	33005JR	2CE	0.131
	52	16.25	15	13	1	1	31.5	33.7	7 800	10 000	30205JR	3CC	0.156
	52	19.25	18	16	1	1	39.8	44.8	7 900	11 000	32205JR	2CD	0.188
	52	22	22	18	1	1	48.9	58.5	7 900	10 000	33205JR	2DE	0.225
	62	18.25	17	13	1.5	1.5	39.8	42.5	5 700	8 000	30305DJR	7FB	0.269
28	62	18.25	17	14	1.5	1.5	45.0	45.8	6 700	9 000	TR0506R	–	0.275
	62	18.25	17	15	1.5	1.5	48.2	46.9	6 800	9 000	30305JR	2FB	0.273
	62	25.25	24	20	1.5	1.5	61.2	64.1	6 900	9 100	32305JR	2FD	0.386
	52	16	16	12	1	1	35.2	44.0	7 500	10 000	320/28JR	4CC	0.150
30	55	17	17	13	1	1	38.2	48.0	7 000	9 400	32006JR	4CC	0.177
	55	20	20	16	1	1	43.2	55.2	7 000	9 400	33006JR	2CE	0.203
	62	17.25	16	14	1	1	41.5	44.8	6 500	8 700	30206JR	3DB	0.236
	62	21.25	20	17	1	1	50.7	57.9	6 500	8 700	32206JR	3DC	0.292
	62	25	25	19.5	1	1	66.4	79.4	6 500	8 700	33206JR	2DE	0.359
	72	20.75	19	14	1.5	1.5	50.9	54.9	4 900	6 800	30306DJR	7FB	0.400
	72	20.75	19	16	1.5	1.5	56.5	55.2	5 900	7 900	TRA0607R	–	0.405
	72	20.75	19	16	1.5	1.5	59.6	60.1	5 800	7 700	30306JR	2FB	0.411
	72	28.75	27	23	1.5	1.5	82.2	91.6	5 900	7 900	32306JR	2FD	0.588

d 32 – (55) mm

Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	(Refer.) Dimension series to ISO355	(Refer.) Mass (kg)
d	D	T	B	C	r _{min.}	r _{1 min.}	C _r	C _{0r}	Grease lub.	Oil lub.			
32	58	17	17	13	1	1	39.2	50.6	6 700	8 900	320/32JR	4CC	0.196
	65	22.25	21	18	1	1	51.6	57.7	6 200	8 200	322/32	—	0.330
	75	29.75	28	23	1.5	1.5	75.1	87.1	5 600	7 400	TR0608A	5FD	0.649
35	62	18	18	14	1	1	45.5	59.4	6 200	8 200	32007JR	4CC	0.231
	62	21	21	17	1	1	51.3	68.0	6 200	8 200	33007JR	2CE	0.263
	72	18.25	17	15	1.5	1.5	55.1	60.9	5 600	7 400	30207JR	3DB	0.344
	72	24.25	23	19	1.5	1.5	69.6	82.4	5 600	7 500	32207JR	3DC	0.453
	72	28	28	22	1.5	1.5	87.6	107	5 700	7 500	33207JR	2DE	0.551
	80	22.75	21	15	2	1.5	63.1	69.1	4 300	6 000	30307DJR	7FB	0.536
	80	22.75	21	18	2	1.5	76.2	78.9	5 200	6 900	30307JR-1	2FB	0.527
	80	32.75	31	25	2	1.5	96.9	123	5 200	7 000	TR0708-1R	—	0.830
	80	32.75	31	25	2	1.5	101	114	5 300	7 000	32307JR	2FE	0.776
	68	19	19	14.5	1	1	53.5	71.4	5 600	7 400	32008JR	3CD	0.282
	68	22	22	18	1	1	60.4	84.6	5 500	7 400	33008JR	2BE	0.326
	75	26	26	20.5	1.5	1.5	82.2	108	5 200	6 900	33108JR	2CE	0.508
40	80	19.75	18	16	1.5	1.5	62.9	69.2	5 000	6 700	30208JR	3DB	0.434
	80	24.75	23	19	1.5	1.5	77.7	90.8	5 000	6 600	32208JR	3DC	0.554
	80	32	32	25	1.5	1.5	108	139	5 000	6 700	33208JR	2DE	0.758
	90	25.25	23	17	2	1.5	80.5	90.2	3 800	5 300	30308DJR	7FB	0.757
	90	25.25	23	20	2	1.5	90.6	101	4 500	6 100	30308JR	2FB	0.757
	90	35.25	33	26	2	1.5	112	138	4 700	6 200	TR0809AR	—	1.10
	90	35.25	33	27	2	1.5	116	139	4 600	6 200	32308JR	2FD	1.06
	75	20	20	15.5	1	1	62.8	86.5	5 000	6 600	32009JR	3CC	0.354
	75	24	24	19	1	1	69.6	101	5 000	6 700	33009JR	2CE	0.416
	80	26	26	20.5	1.5	1.5	87.5	120	4 800	6 400	33109JR	3CE	0.563
	85	20.75	19	16	1.5	1.5	67.2	77.4	4 600	6 100	30209JR	3DB	0.502
	85	24.75	23	19	1.5	1.5	84.2	104	4 600	6 100	32209JR-1	3DC	0.597
45	85	32	32	25	1.5	1.5	112	149	4 600	6 200	33209JR	3DE	0.818
	100	27.25	25	18	2	1.5	95.1	107	3 400	4 700	30309DJR	7FB	0.973
	100	27.25	25	22	2	1.5	113	128	4 100	5 400	30309JR	2FB	1.01
	100	38.25	36	30	2	1.5	146	180	4 100	5 500	32309JR	2FD	1.43
	72	15	15	12	0.6	0.6	35.9	56.3	4 900	6 600	32910JR	2BC	0.195
	80	20	20	15.5	1	1	65.7	94.5	4 600	6 100	32010JR	3CC	0.389
	80	24	24	19	1	1	73.0	110	4 600	6 100	33010JR	2CE	0.451
	85	26	26	20	1.5	1.5	89.4	127	4 400	5 900	33110JR	3CE	0.594
	90	21.75	20	17	1.5	1.5	76.5	91.7	4 300	5 700	30210JR	3DB	0.566
	90	24.75	23	19	1.5	1.5	85.0	105	4 300	5 700	32210JR	3DC	0.643
	90	32	32	24.5	1.5	1.5	119	167	4 300	5 700	33210JR	3DE	0.887
	110	29.25	27	19	2.5	2	115	133	3 100	4 300	30310DJR	7FB	1.25
50	110	29.25	27	23	2.5	2	137	152	3 700	4 900	30310JR	2FB	1.32
	110	42.25	40	33	2.5	2	176	220	3 700	5 000	32310JR	2FD	1.89
	80	17	17	14	1	1	44.6	73.3	4 400	5 900	32911JR	2BC	0.285
	90	23	23	17.5	1.5	1.5	84.6	121	4 100	5 500	32011JR	3CC	0.569
	90	27	27	21	1.5	1.5	96.5	149	4 100	5 400	33011JR	2CE	0.672
	95	30	30	23	1.5	1.5	116	161	4 000	5 300	33111JR	3CE	0.868
	100	22.75	21	18	2	1.5	94.6	113	3 900	5 200	30211JR	3DB	0.732
	100	26.75	25	21	2	1.5	107	133	3 900	5 200	32211JR-1	3DC	0.863
	100	35	35	27	2	1.5	142	189	3 900	5 200	33211JR	3DE	1.18
	120	31.5	29	21	2.5	2	129	148	2 900	4 000	30311DJR	7FB	1.59

Tapered roller bearings metric series

d (55) – 70 mm



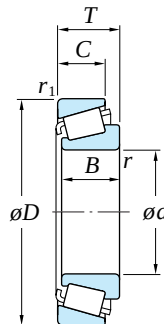
Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	(Refer.) Dimension series to ISO355	(Refer.) Mass (kg)
d	D	T	B	C	$r_{min.}$	$r_{1min.}$	C_r	C_{0r}	Grease lub.	Oil lub.			
55	120	31.5	29	25	2.5	2	149	170	3 300	4 500	30311JR	2FB	1.65
	120	45.5	43	35	2.5	2	200	250	3 400	4 500	32311JR	2FD	2.38
60	85	17	17	14	1	1	46.2	78.2	4 100	5 500	32912JR	2BC	0.306
	95	23	23	17.5	1.5	1.5	86.1	127	3 900	5 200	32012JR	4CC	0.621
	95	27	27	21	1.5	1.5	101	162	3 900	5 200	33012JR	2CE	0.719
	100	30	30	23	1.5	1.5	118	170	3 700	5 000	33112JR	3CE	0.923
	110	23.75	22	19	2	1.5	106	127	3 500	4 700	30212JR	3EB	0.945
	110	29.75	28	24	2	1.5	132	167	3 500	4 700	32212JR	3EC	1.19
	110	38	38	29	2	1.5	174	239	3 600	4 700	33212JR	3EE	1.57
	130	33.5	31	22	3	2.5	153	179	2 600	3 700	30312DJR	7FB	2.01
	130	33.5	31	26	3	2.5	173	201	3 100	4 100	30312JR	2FB	2.08
	130	48.5	46	37	3	2.5	244	315	3 100	4 200	32312JR	2FD	2.99
	90	17	17	14	1	1	47.4	83.1	3 900	5 200	32913JR	2BC	0.327
	100	23	23	17.5	1.5	1.5	90.0	137	3 600	4 800	32013JR	4CC	0.664
	100	27	27	21	1.5	1.5	103	169	3 600	4 800	33013JR	2CE	0.762
65	110	34	34	26.5	1.5	1.5	152	223	3 400	4 600	33113JR	3DE	1.33
	120	24.75	23	20	2	1.5	128	156	3 200	4 300	30213JR	3EB	1.18
	120	32.75	31	27	2	1.5	157	203	3 200	4 300	32213JR	3EC	1.58
	120	41	41	32	2	1.5	200	277	3 200	4 300	33213JR	3EE	2.02
	140	36	33	23	3	2.5	176	209	2 400	3 400	30313DJR	7GB	2.44
	140	36	33	28	3	2.5	204	239	2 800	3 800	30313JR	2GB	2.56
	140	51	48	39	3	2.5	276	357	2 900	3 900	32313JR	2GD	3.64
	100	20	20	16	1	1	71.0	115	3 500	4 700	32914JR	2BC	0.496
	110	25	25	19	1.5	1.5	108	163	3 300	4 400	32014JR	4CC	0.884
	110	31	31	25.5	1.5	1.5	134	208	3 300	4 400	33014JR	2CE	1.09
	120	37	37	29	2	1.5	181	266	3 100	4 200	33114JR	3DE	1.71
	125	26.25	24	21	2	1.5	138	173	3 100	4 100	30214JR	3EB	1.32
	125	33.25	31	27	2	1.5	169	225	3 100	4 100	32214JR	3EC	1.71
70	125	41	41	32	2	1.5	206	294	3 100	4 100	33214JR	3EE	2.16
	150	38	35	25	3	2.5	197	235	2 300	3 200	30314DJR	7GB	2.97
	150	38	35	30	3	2.5	230	273	2 600	3 500	30314JR	2GB	3.08
	150	54	51	42	3	2.5	317	414	2 700	3 600	32314JR	2GD	4.50

d 75 – 95 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	(Refer.) Dimension series to ISO355	(Refer.) Mass (kg)
d	D	T	B	C	r _{min.}	r _{1 min.}	C _r	C _{0r}	Grease lub.	Oil lub.			
75	105	20	20	16	1	1	73.6	123	3 300	4 400	32915JR	2BC	0.526
	115	25	25	19	1.5	1.5	110	169	3 100	4 200	32015JR	4CC	0.930
	115	31	31	25.5	1.5	1.5	141	225	3 200	4 200	33015JR	2CE	1.16
	125	37	37	29	2	1.5	186	280	3 000	4 000	33115JR	3DE	1.84
	130	27.25	25	22	2	1.5	142	181	2 900	3 900	30215JR	4DB	1.42
	130	33.25	31	27	2	1.5	174	234	2 900	3 900	32215JR	4DC	1.77
	130	41	41	31	2	1.5	212	310	2 900	3 900	33215JR	3EE	2.26
	160	40	37	26	3	2.5	222	266	2 100	2 900	30315DR	–	3.48
	160	40	37	31	3	2.5	260	311	2 500	3 300	30315JR	2GB	3.65
	160	58	55	45	3	2.5	363	481	2 500	3 300	32315JR	2GD	5.41
	110	20	20	16	1	1	76.1	131	3 100	4 200	32916JR	2BC	0.556
	125	29	29	22	1.5	1.5	147	225	2 900	3 900	32016JR	3CC	1.32
	125	36	36	29.5	1.5	1.5	173	288	2 900	3 900	33016JR	2CE	1.63
	130	37	37	29	2	1.5	191	294	2 800	3 800	33116JR	3DE	1.93
	140	28.25	26	22	2.5	2	161	202	2 700	3 600	30216JR	3EB	1.72
	140	35.25	33	28	2.5	2	203	271	2 700	3 600	32216JR	3EC	2.17
80	140	46	46	35	2.5	2	250	371	2 700	3 600	33216JR	3EE	2.99
	170	42.5	39	27	3	2.5	236	282	2 000	2 800	30316DJR	7GB	4.12
	170	42.5	39	33	3	2.5	294	355	2 300	3 100	30316JR	2GB	4.46
	170	61.5	58	48	3	2.5	383	503	2 300	3 100	32316JR	2GD	6.31
	120	23	23	18	1.5	1.5	97.1	165	2 900	3 900	32917JR	2BC	0.794
	130	29	29	22	1.5	1.5	150	234	2 800	3 700	32017JR	4CC	1.38
	130	36	36	29.5	1.5	1.5	177	300	2 800	3 700	33017JR	2CE	1.72
	140	41	41	32	2.5	2	224	346	2 600	3 500	33117JR	3DE	2.43
	150	30.5	28	24	2.5	2	182	231	2 500	3 400	30217JR	3EB	2.17
	150	38.5	36	30	2.5	2	232	315	2 500	3 400	32217JR	3EC	2.80
	150	49	49	37	2.5	2	294	439	2 500	3 400	33217JR	3EE	3.63
	180	44.5	41	28	4	3	263	317	1 900	2 600	30317DJR	7GB	4.81
	180	44.5	41	34	4	3	316	384	2 200	2 900	30317JR	2GB	5.15
	180	63.5	60	49	4	3	439	587	2 200	3 000	32317JR	2GD	7.42
	125	23	23	18	1.5	1.5	101	175	2 800	3 700	32918JR	2BC	0.834
90	140	32	32	24	2	1.5	178	276	2 600	3 500	32018JR	3CC	1.80
	140	39	39	32.5	2	1.5	221	367	2 600	3 400	33018JR	2CE	2.22
	150	45	45	35	2.5	2	258	413	2 500	3 300	33118JR	3DE	3.13
	160	32.5	30	26	2.5	2	204	261	2 400	3 200	30218JR	3FB	2.65
	160	42.5	40	34	2.5	2	263	362	2 400	3 200	32218JR	3FC	3.47
	190	46.5	43	30	4	3	282	336	1 700	2 400	30318DR	–	5.60
	190	46.5	43	36	4	3	345	420	2 100	2 700	30318JR	2GB	6.04
	190	67.5	64	53	4	3	461	614	2 100	2 800	32318JR	2GD	8.61
	145	32	32	24	2	1.5	182	287	2 500	3 300	32019JR	4CC	1.88
	145	39	39	32.5	2	1.5	226	382	2 500	3 300	33019JR	2CE	2.31
	160	49	49	38	2.5	2	304	473	2 300	3 100	33119JR	3EE	3.89
	170	34.5	32	27	3	2.5	231	299	2 200	3 000	30219JR	3FB	3.20
	170	45.5	43	37	3	2.5	311	439	2 200	3 000	32219JR	3FC	4.34
	170	58	58	44	3	2.5	374	582	2 200	2 900	33219JR	3FE	5.66
	200	49.5	45	32	4	3	319	391	1 700	2 300	30319DJR	7GB	6.68
95	200	49.5	45	38	4	3	372	455	2 000	2 600	30319JR	2GB	6.96
	200	71.5	67	55	4	3	517	695	2 000	2 600	32319JR	2GD	10.1

Tapered roller bearings metric series

d 100 – (120) mm



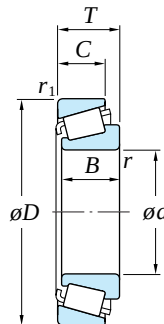
Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	(Refer.) Dimension series to ISO355	(Refer.) Mass (kg)
d	D	T	B	C	$r_{min.}$	$r_{1min.}$	C_r	C_{0r}	Grease lub.	Oil lub.			
100	140	25	25	20	1.5	1.5	126	217	2 400	3 300	32920JR	2CC	1.19
	150	32	32	24	2	1.5	185	298	2 400	3 200	32020JR	4CC	1.95
	150	39	39	32.5	2	1.5	231	397	2 400	3 200	33020JR	2CE	2.40
	165	52	52	40	2.5	2	325	523	2 200	3 000	33120JR	3EE	4.29
	180	37	34	29	3	2.5	258	338	2 100	2 800	30220JR	3FB	3.83
	180	49	46	39	3	2.5	347	495	2 100	2 800	32220JR	3FC	5.21
	180	63	63	48	3	2.5	431	680	2 100	2 800	33220JR	3FE	6.92
	215	51.5	47	34	4	3	318	374	1 500	2 100	30320D	—	8.02
	215	51.5	47	39	4	3	344	400	1 800	2 400	30320	—	7.76
	215	51.5	47	39	4	3	422	521	1 800	2 400	30320JR	2GB	8.49
	215	56.5	51	35	4	3	373	459	1 500	2 200	31320JR	7GB	8.72
	215	77.5	73	60	4	3	579	783	1 800	2 400	32320JR	2GD	13.0
	145	25	25	20	1.5	1.5	128	224	2 400	3 100	32921JR	2CC	1.23
	160	35	35	26	2.5	2	215	344	2 200	3 000	32021JR	4DC	2.45
	160	43	43	34	2.5	2	267	461	2 200	3 000	33021JR	2DE	3.08
	175	56	56	44	2.5	2	360	607	2 100	2 800	33121JR	3EE	5.33
	190	39	36	30	3	2.5	288	380	2 000	2 600	30221JR	3FB	4.49
	190	53	50	43	3	2.5	392	567	2 000	2 700	32221JR	3FC	6.37
105	190	68	68	52	3	2.5	497	790	2 000	2 600	33221JR	3FE	8.43
	225	53.5	49	41	4	3	464	578	1 700	2 300	30321JR	2GB	9.73
	225	58	53	36	4	3	397	489	1 500	2 100	31321JR	7GB	9.72
	225	81.5	77	63	4	3	635	866	1 800	2 300	32321JR	2GD	14.9
	170	38	38	29	2.5	2	248	395	2 100	2 800	32022JR	4DC	3.12
	170	47	47	37	2.5	2	287	502	2 100	2 800	33022JR	2DE	3.81
	180	56	56	43	2.5	2	369	634	2 000	2 700	33122JR	3EE	5.52
	200	41	38	32	3	2.5	324	434	1 900	2 500	30222JR	3FB	5.33
	200	56	53	46	3	2.5	438	640	1 900	2 500	32222JR	3FC	7.45
	240	54.5	50	42	4	3	481	590	1 600	2 100	30322JR	2GB	11.4
	240	63	57	38	4	3	452	563	1 400	1 900	31322JR	7GB	12.2
	240	84.5	80	65	4	3	691	943	1 600	2 200	32322JR	2GD	17.8
	165	29	29	23	1.5	1.5	172	298	2 100	2 700	32924JR	2CC	1.77
	180	38	38	29	2.5	2	258	427	2 000	2 600	32024JR	4DC	3.34
	180	48	48	38	2.5	2	299	540	2 000	2 600	33024JR	2DE	4.16
	200	62	62	48	2.5	2	462	785	1 800	2 400	33124JR	3FE	7.73

d (120) – 200 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	(Refer.) Dimension series to ISO355	(Refer.) Mass (kg)
d	D	T	B	C	$r_{min.}$	$r_{1min.}$	C_r	C_{0r}	Grease lub.	Oil lub.			
120	215	61.5	58	50	3	2.5	470	691	1 700	2 300	32224JR	4FD	9.04
	260	59.5	55	46	4	3	569	714	1 500	2 000	30324JR	2GB	14.5
	260	68	62	42	4	3	526	665	1 300	1 800	31324JR	7GB	15.4
	260	90.5	86	69	4	3	800	1 110	1 500	2 000	32324JR	2GD	22.2
130	180	32	32	25	2	1.5	200	368	1 900	2 500	32926JR	2CC	2.42
	200	45	45	34	2.5	2	340	563	1 800	2 300	32026JR	4EC	5.04
	200	55	55	43	2.5	2	390	705	1 700	2 300	33026JR	2EE	6.19
	230	43.75	40	34	4	3	377	511	1 600	2 100	30226JR	4FB	7.24
140	230	67.75	64	54	4	3	554	830	1 600	2 200	32226JR	4FD	11.5
	280	63.75	58	49	5	4	657	834	1 400	1 800	30326JR	2GB	18.1
	280	72	66	44	5	4	589	748	1 200	1 600	31326JR	7GB	18.9
	190	32	32	25	2	1.5	206	390	1 800	2 300	32928JR	2CC	2.57
150	210	45	45	34	2.5	2	346	585	1 700	2 200	32028JR	4DC	5.28
	210	56	56	44	2.5	2	406	758	1 600	2 200	33028JR	2DE	6.61
	250	45.75	42	36	4	3	420	570	1 500	1 900	30228JR	4FB	8.97
	250	71.75	68	58	4	3	636	961	1 500	2 000	32228JR	4FD	14.7
160	300	67.75	62	53	5	4	749	962	1 300	1 700	30328JR	2GB	22.6
	300	77	70	47	5	4	674	865	1 100	1 500	31328JR	7GB	23.3
	210	38	38	30	2.5	2	286	536	1 600	2 100	32930JR	2DC	3.96
	225	48	48	36	3	2.5	391	668	1 500	2 000	32030JR	4EC	6.41
170	225	59	59	46	3	2.5	459	869	1 500	2 000	33030JR	2EE	8.09
	270	49	45	38	4	3	483	664	1 300	1 800	30230JR	4GB	11.6
	270	77	73	60	4	3	704	1 070	1 300	1 800	32230JR	4GD	18.2
	320	72	65	55	5	4	837	1 080	1 200	1 500	30330JR	2GB	26.6
180	320	82	75	50	5	4	763	989	980	1 400	31330JR	7GB	28.0
	220	38	38	30	2.5	2	295	568	1 500	2 000	32932JR	2DC	4.19
	240	51	51	38	3	2.5	440	758	1 400	1 900	32032JR	4EC	7.75
	290	52	48	40	4	3	542	750	1 200	1 600	30232JR	4GB	14.1
190	290	84	80	67	4	3	795	1 210	1 200	1 700	32232JR	4GD	23.2
	340	75	68	58	5	4	938	1 220	1 100	1 400	30332JR	2GB	31.8
	230	38	38	30	2.5	2	296	606	1 400	1 900	32934JR	3DC	4.49
	260	57	57	43	3	2.5	526	905	1 300	1 700	32034JR	4EC	10.5
200	310	57	52	43	5	4	620	867	1 100	1 500	30234JR	4GB	17.8
	310	91	86	71	5	4	898	1 380	1 100	1 500	32234JR	4GD	28.9
	360	80	72	62	5	4	1 040	1 370	1 000	1 300	30334JR	2GB	37.5
	250	45	45	34	2.5	2	357	735	1 300	1 700	32936JR	4DC	6.64
210	280	64	64	48	3	2.5	644	1 100	1 200	1 600	32036JR	3FD	14.1
	320	57	52	43	5	4	615	870	1 100	1 400	30236JR	4GB	18.3
	320	91	86	71	5	4	957	1 520	1 100	1 500	32236JR	4GD	29.9
	260	45	45	34	2.5	2	366	789	1 200	1 600	32938JR	4DC	6.89
220	290	64	64	48	3	2.5	654	1 170	1 100	1 500	32038JR	4FD	14.7
	340	60	55	46	5	4	729	1 030	1 000	1 300	30238JR	4GB	21.9
	340	97	92	75	5	4	1 090	1 740	1 000	1 300	32238JR	4GD	36.6
	280	51	51	39	3	2.5	486	958	1 100	1 500	32940JR	3EC	9.44
230	310	70	70	53	3	2.5	755	1 340	1 100	1 400	32040JR	4FD	19.1
	360	64	58	48	5	4	792	1 120	940	1 200	30240JR	4GB	26.4
	360	104	98	82	5	4	1 240	1 880	960	1 300	32240JR	4GD	44.2

Tapered roller bearings inch series

d 15.875 – (28.575) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.		(Refer.) Mass (kg)	
d	D	T	B	C	$r_{min.}$	$r_{1 min.}$	C_r	C_{0r}	Grease lub.	Oil lub.	Cone	Cup	Cone	Cup
15.875	42.862	14.288	14.288	9.525	1.6	1.6	17.8	17.7	10 000	14 000	11590	11520	0.060	0.040
17.462	39.878	13.843	14.605	10.668	1.2	1.2	25.4	26.0	11 000	14 000	LM11749R	LM11710	0.058	0.028
19.050	45.237	15.494	16.637	12.065	1.2	1.2	29.4	30.1	9 400	13 000	LM11949	LM11910	0.081	0.044
	49.225	19.845	21.539	14.288	1.2	1.2	37.7	37.7	8 900	12 000	09078	09195	0.124	0.065
	49.225	21.209	19.050	17.462	1.2	1.6	37.7	37.7	8 900	12 000	09067	09196	0.114	0.084
21.430	50.005	17.526	18.288	13.970	1.2	1.2	39.1	40.7	8 500	11 000	M12649	M12610	0.119	0.058
21.987	45.974	15.494	16.637	12.065	1.2	1.2	30.1	34.6	8 900	12 000	LM12749	LM12711	0.078	0.043
22.225	50.005	17.526	18.288	13.970	1.2	1.2	39.1	40.7	8 500	11 000	M12648	M12610	0.115	0.058
	56.896	19.368	19.837	15.875	1.2	1.2	40.0	43.1	7 600	10 000	1755	1729	0.150	0.100
	57.150	22.225	22.225	17.462	0.8	1.6	52.6	55.7	7 600	10 000	1280	1220	0.189	0.105
22.606	47.000	15.500	15.500	12.000	1.6	1.0	28.0	32.8	8 700	12 000	LM72849	LM72810	0.076	0.047
23.812	50.292	14.224	14.732	10.668	1.6	1.2	31.2	37.0	7 800	10 000	L44640R	L44610	0.099	0.039
	56.896	19.368	19.837	15.875	0.8	1.2	40.0	43.1	7 600	10 000	1779	1729	0.141	0.100
25.400	50.005	13.495	14.260	9.525	1.0	1.0	26.7	28.8	7 900	11 000	07100	07196	0.084	0.035
	50.005	13.495	14.260	9.525	1.6	1.0	26.7	28.8	7 900	11 000	07100S	07196	0.082	0.035
	50.292	14.224	14.732	10.668	1.2	1.2	31.2	37.0	7 800	10 000	L44643R	L44610	0.092	0.039
	61.912	19.050	20.638	14.288	0.8	2.0	44.6	50.7	6 400	8 600	15101	15243	0.215	0.080
	62.000	19.050	20.638	14.288	3.6	1.2	44.6	50.7	6 400	8 600	15100	15245	0.215	0.081
	63.500	19.050	20.638	14.288	0.8	1.2	44.6	50.7	6 400	8 600	15101	15250R	0.215	0.097
	64.292	21.432	21.432	16.670	1.6	1.6	55.2	70.7	6 400	8 500	M86643R	M86610	0.248	0.127
	65.088	22.225	21.463	15.875	1.6	1.6	47.8	51.7	5 600	7 900	23100	23256	0.231	0.140
	72.233	25.400	25.400	19.842	0.8	2.4	66.9	87.4	5 700	7 600	HM88630	HM88610	0.391	0.185
26.988	50.292	14.224	14.732	10.668	3.6	1.2	31.2	37.0	7 800	10 000	L44649R	L44610	0.083	0.039
	60.325	19.842	17.462	15.875	3.6	1.6	37.8	42.7	7 000	9 400	15580	15523	0.140	0.122
	62.000	19.050	20.638	14.288	0.8	1.2	44.6	50.7	6 400	8 600	15106	15245	0.206	0.081
28.575	57.150	19.845	19.355	15.875	3.6	1.6	48.8	57.1	7 000	9 300	1988R	1922	0.151	0.076
	62.000	19.050	20.638	14.288	3.6	1.2	44.6	50.7	6 400	8 600	15112	15245	0.193	0.081

Remark) Inch series tapered roller bearings with bore diameter larger than 200 mm are shown in catalogue "large size ball & roller bearings," CAT. NO. 211E.

d (28.575) – 38.000 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾		(Refer.) Mass (kg)	
d	D	T	B	C	r ²⁾ min.	r ₁ min.	C _r	C _{0r}	Grease lub.	Oil lub.	Cone	Cup	Cone	Cup
28.575	64.292	21.432	21.432	16.670	1.6	1.6	55.2	70.7	6 400	8 500	M86647R	M86610	0.225	0.127
	66.421	23.812	25.433	19.050	1.2	1.2	67.0	75.2	6 500	8 700	2689	2631	0.249	0.165
	68.262	22.225	22.225	17.462	0.8	1.6	51.0	61.1	6 000	8 000	02474	02420	0.252	0.150
	73.025	22.225	22.225	17.462	0.8	3.2	55.0	65.7	5 500	7 400	02872	02820	0.319	0.158
29.000	50.292	14.224	14.732	10.668	3.6	1.2	28.9	37.2	7 600	10 000	L45449	L45410	0.079	0.036
29.367	66.421	23.812	25.433	19.050	3.6	1.2	67.0	75.2	6 500	8 700	2690	2631	0.242	0.165
30.162	64.292	21.432	21.432	16.670	1.6	1.6	55.2	70.7	6 400	8 500	M86649R	M86610	0.213	0.127
	68.262	22.225	22.225	17.462	2.4	1.6	56.1	71.1	6 000	7 900	M88043	M88010	0.258	0.144
30.213	62.000	19.050	20.638	14.288	3.6	1.2	44.6	50.7	6 400	8 600	15118	15245	0.181	0.081
	62.000	19.050	20.638	14.288	1.6	1.2	44.6	50.7	6 400	8 600	15119	15245	0.183	0.081
	62.000	19.050	20.638	14.288	0.8	1.2	44.6	50.7	6 400	8 600	15120	15245	0.183	0.081
30.226	69.012	19.845	19.583	15.875	0.8	3.2	46.1	55.0	5 900	7 800	14116	14274	0.226	0.131
31.750	59.131	15.875	16.764	11.811	sp	1.2	35.8	43.1	6 600	8 800	LM67048	LM67010	0.120	0.062
	62.000	18.161	19.050	14.288	sp	1.2	44.6	50.7	6 400	8 600	15123	15245	0.157	0.081
	62.000	19.050	20.638	14.288	3.6	1.2	44.6	50.7	6 400	8 600	15125	15245	0.169	0.081
	62.000	19.050	20.638	14.288	0.8	1.2	44.6	50.7	6 400	8 600	15126	15245	0.171	0.081
	66.421	25.400	25.357	20.638	0.8	3.2	71.4	85.1	6 000	8 000	2580	2520	0.281	0.123
	68.262	22.225	22.225	17.462	1.6	1.6	56.1	71.1	6 000	7 900	M88046	M88010	0.245	0.144
	68.262	22.225	22.225	17.462	3.6	1.6	51.0	61.1	6 000	8 000	02475	02420	0.224	0.150
	73.025	22.225	22.225	17.462	3.6	3.2	55.0	65.7	5 600	7 400	02875	02820	0.293	0.158
	73.025	29.370	27.783	23.020	1.2	3.2	74.3	101	5 600	7 500	HM88542	HM88510	0.377	0.238
	73.812	29.370	27.783	23.020	1.2	3.2	74.3	101	5 600	7 500	HM88542	HM88512	0.377	0.254
	73.812	29.370	27.783	23.020	1.2	3.2	74.3	101	5 600	7 500	HM88542	HM88512	0.377	0.254
33.338	68.262	22.225	22.225	17.462	0.8	1.6	56.1	71.1	6 000	7 900	M88048	M88010	0.231	0.144
	73.025	29.370	27.783	23.020	0.8	3.2	74.3	101	5 600	7 500	HM88547	HM88510	0.360	0.238
	76.200	29.370	28.575	23.020	0.8	3.2	79.5	107	5 400	7 200	HM89443	HM89410	0.415	0.254
34.925	65.088	18.034	18.288	13.970	sp	1.2	48.0	58.5	6 000	8 000	LM48548	LM48510	0.164	0.086
	69.012	26.982	26.721	15.875	0.8	1.2	46.1	55.0	5 900	7 800	14136A	14276	0.254	0.133
	72.233	25.400	25.400	19.842	2.4	2.4	66.9	87.4	5 700	7 600	HM88649	HM88610	0.301	0.185
	73.025	23.812	24.608	19.050	1.6	0.8	72.2	87.3	5 600	7 400	25877R	25821	0.310	0.165
	76.200	29.370	28.575	23.812	1.6	3.2	80.9	97.4	5 400	7 200	31594	31520	0.388	0.232
	76.200	29.370	28.575	23.812	1.6	3.2	80.9	97.4	5 400	7 200	31594	31520	0.388	0.232
34.980	59.131	15.875	16.764	11.938	sp	1.2	35.7	48.5	6 400	8 500	L68149	L68110	0.112	0.056
	59.975	15.875	16.764	11.938	sp	1.2	35.7	48.5	6 400	8 500	L68149	L68111	0.112	0.063
35.000	79.375	23.812	25.400	19.050	0.8	0.8	81.1	105	5 000	6 700	26883R	26822	0.414	0.186
35.717	72.233	25.400	25.400	19.842	3.6	2.4	66.9	87.4	5 700	7 600	HM88648	HM88610	0.291	0.185
36.487	73.025	23.812	24.608	19.050	1.6	0.8	72.2	87.3	5 600	7 400	25880R	25821	0.294	0.165
36.512	76.200	29.370	28.575	23.020	3.6	0.8	79.5	107	5 400	7 200	HM89449	HM89411	0.386	0.258
	79.375	23.812	25.400	19.050	0.8	0.8	81.1	105	5 000	6 700	26877R	26822	0.404	0.186
38.000	63.000	17.000	17.000	13.500	sp	sp	43.5	58.2	6 000	8 000	JL69349	JL69310	0.128	0.070

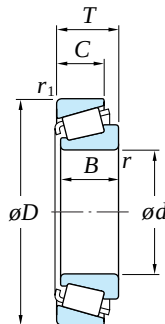
Notes 1) Bearings identified by prefix J feature special designed accuracy.

2) 'sp' means special chamfer shape.

Remark) Inch series tapered roller bearings with bore diameter larger than 200 mm are shown in catalogue "large size ball & roller bearings," CAT. NO. 211E.

Tapered roller bearings inch series

d 38.100 – 41.275 mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.		(Refer.) Mass (kg)	
d	D	T	B	C	r ¹⁾ min.	r ₁ min.	C _r	C _{0r}	Grease lub.	Oil lub.	Cone	Cup	Cone	Cup
38.100	65.088	18.034	18.288	13.970	sp	1.2	42.9	56.5	5 800	7 800	LM29748	LM29710	0.154	0.079
	65.088	19.812	18.288	15.748	2.4	1.2	42.9	56.5	5 800	7 800	LM29749	LM29711	0.159	0.092
	71.438	15.875	16.520	11.908	1.6	1.0	46.1	53.8	5 700	7 600	19150R	19281	0.167	0.105
	71.996	17.018	16.520	14.288	1.6	1.6	46.1	53.8	5 700	7 600	19150R	19283	0.167	0.133
	71.996	19.000	20.638	14.237	3.6	1.6	49.7	61.3	5 600	7 400	16150	16282	0.207	0.121
	72.238	20.638	20.638	15.875	3.6	1.2	49.7	61.3	5 600	7 400	16150	16284	0.207	0.144
	72.238	23.812	20.638	19.050	3.6	2.4	49.7	61.3	5 600	7 400	16150	16283	0.207	0.183
	76.200	23.812	25.654	19.050	3.6	0.8	74.1	92.2	5 400	7 200	2788R	2729	0.308	0.189
	79.375	29.370	29.771	23.812	3.6	3.2	87.4	105	5 200	6 900	3490	3420	0.419	0.256
	82.550	29.370	28.575	23.020	0.8	3.2	87.3	117	4 900	6 600	HM801346	HM801310	0.483	0.282
	82.550	29.370	28.575	23.020	2.4	3.2	87.3	117	4 900	6 600	HM801346X	HM801310	0.483	0.282
	88.501	26.988	29.083	22.225	3.6	1.6	98.2	112	4 900	6 500	418	414	0.523	0.325
	73.025	23.812	25.654	19.050	3.6	0.8	74.1	92.2	5 400	7 200	2789R	2735X	0.288	0.134
	76.200	20.638	20.940	15.507	1.6	1.2	57.3	65.9	5 300	7 000	28158	28300	0.266	0.137
	80.000	21.000	22.403	17.826	3.6	1.2	68.0	74.8	4 900	6 600	344	332	0.334	0.144
	80.000	21.000	22.403	17.826	0.8	1.2	68.0	74.8	4 900	6 600	344A	332	0.334	0.144
40.483	82.550	29.370	28.575	23.020	3.6	3.2	87.3	117	4 900	6 600	HM801349	HM801310	0.450	0.282
41.275	73.025	16.667	17.462	12.700	3.6	1.6	45.9	55.8	5 200	6 900	18590	18520	0.199	0.085
	73.431	19.558	19.812	14.732	3.6	0.8	57.8	73.0	5 200	7 000	LM501349	LM501310	0.227	0.107
	73.431	21.430	19.812	16.604	3.6	0.8	57.8	73.0	5 200	7 000	LM501349	LM501314	0.227	0.126
	73.431	23.012	19.812	18.186	3.6	2.4	57.8	73.0	5 200	7 000	LM501349	LM501311	0.227	0.140
	76.200	18.009	17.384	14.288	1.6	1.6	51.6	63.3	5 200	6 900	11162R	11300	0.221	0.127
	76.200	22.225	23.020	17.462	3.6	0.8	66.3	83.3	5 200	6 900	24780R	24720	0.275	0.148
	80.000	21.000	22.403	17.826	3.6	1.2	68.0	74.8	4 900	6 600	342	332	0.317	0.144
	85.725	30.162	30.162	23.812	3.6	1.2	108	136	4 800	6 400	3877	3821	0.506	0.324
	88.900	20.638	22.225	16.513	3.6	1.2	74.3	87.3	4 400	5 800	365A	362A	0.458	0.164
	88.900	30.162	29.370	23.020	0.8	3.2	99.6	125	4 600	6 100	HM803145	HM803110	0.577	0.318
	88.900	30.162	29.370	23.020	3.6	3.2	99.6	125	4 600	6 100	HM803146	HM803110	0.574	0.318
	90.488	39.688	40.386	33.338	3.6	3.2	132	169	4 500	6 000	4388	4335	0.775	0.454
	95.250	30.162	29.370	23.020	3.6	3.2	104	140	3 300	4 400	HM804840	HM804810	0.719	0.351
	104.775	36.512	36.512	28.575	1.6	3.2	141	195	3 800	5 100	HM807035	HM807010	1.19	0.497

Note 1) 'sp' means special chamfer shape.

Remark) Inch series tapered roller bearings with bore diameter larger than 200 mm are shown in catalogue "large size ball

d 42.875 – 50.000 mm

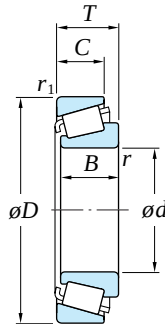
Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾		(Refer.) Mass (kg)	
<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	<i>C</i>	<i>r</i> _{min.}	<i>r</i> _{1 min.}	<i>C</i> _r	<i>C</i> _{0r}	Grease lub.	Oil lub.	Cone	Cup	Cone	Cup
42.875	82.931	23.812	25.400	19.050	3.6	0.8	77.2	100	4 800	6 300	25577	25520	0.382	0.200
44.450	82.931	23.812	25.400	19.050	5.2	0.8	77.2	100	4 800	6 300	25582	25520	0.361	0.200
	84.138	30.162	30.886	23.812	3.6	3.2	95.8	120	4 600	6 200	3578R	3520	0.479	0.221
	85.000	20.638	21.692	17.462	2.4	1.2	71.8	81.7	4 600	6 200	355	354A	0.344	0.160
	85.000	20.638	21.692	17.462	0.8	1.2	71.8	81.7	4 600	6 200	355A	354A	0.344	0.160
	88.900	30.162	29.370	23.020	3.6	3.2	99.6	125	4 600	6 100	HM803149	HM803110	0.525	0.318
	95.250	27.783	28.575	22.225	0.8	2.4	108	141	4 100	5 400	33885	33821	0.714	0.264
	95.250	30.162	29.370	23.020	0.8	2.4	104	140	3 300	4 400	HM804842	HM804810	0.673	0.351
	95.250	30.162	29.370	23.020	3.6	2.4	104	140	3 300	4 400	HM804843	HM804810	0.670	0.351
	95.250	30.958	28.301	20.638	3.6	0.8	88.7	98.4	3 700	5 200	53177	53375	0.558	0.363
	95.250	30.958	28.575	22.225	3.6	0.8	99.7	120	3 700	5 100	HM903249	HM903210	0.614	0.383
	104.775	36.512	36.512	28.575	3.6	3.2	141	195	3 800	5 100	HM807040	HM807010	1.13	0.497
	111.125	30.162	26.909	20.638	3.6	3.2	111	150	3 100	4 300	55175CR	55437	0.939	0.507
	111.125	30.162	26.909	20.638	0.8	3.2	111	150	3 100	4 300	55176CR	55437	0.939	0.507
44.983	93.264	30.162	30.302	23.812	3.6	3.2	103	137	4 200	5 500	3776	3720	0.650	0.288
44.988	95.250	30.958	28.575	22.225	3.6	0.8	99.7	120	3 700	5 100	HM903248	HM903210	0.606	0.383
45.242	73.431	19.558	19.812	15.748	3.6	0.8	55.6	78.1	5 100	6 700	LM102949	LM102910	0.209	0.100
	77.788	19.842	19.842	15.080	3.6	0.8	57.1	73.5	4 900	6 500	LM603049	LM603011	0.243	0.120
	77.788	21.430	19.842	16.667	3.6	0.8	57.1	73.5	4 900	6 500	LM603049	LM603012	0.243	0.138
	79.974	19.842	19.842	15.080	3.6	0.8	57.1	73.5	4 900	6 500	LM603049	LM603014	0.243	0.152
45.618	85.000	23.812	25.400	19.050	3.6	2.4	77.2	100	4 800	6 300	25590	25526	0.344	0.241
45.987	74.976	18.000	18.000	14.000	2.4	1.6	52.6	74.6	5 000	6 600	LM503349R	LM503310	0.207	0.095
46.038	79.375	17.462	17.462	13.495	2.8	1.6	47.1	59.1	4 800	6 400	18690	18620	0.208	0.123
	85.000	20.638	21.692	17.462	3.6	1.2	71.8	81.7	4 600	6 200	359A	354A	0.323	0.160
	85.000	20.638	21.692	17.462	2.4	1.2	71.8	81.7	4 600	6 200	359S	354A	0.323	0.160
47.625	88.900	20.638	22.225	16.513	3.6	1.2	74.3	87.3	4 400	5 800	369A	362A	0.373	0.164
	88.900	25.400	25.400	19.050	3.6	3.2	87.1	112	4 400	5 900	M804049	M804010	0.450	0.216
	95.250	30.162	29.370	23.020	3.6	3.2	104	140	3 300	4 400	HM804846	HM804810	0.617	0.351
	96.838	21.000	21.946	15.875	0.8	0.8	80.4	101	3 900	5 200	386A	382A	0.563	0.177
	101.600	34.925	36.068	26.988	3.6	3.2	131	159	4 000	5 300	528	522	0.871	0.411
	104.775	30.162	29.317	24.605	4.8	3.2	109	144	3 700	4 900	463	453X	0.838	0.372
	111.125	30.162	26.909	20.638	3.6	3.2	97.7	119	3 200	4 400	55187	55437	0.817	0.507
48.412	95.250	30.162	29.370	23.020	2.4	3.2	104	140	3 300	4 400	HM804848	HM804810	0.606	0.351
49.212	88.900	20.638	22.225	16.513	0.8	1.2	74.3	87.3	4 400	5 800	365S	362A	0.366	0.164
	104.775	36.512	36.512	28.575	3.6	3.2	141	195	3 800	5 100	HM807044	HM807010	1.03	0.497
	114.300	44.450	44.450	34.925	3.6	3.2	189	230	3 800	5 000	65390	65320	1.28	0.894
50.000	82.000	21.501	21.501	17.000	3.0	0.5	71.7	97.9	4 500	6 000	JLM104948	JLM104910	0.304	0.128
	88.900	20.638	22.225	16.513	2.0	1.2	74.3	87.3	4 400	5 800	365	362A	0.346	0.164
	90.000	28.000	28.000	23.000	3.0	2.5	105	138	4 300	5 800	JM205149	JM205110	0.508	0.243
	105.000	37.000	36.000	29.000	3.0	2.8	149	205	3 800	5 100	JHM807045	JHM807012	1.01	0.523
	110.000	22.000	21.996	18.824	0.8	1.2	86.4	116	3 400	4 500	396	394A	0.777	0.263

Note 1) Bearings identified by prefix J feature special designed accuracy.

Remark) Inch series tapered roller bearings with bore diameter larger than 200 mm are shown in catalogue "large size ball & roller bearings," CAT. NO. 211E.

Tapered roller bearings inch series

d 50.800 – 54.991 mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.		(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.	Cone	Cup	Cone	Cup
50.800	82.550	21.590	22.225	16.510	3.6	1.2	61.2	84.3	4 500	6 000	LM104949	LM104911	0.287	0.131
	88.900	17.462	17.462	13.495	3.6	1.2	49.7	65.5	4 400	5 900	18790	18724	0.226	0.190
	88.900	20.638	22.225	16.513	1.6	1.2	74.3	87.3	4 400	5 800	368	362A	0.333	0.164
	88.900	20.638	22.225	16.513	3.6	1.2	74.3	87.3	4 400	5 800	368A	362A	0.331	0.164
	92.075	24.608	25.400	19.845	3.6	0.8	84.8	119	4 200	5 600	28580R	28521	0.453	0.247
	93.264	30.162	30.302	23.812	3.6	3.2	103	137	4 200	5 500	3780	3720	0.547	0.288
	95.250	27.783	28.575	22.225	3.6	0.8	108	141	4 100	5 400	33889	33822	0.604	0.267
	96.838	21.000	21.946	15.875	0.8	0.8	80.4	101	3 900	5 200	385AX	382A	0.521	0.177
	97.630	24.608	24.608	19.446	3.6	0.8	89.6	131	3 900	5 200	28678	28622	0.569	0.267
	101.600	31.750	31.750	25.400	3.6	3.2	114	143	3 900	5 200	49585	49520	0.736	0.384
	101.600	34.925	36.068	26.988	0.8	3.2	131	159	4 000	5 300	529	522	0.806	0.411
	104.775	30.162	30.958	23.812	6.4	3.2	126	165	3 700	4 900	45284	45220	0.873	0.345
	104.775	36.512	36.512	28.575	3.6	3.2	141	195	3 800	5 100	HM807046	HM807010	0.995	0.497
	107.950	36.512	36.957	28.575	3.6	3.2	138	172	3 800	5 100	537	532X	0.969	0.569
	111.125	30.162	26.909	20.638	3.6	3.2	111	150	3 100	4 300	55200CR	55437	0.840	0.507
	112.712	30.162	30.162	23.812	3.6	3.2	147	207	3 300	4 500	39575	39520	1.13	0.359
	123.825	36.512	32.791	25.400	3.6	3.2	156	190	2 900	4 000	72200C	72487	1.32	0.782
51.592	88.900	20.638	22.225	16.513	2.0	1.2	74.3	87.3	4 400	5 800	368S	362A	0.321	0.164
52.388	92.075	24.608	25.400	19.845	3.6	0.8	84.8	119	4 200	5 600	28584R	28521	0.435	0.247
	104.775	30.162	29.317	24.605	1.6	3.2	109	144	3 700	4 900	468	453X	0.748	0.372
53.975	88.900	19.050	19.050	13.492	2.4	2.0	62.9	86.8	4 200	5 600	LM806649	LM806610	0.312	0.135
	95.250	27.783	28.575	22.225	1.6	0.8	108	141	4 100	5 400	33895	33822	0.550	0.267
	104.775	36.512	36.512	28.575	3.6	3.2	141	195	3 800	5 100	HM807049	HM807010	0.921	0.497
	120.650	41.275	41.275	31.750	3.6	3.2	174	217	3 500	4 600	621	612	1.36	0.853
	123.825	36.512	32.791	25.400	3.6	3.2	156	190	2 900	4 000	72212C	72487	1.26	0.782
54.991	123.825	38.100	36.678	30.162	3.6	3.2	162	223	3 200	4 200	557S	552A	1.47	0.756
	135.755	53.975	56.007	44.450	3.6	3.2	266	357	3 000	4 000	6381	6320	2.75	1.37

Remark) Inch series tapered roller bearings with bore diameter larger than 200 mm are shown in catalogue "large size ball & roller bearings," CAT. NO. 211E.

d 55.000 – 66.675 mm

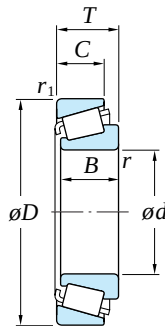
Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾		(Refer.) Mass (kg)	
d	D	T	B	C	r _{min.}	r _{1 min.}	C _r	C _{0r}	Grease lub.	Oil lub.	Cone	Cup	Cone	Cup
55.000	90.000	23.000	23.000	18.500	1.6	0.5	81.4	115	4 200	5 500	JLM506849	JLM506810	0.370	0.183
	95.000	29.000	29.000	23.500	1.6	2.8	110	150	4 000	5 300	JM207049	JM207010	0.567	0.256
	96.838	21.000	21.946	15.875	2.4	0.8	80.4	101	3 900	5 200	385	382A	0.461	0.177
	110.000	39.000	39.000	32.000	3.0	2.5	176	224	3 600	4 900	JH307749	JH307710	1.16	0.560
55.562	97.630	24.608	24.608	19.446	3.6	0.8	89.6	131	3 900	5 200	28680	28622	0.492	0.267
55.575	96.838	21.000	21.946	15.875	2.4	0.8	80.4	101	3 900	5 200	389	382A	0.452	0.177
57.150	96.838	21.000	21.946	15.875	2.4	0.8	80.4	101	3 900	5 200	387	382A	0.428	0.177
	96.838	21.000	21.946	15.875	3.6	0.8	80.4	101	3 900	5 200	387A	382A	0.426	0.177
	96.838	21.000	21.946	15.875	5.2	0.8	80.4	101	3 900	5 200	387AS	382A	0.422	0.177
	96.838	21.000	21.946	15.875	0.8	0.8	80.4	101	3 900	5 200	387S	382A	0.431	0.177
	98.425	21.000	21.946	17.826	2.4	0.8	80.4	101	3 900	5 200	387	382	0.428	0.233
	104.775	30.162	29.317	24.605	2.4	3.2	109	144	3 700	4 900	462	453X	0.685	0.372
	104.775	30.162	29.317	24.605	3.6	3.2	109	144	3 700	4 900	469	453X	0.682	0.372
	104.775	30.162	30.958	23.812	6.4	0.8	126	165	3 700	4 900	45291	45221	0.742	0.350
	112.712	30.162	30.162	23.812	3.6	3.2	147	207	3 300	4 500	39580	39520	1.05	0.355
	112.712	30.162	30.162	23.812	7.9	3.2	147	207	3 300	4 500	39581	39520	1.03	0.355
	123.825	36.512	32.791	25.400	3.6	3.2	156	190	2 900	4 000	72225C	72487	1.19	0.782
	140.030	36.512	33.236	23.520	3.6	2.4	150	177	2 500	3 500	78225	78551	1.70	0.915
57.531	96.838	21.000	21.946	15.875	3.6	0.8	80.4	101	3 900	5 200	388A	382A	0.420	0.177
60.325	100.000	25.400	25.400	19.845	3.6	3.2	91.4	137	3 700	4 900	28985	28921	0.533	0.230
	101.600	25.400	25.400	19.845	3.6	3.2	91.4	137	3 700	4 900	28985	28920	0.533	0.269
	127.000	44.450	44.450	34.925	3.6	3.2	208	269	3 300	4 400	65237	65500	1.59	1.02
	136.525	46.038	46.038	36.512	3.6	3.2	231	369	2 800	3 700	H715332	H715311	2.56	0.950
61.912	110.000	22.000	21.996	18.824	0.8	1.2	86.4	116	3 400	4 500	392	394A	0.606	0.259
	146.050	41.275	39.688	25.400	3.6	3.2	199	232	2 300	3 300	H913842R	H913810	2.20	0.898
63.500	107.950	25.400	25.400	19.050	1.6	3.2	92.8	143	3 400	4 500	29586	29520	0.649	0.277
	110.000	22.000	21.996	18.824	3.6	1.2	86.4	116	3 400	4 500	395	394A	0.575	0.259
	110.000	25.400	25.400	19.050	3.6	1.2	92.8	143	3 400	4 500	29585	29521	0.644	0.333
	112.712	30.162	30.162	23.812	3.6	3.2	147	207	3 300	4 500	39585	39520	0.908	0.355
65.000	105.000	24.000	23.000	18.500	3.0	1.0	95.3	129	3 500	4 700	JLM710949	JLM710910	0.513	0.234
	110.000	28.000	28.000	22.500	3.0	2.8	136	191	3 400	4 600	JM511946	JM511910	0.733	0.338
	120.000	39.000	38.500	32.000	3.0	2.8	189	255	3 200	4 300	JH211749	JH211710	1.27	0.618
65.088	135.755	53.975	56.007	44.450	3.6	3.2	266	357	3 000	4 000	6379	6320	2.34	1.37
66.675	110.000	22.000	21.996	18.824	0.8	1.2	86.4	116	3 400	4 500	395A	394A	0.524	0.259
	110.000	22.000	21.996	18.824	3.6	1.2	86.4	116	3 400	4 500	395S	394A	0.519	0.259
	112.712	30.162	30.048	23.812	3.6	0.8	111	164	3 400	4 500	3984	3925	0.700	0.454
	112.712	30.162	30.162	23.812	3.6	3.2	147	207	3 300	4 500	39590	39520	0.832	0.355
	112.712	30.162	30.162	23.812	3.6	0.8	147	207	3 300	4 500	39590	39521	0.832	0.360
	117.475	30.162	30.162	23.812	3.6	3.2	118	179	3 200	4 200	33262	33462	0.910	0.436
	122.238	38.100	38.354	29.718	3.6	1.6	191	249	3 200	4 300	HM212049	HM212010	1.26	0.596
	135.755	53.975	56.007	44.450	4.3	3.2	266	357	3 000	4 000	6386	6320	2.27	1.37
	177.800	57.150	53.975	37.308	3.6	3.2	334	372	2 100	2 900	HH914449	HH914412	4.26	2.51

Note 1) Bearings identified by prefix J feature special designed accuracy.

Remark) Inch series tapered roller bearings with bore diameter larger than 200 mm are shown in catalogue "large size ball & roller bearings," CAT. NO. 211E.

Tapered roller bearings inch series

d 68.262 – (76.200) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾		(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r ₁ min.	C _r	C _{0r}	Grease lub.	Oil lub.	Cone	Cup	Cone	Cup
68.262	110.000	22.000	21.996	18.824	2.4	1.2	86.4	116	3 400	4 500	399A	394A	0.493	0.259
	110.000	22.000	21.996	18.824	5.2	1.2	86.4	116	3 400	4 500	399AS	394A	0.485	0.259
	136.525	41.275	41.275	31.750	3.6	3.2	241	308	2 900	3 800	H414245	H414210	1.92	0.788
	136.525	46.038	46.038	36.512	3.6	3.2	231	369	2 800	3 700	H715343	H715311	2.27	0.950
69.850	112.712	25.400	25.400	19.050	1.6	3.2	97.0	155	3 200	4 300	29675	29620	0.676	0.270
	117.475	30.162	30.162	23.812	3.6	3.2	118	179	3 200	4 200	33275	33462	0.830	0.436
	120.000	29.794	29.007	24.237	3.6	2.0	118	161	3 200	4 200	482	472	0.791	0.487
	120.000	32.545	32.545	26.195	3.6	3.2	150	218	3 100	4 200	47487R	47420	1.01	0.476
	123.825	30.162	29.007	24.605	3.6	3.2	118	161	3 200	4 200	482	472X	0.791	0.625
	127.000	36.512	36.170	28.575	3.6	3.2	156	226	3 000	4 000	566	563	1.24	0.648
	146.050	41.275	39.688	25.400	3.6	3.2	202	237	2 300	3 300	H913849R	H913810	1.95	0.898
	110.000	26.000	25.000	20.500	1.0	2.5	103	158	3 300	4 400	JLM813049	JLM813010	0.590	0.300
70.000	115.000	29.000	29.000	23.000	3.0	2.5	123	173	3 200	4 300	JM612949	JM612910	0.776	0.358
	117.475	30.162	30.162	23.812	3.6	3.2	118	179	3 200	4 200	33281	33462	0.789	0.436
71.438	120.000	32.545	32.545	26.195	3.6	3.2	150	218	3 100	4 200	47490R	47420	0.964	0.476
	127.000	36.512	36.170	28.575	3.6	3.2	156	226	3 000	4 000	567A	563	1.19	0.648
	136.525	41.275	41.275	31.750	3.6	3.2	241	308	2 900	3 800	H414249	H414210	1.80	0.788
	136.525	46.038	46.038	36.512	3.6	3.2	231	369	2 800	3 700	H715345	H715311	2.15	0.950
73.025	112.712	25.400	25.400	19.050	3.6	3.2	97.0	155	3 200	4 300	29685	29620	0.602	0.270
	117.475	30.162	30.162	23.812	3.6	3.2	118	179	3 200	4 200	33287	33462	0.747	0.436
	127.000	36.512	36.170	28.575	3.6	3.2	156	226	3 000	4 000	567	563	1.14	0.648
	149.225	53.975	54.229	44.450	3.6	3.2	285	404	2 700	3 500	6460	6420	2.79	1.61
75.000	115.000	25.000	25.000	19.000	3.0	2.8	101	151	3 100	4 200	JLM714149	JLM714110	0.612	0.269
	120.000	31.000	29.500	25.000	3.0	2.8	145	216	3 100	4 100	JM714249	JM714210	0.846	0.430
76.200	121.442	24.608	23.012	17.462	3.6	2.0	90.0	127	3 000	4 000	34301	34478	0.617	0.313
	127.000	30.162	31.000	22.225	6.4	3.2	143	225	2 400	3 200	42688	42620	1.04	0.434
	133.350	30.162	29.769	22.225	6.4	3.2	133	198	2 700	3 600	495AX	492A	1.20	0.430
	133.350	33.338	33.338	26.195	6.4	3.2	154	245	2 700	3 700	47678R	47620	1.29	0.577
	135.733	44.450	46.101	34.925	3.6	3.2	213	337	2 800	3 700	5760	5735	1.85	0.877
	136.525	30.162	29.769	22.225	3.6	3.2	133	198	2 700	3 600	495A	493	1.26	0.544
	139.992	36.512	36.098	28.575	3.6	3.2	175	262	2 700	3 600	575R	572	1.64	0.779

Note 1) Bearings identified by prefix 1 feature special designed accuracy

d (76.200) – (101.600) mm

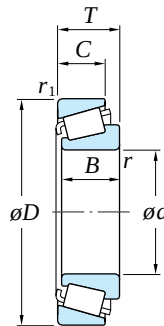
Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾		(Refer.) Mass (kg)	
d	D	T	B	C	$r_{min.}$	$r_{1min.}$	C_r	C_{0r}	Grease lub.	Oil lub.	Cone	Cup	Cone	Cup
76.200	150.089	44.450	46.672	36.512	3.6	3.2	264	368	2 500	3 400	748SR	742	2.51	1.06
	161.925	49.212	46.038	31.750	3.6	3.2	246	286	2 100	2 900	9285R	9220	3.00	1.38
77.788	117.475	25.400	25.400	19.050	3.6	3.2	101	166	3 100	4 100	LM814849	LM814810	0.619	0.295
	121.442	24.608	23.012	17.462	3.6	2.0	90.0	127	3 000	4 000	34306	34478	0.583	0.313
	127.000	30.162	31.000	22.225	3.6	3.2	143	225	2 400	3 200	42690	42620	1.00	0.434
79.375	190.500	57.150	57.531	46.038	3.6	3.2	440	602	2 000	2 700	HH221431	HH221410	6.16	2.21
80.000	130.000	35.000	34.000	28.500	3.2	2.5	168	256	2 800	3 800	JM515649	JM515610	1.19	0.575
80.962	133.350	30.162	29.769	22.225	3.6	3.2	133	198	2 700	3 600	496	492A	1.12	0.429
82.550	125.412	25.400	25.400	19.845	3.6	1.6	101	162	2 900	3 800	27687	27620	0.710	0.344
	133.350	30.162	29.769	22.225	3.6	3.2	133	198	2 700	3 600	495	492A	1.08	0.429
	133.350	33.338	33.338	26.195	3.6	0.8	154	245	2 700	3 700	47686R	47620A	1.13	0.577
	133.350	39.688	39.688	32.545	6.7	3.2	177	306	2 800	3 700	HM516448	HM516410	1.33	0.763
	139.700	36.512	36.098	28.575	3.6	3.2	175	262	2 700	3 600	580R	572X	1.41	0.765
	139.992	36.512	36.098	28.575	3.6	3.2	175	262	2 700	3 600	580R	572	1.41	0.779
	139.992	36.512	36.098	28.575	6.7	3.2	175	262	2 700	3 600	582R	572	1.40	0.779
	146.050	41.275	41.275	31.750	3.6	3.2	208	301	2 600	3 400	663	653	1.91	0.880
	150.089	44.450	46.672	36.512	3.6	3.2	264	368	2 500	3 400	749AR	742	2.23	1.06
83.345	125.412	25.400	25.400	19.845	3.6	1.6	101	162	2 900	3 800	27690	27620	0.689	0.344
85.000	130.000	30.000	29.000	24.000	3.0	2.5	142	228	2 800	3 700	JM716649	JM716610	0.937	0.456
	140.000	39.000	38.000	31.500	3.0	2.5	203	308	2 700	3 500	JHM516849	JHM516810	1.54	0.759
85.026	150.089	44.450	46.672	36.512	3.6	3.2	264	368	2 500	3 400	749R	742	2.12	1.06
85.725	133.350	30.162	29.769	22.225	3.6	3.2	133	198	2 700	3 600	497	492A	0.978	0.429
	142.138	42.862	42.862	34.133	4.8	3.2	219	351	2 600	3 500	HM617049	HM617010	1.72	0.902
	146.050	41.275	41.275	31.750	3.6	3.2	208	301	2 600	3 400	665	653	1.77	0.880
	146.050	41.275	41.275	31.750	6.4	3.2	208	301	2 600	3 400	665A	653	1.76	0.880
	152.400	39.688	36.322	30.162	3.6	3.2	183	287	2 400	3 300	596	592A	1.83	1.04
	161.925	47.625	48.260	38.100	3.6	3.2	273	391	2 400	3 200	758	752	2.67	1.59
88.900	152.400	39.688	39.688	30.162	6.4	3.2	248	359	2 400	3 200	HM518445	HM518410	2.10	0.768
	161.925	47.625	48.260	38.100	3.6	3.2	273	391	2 400	3 200	759	752	2.50	1.59
	161.925	53.975	55.100	42.862	3.6	3.2	316	471	2 400	3 200	6580R	6535	3.09	1.65
89.974	146.975	40.000	40.000	32.500	7.1	3.6	206	310	2 500	3 300	HM218248	HM218210	1.66	0.784
95.000	150.000	35.000	34.000	27.000	3.0	2.5	187	294	2 400	3 300	JM719149	JM719113	1.43	0.766
95.250	128.588	15.875	15.083	11.908	1.6	1.6	58.0	93.0	2 600	3 500	LL319349	LL319310	0.393	0.147
	147.638	35.717	36.322	26.192	5.2	0.8	183	287	2 400	3 300	594A	592XE	1.45	0.62
100.000	155.000	36.000	35.000	28.000	3.0	2.5	204	328	2 300	3 100	JM720249	JM720210	1.64	0.763
	160.000	41.000	40.000	32.000	3.0	2.5	237	378	2 300	3 000	JHM720249	JHM720210	2.11	0.964
100.012	157.162	36.512	36.116	26.195	3.6	3.2	180	288	2 300	3 000	52393	52618	1.74	0.694
101.600	157.162	36.512	36.116	26.195	3.6	3.2	180	288	2 300	3 000	52400	52618	1.67	0.694
	157.162	36.512	36.116	26.195	7.9	3.2	180	288	2 300	3 000	52401	52618	1.64	0.694
	168.275	41.275	41.275	30.162	3.6	3.2	224	349	2 200	3 000	687	672	2.15	1.22

Note 1) Bearings identified by prefix J feature special designed accuracy.

Remark) Inch series tapered roller bearings with bore diameter larger than 200 mm are shown in catalogue "large size ball & roller bearings," CAT. NO. 211E.

Tapered roller bearings inch series

d (101.600) – 200.000 mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾		(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.	Cone	Cup	Cone	Cup
101.600	180.975	47.625	48.006	38.100	3.6	3.2	288	438	2 100	2 800	780	772	3.09	1.92
	190.500	57.150	57.531	44.450	7.9	3.2	385	565	2 100	2 700	861R	854	4.20	2.66
	190.500	57.150	57.531	46.038	7.9	3.2	440	602	2 000	2 700	HH221449	HH221410	4.72	2.21
104.775	180.975	47.625	48.006	38.100	3.6	3.2	288	438	2 100	2 800	782	772	2.90	1.92
106.362	165.100	36.512	36.512	26.988	3.6	3.2	195	325	2 200	2 900	56418R	56650	1.84	0.852
107.950	146.050	21.432	21.432	16.670	1.6	1.6	86.4	167	2 300	3 100	L521949R	L521910	0.665	0.325
	158.750	23.020	21.438	15.875	3.6	3.2	104	169	2 200	3 000	37425	37625	0.893	0.484
	165.100	36.512	36.512	26.988	3.6	3.2	195	325	2 200	2 900	56425R	56650	1.76	0.852
109.538	158.750	23.020	21.438	15.875	6.4	6.4	104	169	2 200	3 000	37431	37625	0.848	0.484
109.987	159.987	34.925	34.925	26.988	3.6	3.2	184	319	2 200	2 900	LM522549	LM522510	1.55	0.784
110.000	165.000	35.000	35.000	26.500	3.0	2.5	195	325	2 200	2 900	JM822049	JM822010	1.64	0.826
114.300	177.800	41.275	41.275	30.162	3.6	3.2	234	380	2 000	2 700	64450R	64700	2.45	1.10
	190.500	47.625	49.212	34.925	3.6	3.2	303	483	1 900	2 600	71450	71750	3.33	1.72
	212.725	66.675	66.675	53.975	7.1	3.2	513	699	1 800	2 400	HH224346	HH224310	6.64	3.03
	212.725	66.675	66.675	53.975	7.1	3.2	450	674	1 800	2 400	938	932	5.96	4.07
	228.600	53.975	49.428	38.100	3.6	3.2	430	651	1 300	1 900	HM926740	HM926710	7.26	2.78
114.976	212.725	66.675	66.675	53.975	7.1	3.2	513	699	1 800	2 400	HH224349	HH224310	6.58	3.03
115.087	190.500	47.625	49.212	34.925	3.6	3.2	303	483	1 900	2 600	71453	71750	3.28	1.72
117.475	180.975	34.925	31.750	25.400	3.6	3.2	171	247	2 000	2 700	68462	68712	1.75	1.04
170.000	230.000	39.000	38.000	31.000	3.0	2.5	291	558	1 400	1 900	JHM534149	JHM534110	3.17	1.29
180.000	250.000	47.000	45.000	37.000	3.0	2.5	365	705	1 300	1 700	JM736149	JM736110	4.47	2.10
190.000	260.000	46.000	44.000	36.500	3.0	2.5	369	723	1 200	1 700	JM738249	JM738210	4.71	2.18
196.850	254.000	28.575	27.783	21.433	1.6	1.6	188	387	1 200	1 600	L540049	L540010	2.34	1.02
200.000	300.000	65.000	62.000	51.000	3.6	2.5	617	1 140	1 100	1 500	JHM840449	JHM840410	9.97	5.13

Note 1) Bearings identified by prefix J feature special designed accuracy.

Remark) Inch series tapered roller bearings with bore diameter larger than 200 mm are shown in catalogue "large size ball & roller bearings," CAT. NO. 211E.