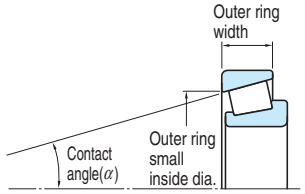
Tapered roller bearings

Tapered roller bearings are designed such that outer ring, inner ring 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.

Single-row 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 outer ring width, outer ring small inside diameter and contact angle are determined in accordance with ISO 355 specifications are identified by the supplementary code "J" as a suffix.
  Inner ring assemblies and the outer rings of such bearings are interchangeable 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.

Double-row tapered roller bearings

- These bearings are divided into the TDO type which has one double outer ring and two single-row inner rings, and the TDI type which has two single-row outer rings and one double inner ring. Both accommodate radial and axial loading in both directions.
  These two also carry moment loads, however, the TDO type is superior to the TDI type, because the distance between load centers (α) is longer in the TDO type.
- The spacer of the TDO type, or the TDI type, pre-adjusts the internal clearance to provide proper operating clearance after mounting.

Single-row tapered roller bearings

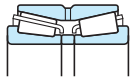
Metric series

Bore diameter **15 – 360** mm

Inch series
(including J series metric bearing)

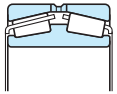
Bore diameter **9.525 – 292.100** mm

Double-row tapered roller bearings



TDO type

Bore diameter **25 – 500** mm



TDI type

Bore diameter **100 – 500** mm

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 : bore diameter 80 mm)

Tolerances

· Metric series single-row tapered roller bearings as specified in JIS B 1514-1.
..... (refer to Table 7-5 on pp. A 66 – A 68.)
· Metric series double-row tapered roller bearings as specified in BAS 1002.
..... (refer to Table 7-6 on p. A 69.)
· Inch series tapered roller bearings as specified in ABMA Section 19.
..... (refer to Table 7-7 on pp. A 70, 71.)
· J series metric tapered roller bearings the tolerance is specified separately.
..... (refer to Table 7-8 on pp. A 72, 73.)

Internal clearance

Radial internal clearance of double-row, four-row and matched pair tapered roller bearings ..... (refer to Table 10-10 on p. A 110.)

Recommended fits

· Metric series tapered roller bearings (classes 0, 6X and 6)
..... (refer to Table 9-4 on pp. A 91, 92.)
· Inch series tapered roller bearings ..... (refer to Table 9-7 on pp. A 96, 97.)
· J series metric tapered roller bearings
..... (refer to Table 9-6 on pp. A 94, 95.)

Standard cage

Pressed cage (supplementary code : //)
(Some large size bearings have a pin type cage (FP) instead. They are listed separately in the bearing specification table.)

Allowable misalignment

Single-row tapered roller bearings : 0.000 9 rad (3')
(If the misalignment exceeds this angle size, JTEKT is ready to design special bearings to order.)

Equivalent radial load

■ Single-row tapered roller bearings

Dynamic equivalent radial load
$\left(\text{when } \frac{F_a}{F_r} \leqq e\right) \quad P_r = F_r$
$\left(\text{when } \frac{F_a}{F_r} > e\right) \quad P_r = 0.4F_r + Y_1 F_a$

Static equivalent radial load $P_{0r} = 0.5F_r + Y_0 F_a$
when $P_{0r} < F_r$, $P_{0r} = F_r$

[Note]
Refer to the bearing specification table for the values of axial load factors Y_1, Y_2, Y_3 and Y_0 and constant e.

■ Double-row or four-row tapered roller bearings

Dynamic equivalent radial load
$\left(\text{when } \frac{F_a}{F_r} \leqq e\right) \quad P_r = F_r + Y_2 F_a$
$\left(\text{when } \frac{F_a}{F_r} > e\right) \quad P_r = 0.67F_r + Y_3 F_a$

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. In this case, refer to pp. A 38, 39 for calculation of the dynamic equivalent 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 with JTEKT on use of bearings under such conditions.

[Series No. index]

series No.	inner ring	pages	outer ring	pages
335	336	B237	332	B233,B235,
	339	B233		B237
	342	B237		
	344	B235		
	344A	B237		
355	350A	B237	354A	B237,B239,
	355	B239		B241
	355A	B239		
	358	B239		
	359A	B241		
	359S	B241		
365	365	B243	362A	B237,B241,
	365A	B237		B243,B245
	365S	B241		
	366	B243		
	368	B243		
	368A	B243		
	368S	B245		
	369A	B241		
	370A	B243		
375	375	B243	374	B243
385	385	B247	382	B247
	385AX	B243	382A	B241,B243,
	385X	B247		B247
	386A	B241		
	387	B247		
	387A	B247		
	387AS	B247		
	387S	B247		
	388A	B247		
	389	B247		
395	390A	B249	394A	B243,B249,
	392	B249		B251
	395	B249		
	395A	B251		
	395S	B251		
	396	B243		
	397	B249		
	399A	B251		
	399AS	B251		
415	418	B235	414	B235,B237
	419	B237		
	420	B237		
435	438	B239	432	B233
	449	B233	432A	B239
455	456	B245	453X	B241,B245,
(Continued)	462	B247		B247
	463	B241		
	466	B245		

series No.	inner ring	pages	outer ring	pages
455	467	B241		
	468	B245		
	469	B247		
475	477	B249	472	B249,B253
	482	B253	472A	B253
			472X	B253
495	495	B257	492A	B255,B257,
	495A	B255		B259
	495AX	B255	493	B255,B259
	496	B257		
	497	B259		
	497A	B259		
	498	B259		
525	525	B235	522	B235,B237,
	526	B237		B239,B241,
	527	B239		B243
	528	B241		
	529	B243		
	529X	B243		
535	535	B239	532A	B239
	537	B245	532X	B237,B245
	539	B245		
	539A	B245		
	543	B237		
555	557S	B245	552A	B245
565	565	B249	563	B249,B251,
	566	B253		B253,B256
	567	B253		
	567A	B253		
	568	B256		
	570	B251		
575R	575R	B255	572	B253,B255,
	575SR	B255		B257
	576R	B253	572X	B257
	577R	B255		
	580R	B257		
	581R	B257		
	582R	B257		
595	594A	B261	592A	B259
	596	B259	592XE	B261
615	615	B239	612	B239,B245,
	619	B245		B247
	621	B245		
	623	B247		
635	641	B251	633	B251
655	655	B253	652	B255
(Continued)	657	B255	653	B253,B255,
	659	B255		B257,B259
	661	B257		

series No.	inner ring	pages	outer ring	pages
655	663	B257		
	665	B259		
	665A	B259		
675	677	B259	672	B259,B261,
	679	B259		B263
	681	B261		
	681A	B261		
	683	B261		
	685	B261		
	687	B263		
745R	740R	B257	742	B253,B255,
	744R	B255		B257,B259
	745AR	B253		
	748SR	B255		
	749AR	B257		
	749R	B259		
	749SR	B259		
	750AR	B257		
755	756A	B257	752	B255,B257,
	757	B257		B259,B261
	758	B259		
	759	B259		
	760	B261		
	762	B255		
	766	B259		
775	778	B261	772	B261,B263
	780	B263		
	782	B263		
	786	B263		
	787	B263		
835R	835R	B253	832	B253,B259
	841R	B259		
855R	855R	B259	854	B259,B261,
	857R	B261		B263
	861R	B263		
	864R	B261		
935	936	B265	932	B263,B265
	938	B265		
	941	B263		
1200	1280	B227	1220	B227
1300	1380	B225	1328	B225
			1329	B225
1700	1755	B227	1729	B227
	1779	B227		
1900R	1986R	B227	1922	B229
	1988R	B229	1932	B227
A2000	A2037	B225	A2126	B225
	A2047	B225		
2500	2580	B231	2520	B231

series No.	inner ring	pages	outer ring	pages
2600	2682	B227	2631	B227,B229
	2684	B227		
	2687	B227		
	2688	B229		
	2689	B229		
	2690	B229		
2700R	2788R	B235	2720	B233
	2789R	B235	2729	B235
	2794R	B233	2735X	B233,B235
	2796R	B233		
2900	2984	B241	2924	B241
3100	3192	B229	3120	B229
	3198	B229		
3300	3382	B235	3320	B235
	3386	B235	3328	B235
3400	3478	B233	3420	B233,B235
	3479	B233		
	3490	B235		
3500R	3576R	B237	3520	B239
	3578R	B239	3525	B233,B237
	3581R	B233		
3700	3776	B239	3720	B239,B243
	3780	B243	3730	B243
			3732	B243
3800	3877	B237	3820	B233
	3878	B233	3821	B237
3900	3979	B247	3920	B247
	3984	B251	3925	B251
A4000	A4050	B225	A4138	B225
	A4059	B225		
4300	4375	B235	4335	B235,B237
	4388	B237		
	4395	B237		
4500	4580	B245	4535	B245
	4595	B245		
5500R	5566R	B247	5535	B245,B247,
	5578R	B245		B249,B251
	5583R	B249		
	5584R	B249		
	5595R	B251		
5700	5760	B255	5735	B255
6300	6379	B251	6320	B245,B249,
	6381	B245		B251
	6382	B249		
	6386	B251		
	6389	B251		
6400	6460	B255	6420	B255
	6461	B255		
	6461A	B255		

series No.	inner ring	pages	outer ring	pages
6500R	6580R	B259	6535	B259,B261
	6581XR	B261		
9100	9185	B251	9121	B251
02400	02473	B227	02420	B227,B229,
	02474	B229		B231
	02475	B231		
	02476	B231		
02800	02872	B229	02820	B229,B231,
	02875	B231		B233
	02876	B231		
	02877	B233		
	02878	B233		
03000	03062	B225	03162	B225
07000	07079	B225	07196	B225,B227
	07097	B227	07204	B227
	07098	B227		
	07100	B227		
	07100S	B227		
08000	08125	B231	08231	B231
09000	09062	B225	09195	B225
	09067	B225	09196	B225
	09078	B225		
11000R	11162R	B237	11300	B237
LM11700R	LM11749R	B225	LM11710	B225
LM11900	LM11949	B225	LM11910	B225
12000	12168	B239	12303	B239
	12175	B239		
12500	12580	B225	12520	B225
M12600	M12648	B225	M12610	B225
	M12649	B225		
LM12700	LM12749	B225	LM12711	B225
13600	13687	B235	13621	B235
13800	13889	B233,B235	13830	B233
			13836	B235
14000	14116	B231	14274	B231
	14117A	B229	14276	B229,B231
	14136A	B231		
15000	15100	B227	15243	B227
(Continued)	15101	B227	15245	B227,B229,
	15106	B229		B231
	15112	B229		
	15113	B229		
	15116	B229		
	15117	B229		
	15118	B231		
	15119	B231		
	15120	B231		
	15123	B231		
	15125	B231		

series No.	inner ring	pages	outer ring	pages
15000	15126	B231		
15500	15580	B229	15520	B229
	15590	B229	15523	B229
16000	16137	B233	16282	B235
	16150	B235	16283	B235
			16284	B233
17000	17098	B227	17244	B227,B229
	17118	B229		
	17119	B229		
17500R	17580R	B225	17520	B225
18000	18200	B243	18337	B243
18500	18587	B235	18520	B235,B237
	18590	B237		
18600	18685	B239	18620	B239,B241
	18690	B241		
18700	18790	B243	18724	B243
19000R	19150R	B235	19281	B235
			19283	B235
21000	21063	B225	21212	B225
L21500	L21549	B225	L21511	B225
23600	23690	B233	23620	B233
24700R	24780R	B237	24720	B237
25500	25572	B235	25520	B235,B239
	25577	B239	25526	B241
	25582	B239		
	25590	B241		
25800R	25877R	B233	25821	B233
	25880R	B233		
26000	26112	B229	26283	B229,B231
	26131	B231		
26800R	26877R	B233	26822	B233,B239
	26883R	B233		
	26884R	B239		
27600	27687	B257	27620	B257,B259
	27689	B257		
	27690	B259		
	27691	B259		
27800	27880	B235	27820	B235
	27881	B235		
28000	28137	B233	28300	B233,B235
	28150	B235	28317	B235
	28158	B235		
28500R	28579R	B243	28521	B243,B245
	28580R	B243		
	28584R	B245		
28600	28678	B243	28622	B243,B247
	28680	B247		
28900	28985	B249	28920	B249
			28921	B249

series No.	inner ring	pages	outer ring	pages
29500	29580	B249	29520	B249
	29585	B249	29521	B249
	29586	B249		
29600	29675	B253	29620	B253,B255
	29685	B253		
	29688	B255		
LM29700	LM29748	B235	LM29710	B235
	LM29749	B235	LM29711	B235
31500	31594	B233	31520	B233
33000	33225	B247	33462	B247,B251,
	33262	B251		B253
	33269	B251		
	33275	B253		
	33281	B253		
	33287	B253		
33800	33885	B239	33821	B239
	33889	B243	33822	B243,B245
	33895	B245		
34000	34274	B253	34478	B253,B255,
	34301	B255		B257
	34306	B257		
	34307	B257		
37000	37425	B263	37625	B263,B265
	37431	B265		
39500	39575	B245	39520	B245,B247,
	39580	B247		B249,B251
	39581	B247	39521	B251
	39585	B249		
	39586	B249		
	39590	B251		
41000	41125	B229	41286	B229
	41126	B229		
42600	42687	B255	42620	B255,B257
	42688	B255		
	42690	B257		
L44600R	L44640R	B227	L44610	B227
	L44643R	B227		
	L44649R	B227		
45200	45282	B241	45220	B241,B243
	45284	B243	45221	B247
	45291	B247		
46000	46162	B237	46368	B237,B239
	46175	B239		
	46176	B239		
47400R	47487R	B253	47420	B253
	47490R	B253	47423	B253
47600R	47678R	B255	47620	B255,B257
(Continued)	47680R	B255	47620A	B257
	47681R	B257		

series No.	inner ring	pages	outer ring	pages
47600R	47686R	B257		
47800R	47890R	B261	47820	B261
	47896R	B261		
48100	48190	B263	48120	B263
LM48500	LM48548	B231	LM48510	B231
48600	48684	B267	48620	B267
	48685	B267		
49000	49175	B239	49368	B239
49500	49576	B239	49520	B239,B243
	49585	B243		
52000	52375	B261	52618	B261,B263
	52393	B263		
	52400	B263		
	52401	B263		
56000R	56418R	B263	56650	B263
	56425R	B263	56662	B263
59000	59200	B243	59412	B243
64000R	64433R	B265	64700	B265
	64450R	B265		
65000	65200	B245	65500	B245,B247,
	65212	B245		B249
	65225	B247		
	65237	B249		
	65237A	B249		
65300	65390	B241	65320	B241
66000R	66212R	B245	66462	B245
66500	66584	B245	66520	B245,B247
	66589	B247		
LM67000	LM67048	B231	LM67010	B231
68000	68450	B265	68712	B265
	68462	B265		
	68463	B265		
L68100	L68149	B233	L68110	B233
			L68111	B233
71000	71412	B263	71750	B263,B265
	71425	B263		
	71450	B265		
	71453	B265		
	71455	B265		
LM72800	LM72849	B227	LM72810	B227
HM81600	HM81649	B225	HM81610	B225
M84200	M84249	B227	M84210	B227
M86600R	M86643R	B227	M86610	B227,B229
	M86647R	B229		
	M86649R	B229		
M88000	M88043	B231	M88010	B231
	M88046	B231		
	M88048	B231		

series No.	inner ring	pages	outer ring	pages
HM88500	HM88542	B231	HM88510	B231
	HM88547	B231	HM88512	B231
HM88600	HM88630	B227	HM88610	B227,B231,
	HM88648	B233		B233
	HM88649	B231		
HM89400	HM89443	B231	HM89410	B231
	HM89449	B233	HM89411	B233
98000	98316	B257	98788	B257,B259,
	98335	B259		B261,B263
	98350	B261		
	98400	B263		
L102800	L102849	B239	L102810	B239
LM102900	LM102949	B241	LM102910	B241
LM104900	LM104949	B243	LM104911	B243
HM212000	HM212046	B249	HM212010	B251
	HM212049	B251	HM212011	B249
L217800	L217849	B259	L217810	B259
HM218200	HM218248	B261	HM218210	B261
HH221400	HH221430	B255	HH221410	B255,B257,
	HH221431	B257		B261,B263
	HH221434	B261		
	HH221440	B261		
	HH221442	B261		
	HH221447	B263		
	HH221449	B263		
HH224300	HH224334	B261	HH224310	B261,B263,
	HH224335	B263		B265
	HH224340	B265		
	HH224346	B265		
	HH224349	B265		
HH228300	HH228340	B265	HH228310	B265
	HH228349	B265		
LM245800	LM245833	B267	LM245810	B267
	LM245846	B267		
	LM245848	B267		
M246900	M246942	B267	M246910	B267
M249700	M249732	B267	M249710	B267
	M249734	B267		
	M249749	B267		
L305600R	L305649R	B243	L305610	B243
L319200	L319249	B261	L319210	B261
LL319300	LL319349	B261	LL319310	B261
L327200	L327249	B267	L327210	B267
M349500	M349549	B267	M349510	B267
H414200	H414235	B249	H414210	B249,B251,
	H414242	B251		B253
	H414245	B251		
	H414249	B253		
L435000	L435049	B267	L435010	B267

series No.	inner ring	pages	outer ring	pages
LM501300	LM501349	B237	LM501310	B237
			LM501311	B237
			LM501314	B237
LM503300R	LM503349R	B241	LM503310	B241
HH506300	HH506348	B241	HH506310	B241
HM516400	HM516448	B257	HM516410	B257
HM518400	HM518445	B259	HM518410	B259
L521900R	L521949R	B263	L521910	B263
LM522500	LM522546	B263	LM522510	B263,B265
	LM522548	B265		
	LM522549	B265		
L540000	L540049	B267	L540010	B267
L555200	L555249	B267	L555210	B267
LM603000	LM603049	B241	LM603011	B241
			LM603012	B241
			LM603014	B241
LM613400	LM613449	B253	LM613410	B253
HM617000	HM617049	B259	HM617010	B259
HM624700	HM624749	B265	HM624710	B265
LL713000	LL713049	B253	LL713010	B253
H715300	H715332	B249	H715311	B249,B251,
	H715340	B251		B253
	H715341	B251		
	H715343	B251		
	H715345	B253		
HM801300	HM801346	B235	HM801310	B235,B237
	HM801346X	B235		
	HM801349	B237		
M802000	M802048	B237	M802011	B237
HM803100	HM803145	B237	HM803110	B237,B239
	HM803146	B237		
	HM803149	B239		
M804000	M804049	B241	M804010	B241
HM804800	HM804840	B237	HM804810	B237,B239,
	HM804842	B239		B241
	HM804843	B239		
	HM804846	B241		
	HM804848	B241		
	HM804849	B241		
LM806600	LM806649	B245	LM806610	B245
HM807000	HM807035	B237	HM807010	B237,B239,
	HM807040	B239		B241,B245
	HM807044	B241		
	HM807046	B245		
	HM807049	B245		
HM813800	HM813840	B247	HM813810	B247,B249
(Continued)	HM813841	B249	HM813811	B249,B251,
	HM813841A	B249		B253
	HM813844	B251		

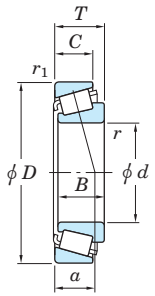
series No.	inner ring	pages	outer ring	pages
HM813800	HM813849	B253		
LM814800	LM814849	B257	LM814810	B257
HH926700	HH926744	B265	HH926710	B265

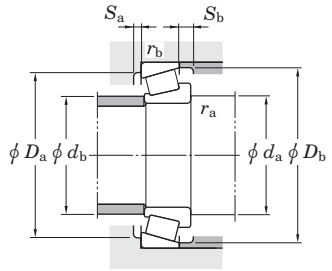
Metric J series

series No.	inner ring	pages	outer ring	pages
JL69300	JL69349	B233	JL69310	B233
JLM104900	JLM104948	B243	JLM104910	B243
JM205100	JM205149	B243	JM205110	B243
JM207000	JM207049	B247	JM207010	B247
JH211700	JH211749	B251	JH211710	B251
	JH211749A	B251		
JH217200	JH217249	B259	JH217210	B259
JH307700	JH307749	B247	JH307710	B247
JHM318400	JHM318448	B261	JHM318410	B261
JH415600	JH415647	B255	JH415610	B255
JLM506800	JLM506849	B245	JLM506810	B245
JLM508700	JLM508748	B247	JLM508710	B247
JM511900	JM511946	B249	JM511910	B249
JM515600	JM515649	B257	JM515610	B257
JHM516800	JHM516849	B259	JHM516810	B259
JHM522600	JHM522649	B265	JHM522610	B265
JHM534100	JHM534149	B267	JHM534110	B267
JM612900	JM612949	B253	JM612910	B253
JLM710900	JLM710949	B249	JLM710910	B249
JLM714100	JLM714149	B255	JLM714110	B255
JM714200	JM714249	B255	JM714210	B255
JM716600	JM716649	B259	JM716610	B259
JM718100	JM718149	B261	JM718110	B261
JM719100	JM719149	B261	JM719113	B261
JHM720200	JHM720249	B263	JHM720210	B263
JM720200	JM720249	B263	JM720210	B263
JM734400	JM734449	B267	JM734410	B267
JM736100	JM736149	B267	JM736110	B267
JM738200	JM738249	B267	JM738210	B267
JHM807000	JHM807045	B243	JHM807012	B243
JLM813000	JLM813049	B253	JLM813010	B253
JM822000	JM822049	B265	JM822010	B265
JHM840400	JHM840449	B267	JHM840410	B267

Single-row tapered roller bearings
metric series

d 15 ~ 22 mm

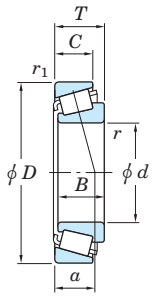


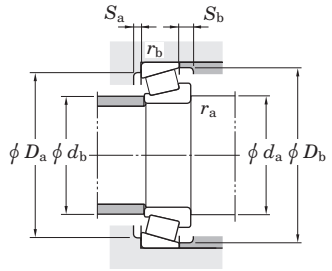


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Dimension series to ISO355	Load center (mm)	Mounting dimensions (mm)									Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.			(Refer.)	a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	(kg)
15	35	11.75	11	10	0.6	0.6	19.8	14.5	2.00	12 000	16 000	**30202R**		—	8.3	19.5	20	30.5	33	2	1.7	0.6	0.6	0.32	1.88	1.04	0.054
	42	14.25	13	11	1	1	27.4	19.2	2.65	10 000	14 000	**30302JR**		2FB	10.0	20.5	22	36.5	35	2	3	1	1	0.29	2.11	1.16	0.098
17	40	13.25	12	11	1	1	26.0	20.7	2.85	10 000	14 000	**30203JR**		2DB	10.1	22.5	23	34.5	33	2	2	1	1	0.35	1.74	0.96	0.081
	40	17.25	16	14	1	1	34.3	27.5	3.85	10 000	14 000	**32203JR**		2DD	11.4	22.5	23	34.5	33	2	3	1	1	0.31	1.92	1.06	0.104
	47	15.25	14	12	1	1	34.2	24.5	3.45	9 200	12 000	**30303JR**		2FB	11.0	22.5	25	41.5	40	2	3	1	1	0.29	2.11	1.16	0.133
	47	15.25	14	12	1	1	34.2	24.5	3.45	9 200	12 000	**30303R**		—	10.5	22.5	25	41.5	40	2	3	1	1	0.28	2.11	1.16	0.127
	47	20.25	19	16	1	1	39.9	29.9	4.25	9 400	13 000	**32303**		—	12.4	22.5	25	41.5	39	2	4	1	1	0.28	2.11	1.16	0.170
	47	20.25	19	16	1	1	45.7	35.9	5.10	9 400	13 000	**32303JR**		2FD	12.2	22.5	25	41.5	39	2	4	1	1	0.29	2.11	1.16	0.176
20	42	15	15	12	0.6	0.6	34.1	31.5	4.35	9 700	13 000	**32004JR**		3CC	10.5	24.5	25	37.5	35	3	3	0.6	0.6	0.37	1.60	0.88	0.102
	47	15.25	14	12	1	1	34.2	25.5	3.75	9 000	12 000	**57008R**		—	12.9	25.5	26	41.5	37	2	3	1	1	0.52	1.16	0.64	0.125
	47	15.25	14	12	1	1	33.8	27.2	3.80	8 700	12 000	**30204JR**		2DB	11.8	25.5	27	41.5	39	2	3	1	1	0.35	1.74	0.96	0.127
	47	19.25	18	15	1	1	41.4	34.7	4.90	8 900	12 000	**32204JR**		2DD	12.5	25.5	27	41.5	39	2	4	1	1	0.33	1.81	1.00	0.159
	47	19.25	18	16	1	1	41.6	37.0	5.00	9 100	12 000	**32204XR**		—	15.3	25.5	25	41.5	35	2	3	1	1	0.55	1.10	0.60	0.170
	52	16.25	16	12	1.5	1.5	43.3	28.4	4.65	8 300	11 000	**30304AC**		—	13.5	28.5	28	43.5	42	4	4	1.5	1.5	0.55	1.10	0.60	0.170
	52	16.25	16	13	1.5	1.5	45.3	35.1	5.05	8 300	11 000	**30304AJR**		—	11.1	28.5	28	44	44	2	3	1.5	1.5	0.30	2.00	1.10	0.179
	52	22.25	21	18	1.5	1.5	52.3	44.9	6.05	8 600	12 000	**32304CR**		—	16.5	28.5	25	43.5	37	3	4	1.5	1.5	0.55	1.10	0.60	0.250
	52	22.25	21	18	1.5	1.5	56.5	46.7	6.70	8 400	11 000	**32304JR**		2FD	14.4	28.5	27	43.5	43	3	4	1.5	1.5	0.30	2.00	1.10	0.244
22	44	15	15	11.5	0.6	0.6	35.4	33.6	4.65	9 100	12 000	**320/22JR**		3CC	11.0	26.5	27	39.5	38	3	3.5	0.6	0.6	0.40	1.51	0.83	0.108
	47	17	17.5	13.5	1	1	40.9	35.9	5.05	8 700	12 000	**T2CC022**		2CC	11.3	27.5	28	41.5	40	4	3.5	1	1	0.33	1.79	0.99	0.138
	50	15.25	14	12	1	1	32.1	25.7	3.50	8 400	11 000	**302/22CR**		—	13.9	27.5	28	44.5	40	2	3	1	1	0.55	1.10	0.60	0.140
	50	15.25	14	12	1	1	36.5	30.9	4.30	8 100	11 000	**302/22R**		—	12.2	27.5	30	44.5	41	2	3	1	1	0.37	1.60	0.88	0.144
	50	19.25	18	15	1	1	43.8	39.1	5.35	8 400	11 000	**322/22CR**		—	15.5	27.5	28	44.5	38	2	4	1	1	0.55	1.10	0.60	0.170
	50	19.25	18	15	1	1	46.0	41.6	5.85	8 100	11 000	**322/22R**		—	14.0	27.5	29	44.5	41	2	4	1	1	0.37	1.60	0.88	0.178
	56	17.25	16	13	1.5	1.5	43.0	33.9	4.70	7 700	10 000	**303/22XR**		—	15.7	30.5	31	47.5	44	3	4	1.5	1.5	0.59	1.02	0.56	0.210
	56	17.25	16	14	1.5	1.5	52.2	41.1	5.95	7 500	10 000	**303/22R**		—	12.2	30.5	32	47.5	47	2	3	1.5	1.5	0.31	1.97	1.08	0.216
	56	22.25	21	17	1.5	1.5	60.4	50.6	7.00	8 000	11 000	**323/22CR**		—	16.9	30.5	28	47.5	41	3	5	1.5	1.5	0.55	1.10	0.60	0.290
	56	22.25	21	18	1.5	1.5	63.3	52.7	7.70	7 600	10 000	**323/22R**		—	14.6	30.5	31	47.5	46	3	4	1.5	1.5	0.31	1.97	1.08	0.273

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

d 25 ~ (30) mm

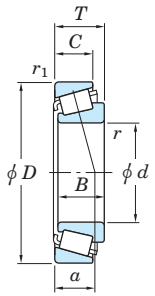


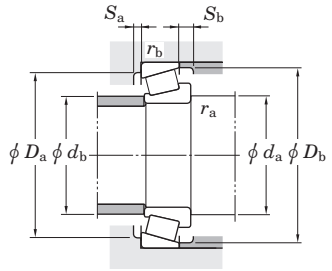


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)									Constant	Axial load factors		(Refer.) Mass (kg)
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	
25	47	15	15	11.5	0.6	0.6	37.8	37.7	5.20	8 300	11 000	**32005JR**		4CC	11.8	29.5	30	42.5	44	3	3.5	0.6	0.6	0.43	1.39	0.77	0.118
	47	17	17	14	0.6	0.6	42.0	42.3	5.95	8 300	11 000	**33005JR**		2CE	10.9	29.5	30	42.5	44	3	3	0.6	0.6	0.29	2.07	1.14	0.131
	52	16.25	15	12	1	1	38.0	32.4	4.45	7 900	11 000	**30205XR**		—	14.9	30.5	30	46.5	49	2	4	1	1	0.58	1.04	0.57	0.155
	52	16.25	15	13	1	1	39.3	33.7	4.75	7 800	10 000	**30205JR**		3CC	12.9	30.5	31	46.5	48	2	3	1	1	0.37	1.60	0.88	0.156
	52	19.25	18	16	1	1	45.5	43.2	5.90	7 900	11 000	**32205XR**		—	16.2	30.5	30	46.5	50	2	3	1	1	0.55	1.10	0.60	0.200
	52	19.25	18	16	1	1	49.7	44.8	6.35	7 900	11 000	**32205JR**		2CD	13.5	30.5	31	46.5	48	2	4	1	1	0.36	1.67	0.92	0.188
	52	22	22	18	1	1	61.1	58.5	8.25	7 900	10 000	**33205JR**		2DE	14.1	30.5	30	46.5	49	4	4	1	1	0.35	1.71	0.94	0.225
	62	18.25	17	13	1.5	1.5	49.7	42.5	5.80	5 700	8 000	**30305DJR**		7FB	20.4	33.5	34	53.5	58.5	3	5	1.5	1.5	0.83	0.73	0.40	0.269
	62	18.25	17	14	1.5	1.5	56.3	45.8	6.50	6 700	9 000	**TR0506R**		—	16.3	33.5	35	53.5	58	3	4	1.5	1.5	0.55	1.10	0.60	0.275
	62	18.25	17	15	1.5	1.5	60.3	46.9	6.90	6 800	9 000	**30305JR**		2FB	12.9	33.5	34	54	57	2	3	1.5	1.5	0.30	2.00	1.10	0.273
	62	25.25	24	19	1.5	1.5	71.6	65.8	9.20	7 000	9 300	**32305XR**		—	18.9	33.5	33	53.5	58	3	6	1.5	1.5	0.55	1.10	0.60	0.390
	62	25.25	24	20	1.5	1.5	76.6	64.1	9.50	6 900	9 100	**32305JR**		2FD	16.6	33.5	33	53.5	57	3	5	1.5	1.5	0.30	2.00	1.10	0.386
28	52	16	16	12	1	1	44.1	44.0	6.10	7 500	10 000	**320/28JR**		4CC	12.7	33.5	33	46.5	49	3	4	1	1	0.43	1.39	0.77	0.150
	58	17.25	16	13	1	1	48.5	41.7	5.85	7 000	9 300	**302/28CR**		—	16.0	33.5	34	52.5	55	2	4	1	1	0.55	1.10	0.60	0.205
	58	17.25	16	14	1	1	48.5	42.0	6.00	7 000	9 300	**302/28R**		—	13.4	33.5	35	52.5	54	2	3	1	1	0.37	1.60	0.88	0.209
	58	20.25	19	16	1	1	56.1	54.1	7.50	7 100	9 400	**322/28CR**		—	17.0	33.5	33	52.5	55	3	4	1	1	0.55	1.10	0.60	0.255
	58	20.25	19	16	1	1	61.5	55.2	7.95	6 900	9 100	**322/28R**		—	15.0	33.5	35	52.5	54.5	2	4	1	1	0.37	1.60	0.88	0.244
	58	24	24	19	1	1	71.9	69.5	10.0	7 000	9 300	**332/28JR**		2DE	15.4	33.5	34	52.5	55	4	5	1	1	0.34	1.77	0.97	0.302
	68	19.75	18	14	1.5	1.5	64.6	50.2	7.25	6 200	8 200	**303/28CR**		—	17.8	36.5	37	59.5	64	3	4.5	1.5	1.5	0.55	1.10	0.60	0.332
	68	19.75	18	16	1.5	1.5	66.9	54.0	8.00	6 100	8 200	**303/28R**		—	14.9	36.5	38	59.5	63	2	3.5	1.5	1.5	0.32	1.88	1.04	0.345
	68	25.75	24	20	1.5	1.5	83.2	72.9	10.5	6 300	8 500	**323/28CR**		—	20.5	36.5	35	59.5	64	3	5.5	1.5	1.5	0.55	1.10	0.60	0.480
	68	25.75	24	21	1.5	1.5	87.0	75.6	11.3	6 100	8 100	**323/28R**		—	17.6	36.5	38	59.5	63	3	4.5	1.5	1.5	0.32	1.88	1.04	0.469
30	55	17	17	13	1	1	47.9	48.0	6.75	7 000	9 400	**32006JR**		4CC	13.6	35.5	35	49.5	52	3	4	1	1	0.43	1.39	0.77	0.177
	55	20	20	16	1	1	54.1	55.2	7.90	7 000	9 400	**33006JR**		2CE	13.0	35.5	36	49.5	52	3	4	1	1	0.29	2.06	1.13	0.203
	62	17.25	16	13	1	1	52.9	45.1	6.35	6 500	8 700	**30206CR**		—	16.5	35.5	36	56.5	59	2	4	1	1	0.55	1.10	0.60	0.230
	62	17.25	16	14	1	1	51.8	44.8	6.45	6 500	8 700	**30206JR**		3DB	14.1	35.5	37	56.5	57	2	3	1	1	0.37	1.60	0.88	0.236
	62	21.25	20	16	1	1	64.6	59.0	8.30	6 600	8 900	**32206XR**		—	18.0	35.5	36	56.5	59	3	5	1	1	0.55	1.10	0.60	0.300
	62	21.25	20	17	1	1	63.3	57.9	8.40	6 500	8 700	**32206JR**		3DC	15.9	35.5	37	56.5	58	2	4	1	1	0.37	1.60	0.88	0.292

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

d (30) ~ (35) mm

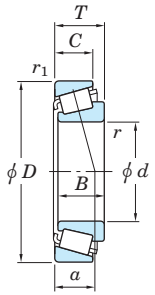


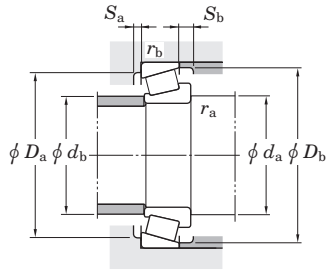


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)									Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	(kg)
30	62	25	25	19.5	1	1	83.1	79.4	11.6	6 500	8 700	**33206JR**		2DE	16.3	35.5	36	56.5	59	5	5.5	1	1	0.34	1.76	0.97	0.359
	72	20.75	19	14	1.5	1.5	63.5	54.9	7.70	4 900	6 800	**30306DJR**		7FB	23.7	38.5	40	63.5	68	3	6.5	1.5	1.5	0.83	0.73	0.40	0.400
	72	20.75	19	16	1.5	1.5	71.2	55.6	8.10	5 900	7 900	**TRA0607R**		—	18.6	38.5	39	63.5	68	3	4.5	1.5	1.5	0.55	1.10	0.60	0.405
	72	20.75	19	16	1.5	1.5	74.4	60.1	9.00	5 800	7 700	**30306JR**		2FB	15.7	38.5	40	63.5	66	3	4.5	1.5	1.5	0.31	1.90	1.05	0.411
	72	28.75	27	23	1.5	1.5	100	93.8	13.4	6 000	8 000	**32306CR**		5FD	22.0	38.5	37	63.5	68	3	5.5	1.5	1.5	0.55	1.10	0.60	0.610
	72	28.75	27	23	1.5	1.5	103	91.6	13.8	5 900	7 900	**32306JR**		2FD	18.9	38.5	39	63.5	66	3	5.5	1.5	1.5	0.31	1.90	1.05	0.588
32	58	17	17	13	1	1	49.2	50.6	7.10	6 700	8 900	**320/32JR**		4CC	14.3	37.5	38	52.5	55	3	4	1	1	0.45	1.32	0.73	0.196
	65	18.25	17	14	1	1	59.3	51.5	7.35	6 200	8 300	**302/32CR**		—	17.2	37.5	38	59.5	62	3	4	1	1	0.55	1.10	0.60	0.275
	65	18.25	17	15	1	1	60.1	51.4	7.45	6 200	8 200	**302/32R**		—	14.9	37.5	39	59.5	61	3	3	1	1	0.37	1.60	0.88	0.266
	65	22.25	21	17	1	1	69.6	65.1	9.20	6 300	8 400	**322/32CR**		—	18.7	37.5	37	59.5	62	3	5	1	1	0.55	1.10	0.60	0.340
	65	22.25	21	18	1	1	64.5	57.7	8.45	6 200	8 200	**322/32**		—	16.3	37.5	40	59.5	61	2	4	1	1	0.37	1.60	0.88	0.330
	65	26	26	20.5	1	1	89.7	86.9	12.8	6 200	8 300	**332/32JR**		2DE	16.9	37.5	38	59.5	55	5	5.5	1	1	0.35	1.73	0.95	0.404
	75	21.75	20	16	1.5	1.5	79.4	66.3	9.70	5 600	7 400	**303/32CR**		—	19.7	40.5	42	66.5	60	3	5.5	1.5	1.5	0.55	1.10	0.60	0.465
	75	21.75	20	18	1.5	1.5	80.5	65.6	9.90	5 500	7 300	**303/32R**		—	16.0	40.5	43	66.5	64	3	3.5	1.5	1.5	0.32	1.88	1.04	0.461
	75	29.75	28	23	1.5	1.5	93.8	87.1	12.6	5 600	7 400	**TR0608A**		5FD	23.7	40.5	41	66.5	57	3	6.5	1.5	1.5	0.55	1.10	0.60	0.649
	75	29.75	28	25	1.5	1.5	112	101	15.3	5 600	7 400	**323/32R**		—	19.6	40.5	42	66.5	63	3	4.5	1.5	1.5	0.32	1.88	1.04	0.650
35	55	14	14	11.5	0.6	0.6	32.8	36.5	5.10	6 600	8 800	**32907JR-2**		2BD	10.9	39.5	40	50.5	49	2.5	2.5	0.6	0.6	0.29	2.06	1.13	0.120
	62	18	18	14	1	1	57.0	59.4	8.40	6 200	8 200	**32007JR**		4CC	15.1	40.5	40	56.5	54	4	4	1	1	0.45	1.32	0.73	0.231
	62	21	20	16	1	1	51.3	53.8	7.70	6 200	8 200	**33007**		—	14.8	40.5	41	56.5	55	3	4	1	1	0.33	1.80	0.99	0.250
	62	21	21	17	1	1	64.3	68.0	9.85	6 200	8 200	**33007JR**		2CE	14.2	40.5	41	56.5	55	3	4	1	1	0.31	1.97	1.08	0.263
	72	18.25	17	15	1.5	1.5	66.1	56.2	8.10	5 700	7 600	**30207CR**		—	17.9	43.5	43	63.5	59	3	3	1.5	1.5	0.55	1.10	0.60	0.350
	72	18.25	17	15	1.5	1.5	68.8	60.9	8.95	5 600	7 400	**30207JR**		3DB	15.3	43.5	44	63.5	62	3	3	1.5	1.5	0.37	1.60	0.88	0.344
	72	24.25	23	19	1.5	1.5	86.3	86.6	12.3	5 700	7 600	**32207-1R**		—	21.1	43.5	42	63.5	56	3	5	1.5	1.5	0.58	1.04	0.57	0.465
	72	24.25	23	19	1.5	1.5	86.9	82.4	12.2	5 600	7 500	**32207JR**		3DC	18.2	43.5	43	63.5	61	3	5	1.5	1.5	0.37	1.60	0.88	0.453
	72	28	28	22	1.5	1.5	110	107	15.8	5 700	7 500	**33207JR**		2DE	18.4	43.5	42	63.5	61	5	6	1.5	1.5	0.35	1.70	0.93	0.551
	80	22.75	21	15	2	1.5	78.7	69.1	9.85	4 300	6 000	**30307DJR**		7FB	26.8	45	44	70	66	76.5	3	7.5	2	1.5	0.83	0.73	0.40	0.536
	80	22.75	21	18	2	1.5	87.2	77.8	11.4	5 200	7 000	**30307XR**		—	20.5	45	45	70	63	74	3	4.5	2	1.5	0.55	1.10	0.60	0.560
	80	22.75	21	18	2	1.5	95.2	78.9	12.0	5 200	6 900	**30307JR-1**		2FB	16.9	45	45	70	70	74	3	4.5	2	1.5	0.31	1.90	1.05	0.527

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

d (35) ~ (45) mm

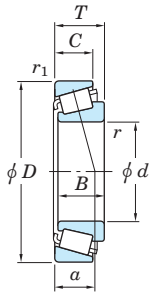


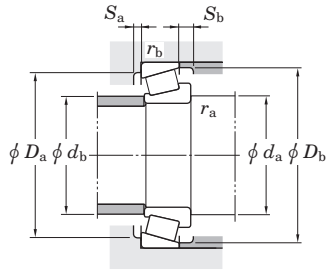


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Dimension series to ISO355	Load center (mm)	Mounting dimensions (mm)									Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.			(Refer.)	a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	(kg)
35	80	32.75	31	25	2	1.5	121	123	18.0	5 200	7 000	**TR0708-1R**		—	23.8	45	44	70	75	3	7.5	2	1.5	0.47	1.27	0.70	0.830
	80	32.75	31	25	2	1.5	126	114	17.3	5 300	7 000	**32307JR**		2FE	20.6	45	44	70	66	74	3	7.5	2	1.5	0.31	1.90	1.05	0.776
40	62	15	15	12	0.6	0.6	42.1	48.5	6.90	5 900	7 800	**32908JR**		2BC	11.9	44.5	45	57.5	59	3	3	0.6	0.6	0.29	2.07	1.14	0.164
	68	19	19	14.5	1	1	67.2	71.4	10.3	5 600	7 400	**32008JR**		3CD	15.1	45.5	46	62.5	65	4	4.5	1	1	0.38	1.58	0.87	0.282
	68	22	22	18	1	1	75.9	84.6	12.4	5 500	7 400	**33008JR**		2BE	14.7	45.5	46	62.5	60	65	3	4	1	1	0.28	2.12	1.17	0.326
	75	26	26	20.5	1.5	1.5	103	108	16.1	5 200	6 900	**33108JR**		2CE	18.3	48.5	47	66.5	65	71	4	5.5	1.5	1.5	0.36	1.69	0.93	0.508
	80	19.75	18	15	1.5	1.5	76.6	67.4	9.90	5 000	6 700	**30208CR**		—	20.2	48.5	49	71.5	66	76	3	4.5	1.5	1.5	0.55	1.10	0.60	0.445
	80	19.75	18	16	1.5	1.5	78.4	69.2	10.3	5 000	6 700	**30208JR**		3DB	17.0	48.5	49	71.5	69	75	3	3.5	1.5	1.5	0.37	1.60	0.88	0.434
	80	24.75	23	19	1.5	1.5	98.0	93.1	13.7	5 000	6 700	**32208CR**		5DC	22.0	48.5	48	71.5	64	76	3	5.5	1.5	1.5	0.55	1.10	0.60	0.570
	80	24.75	23	19	1.5	1.5	97.0	90.8	13.6	5 000	6 600	**32208JR**		3DC	19.4	48.5	48	71.5	68	75	3	5.5	1.5	1.5	0.37	1.60	0.88	0.554
	80	32	32	25	1.5	1.5	135	139	20.8	5 000	6 700	**33208JR**		2DE	20.7	48.5	47	71.5	67	76	5	7	1.5	1.5	0.36	1.68	0.92	0.758
	85	33	32.5	28	2.5	2	143	143	21.6	4 800	6 400	**T2EE040**		2EE	21.9	52	48	75	70	80	5	5	2	2	0.34	1.74	0.96	0.900
	90	25.25	23	17	2	1.5	100	90.2	13.1	3 800	5 300	**30308DJR**		7FB	29.9	50	51	80	71	86.5	3	8	2	1.5	0.83	0.73	0.40	0.757
	90	25.25	23	20	2	1.5	109	98.5	14.8	4 600	6 100	**30308XR**		—	23.8	50	53	80	72	84	3	5	2	1.5	0.55	1.10	0.60	0.780
	90	25.25	23	20	2	1.5	113	101	15.5	4 500	6 100	**30308JR**		2FB	19.9	50	52	80	77	82	3	5	2	1.5	0.35	1.74	0.96	0.757
	90	35.25	33	26	2	1.5	140	138	20.2	4 700	6 200	**TR0809AR**		—	27.5	50	49	80	67	85	3	9	2	1.5	0.55	1.10	0.60	1.10
	90	35.25	33	27	2	1.5	145	139	21.3	4 600	6 200	**32308JR**		2FD	24.3	50	50	80	73	82	3	8	2	1.5	0.35	1.74	0.96	1.06
45	68	15	15	12	0.6	0.6	43.5	52.4	7.45	5 300	7 100	**32909JR**		2BC	12.5	49.5	50	63.5	61	64	3	3	0.6	0.6	0.32	1.88	1.04	0.190
	75	20	20	15.5	1	1	78.8	86.5	12.6	5 000	6 600	**32009JR**		3CC	16.5	50.5	51	69.5	67	72	4	4.5	1	1	0.39	1.53	0.84	0.354
	75	24	24	19	1	1	87.4	101	14.9	5 000	6 700	**33009JR**		2CE	16.4	50.5	51	69.5	67	71	4	5	1	1	0.29	2.04	1.12	0.416
	80	26	26	20.5	1.5	1.5	110	120	17.9	4 800	6 400	**33109JR**		3CE	19.4	53.5	52	71.5	69	76.5	4	5.5	1.5	1.5	0.38	1.57	0.86	0.563
	85	20.75	19	15	1.5	1.5	83.1	77.0	11.4	4 600	6 100	**30209XR**		—	21.1	53.5	54	76.5	71	80	4	5.5	1.5	1.5	0.55	1.10	0.60	0.500
	85	20.75	19	16	1.5	1.5	83.9	77.4	11.6	4 600	6 100	**30209JR**		3DB	18.9	53.5	54	76.5	74	80	3	4.5	1.5	1.5	0.40	1.48	0.81	0.502
	85	24.75	23	19	1.5	1.5	101	102	15.1	4 600	6 200	**32209CR**		—	23.0	53.5	53	76.5	69	81	3	5.5	1.5	1.5	0.55	1.10	0.60	0.625
	85	24.75	23	19	1.5	1.5	105	104	15.6	4 600	6 100	**32209JR-1**		3DC	20.3	53.5	53	76.5	73	81	3	5.5	1.5	1.5	0.40	1.48	0.81	0.597
	85	32	32	25	1.5	1.5	139	149	22.3	4 600	6 200	**33209JR**		3DE	21.8	53.5	52	76.5	72	81	5	7	1.5	1.5	0.39	1.56	0.86	0.818
	95	29	26.5	20	2.5	2.5	118	118	17.0	3 600	5 100	**T7FC045**		7FC	32.6	57	54	83	71	91	3	9	2	2	0.87	0.69	0.38	0.943
	95	36	35	30	2.5	2.5	175	177	27.2	4 300	5 700	**T2ED045**		2ED	23.8	57	55	83	80	89	6	6	2	2	0.32	1.86	1.02	1.20

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

d (45) ~ (55) mm

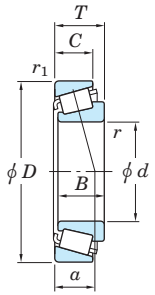


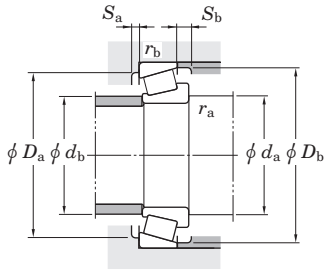


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)								Constant	Axial load factors		(Refer.) Mass (kg)
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	
45	100	27.25	25	18	2	1.5	119	107	15.8	3 400	4 700	**30309DJR**		7FB	32.9	55	56	90	79	96	3	9	2	1.5	0.83	0.73	0.40	0.973
	100	27.25	25	20	2	1.5	136	119	18.1	4 100	5 500	**30309CR**		—	25.7	55	57	90	81	94	4	7	2	1.5	0.55	1.10	0.60	1.00
	100	27.25	25	22	2	1.5	141	128	19.9	4 100	5 400	**30309JR**		2FB	21.3	55	59	90	86	93	3	5	2	1.5	0.35	1.74	0.96	1.01
	100	38.25	36	29	2	1.5	181	182	27.0	4 200	5 600	**32309CR**		—	30.3	55	56	90	76	95	4	9	2	1.5	0.55	1.10	0.60	1.45
	100	38.25	36	30	2	1.5	183	180	27.7	4 100	5 500	**32309JR**		2FD	26.8	55	56	90	82	93	3	8	2	1.5	0.35	1.74	0.96	1.43
50	72	15	15	12	0.6	0.6	45.0	56.3	8.00	4 900	6 600	**32910JR**		2BC	13.7	54.5	55	67.5	65	69	3	3	0.6	0.6	0.34	1.76	0.97	0.195
	80	20	20	15.5	1	1	82.7	94.5	13.8	4 600	6 100	**32010JR**		3CC	17.7	55.5	56	74.5	72	77	4	4.5	1	1	0.42	1.42	0.78	0.389
	80	24	24	19	1	1	91.8	110	16.3	4 600	6 100	**33010JR**		2CE	17.4	55.5	56	74.5	72	76	4	5	1	1	0.32	1.90	1.04	0.451
	85	26	26	20	1.5	1.5	112	127	18.9	4 400	5 900	**33110JR**		3CE	20.6	58.5	56	76.5	74	81.5	4	6	1.5	1.5	0.41	1.46	0.80	0.594
	90	21.75	20	16	1.5	1.5	96.7	95.8	14.3	4 300	5 700	**30210CR**		—	22.7	58.5	58	81.5	76	86	4	5.5	1.5	1.5	0.55	1.10	0.60	0.590
	90	21.75	20	17	1.5	1.5	95.6	91.7	13.8	4 300	5 700	**30210JR**		3DB	20.1	58.5	58	81.5	79	85	3	4.5	1.5	1.5	0.42	1.43	0.79	0.566
	90	24.75	23	19	1.5	1.5	106	113	16.7	4 300	5 700	**32210CR**		—	24.0	58.5	58	81.5	74	86	3	5.5	1.5	1.5	0.55	1.10	0.60	0.675
	90	24.75	23	19	1.5	1.5	106	105	15.9	4 300	5 700	**32210JR**		3DC	20.6	58.5	58	81.5	78	85	3	5.5	1.5	1.5	0.42	1.43	0.79	0.643
	90	32	32	24.5	1.5	1.5	150	167	25.0	4 300	5 700	**33210JR**		3DE	23.1	58.5	57	81.5	77	86.5	5	7.5	1.5	1.5	0.41	1.45	0.80	0.887
	100	36	35	30	2.5	2.5	196	196	30.2	4 100	5 400	**T2ED050**		2ED	24.5	62	58	88	84	94	6	6	2	2	0.34	1.75	0.96	1.28
	105	32	29	22	3	3	141	140	20.3	3 300	4 600	**T7FC050**		7FC	35.9	64	59	91	78	100	4	10	2.5	2.5	0.87	0.69	0.38	1.25
	110	29.25	27	19	2.5	2	144	133	19.8	3 100	4 300	**30310DJR**		7FB	35.0	62	62	98	87	105	3	10	2	2	0.83	0.73	0.40	1.25
	110	29.25	27	20	2.5	2	155	143	21.9	3 700	4 900	**30310CR**		—	27.5	62	64	98	90	103	4	9	2	2	0.55	1.10	0.60	1.25
	110	29.25	27	23	2.5	2	172	152	24.0	3 700	4 900	**30310JR**		2FB	22.9	62	65	98	95	102	3	6	2	2	0.35	1.74	0.96	1.32
	110	42.25	40	33	2.5	2	214	234	34.6	3 800	5 100	**32310CR**		5FD	33.4	62	61	98	81	103	4	9	2	2	0.55	1.10	0.60	2.00
	110	42.25	40	33	2.5	2	221	220	34.2	3 700	5 000	**32310JR**		2FD	29.4	62	62	98	90	102	3	9	2	2	0.35	1.74	0.96	1.89
55	80	17	17	14	1	1	55.8	73.3	10.6	4 400	5 900	**32911JR**		2BC	14.5	61	61	74	72	76	3	3	1	1	0.31	1.94	1.07	0.285
	90	23	23	17.5	1.5	1.5	106	121	18.2	4 100	5 500	**32011JR**		3CC	19.8	63.5	63	81.5	81	86	4	5.5	1.5	1.5	0.41	1.48	0.81	0.569
	90	27	27	21	1.5	1.5	121	149	22.6	4 100	5 400	**33011JR**		2CE	19.3	63.5	63	81.5	81	86	5	6	1.5	1.5	0.31	1.92	1.06	0.672
	95	30	30	23	1.5	1.5	145	161	24.6	4 000	5 300	**33111JR**		3CE	22.5	63.5	62	86.5	83	91	5	7	1.5	1.5	0.37	1.60	0.88	0.868
	100	22.75	21	17	2	1.5	112	108	16.2	3 900	5 200	**30211CR**		—	24.3	65	63	90	84	95	4	5.5	2	1.5	0.55	1.10	0.60	0.750
	100	22.75	21	18	2	1.5	118	113	17.3	3 900	5 200	**30211JR**		3DB	20.7	65	64	90	88	94	4	4.5	2	1.5	0.40	1.48	0.81	0.732
	100	26.75	25	21	2	1.5	134	135	20.4	3 900	5 200	**32211CR**		—	25.9	65	64	90	83	96	4	5.5	2	1.5	0.55	1.10	0.60	0.875

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

d (55) ~ (65) mm



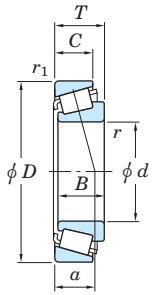


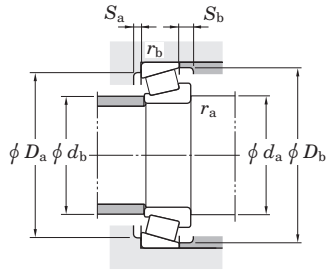
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Dimension series to ISO355	Load center (mm)	Mounting dimensions (mm)								Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.			(Refer.)	a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	(kg)
55	100	26.75	25	21	2	1.5	134	133	20.5	3 900	5 200	**32211JR-1**		3DC	23.0	65	63	90	95	4	5.5	2	1.5	0.40	1.48	0.81	0.863
	100	35	35	27	2	1.5	178	189	28.9	3 900	5 200	**33211JR**		3DE	25.3	65	62	90	96	6	8	2	1.5	0.40	1.50	0.83	1.18
	115	34	31	23.5	3	3	161	164	23.9	3 000	4 200	**T7FC055**		7FC	38.6	69	65	101	109	4	10.5	2.5	2.5	0.87	0.69	0.38	1.59
	120	31.5	29	21	2.5	2	161	148	22.3	2 900	4 000	**30311DJR**		7FB	38.4	67	68	108	113	4	10.5	2	2	0.83	0.73	0.40	1.59
	120	31.5	29	22	2.5	2	180	161	24.8	3 400	4 500	**30311CR**		—	29.8	67	70	108	112	4.5	9.5	2	2	0.55	1.10	0.60	1.58
	120	31.5	29	25	2.5	2	187	170	27.0	3 300	4 500	**30311JR**		2FB	25.5	67	71	108	111	4	6.5	2	2	0.35	1.74	0.96	1.65
	120	45.5	43	35	2.5	2	230	247	36.9	3 400	4 600	**32311C**		5FD	35.9	67	67	108	113	4	10	2	2	0.55	1.10	0.60	2.45
	120	45.5	43	35	2.5	2	214	203	31.8	3 400	4 500	**32311J**		2FD	32.4	67	68	108	111	4	10.5	2	2	0.35	1.74	0.96	2.24
	120	45.5	43	35	2.5	2	250	250	39.1	3 400	4 500	**32311JR**		2FD	32.4	67	68	108	111	4	10.5	2	2	0.35	1.74	0.96	2.38
60	85	17	17	14	1	1	57.6	78.2	11.3	4 100	5 500	**32912JR**		2BC	15.6	65.5	66	79.5	81	3	3	1	1	0.33	1.81	1.00	0.306
	95	23	23	17.5	1.5	1.5	108	127	19.0	3 900	5 200	**32012JR**		4CC	21.0	68.5	67	86.5	91	4	5.5	1.5	1.5	0.43	1.39	0.77	0.621
	95	27	27	21	1.5	1.5	127	162	24.5	3 900	5 200	**33012JR**		2CE	20.1	68.5	67	86.5	85	5	6	1.5	1.5	0.33	1.83	1.01	0.719
	100	30	30	23	1.5	1.5	149	170	25.9	3 700	5 000	**33112JR**		3CE	23.7	68.5	67	91.5	88	5	7	1.5	1.5	0.40	1.51	0.83	0.923
	110	23.75	22	17	2	1.5	127	123	18.8	3 500	4 700	**30212CR**		—	26.2	70	70	100	104	4	6.5	2	1.5	0.55	1.10	0.60	0.930
	110	23.75	22	19	2	1.5	133	127	19.7	3 500	4 700	**30212JR**		3EB	21.9	70	70	100	103	4	4.5	2	1.5	0.40	1.48	0.81	0.945
	110	29.75	28	22	2	1.5	160	164	25.1	3 600	4 700	**32212CR**		—	28.6	70	68	100	105	4	7.5	2	1.5	0.55	1.10	0.60	1.20
	110	29.75	28	24	2	1.5	164	167	25.9	3 500	4 700	**32212JR**		3EC	25.1	70	69	100	104	4	5.5	2	1.5	0.40	1.48	0.81	1.19
	110	38	38	29	2	1.5	217	239	36.6	3 600	4 700	**33212JR**		3EE	27.2	70	69	100	105	6	9	2	1.5	0.40	1.48	0.82	1.57
	115	39	38	31	4	2.5	198	227	34.0	3 400	4 600	**T5ED060**		5ED	32.4	78	70	103	110	5	8	3	2	0.53	1.13	0.62	1.81
	115	40	39	33	2.5	2.5	229	242	37.7	3 400	4 600	**T2EE060**		2EE	27.6	72	70	103	109	6	7	2	2	0.33	1.80	0.99	1.80
	125	37	33.5	26	3	3	191	194	28.8	2 800	3 900	**T7FC060**		7FC	40.8	74	71	111	119	4	11	2.5	2.5	0.82	0.73	0.40	2.03
	130	33.5	31	22	3	2.5	191	179	27.1	2 600	3 700	**30312DJR**		7FB	40.8	74	73	118	124	4	11.5	2.5	2	0.83	0.73	0.40	2.01
	130	33.5	31	23	3	2.5	211	196	30.5	3 100	4 200	**30312CR**		—	31.9	74	75	118	121	5	10.5	2.5	2	0.55	1.10	0.60	1.99
	130	33.5	31	26	3	2.5	217	201	31.9	3 100	4 100	**30312JR**		2FB	26.9	74	77	118	112	4	7.5	2.5	2	0.35	1.74	0.96	2.08
	130	48.5	46	37	3	2.5	286	310	41.4	3 200	4 300	**32312CR**		5FD	38.3	74	73	118	122	5	11	2.5	2	0.55	1.10	0.60	3.15
	130	48.5	46	37	3	2.5	277	275	38.6	3 100	4 200	**32312J**		2FD	32.3	74	74	118	107	4	11.5	2.5	2	0.35	1.74	0.96	2.87
	130	48.5	46	37	3	2.5	306	315	44.1	3 100	4 200	**32312JR**		2FD	32.3	74	74	118	107	4	11.5	2.5	2	0.35	1.74	0.96	2.99
65	90	17	17	14	1	1	59.2	83.1	12.0	3 900	5 200	**32913JR**		2BC	16.8	70.5	70	84.5	86	3	3	1	1	0.35	1.70	0.93	0.327

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

Single-row tapered roller bearings
metric series

d (65) ~ (70) mm

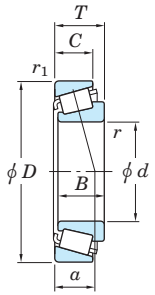


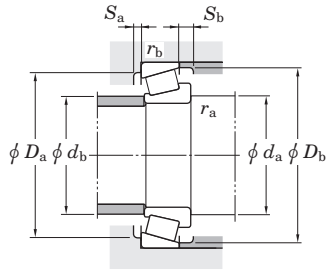


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Dimension series to ISO355	Load center (mm)	Mounting dimensions (mm)								Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.			(Refer.)	a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	(kg)
65	100	23	23	17.5	1.5	1.5	113	137	20.6	3 600	4 800	**32013JR**		4CC	22.5	73.5	72	91.5	90	97	4	5.5	1.5	1.5	0.46	1.31	0.72	0.664
	100	27	27	21	1.5	1.5	129	169	25.5	3 600	4 800	**33013JR**		2CE	21.1	73.5	72	91.5	89	96	5	6	1.5	1.5	0.35	1.72	0.95	0.762
	110	34	34	26.5	1.5	1.5	191	223	34.3	3 400	4 600	**33113JR**		3DE	25.9	73.5	73	101.5	96	106	6	7.5	1.5	1.5	0.39	1.55	0.85	1.33
	120	24.75	23	18	2	1.5	145	139	21.5	3 200	4 300	**30213CR**		—	28.1	75	77	110	102	114	4	6.5	2	1.5	0.55	1.10	0.60	1.15
	120	24.75	23	20	2	1.5	160	156	24.3	3 200	4 300	**30213JR**		3EB	24.2	75	77	110	106	113	4	4.5	2	1.5	0.40	1.48	0.81	1.18
	120	32.75	31	24	2	1.5	190	198	30.4	3 200	4 300	**32213CR**		—	31.3	75	75	110	99	114	4	8.5	2	1.5	0.55	1.10	0.60	1.55
	120	32.75	31	27	2	1.5	196	203	31.7	3 200	4 300	**32213JR**		3EC	26.6	75	76	110	104	115	4	5.5	2	1.5	0.40	1.48	0.81	1.58
	120	39	38	31	4	2.5	190	232	34.7	3 200	4 300	**T5ED065**		5ED	34.1	83	75	108	96	115	5	8	3	2	0.56	1.07	0.59	1.93
	120	41	41	32	2	1.5	250	277	43.0	3 200	4 300	**33213JR**		3EE	30.0	75	74	110	102	115	7	9	2	1.5	0.39	1.54	0.85	2.02
	130	37	33.5	26	3	3	186	211	31.2	2 600	3 600	**T7FC065**		7FC	44.4	79	78	116	98	124	4	11	2.5	2.5	0.87	0.69	0.38	2.17
	140	36	33	23	3	2.5	220	209	31.4	2 400	3 400	**30313DJR**		7GB	44.3	79	79	128	111	133	4	13	2.5	2	0.83	0.73	0.40	2.44
	140	36	33	25	3	2.5	241	227	35.1	2 900	3 900	**30313CR**		—	34.3	79	81	128	113	130	5	11	2.5	2	0.55	1.10	0.60	2.44
	140	36	33	28	3	2.5	255	239	37.6	2 800	3 800	**30313JR**		2GB	29.3	79	83	128	122	130	4	8	2.5	2	0.35	1.74	0.96	2.56
	140	51	48	39	3	2.5	322	361	49.0	2 900	3 900	**32313CR**		5GD	40.9	79	79	128	106	131	5	12	2.5	2	0.55	1.10	0.60	3.85
	140	51	48	39	3	2.5	313	312	43.4	2 900	3 900	**32313J**		2GD	34.7	79	80	128	117	130	4	12	2.5	2	0.35	1.74	0.96	3.49
	140	51	48	39	3	2.5	346	357	49.6	2 900	3 900	**32313JR**		2GD	34.7	79	80	128	117	130	4	12	2.5	2	0.35	1.74	0.96	3.64
70	100	20	20	16	1	1	89.0	115	17.2	3 500	4 700	**32914JR**		2BC	17.8	75.5	77	94.5	91	96	4	4	1	1	0.32	1.90	1.05	0.496
	110	25	25	19	1.5	1.5	136	163	24.8	3 300	4 400	**32014JR**		4CC	23.6	78.5	78	101.5	98	105	5	6	1.5	1.5	0.43	1.38	0.76	0.884
	110	31	31	25.5	1.5	1.5	168	208	32.3	3 300	4 400	**33014JR**		2CE	22.1	78.5	78	101.5	99	105	5	5.5	1.5	1.5	0.28	2.11	1.16	1.09
	120	37	37	29	2	1.5	227	266	41.2	3 100	4 200	**33114JR**		3DE	28.0	80	79	110	104	115	6	8	2	1.5	0.38	1.58	0.87	1.71
	125	26.25	24	19	2	1.5	158	158	24.5	3 000	4 000	**30214CR**		—	29.9	80	82	116.5	107	119	4	7	2	1.5	0.55	1.10	0.60	1.30
	125	26.25	24	21	2	1.5	173	173	27.1	3 100	4 100	**30214JR**		3EB	25.9	80	81	116.5	110	118	4	5	2	1.5	0.42	1.43	0.79	1.32
	125	33.25	31	24	2	1.5	197	212	32.6	3 100	4 100	**32214CR**		—	32.6	80	80	116.5	104	120	4	9.5	2	1.5	0.55	1.10	0.60	1.65
	125	33.25	31	27	2	1.5	212	225	35.2	3 100	4 100	**32214JR**		3EC	29.2	80	80	116.5	108	119	4	6	2	1.5	0.42	1.43	0.79	1.71
	125	41	41	32	2	1.5	258	294	45.5	3 100	4 100	**33214JR**		3EE	31.2	80	79	116.5	107	120	7	9	2	1.5	0.41	1.47	0.81	2.16
	130	43	42	35	3	2.5	291	319	50.0	3 000	4 000	**T2ED070**		2ED	30.2	84	81	118	111	123	1	1	2.5	2	0.33	1.80	0.99	2.48
	140	39	35.5	27	3	3	222	242	35.8	2 400	3 400	**T7FC070**		7FC	46.5	84	82	126	106	133	5	12	2.5	2.5	0.87	0.69	0.38	2.64
	140	52	51	43	5	3	330	382	51.6	2 900	3 800	**T4FE070**		4FE	37.7	92	82	126	111	133	7	9	4	2.5	0.45	1.34	0.74	3.69

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

d (70) ~ (80) mm

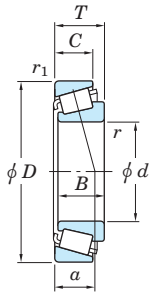


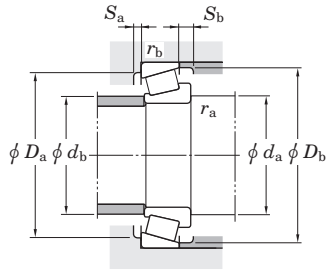


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Dimension series to ISO355	Load center (mm)	Mounting dimensions (mm)								Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.			(Refer.)	a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	(kg)
70	150	38	35	25	3	2.5	246	235	34.9	2 300	3 200	**30314DJR**		7GB	47.1	84	84	138	118	142	4	13	2.5	2	0.83	0.73	0.40	2.97
	150	38	35	30	3	2.5	280	256	36.0	2 700	3 600	**30314CR**		—	37.0	84	87	138	123	141	6	8	2.5	2	0.55	1.10	0.60	3.10
	150	38	35	30	3	2.5	288	273	42.2	2 600	3 500	**30314JR**		2GB	30.5	84	89	138	130	140	4	8	2.5	2	0.35	1.74	0.96	3.08
	150	54	51	42	3	2.5	321	315	44.1	2 700	3 600	**32314**		—	37.0	84	86	138	125	140	4	12	2.5	2	0.35	1.73	0.95	4.11
	150	54	51	42	3	2.5	371	391	51.4	2 700	3 600	**32314C**		5GD	44.4	84	84	138	115	142	5	12	2.5	2	0.55	1.10	0.60	4.50
	150	54	51	42	3	2.5	396	414	57.2	2 700	3 600	**32314JR**		2GD	37.4	84	86	138	125	140	4	12	2.5	2	0.35	1.74	0.96	4.50
75	105	20	20	16	1	1	92.2	123	18.4	3 300	4 400	**32915JR**		2BC	18.9	80.5	81	99.5	96	101	4	4	1	1	0.33	1.80	0.99	0.526
	115	25	25	19	1.5	1.5	139	169	25.8	3 100	4 200	**32015JR**		4CC	25.1	83.5	83	106.5	103	110	5	6	1.5	1.5	0.46	1.31	0.72	0.930
	115	31	31	25.5	1.5	1.5	177	225	35.0	3 200	4 200	**33015JR**		2CE	22.9	83.5	83	106.5	104	110	6	5.5	1.5	1.5	0.30	2.01	1.11	1.16
	125	37	37	29	2	1.5	234	280	43.4	3 000	4 000	**33115JR**		3DE	29.3	85	84	116.5	109	120	6	8	2	1.5	0.40	1.51	0.83	1.84
	130	27.25	25	20	2	1.5	171	178	27.4	2 900	3 800	**30215CR**		—	31.0	85	87	121.5	111	124	5	7	2	1.5	0.55	1.10	0.60	1.40
	130	27.25	25	22	2	1.5	178	181	28.2	2 900	3 900	**30215JR**		4DB	27.6	85	86	121.5	115	124	4	5	2	1.5	0.44	1.38	0.76	1.42
	130	33.25	31	24	2	1.5	204	225	34.5	2 900	3 900	**32215CR**		—	33.7	85	85	121.5	109	125	4	9	2	1.5	0.55	1.10	0.60	1.75
	130	33.25	31	27	2	1.5	218	234	36.4	2 900	3 900	**32215JR**		4DC	30.2	85	85	121.5	114	125	4	6	2	1.5	0.44	1.38	0.76	1.77
	130	41	41	31	2	1.5	266	310	47.7	2 900	3 900	**33215JR**		3EE	32.5	85	83	121.5	111	125	7	10	2	1.5	0.43	1.40	0.77	2.26
	150	42	38	29	3	3	240	270	39.0	2 200	3 100	**T7FC075**		7FC	50.6	89	89	136	114	143	5	13	2.5	2.5	0.87	0.69	0.38	3.24
	160	40	37	26	3	2.5	266	254	34.2	2 100	2 900	**30315DJR**		7GB	49.9	89	91	148	127	151	6	14	2.5	2	0.83	0.73	0.40	3.45
	160	40	37	26	3	2.5	277	266	36.9	2 100	2 900	**30315DR**		—	48.8	89	91	148	127	151	6	14	2.5	2	0.81	0.74	0.41	3.48
	160	40	37	31	3	2.5	310	296	42.1	2 500	3 400	**30315CR**		—	39.2	89	94	148	130	150	6	9	2.5	2	0.55	1.10	0.60	3.80
	160	40	37	31	3	2.5	325	311	44.9	2 500	3 300	**30315JR**		2GB	32.5	89	95	148	139	149	4	9	2.5	2	0.35	1.74	0.96	3.65
	160	40	37	31	3	2.5	313	298	43.3	2 500	3 300	**30315R**		—	31.9	89	95	148	139	149	4	9	2.5	2	0.35	1.73	0.95	3.52
	160	58	55	43	3	2.5	447	474	61.4	2 500	3 400	**32315CR**		—	46.6	89	90	148	125	154	6	15	2.5	2	0.55	1.10	0.60	5.50
	160	58	55	45	3	2.5	454	481	64.6	2 500	3 300	**32315JR**		2GD	40.0	89	91	148	133	149	4	13	2.5	2	0.35	1.74	0.96	5.41
	160	58	55	45	3	2.5	425	444	60.3	2 500	3 300	**32315R**		—	39.5	89	91	148	133	149	4	13	2.5	2	0.35	1.73	0.95	5.30
80	110	20	20	16	1	1	95.1	131	19.5	3 100	4 200	**32916JR**		2BC	20.1	85.5	86	104.5	101	106	4	4	1	1	0.35	1.71	0.94	0.556
	125	29	29	22	1.5	1.5	185	225	34.6	2 900	3 900	**32016JR**		3CC	26.7	88.5	89	116.5	112	120	6	7	1.5	1.5	0.42	1.42	0.78	1.32
	125	36	36	29.5	1.5	1.5	218	288	44.8	2 900	3 900	**33016JR**		2CE	25.1	88.5	90	116.5	112	119	6	6.5	1.5	1.5	0.28	2.16	1.19	1.63
	130	37	37	29	2	1.5	240	294	44.9	2 800	3 800	**33116JR**		3DE	30.5	90	89	121.5	114	126	6	8	2	1.5	0.42	1.44	0.79	1.93

[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.

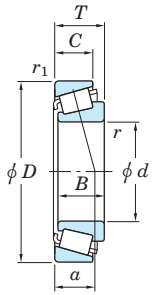
d (80) ~ (90) mm

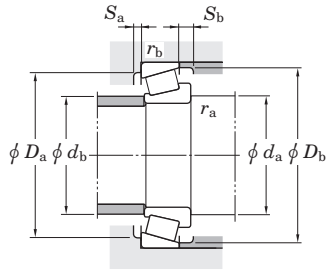




Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)								Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	Mass (kg)
80	140	28.25	26	22	2.5	2	202	202	31.2	2 700	3 600	**30216JR**		3EB	28.6	92	91	130	124	132	4	6	2	2	0.42	1.43	0.79	1.72
	140	35.25	33	28	2.5	2	253	271	41.5	2 700	3 600	**32216JR**		3EC	31.7	92	90	130	122	134	4	7	2	2	0.42	1.43	0.79	2.17
	140	46	46	35	2.5	2	313	371	56.1	2 700	3 600	**33216JR**		3EE	35.7	92	89	130	119	135	7	11	2	2	0.43	1.41	0.78	2.99
	145	46	45	38	3	2.5	333	381	52.0	2 600	3 500	**T2ED080**		2ED	32.7	94	92	133	125	137	7	8	2.5	2	0.32	1.88	1.03	3.20
	170	42.5	39	27	3	2.5	294	282	38.7	2 000	2 800	**30316DJR**		7GB	53.5	94	97	158	134	159	6	15.5	2.5	2	0.83	0.73	0.40	4.12
	170	42.5	39	33	3	2.5	368	355	49.9	2 300	3 100	**30316JR**		2GB	34.8	94	102	158	148	159	4	9.5	2.5	2	0.35	1.74	0.96	4.46
	170	42.5	39	33	3	2.5	345	330	47.1	2 300	3 100	**30316R**		—	33.9	94	102	158	148	159	4	9.5	2.5	2	0.35	1.73	0.95	4.26
	170	61.5	58	48	3	2.5	434	440	58.6	2 300	3 100	**32316J**		2GD	43.5	94	98	158	142	159	4	13.5	2.5	2	0.35	1.74	0.96	6.04
	170	61.5	58	48	3	2.5	480	503	67.0	2 300	3 100	**32316JR**		2GD	43.5	94	98	158	142	159	4	13.5	2.5	2	0.35	1.74	0.96	6.31
85	120	23	23	18	1.5	1.5	122	165	25.0	2 900	3 900	**32917JR**		2BC	21.2	93.5	93	111.5	109	115	5	5	1.5	1.5	0.33	1.83	1.01	0.794
	130	29	29	22	1.5	1.5	189	234	35.5	2 800	3 700	**32017JR**		4CC	28.0	93.5	94	121.5	117	125	6	7	1.5	1.5	0.44	1.36	0.75	1.38
	130	36	36	29.5	1.5	1.5	222	300	46.0	2 800	3 700	**33017JR**		2CE	26.3	93.5	94	121.5	118	125	6	6.5	1.5	1.5	0.29	2.06	1.13	1.72
	140	41	41	32	2.5	2	282	346	52.2	2 600	3 500	**33117JR**		3DE	33.2	97	95	130	122	135	7	9	2	2	0.41	1.48	0.81	2.43
	150	30.5	28	24	2.5	2	228	231	35.1	2 500	3 400	**30217JR**		3EB	30.4	97	97	140	132	141	5	6.5	2	2	0.42	1.43	0.79	2.17
	150	38.5	36	30	2.5	2	290	315	47.5	2 500	3 400	**32217JR**		3EC	34.2	97	96	140	130	142	5	8.5	2	2	0.42	1.43	0.79	2.80
	150	49	49	37	2.5	2	368	439	59.1	2 500	3 400	**33217JR**		3EE	37.1	97	95	140	128	144	7	12	2	2	0.42	1.43	0.79	3.63
	180	44.5	41	28	4	3	288	265	36.0	1 900	2 600	**30317D**		—	56.0	103	103	166	143	169	6	16.5	3	2.5	0.81	0.74	0.41	4.54
	180	44.5	41	28	4	3	328	317	42.6	1 900	2 600	**30317DJR**		7GB	56.3	103	103	166	143	169	6	16.5	3	2.5	0.83	0.73	0.40	4.81
	180	44.5	41	34	4	3	396	384	53.0	2 200	2 900	**30317JR**		2GB	36.0	103	107	166	156	167	5	10.5	3	2.5	0.35	1.74	0.96	5.15
	180	44.5	41	34	4	3	381	367	51.1	2 200	2 900	**30317R**		—	35.8	103	107	166	156	167	5	10.5	3	2.5	0.35	1.73	0.95	4.97
	180	63.5	60	49	4	3	549	587	77.6	2 200	3 000	**32317JR**		2GD	43.8	103	103	166	150	167	5	14.5	3	2.5	0.35	1.74	0.96	7.42
90	125	23	23	18	1.5	1.5	126	175	26.2	2 800	3 700	**32918JR**		2BC	22.3	98.5	97	116.5	114	120	5	5	1.5	1.5	0.34	1.75	0.96	0.834
	140	32	32	24	2	1.5	224	276	41.5	2 600	3 500	**32018JR**		3CC	29.8	100	100	131.5	125	134	6	8	2	1.5	0.42	1.42	0.78	1.80
	140	39	39	32.5	2	1.5	278	367	55.6	2 600	3 400	**33018JR**		2CE	27.1	100	100	131.5	127	135	7	6.5	2	1.5	0.27	2.23	1.23	2.22
	150	45	45	35	2.5	2	324	413	61.1	2 500	3 300	**33118JR**		3DE	35.4	102	100	140	130	144	7	10	2	2	0.40	1.51	0.83	3.13
	155	46	46	38	3	3	342	405	54.1	2 400	3 200	**T2ED090**		2ED	33.5	104	102	141	135	147	7	8	2.5	2.5	0.33	1.84	1.01	3.47
	160	32.5	30	26	2.5	2	255	261	39.0	2 400	3 200	**30218JR**		3FB	32.6	102	103	150	140	150	5	6.5	2	2	0.42	1.43	0.79	2.65
	160	42.5	40	34	2.5	2	329	362	53.7	2 400	3 200	**32218JR**		3FC	37.0	102	102	150	138	152	5	8.5	2	2	0.42	1.43	0.79	3.47

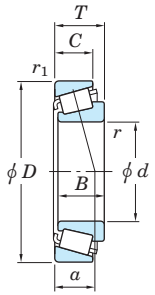
d (90) ~ (100) mm

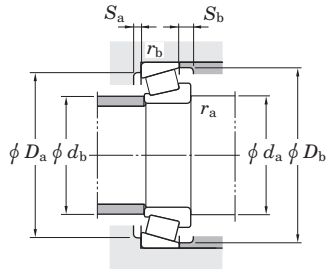




Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)								Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	Mass (kg)
90	160	55	55	42	2.5	2	430	527	68.3	2 400	3 200	**33218JR**		3FE	40.8	102	101	150	154	9	13	2	2	0.42	1.43	0.78	4.76
	190	46.5	43	30	4	3	359	350	46.2	1 700	2 400	**30318DJR**		7GB	59.6	108	109	176	179	6	16.5	3	2.5	0.83	0.73	0.40	5.57
	190	46.5	43	30	4	3	352	336	44.9	1 700	2 400	**30318DR**		—	59.1	108	109	176	179	6	16.5	3	2.5	0.81	0.74	0.41	5.60
	190	46.5	43	36	4	3	432	420	57.1	2 100	2 700	**30318JR**		2GB	38.1	108	113	176	177	5	10.5	3	2.5	0.35	1.74	0.96	6.04
	190	46.5	43	36	4	3	421	407	55.5	2 100	2 700	**30318R**		—	37.2	108	113	176	177	5	10.5	3	2.5	0.35	1.73	0.95	5.78
	190	67.5	64	53	4	3	577	614	78.7	2 100	2 800	**32318JR**		2GD	46.6	108	108	176	177	5	14.5	3	2.5	0.35	1.74	0.96	8.61
95	130	23	23	18	1.5	1.5	130	186	27.4	2 600	3 500	**32919JR**		2BC	23.5	103.5	102	121.5	125	5	5	1.5	1.5	0.36	1.68	0.92	0.876
	145	32	32	24	2	1.5	229	287	42.6	2 500	3 300	**32019JR**		4CC	31.2	105	105	136.5	140	6	8	2	1.5	0.44	1.36	0.75	1.88
	145	39	39	32.5	2	1.5	284	382	57.3	2 500	3 300	**33019JR**		2CE	27.8	105	104	136.5	139	7	6.5	2	1.5	0.28	2.16	1.19	2.31
	160	46	46	38	3	3	353	427	56.4	2 300	3 100	**T2ED095**		2ED	34.6	109	107	146	152	7	8	2.5	2.5	0.34	1.77	0.97	3.62
	160	49	49	38	2.5	2	381	473	62.5	2 300	3 100	**33119JR**		3EE	37.3	107	106	150	154	8	11	2	2	0.39	1.54	0.85	3.89
	170	34.5	32	27	3	2.5	289	299	44.0	2 200	3 000	**30219JR**		3FB	34.9	109	110	158	159	5	7.5	2.5	2	0.42	1.43	0.79	3.20
	170	45.5	43	37	3	2.5	389	439	64.1	2 200	3 000	**32219JR**		3FC	38.9	109	108	158	161	5	8.5	2.5	2	0.42	1.43	0.79	4.34
	170	58	58	44	3	2.5	468	582	74.0	2 200	2 900	**33219JR**		3FE	42.8	109	107	158	163	9	14	2.5	2	0.41	1.47	0.81	5.66
	200	49.5	45	32	4	3	398	391	50.4	1 700	2 300	**30319DJR**		7GB	62.7	113	113	186	187	6	17.5	3	2.5	0.83	0.73	0.40	6.68
	200	49.5	45	38	4	3	396	368	49.2	2 000	2 600	**30319**		—	39.8	113	118	186	186	5	11.5	3	2.5	0.35	1.73	0.95	6.32
	200	49.5	45	38	4	3	465	455	60.9	2 000	2 600	**30319JR**		2GB	40.8	113	118	186	186	5	11.5	3	2.5	0.35	1.74	0.96	6.96
	200	71.5	67	55	4	3	534	544	70.2	2 000	2 600	**32319**		—	49.1	113	115	186	186	5	16.5	3	2.5	0.35	1.73	0.95	9.35
	200	71.5	67	55	4	3	646	695	89.2	2 000	2 600	**32319JR**		2GD	49.8	113	115	186	186	5	16.5	3	2.5	0.35	1.74	0.96	10.1
100	140	25	25	20	1.5	1.5	158	217	32.0	2 400	3 300	**32920JR**		2CC	24.0	109	108	131	135	5	5	1.5	1.5	0.33	1.82	1.00	1.19
	145	24	22.5	17.5	3	3	146	167	24.6	2 400	3 200	**T4CB100**		4CB	29.9	112	109	133	140	4	6.5	2.5	2.5	0.47	1.27	0.70	1.12
	150	32	32	24	2	1.5	233	298	43.8	2 400	3 200	**32020JR**		4CC	32.6	110	109	141	144	6	8	2	1.5	0.46	1.31	0.72	1.95
	150	39	39	32.5	2	1.5	290	397	59.0	2 400	3 200	**33020JR**		2CE	28.6	110	108	141	143	7	6.5	2	1.5	0.29	2.09	1.15	2.40
	165	47	46	39	3	3	368	458	59.5	2 200	3 000	**T2EE100**		2EE	35.1	114	112	151	157	7	8	2.5	2.5	0.32	1.88	1.04	3.86
	165	52	52	40	2.5	2	408	523	67.4	2 200	3 000	**33120JR**		3EE	40.1	112	111	155	159	8	12	2	2	0.41	1.48	0.81	4.29
	180	37	34	29	3	2.5	323	338	49.1	2 100	2 800	**30220JR**		3FB	36.8	114	116	168	168	5	8	2.5	2	0.42	1.43	0.79	3.83
	180	49	46	39	3	2.5	435	495	63.9	2 100	2 800	**32220JR**		3FC	42.1	114	114	168	171	5	10	2.5	2	0.42	1.43	0.79	5.21
	180	63	63	48	3	2.5	540	680	85.8	2 100	2 800	**33220JR**		3FE	45.7	114	112	168	172	10	15	2.5	2	0.40	1.48	0.82	6.92

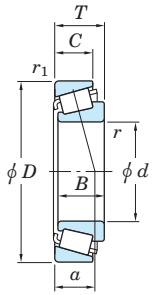
d (100) ~ (110) mm

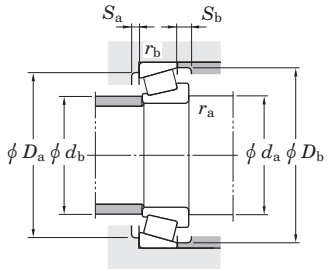




Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)									Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	Mass (kg)
100	215	51.5	47	34	4	3	397	374	48.5	1 500	2 100	**30320D**		—	65.9	118	121	201	183	204	5	17	3	2.5	0.81	0.74	0.41	8.02
	215	51.5	47	39	4	3	430	400	52.5	1 800	2 400	**30320**		—	41.4	118	127	201	184	200	6	12.5	3	2.5	0.35	1.73	0.95	7.76
	215	51.5	47	39	4	3	528	521	68.0	1 800	2 400	**30320JR**		2GB	42.7	118	127	201	184	200	6	12.5	3	2.5	0.35	1.74	0.96	8.49
	215	56.5	51	35	4	3	465	459	56.4	1 500	2 200	**31320JR**		7GB	67.7	118	120	201	183	202	6	17.5	3	2.5	0.83	0.73	0.40	8.72
	215	77.5	73	60	4	3	614	637	79.6	1 800	2 400	**32320**		—	52.6	118	123	201	177	200	8	17.5	3	2.5	0.35	1.73	0.95	12.2
	215	77.5	73	60	4	3	725	783	96.9	1 800	2 400	**32320JR**		2GD	53.9	118	123	201	177	200	8	17.5	3	2.5	0.35	1.74	0.96	13.0
105	145	25	25	20	1.5	1.5	160	224	32.6	2 400	3 100	**32921JR**		2CC	25.1	113.5	113	136.5	133	140	5	5	1.5	1.5	0.34	1.75	0.96	1.23
	160	35	35	26	2.5	2	270	344	49.9	2 200	3 000	**32021JR**		4DC	34.5	117	116	150	143	154	6	9	2	2	0.44	1.35	0.74	2.45
	160	43	43	34	2.5	2	335	461	67.4	2 200	3 000	**33021JR**		2DE	30.9	117	116	150	145	153	7	9	2	2	0.28	2.12	1.17	3.08
	175	56	56	44	2.5	2	453	607	76.0	2 100	2 800	**33121JR**		3EE	43.2	117	116	165	150	169	9	12	2	2	0.40	1.48	0.82	5.33
	190	39	36	30	3	2.5	360	380	52.3	2 000	2 600	**30221JR**		3FB	39.0	119	122	178	165	178	6	9	2.5	2	0.42	1.43	0.79	4.49
	190	53	50	43	3	2.5	490	567	73.0	2 000	2 700	**32221JR**		3FC	44.8	119	120	178	161	180	6	10	2.5	2	0.42	1.43	0.79	6.37
	190	68	68	52	3	2.5	622	790	97.4	2 000	2 600	**33221JR**		3FE	48.8	119	117	178	159	182	10	16	2.5	2	0.40	1.49	0.82	8.43
	225	53.5	49	36	4	3	423	396	50.1	1 400	2 000	**30321D**		—	69.1	123	127	211	193	209	6	17	3	2.5	0.81	0.74	0.41	8.76
	225	53.5	49	41	4	3	464	432	56.0	1 700	2 300	**30321**		—	43.1	123	132	211	193	209	7	12.5	3	2.5	0.35	1.73	0.95	8.74
	225	53.5	49	41	4	3	581	578	73.6	1 700	2 300	**30321JR**		2GB	44.1	123	132	211	193	209	7	12.5	3	2.5	0.35	1.74	0.96	9.73
	225	58	53	36	4	3	495	489	59.4	1 500	2 100	**31321JR**		7GB	70.3	123	126	211	193	211	6	18	3	2.5	0.83	0.73	0.40	9.72
	225	81.5	77	63	4	3	679	707	86.7	1 800	2 300	**32321**		—	55.7	123	128	211	185	209	8	18.5	3	2.5	0.35	1.73	0.95	13.9
	225	81.5	77	63	4	3	794	866	107	1 800	2 300	**32321JR**		2GD	56.1	123	128	211	185	209	8	18.5	3	2.5	0.35	1.74	0.96	14.9
110	150	25	25	20	1.5	1.5	162	231	33.3	2 300	3 000	**32922JR**		2CC	26.3	119	118	141	138	145	5	5	1.5	1.5	0.36	1.69	0.93	1.28
	160	27	25.5	19.5	3	3	183	225	32.3	2 200	2 900	**T4CB110**		4CB	31.8	124	120	146	145	154	5	7.5	2.5	2.5	0.44	1.36	0.75	1.63
	170	38	38	29	2.5	2	312	395	56.7	2 100	2 800	**32022JR**		4DC	36.1	122	122	160	152	163	7	9	2	2	0.43	1.39	0.77	3.12
	170	47	47	37	2.5	2	360	502	64.9	2 100	2 800	**33022JR**		2DE	33.4	122	123	160	152	161	7	10	2	2	0.29	2.09	1.15	3.81
	180	56	56	43	2.5	2	464	634	78.6	2 000	2 700	**33122JR**		3EE	44.5	122	121	170	155	174	9	13	2	2	0.42	1.43	0.79	5.52
	200	41	38	32	3	2.5	405	434	58.1	1 900	2 500	**30222JR**		3FB	40.8	124	129	188	174	188	6	9	2.5	2	0.42	1.43	0.79	5.33
	200	56	53	46	3	2.5	547	640	80.4	1 900	2 500	**32222JR**		3FC	46.7	124	126	188	170	190	6	10	2.5	2	0.42	1.43	0.79	7.45
	240	54.5	50	36	4	3	456	429	53.5	1 400	1 900	**30322D**		—	71.5	128	135	226	205	222	6	18	3	2.5	0.81	0.74	0.41	10.2
	240	54.5	50	42	4	3	509	475	60.5	1 600	2 100	**30322**		—	44.8	128	141	226	206	222	8	12.5	3	2.5	0.35	1.73	0.95	10.4

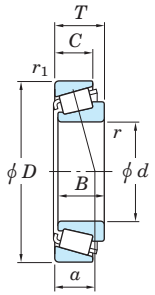
d (110) ~ 130 mm

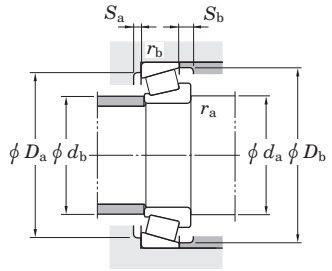




Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)									Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	(kg)
110	240	54.5	50	42	4	3	601	590	75.2	1 600	2 100	**30322JR**		2GB	46.3	128	141	226	206	222	8	12.5	3	2.5	0.35	1.74	0.96	11.4
	240	63	57	38	4	3	564	563	68.4	1 400	1 900	**31322JR**		7GB	76.2	128	135	226	205	224	6	21	3	2.5	0.83	0.73	0.40	12.2
	240	84.5	80	65	4	3	759	797	97.4	1 600	2 200	**32322**		—	57.3	128	137	226	198	222	9	19.5	3	2.5	0.35	1.73	0.95	16.6
	240	84.5	80	65	4	3	865	943	115	1 600	2 200	**32322JR**		2GD	59.3	128	137	226	198	222	9	19.5	3	2.5	0.35	1.74	0.96	17.8
120	165	29	29	23	1.5	1.5	215	298	42.5	2 100	2 700	**32924JR**		2CC	29.4	129	128	156	152	160	6	6	1.5	1.5	0.35	1.72	0.95	1.77
	170	27	25	19.5	3	3	206	262	37.0	2 000	2 700	**T4CB120**		4CB	34.6	134	130	156	155	164	4	7.5	2.5	2.5	0.47	1.27	0.70	1.76
	180	38	38	29	2.5	2	325	427	60.0	2 000	2 600	**32024JR**		4DC	38.8	132	131	170	161	173	7	9	2	2	0.46	1.31	0.72	3.34
	180	48	48	38	2.5	2	375	540	68.5	2 000	2 600	**33024JR**		2DE	36.2	132	132	170	160	171	6	10	2	2	0.31	1.97	1.08	4.16
	200	62	62	48	2.5	2	581	785	96.1	1 800	2 400	**33124JR**		3FE	47.8	132	133	190	172	192	9	14	2	2	0.40	1.51	0.83	7.73
	215	43.5	40	34	3	2.5	435	473	61.7	1 700	2 300	**30224JR**		4FB	44.2	134	140	203	187	203	6	9.5	2.5	2	0.44	1.38	0.76	6.36
	215	61.5	58	50	3	2.5	589	691	84.0	1 700	2 300	**32224JR**		4FD	51.6	134	136	203	181	204	7	11.5	2.5	2	0.44	1.38	0.76	9.04
	260	59.5	55	38	4	3	536	512	61.5	1 200	1 700	**30324D**		—	77.8	138	145	246	219	239	6	21	3	2.5	0.81	0.74	0.41	13.0
	260	59.5	55	46	4	3	631	611	76.9	1 500	2 000	**30324**		—	48.9	138	152	246	221	239	10	13.5	3	2.5	0.35	1.73	0.95	13.7
	260	59.5	55	46	4	3	712	714	89.9	1 500	2 000	**30324JR**		2GB	50.2	138	152	246	221	239	10	13.5	3	2.5	0.35	1.74	0.96	14.5
	260	68	62	42	4	3	657	665	77.8	1 300	1 800	**31324JR**		7GB	81.9	138	145	246	221	244	6	21	3	2.5	0.83	0.73	0.40	15.4
	260	90.5	86	69	4	3	1 000	1 110	131	1 500	2 000	**32324JR**		2GD	62.7	138	148	246	213	239	9	21.5	3	2.5	0.35	1.74	0.96	22.2
	260	90.5	86	69	4	3	997	1 110	132	1 500	2 000	**32324R**		—	61.1	138	148	246	213	239	9	21.5	3	2.5	0.35	1.73	0.95	21.8
130	180	32	32	25	2	1.5	251	368	51.2	1 900	2 500	**32926JR**		2CC	31.4	140	141	171	165	174	6	7	2	1.5	0.34	1.77	0.97	2.42
	185	29	27	21	3	3	230	282	39.2	1 800	2 500	**T4CB130**		4CB	37.8	144	141	171	170	179	5	8	2.5	2.5	0.47	1.27	0.70	2.22
	200	45	45	34	2.5	2	428	563	77.4	1 800	2 300	**32026JR**		4EC	42.9	142	144	190	178	192	8	11	2	2	0.43	1.38	0.76	5.04
	200	55	55	43	2.5	2	489	705	85.8	1 700	2 300	**33026JR**		2EE	42.5	142	143	190	178	192	8	12	2	2	0.34	1.76	0.97	6.19
	230	43.75	40	34	4	3	472	511	65.7	1 600	2 100	**30226JR**		4FB	46.2	148	152	216	203	218	7	9.5	3	2.5	0.44	1.38	0.76	7.24
	230	67.75	64	54	4	3	693	830	99.9	1 600	2 200	**32226JR**		4FD	56.0	148	146	216	193	219	7	13.5	3	2.5	0.44	1.38	0.76	11.5
	280	63.75	58	41	5	4	604	582	69.9	1 200	1 600	**30326D**		—	84.0	152	155	262	240	261	7	22	4	3	0.81	0.74	0.41	16.3
	280	63.75	58	49	5	4	823	834	102	1 400	1 800	**30326JR**		2GB	54.0	152	164	262	239	255	8	14.5	4	3	0.35	1.74	0.96	18.1
	280	72	66	44	5	4	734	748	85.7	1 200	1 600	**31326JR**		7GB	87.3	152	155	262	236	261	7	23	4	3	0.83	0.73	0.40	18.9
	280	98.75	93	78	5	4	1 070	1 160	134	1 400	1 800	**32326**		—	69.1	152	163	262	226	259	10	15	4	3	0.35	1.73	0.95	26.5

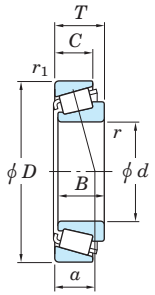
d 140 ~ (170) mm

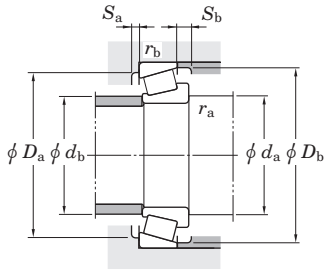




Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)								Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	Mass (kg)
140	190	32	32	25	2	1.5	258	390	53.2	1 800	2 300	**32928JR**		2CC	33.6	150	150	181	184	6	7	2	1.5	0.36	1.67	0.92	2.57
	195	29	27	21	3	3	232	293	39.9	1 700	2 300	**T4CB140**		4CB	40.9	154	151	181	189	5	8	2.5	2.5	0.50	1.19	0.66	2.36
	210	45	45	34	2.5	2	435	585	79.2	1 700	2 200	**32028JR**		4DC	45.6	152	153	200	202	8	11	2	2	0.46	1.31	0.72	5.28
	210	56	56	44	2.5	2	510	758	90.9	1 600	2 200	**33028JR**		2DE	45.6	152	152	200	186	202	7	12	2	2	0.36	1.67	0.92	6.61
	250	45.75	42	36	4	3	526	570	71.8	1 500	1 900	**30228JR**		4FB	49.4	158	163	236	219	237	9	9.5	3	2.5	0.44	1.38	0.76	8.97
	250	71.75	68	58	4	3	796	961	112	1 500	2 000	**32228JR**		4FD	60.0	158	158	236	210	238	9	13.5	3	2.5	0.44	1.38	0.76	14.7
	300	67.75	62	44	5	4	655	627	74.5	1 100	1 500	**30328D**		—	90.2	162	169	282	254	280	7	23	4	3	0.81	0.74	0.41	20.0
	300	67.75	62	53	5	4	938	962	114	1 300	1 700	**30328JR**		2GB	56.9	162	179	282	254	273	10	14.5	4	3	0.35	1.74	0.96	22.6
	300	77	70	47	5	4	841	865	99.1	1 100	1 500	**31328JR**		7GB	93.8	162	167	282	254	280	8	26	4	3	0.83	0.73	0.40	23.3
	300	107.75	102	85	5	4	1 370	1 570	175	1 300	1 700	**32328R**		—	74.2	162	175	282	246	280	10	17	4	3	0.35	1.74	0.96	35.1
150	210	38	38	30	2.5	2	358	536	72.1	1 600	2 100	**32930JR**		2DC	36.1	162	163	200	194	202	7	8	2	2	0.33	1.83	1.01	3.96
	225	48	48	36	3	2.5	492	668	79.6	1 500	2 000	**32030JR**		4EC	48.8	164	164	213	200	216	8	12	2.5	2	0.46	1.31	0.72	6.41
	225	59	59	46	3	2.5	575	869	101	1 500	2 000	**33030JR**		2EE	47.8	164	164	213	200	217	8	13	2.5	2	0.36	1.65	0.90	8.09
	270	49	45	38	4	3	604	664	80.9	1 300	1 800	**30230JR**		4GB	52.4	168	175	256	234	255	9	11	3	2.5	0.44	1.38	0.76	11.6
	270	77	73	60	4	3	881	1 070	122	1 300	1 800	**32230JR**		4GD	65.2	168	170	256	226	254	8	17	3	2.5	0.44	1.38	0.76	18.2
	320	72	65	46	5	4	768	750	85.7	970	1 400	**30330D**		—	96.0	172	183	302	270	301	9	26	4	3	0.81	0.74	0.41	23.9
	320	72	65	55	5	4	1 050	1 080	129	1 200	1 500	**30330JR**		2GB	60.8	172	193	302	272	292	12	17	4	3	0.35	1.74	0.96	26.6
	320	82	75	50	5	4	952	989	110	980	1 400	**31330JR**		7GB	100.1	172	179	302	272	301	9	27	4	3	0.83	0.73	0.40	28.0
	320	114	108	90	5	4	1 550	1 790	195	1 200	1 600	**32330R**		—	78.4	172	187	302	263	298	10	17	4	3	0.35	1.74	0.96	42.0
160	220	32	30	23	3	3	282	379	50.2	1 500	2 000	**T4DB160**		4DB	44.7	174	172	206	204	213	5	9	2.5	2.5	0.49	1.23	0.68	3.23
	220	38	38	30	2.5	2	368	568	75.2	1 500	2 000	**32932JR**		2DC	38.4	172	173	210	204	212	7	8	2	2	0.35	1.73	0.95	4.19
	240	51	51	38	3	2.5	553	758	90.3	1 400	1 900	**32032JR**		4EC	52.1	174	175	228	213	231	8	13	2.5	2	0.46	1.31	0.72	7.75
	290	52	48	40	4	3	679	750	89.3	1 200	1 600	**30232JR**		4GB	56.3	178	189	276	252	269	8	12	3	2.5	0.44	1.38	0.76	14.1
	290	84	80	67	4	3	994	1 210	137	1 200	1 700	**32232JR**		4GD	70.3	178	182	276	242	274	10	17	3	2.5	0.44	1.38	0.76	23.2
	340	75	68	48	5	4	926	933	104	900	1 300	**30332D**		—	101.8	182	195	322	290	320	9	27	4	3	0.81	0.74	0.41	29.1
	340	75	68	58	5	4	1 170	1 220	142	1 100	1 400	**30332JR**		2GB	63.3	182	205	322	289	310	12	17	4	3	0.35	1.74	0.96	31.8
	340	121	114	95	5	4	1 530	1 720	187	1 100	1 400	**32332**		—	83.0	182	200	322	277	316	10	18	4	3	0.35	1.73	0.95	47.9
170	230	38	38	30	2.5	2	370	606	78.8	1 400	1 900	**32934JR**		3DC	42.0	182	183	220	213	222	7	8	2	2	0.38	1.57	0.86	4.49

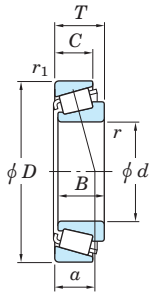
d (170) ~ 200 mm

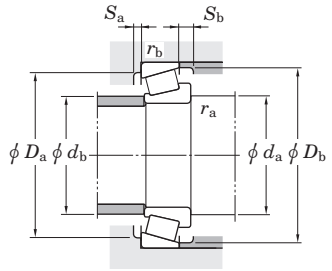




Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)								Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	(kg)
170	260	57	57	43	3	2.5	661	905	105	1 300	1 700	**32034JR**		4EC	55.8	184	187	248	249	10	14	2.5	2	0.44	1.35	0.74	10.5
	310	57	52	43	5	4	776	867	103	1 100	1 500	**30234JR**		4GB	61.2	192	202	292	288	8	14	4	3	0.44	1.38	0.76	17.8
	310	91	86	71	5	4	1 120	1 380	152	1 100	1 500	**32234JR**		4GD	76.2	192	195	292	294	10	20	4	3	0.44	1.38	0.76	28.9
	360	80	72	50	5	4	953	1 040	115	830	1 200	**30334D**		—	108.3	192	211	342	333	9	30	4	3	0.81	0.74	0.41	34.3
	360	80	72	62	5	4	1 300	1 370	155	1 000	1 300	**30334JR**		2GB	67.9	192	218	342	329	13	18	4	3	0.35	1.74	0.96	37.5
	360	127	120	100	5	4	1 640	1 830	193	1 000	1 300	**32334**		—	86.1	192	200	342	337	14	26	4	3	0.35	1.73	0.95	56.9
180	250	45	45	34	2.5	2	447	735	93.4	1 300	1 700	**32936JR**		4DC	53.5	192	193	240	241	8	11	2	2	0.48	1.25	0.69	6.64
	280	64	64	48	3	2.5	810	1 100	127	1 200	1 600	**32036JR**		3FD	59.5	194	199	268	268	10	16	2.5	2	0.42	1.42	0.78	14.1
	320	57	52	43	5	4	771	870	102	1 100	1 400	**30236JR**		4GB	63.6	202	211	302	297	9	14	4	3	0.45	1.33	0.73	18.3
	320	91	86	71	5	4	1 200	1 520	164	1 100	1 500	**32236JR**		4GD	77.8	202	204	302	303	10	20	4	3	0.45	1.33	0.73	29.9
	380	83	75	52	5	4	1 040	1 150	125	780	1 100	**30336D**		—	112.8	202	225	362	351	10	31	4	3	0.81	0.74	0.41	40.1
	380	83	75	64	5	4	1 130	1 110	126	940	1 300	**30336**		—	71.0	202	227	362	346	13	19	4	3	0.35	1.73	0.95	39.7
	380	134	126	106	5	4	1 760	1 980	206	960	1 300	**32336**		—	91.8	202	215	362	355	14	27	4	3	0.35	1.73	0.95	67.0
190	260	45	45	34	2.5	2	459	789	88.6	1 200	1 600	**32938JR**		4DC	55.0	202	204	250	252	8	11	2	2	0.48	1.26	0.69	6.89
	290	64	64	48	3	2.5	823	1 170	131	1 100	1 500	**32038JR**		4FD	62.9	204	209	278	279	10	16	2.5	2	0.44	1.36	0.75	14.7
	340	60	55	46	5	4	912	1 030	118	1 000	1 300	**30238JR**		4GB	66.4	212	225	322	318	12	13	4	3	0.44	1.38	0.76	21.9
	340	97	92	75	5	4	1 370	1 740	187	1 000	1 300	**32238JR**		4GD	81.9	212	216	322	323	12	22	4	3	0.44	1.38	0.76	36.6
	400	86	78	52	6	5	1 190	1 210	131	740	1 000	**30338D**		—	119.2	218	232	378	372	11	34	5	4	0.81	0.74	0.41	44.8
	400	86	78	65	6	5	1 260	1 250	139	880	1 200	**30338**		—	73.2	218	241	378	370	10	20	5	4	0.35	1.73	0.95	46.2
	400	140	132	109	6	5	1 940	2 190	224	890	1 200	**32338**		—	96.5	218	225	378	375	14	30	5	4	0.35	1.73	0.95	76.6
200	280	51	51	39	3	2.5	608	958	109	1 100	1 500	**32940JR**		3EC	53.6	214	216	268	271	9	12	2.5	2	0.39	1.52	0.84	9.44
	310	70	70	53	3	2.5	949	1 340	146	1 100	1 400	**32040JR**		4FD	66.9	214	221	298	297	11	17	2.5	2	0.43	1.39	0.77	19.1
	360	64	58	48	5	4	991	1 120	126	940	1 200	**30240JR**		4GB	70.3	222	238	342	336	12	15	4	3	0.44	1.38	0.76	26.4
	360	104	98	82	5	4	1 550	1 880	200	960	1 300	**32240JR**		3GD	84.6	222	225	342	340	11	22	4	3	0.41	1.48	0.81	44.2
	420	89	80	56	6	5	1 130	1 230	132	690	970	**30340D**		—	122.6	228	248	398	385	11	33	5	4	0.81	0.74	0.41	50.6
	420	89	80	67	6	5	1 400	1 450	159	820	1 100	**30340**		—	79.8	228	255	398	385	11	21	5	4	0.35	1.73	0.95	53.5
	420	146	138	115	6	5	2 240	2 580	260	830	1 100	**32340**		—	102.9	228	240	398	395	16	30	5	4	0.35	1.73	0.95	91.0

d 220 ~ 360 mm

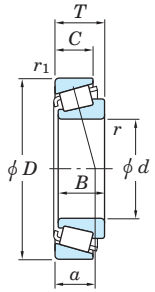


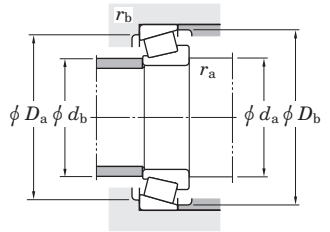


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Dimension series to ISO355 (Refer.)	Load center (mm)	Mounting dimensions (mm)								Constant	Axial load factors		(Refer.) Mass
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.				a	d_a min.	d_b max.	D_a max.	D_b min.	S_a min.	S_b min.	r_a max.	r_b max.	e	Y_1	Y_0	Mass (kg)
220	300	51	51	39	3	2.5	621	1 010	112	1 000	1 400	**32944JR**		3EC	58.6	234	234	288	290	9	12	2.5	2	0.43	1.41	0.78	10.1
	340	76	76	57	4	3	1 120	1 620	175	940	1 300	**32044JR**		4FD	72.8	238	243	326	326	12	19	3	2.5	0.43	1.39	0.77	25.2
	400	72	65	54	5	4	1 260	1 440	160	830	1 100	**30244JR**		—	76.5	242	263	382	371	14	17	4	3	0.44	1.43	0.79	35.9
	400	114	108	90	5	4	1 500	1 930	198	830	1 100	**32244**		—	95.9	242	260	382	377	16	14	4	3	0.43	1.39	0.77	56.8
	460	97	88	73	6	5	1 570	1 680	181	730	980	**30344**		—	84.6	248	282	438	420	12	23	5	4	0.35	1.73	0.95	69.0
240	320	51	51	39	3	2.5	645	1 090	119	940	1 300	**32948JR**		4EC	64.5	254	254	308	311	9	12	2.5	2	0.46	1.31	0.72	10.9
	360	76	76	57	4	3	1 160	1 720	180	870	1 200	**32048JR**		4FD	78.5	258	261	346	346	12	19	3	2.5	0.46	1.31	0.72	26.8
	440	79	72	60	5	4	1 540	1 790	191	730	980	**30248R**		—	82.7	262	287	422	409	14	18	4	3	0.42	1.43	0.79	49.5
	440	127	120	100	5	4	1 920	2 480	245	740	980	**32248**		—	106.1	262	282	422	415	16	14	4	3	0.43	1.39	0.77	76.4
260	360	63.5	63.5	48	3	2.5	926	1 550	163	830	1 100	**32952JR**		3EC	69.6	274	279	348	347	11	15.5	2.5	2	0.41	1.48	0.81	18.9
	400	87	87	65	5	4	1 470	2 170	221	770	1 000	**32052JR**		4FC	85.0	282	287	382	383	14	22	4	3	0.43	1.38	0.76	39.5
	480	89	80	67	6	5	1 510	1 860	190	650	870	**30252**		—	93.6	288	310	458	450	14	21	5	4	0.42	1.44	0.79	64.9
	480	137	130	106	6	5	2 200	2 870	276	660	880	**32252**		—	115.2	288	300	458	455	16	30	5	4	0.43	1.39	0.77	102
280	380	63.5	63.5	48	3	2.5	949	1 630	168	770	1 000	**32956JR**		4EC	75.1	294	298	368	368	11	15.5	2.5	2	0.43	1.39	0.76	20.1
	420	87	87	65	5	4	1 510	2 280	230	720	960	**32056JR**		4FC	91.1	302	305	402	402	14	22	4	3	0.46	1.31	0.72	41.7
	500	89	80	67	6	5	1 580	1 920	196	610	810	**30256**		—	96.2	308	325	478	475	14	21	5	4	0.42	1.44	0.79	67.6
	500	137	130	106	6	5	2 340	3 150	297	610	810	**32256**		—	117.2	308	325	478	474	16	30	5	4	0.43	1.39	0.77	108
300	420	76	76	57	4	3	1 320	2 210	223	680	910	**32960JR**		3FD	79.9	318	324	406	405	12	19	3	2.5	0.39	1.52	0.84	32.4
	460	100	100	74	5	4	1 800	2 660	263	640	850	**32060JR**		4GD	97.9	322	329	442	439	15	26	4	3	0.43	1.38	0.76	57.5
	540	96	85	71	6	5	1 890	2 360	240	550	730	**30260**		—	103.9	328	350	518	505	14	24	5	4	0.42	1.44	0.79	84.7
320	440	76	76	57	4	3	1 330	2 270	226	640	850	**32964JR**		3FD	85.0	338	342	426	426	12	19	3	2.5	0.42	1.44	0.79	34.0
	480	100	100	74	5	4	1 900	2 810	273	600	800	**32064JR**		4GD	103.0	342	344	462	461	16	26	4	3	0.46	1.31	0.72	58.7
	580	104	92	75	6	5	2 190	2 770	273	490	660	**30264**		—	111.9	348	370	558	540	14	28	5	4	0.42	1.44	0.79	108
340	460	76	76	57	4	3	1 340	2 340	229	590	790	**32968JR**		4FD	90.5	358	361	446	446	12	19	3	2.5	0.44	1.37	0.75	35.6
360	480	76	76	57	4	3	1 350	2 400	231	560	740	**32972JR**		4FD	96.2	378	379	466	466	12	19	3	2.5	0.46	1.31	0.72	37.1

Single-row tapered roller bearings
inch series

d 9.525 ~ (22.225) mm



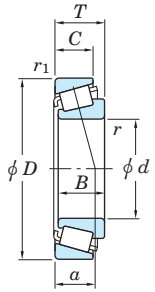


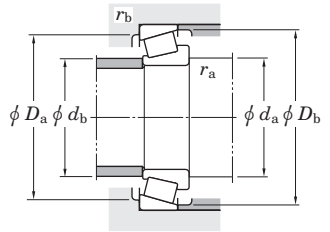
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
9.525	31.991	10.008	10.785	7.938	1.2	1.2	13.4	9.30	1.25	14 000	19 000	**A2037**	**A2126**	7.1	15.0	13.5	26.0	29.0	1.2	1.2	0.40	1.48	0.82	0.029	0.017
11.986	31.991	10.008	10.785	7.938	0.8	1.2	13.4	9.30	1.25	14 000	19 000	**A2047**	**A2126**	7.1	16.5	15.5	26.0	29.0	0.8	1.2	0.40	1.48	0.82	0.023	0.017
12.700	34.988	10.998	10.988	8.730	1.2	1.2	15.7	11.9	1.55	12 000	17 000	**A4050**	**A4138**	8.3	18.5	17.0	29.0	32.0	1.2	1.2	0.45	1.33	0.73	0.033	0.022
14.989	34.988	10.998	10.988	8.730	0.8	1.2	15.7	11.9	1.55	12 000	17 000	**A4059**	**A4138**	8.3	19.5	19.0	29.0	32.0	0.8	1.2	0.45	1.33	0.73	0.029	0.022
15.875	34.988	10.998	10.998	8.712	1.2	1.2	18.1	14.3	1.90	12 000	16 000	**L21549**	**L21511**	7.6	21.5	19.5	29.0	32.5	1.2	1.2	0.32	1.88	1.04	0.031	0.018
	41.275	14.288	14.681	11.112	1.2	2.0	27.3	20.5	2.85	11 000	14 000	**03062**	**03162**	9.3	21.5	20.0	34.0	37.5	1.2	2.0	0.31	1.93	1.06	0.060	0.035
	42.862	16.670	16.670	13.495	1.6	1.6	38.2	29.5	4.15	10 000	14 000	**17580R**	**17520**	10.9	23.0	21.0	36.5	39.0	1.6	1.6	0.33	1.81	1.00	0.078	0.048
	49.225	19.845	21.539	14.288	0.8	1.2	47.2	37.7	5.40	8 900	12 000	**09062**	**09195**	10.6	22.0	21.5	42.0	44.5	0.8	1.2	0.27	2.26	1.24	0.139	0.065
	53.975	22.225	21.839	15.875	0.8	2.4	52.6	41.2	5.65	8 400	11 000	**21063**	**21212**	16.6	29.0	26.5	43.0	50.0	0.8	2.4	0.59	1.02	0.56	0.163	0.097
16.000	47.000	21.000	21.000	16.000	1.0	2.0	45.4	37.7	5.05	9 800	13 000	**HM81649**	**HM81610**	15.0	27.5	23.0	37.5	43.0	1.0	2.0	0.55	1.10	0.60	0.111	0.080
17.462	39.878	13.843	14.605	10.668	1.2	1.2	31.8	26.0	3.60	11 000	14 000	**LM11749R**	**LM11710**	8.6	23.0	21.5	34.0	37.0	1.2	1.2	0.29	2.10	1.15	0.058	0.028
19.050	45.237	15.494	16.637	12.065	1.2	1.2	36.8	30.1	4.25	9 400	13 000	**LM11949**	**LM11910**	10.0	25.0	23.5	39.5	41.5	1.2	1.2	0.30	2.00	1.10	0.081	0.044
	49.225	19.845	21.539	14.288	1.2	1.2	47.2	37.7	5.40	8 900	12 000	**09078**	**09195**	10.6	25.5	24.0	42.0	44.5	1.2	1.2	0.27	2.26	1.24	0.124	0.065
	49.225	21.209	19.050	17.462	1.2	1.6	47.2	37.7	5.40	8 900	12 000	**09067**	**09196**	13.8	25.5	24.0	41.5	44.5	1.2	1.6	0.27	2.26	1.24	0.114	0.084
20.000	50.005	13.495	14.260	9.525	1.6	1.0	33.3	28.8	4.05	7 900	11 000	**07079**	**07196**	10.8	27.5	26.0	44.5	47.0	1.6	1.0	0.40	1.49	0.82	0.104	0.034
20.638	49.225	19.845	19.845	15.875	1.6	1.6	45.5	37.7	5.35	8 600	12 000	**12580**	**12520**	12.7	28.5	26.0	42.5	45.5	1.6	1.6	0.32	1.86	1.02	0.116	0.067
21.430	50.005	17.526	18.288	13.970	1.2	1.2	48.8	40.7	5.80	8 500	11 000	**M12649**	**M12610**	11.1	27.5	25.5	44.0	46.0	1.2	1.2	0.28	2.16	1.19	0.119	0.058
21.987	45.974	15.494	16.637	12.065	1.2	1.2	37.5	34.6	4.85	8 900	12 000	**LM12749**	**LM12711**	10.0	27.5	26.0	40.0	42.5	1.2	1.2	0.31	1.96	1.08	0.078	0.043
22.225	50.005	17.526	18.288	13.970	1.2	1.2	48.8	40.7	5.80	8 500	11 000	**M12648**	**M12610**	11.1	28.5	26.5	44.0	46.0	1.2	1.2	0.28	2.16	1.19	0.115	0.058
	52.388	19.368	20.168	14.288	1.6	1.6	45.9	37.9	5.45	8 000	11 000	**1380**	**1328**	11.6	29.5	29.5	45.0	48.5	1.6	1.6	0.29	2.05	1.13	0.132	0.066
	53.975	19.368	20.168	14.288	1.6	1.6	45.9	37.9	5.45	8 000	11 000	**1380**	**1329**	11.6	29.5	29.5	46.0	49.0	1.6	1.6	0.29	2.05	1.13	0.137	0.082

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

Single-row tapered roller bearings
inch series

d (22.225) ~ (26.988) mm



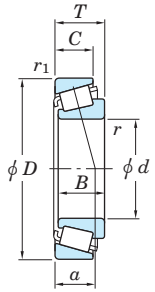


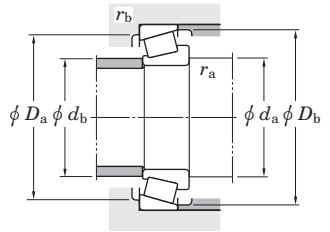
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
22.225	56.896	19.368	19.837	15.875	1.2	1.2	50.0	43.1	6.20	7 600	10 000	**1755**	**1729**	12.5	29.0	27.5	49.0	51.0	1.2	1.2	0.31	1.95	1.07	0.150	0.100
	57.150	22.225	22.225	17.462	0.8	1.6	65.8	55.7	8.05	7 600	10 000	**1280**	**1220**	15.3	29.5	29.0	49.0	52.0	0.8	1.6	0.35	1.73	0.95	0.189	0.105
	66.421	23.812	25.433	19.050	1.6	1.2	83.8	75.2	11.2	6 500	8 700	**2684**	**2631**	13.9	31.5	29.0	58.0	60.0	1.6	1.2	0.25	2.36	1.30	0.295	0.163
22.606	47.000	15.500	15.500	12.000	1.6	1.0	35.0	32.8	4.45	8 700	12 000	**LM72849**	**LM72810**	12.3	30.0	28.0	40.5	44.0	1.6	1.0	0.47	1.27	0.70	0.076	0.047
23.812	50.292	14.224	14.732	10.668	1.6	1.2	39.1	37.0	5.15	7 800	10 000	**L44640R**	**L44610**	10.8	30.5	28.5	44.5	47.0	1.6	1.2	0.37	1.60	0.88	0.099	0.034
	56.896	19.368	19.837	15.875	0.8	1.2	50.0	43.1	6.20	7 600	10 000	**1779**	**1729**	12.5	29.5	28.5	49.0	51.0	0.8	1.2	0.31	1.95	1.07	0.141	0.100
24.981	50.005	13.495	14.260	9.525	1.6	1.0	33.3	28.8	4.05	7 900	11 000	**07098**	**07196**	10.8	31.0	29.0	44.5	47.0	1.6	1.0	0.40	1.49	0.82	0.084	0.034
	62.000	16.002	16.566	14.288	1.6	1.6	47.4	40.6	5.80	6 700	8 900	**17098**	**17244**	12.7	33.0	30.5	54.0	57.0	1.6	1.6	0.38	1.57	0.86	0.162	0.090
25.000	50.005	13.495	14.260	9.525	1.6	1.0	33.3	28.8	4.05	7 900	11 000	**07097**	**07196**	10.8	31.0	29.0	44.5	47.0	1.6	1.0	0.40	1.49	0.82	0.085	0.035
25.400	50.005	13.495	14.260	9.525	1.0	1.0	33.3	28.8	4.05	7 900	11 000	**07100**	**07196**	10.8	30.5	29.5	44.5	47.0	1.0	1.0	0.40	1.49	0.82	0.084	0.035
	50.005	13.495	14.260	9.525	1.6	1.0	33.3	28.8	4.05	7 900	11 000	**07100S**	**07196**	10.8	31.5	29.5	44.5	47.0	1.6	1.0	0.40	1.49	0.82	0.082	0.035
	50.292	14.224	14.732	10.668	1.2	1.2	39.1	37.0	5.15	7 800	10 000	**L44643R**	**L44610**	10.8	31.5	29.5	44.5	47.0	1.2	1.2	0.37	1.60	0.88	0.092	0.039
	51.994	15.011	14.260	12.700	1.0	1.2	33.3	28.8	4.05	7 900	11 000	**07100**	**07204**	12.3	30.5	29.5	45.0	48.0	1.0	1.2	0.40	1.49	0.82	0.075	0.065
	58.738	19.050	19.355	15.080	1.2	1.2	60.8	57.1	8.25	7 000	9 300	**1986R**	**1932**	13.1	32.5	30.5	52.0	54.0	1.2	1.2	0.33	1.82	1.00	0.179	0.088
	59.530	23.368	23.114	18.288	0.8	1.6	63.0	57.1	7.95	7 200	9 600	**M84249**	**M84210**	18.2	36.0	32.5	49.5	56.0	0.8	1.6	0.55	1.10	0.60	0.194	0.128
	61.912	19.050	20.638	14.288	0.8	2.0	55.7	50.7	7.30	6 400	8 600	**15101**	**15243**	13.2	32.5	31.5	55.0	58.0	0.8	2.0	0.35	1.71	0.94	0.215	0.080
	62.000	19.050	20.638	14.288	3.6	1.2	55.7	50.7	7.30	6 400	8 600	**15100**	**15245**	13.2	38.0	31.5	55.0	58.0	3.6	1.2	0.35	1.71	0.94	0.215	0.081
	63.500	19.050	20.638	14.288	0.8	1.2	55.7	50.7	7.30	6 400	8 600	**15101**	**15250R**	13.2	32.5	31.5	55.0	59.0	0.8	1.2	0.35	1.71	0.94	0.215	0.097
	64.292	21.432	21.432	16.670	1.6	1.6	69.1	70.7	9.90	6 400	8 500	**M86643R**	**M86610**	18.0	38.0	36.5	54.0	61.0	1.6	1.6	0.55	1.10	0.60	0.248	0.127
	66.421	23.812	25.433	19.050	1.2	1.2	83.8	75.2	11.2	6 500	8 700	**2687**	**2631**	13.9	33.5	31.5	58.0	60.0	1.2	1.2	0.25	2.36	1.30	0.272	0.163
	68.262	22.225	22.225	17.462	0.8	1.6	63.7	61.1	8.80	6 000	8 000	**02473**	**02420**	17.1	34.5	33.5	59.0	63.0	0.8	1.6	0.42	1.44	0.79	0.275	0.150
	72.233	25.400	25.400	19.842	0.8	2.4	83.8	87.4	12.4	5 700	7 600	**HM88630**	**HM88610**	20.7	39.5	39.5	60.0	69.0	0.8	2.4	0.55	1.10	0.60	0.391	0.185
26.162	66.421	23.812	25.433	19.050	1.6	1.2	83.8	75.2	11.2	6 500	8 700	**2682**	**2631**	13.9	34.5	32.0	58.0	60.0	1.6	1.2	0.25	2.36	1.30	0.268	0.163
26.988	50.292	14.224	14.732	10.668	3.6	1.2	39.1	37.0	5.15	7 800	10 000	**L44649R**	**L44610**	10.8	37.5	31.0	44.5	47.0	3.6	1.2	0.37	1.60	0.88	0.083	0.039

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

Single-row tapered roller bearings
inch series

d (26.988) ~ (30.162) mm



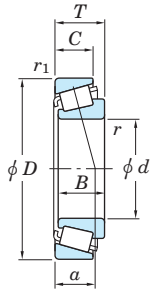


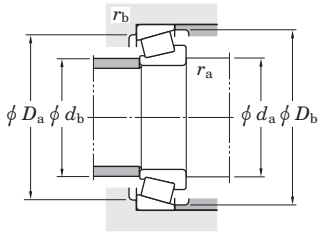
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors		(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
26.988	60.325	19.842	17.462	15.875	3.6	1.6	47.2	42.7	6.10	7 000	9 400	**15580**	**15523**	15.1	38.5	32.0	51.0	54.0	3.6	1.6	0.35	1.73	0.95	0.140	0.122
	62.000	19.050	20.638	14.288	0.8	1.2	55.7	50.7	7.30	6 400	8 600	**15106**	**15245**	13.2	33.5	33.0	55.0	58.0	0.8	1.2	0.35	1.71	0.94	0.206	0.081
	66.421	23.812	25.433	19.050	1.6	1.2	83.8	75.2	11.2	6 500	8 700	**2688**	**2631**	13.9	35.0	33.0	58.0	60.0	1.6	1.2	0.25	2.36	1.30	0.262	0.163
28.575	57.150	17.462	17.462	13.495	3.6	1.6	47.2	42.7	6.10	7 000	9 400	**15590**	**15520**	12.7	39.0	33.5	51.0	53.0	3.6	1.6	0.35	1.73	0.95	0.131	0.069
	57.150	19.845	19.355	15.875	3.6	1.6	60.8	57.1	8.25	7 000	9 300	**1988R**	**1922**	13.9	39.5	33.5	51.0	53.5	3.6	1.6	0.33	1.82	1.00	0.151	0.076
	62.000	19.050	20.638	14.288	3.6	1.2	55.7	50.7	7.30	6 400	8 600	**15112**	**15245**	13.2	40.0	34.0	55.0	58.0	3.6	1.2	0.35	1.71	0.94	0.193	0.081
	62.000	19.050	20.638	14.288	0.8	1.2	55.7	50.7	7.30	6 400	8 600	**15113**	**15245**	13.2	34.5	34.0	55.0	58.0	0.8	1.2	0.35	1.71	0.94	0.195	0.081
	64.292	21.432	21.432	16.670	1.6	1.6	69.1	70.7	9.90	6 400	8 500	**M86647R**	**M86610**	18.0	40.0	38.0	54.0	61.0	1.6	1.6	0.55	1.10	0.60	0.225	0.127
	66.421	23.812	25.433	19.050	1.2	1.2	83.8	75.2	11.2	6 500	8 700	**2689**	**2631**	13.9	36.0	34.0	58.0	60.0	1.2	1.2	0.25	2.36	1.30	0.249	0.165
	68.262	22.225	22.225	17.462	0.8	1.6	63.7	61.1	8.80	6 000	8 000	**02474**	**02420**	17.1	36.5	36.0	59.0	63.0	0.8	1.6	0.42	1.44	0.79	0.252	0.150
	72.000	19.000	18.923	15.875	1.6	1.6	59.4	49.6	7.25	5 900	7 800	**26112**	**26283**	15.3	37.0	35.0	62.0	65.0	1.6	1.6	0.36	1.67	0.92	0.217	0.163
	72.626	24.608	24.257	17.462	4.8	1.6	77.3	60.5	8.75	6 100	8 100	**41125**	**41286**	20.7	48.0	36.5	61.0	68.0	4.8	1.6	0.60	1.00	0.55	0.292	0.177
	72.626	24.608	24.257	17.462	1.6	1.6	77.3	60.5	8.75	6 100	8 100	**41126**	**41286**	20.7	41.5	36.5	61.0	68.0	1.6	1.6	0.60	1.00	0.55	0.295	0.177
	72.626	30.162	29.997	23.812	3.6	3.2	98.6	89.3	13.3	5 800	7 700	**3192**	**3120**	20.3	42.5	37.0	61.0	67.0	3.6	3.2	0.33	1.80	0.99	0.401	0.222
	72.626	30.162	29.997	23.812	1.2	3.2	98.6	89.3	13.3	5 800	7 700	**3198**	**3120**	20.3	39.0	37.0	61.0	67.0	1.2	3.2	0.33	1.80	0.99	0.410	0.222
	73.025	22.225	22.225	17.462	0.8	3.2	68.8	65.7	9.55	5 500	7 400	**02872**	**02820**	18.4	37.5	37.0	62.0	68.0	0.8	3.2	0.45	1.32	0.73	0.319	0.158
29.000	50.292	14.224	14.732	10.668	3.6	1.2	36.3	37.2	5.15	7 600	10 000	**L45449**	**L45410**	10.9	39.5	33.0	44.5	48.0	3.6	1.2	0.37	1.62	0.89	0.079	0.036
29.367	66.421	23.812	25.433	19.050	3.6	1.2	83.8	75.2	11.2	6 500	8 700	**2690**	**2631**	13.9	41.0	35.0	58.0	60.0	3.6	1.2	0.25	2.36	1.30	0.242	0.165
29.987	62.000	16.002	16.566	14.288	1.6	1.6	47.4	40.6	5.80	6 700	8 900	**17118**	**17244**	12.7	37.0	34.5	54.0	57.0	1.6	1.6	0.38	1.57	0.86	0.135	0.090
	62.000	19.050	20.638	14.288	1.2	1.2	55.7	50.7	7.30	6 400	8 600	**15117**	**15245**	13.2	36.5	35.0	55.0	58.0	1.2	1.2	0.35	1.71	0.94	0.184	0.081
30.000	69.012	19.845	19.583	15.875	3.6	1.2	57.7	55.0	7.95	5 900	7 800	**14117A**	**14276**	15.5	42.5	39.5	60.0	63.0	3.6	1.2	0.38	1.57	0.86	0.225	0.135
30.112	62.000	19.050	20.638	14.288	0.8	1.2	55.7	50.7	7.30	6 400	8 600	**15116**	**15245**	13.2	36.0	35.5	55.0	58.0	0.8	1.2	0.35	1.71	0.94	0.184	0.081
30.162	62.000	16.002	16.566	14.288	1.6	1.6	47.4	40.6	5.80	6 700	8 900	**17119**	**17244**	12.7	37.0	34.5	54.0	57.0	1.6	1.6	0.38	1.57	0.86	0.139	0.091
	64.292	21.432	21.432	16.670	1.6	1.6	69.1	70.7	9.90	6 400	8 500	**M86649R**	**M86610**	18.0	41.0	38.0	54.0	61.0	1.6	1.6	0.55	1.10	0.60	0.213	0.127

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

Single-row tapered roller bearings
inch series

d (30.162) ~ (34.925) mm



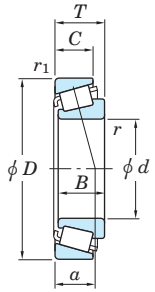


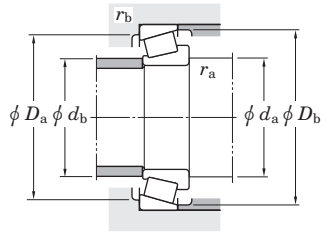
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r 1) min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
30.162	68.262	22.225	22.225	17.462	2.4	1.6	70.2	71.1	10.0	6 000	7 900	**M88043**	**M88010**	19.2	43.5	39.5	58.0	65.0	2.4	1.6	0.55	1.10	0.60	0.258	0.144
30.213	62.000	19.050	20.638	14.288	3.6	1.2	55.7	50.7	7.30	6 400	8 600	**15118**	**15245**	13.2	41.5	35.5	55.0	58.0	3.6	1.2	0.35	1.71	0.94	0.181	0.081
	62.000	19.050	20.638	14.288	1.6	1.2	55.7	50.7	7.30	6 400	8 600	**15119**	**15245**	13.2	37.5	35.5	55.0	58.0	1.6	1.2	0.35	1.71	0.94	0.183	0.081
	62.000	19.050	20.638	14.288	0.8	1.2	55.7	50.7	7.30	6 400	8 600	**15120**	**15245**	13.2	36.0	35.5	55.0	58.0	0.8	1.2	0.35	1.71	0.94	0.183	0.081
30.226	69.012	19.845	19.583	15.875	0.8	3.2	57.7	55.0	7.95	5 900	7 800	**14116**	**14274**	15.5	37.0	36.5	59.0	63.0	0.8	3.2	0.38	1.57	0.86	0.226	0.131
31.750	58.738	14.684	15.080	10.716	1.0	1.0	37.0	33.3	4.60	6 600	8 900	**08125**	**08231**	13.5	37.5	36.0	52.0	55.0	1.0	1.0	0.48	1.26	0.69	0.109	0.056
	59.131	15.875	16.764	11.811	SP	1.2	44.8	43.1	6.05	6 600	8 800	**LM67048**	**LM67010**	13.0	42.5	36.0	52.0	56.0	3.5	1.2	0.41	1.46	0.80	0.120	0.062
	62.000	18.161	19.050	14.288	SP	1.2	55.7	50.7	7.30	6 400	8 600	**15123**	**15245**	13.2	42.5	36.5	55.0	58.0	3.5	1.2	0.35	1.71	0.94	0.157	0.081
	62.000	19.050	20.638	14.288	3.6	1.2	55.7	50.7	7.30	6 400	8 600	**15125**	**15245**	13.2	42.5	36.5	55.0	58.0	3.6	1.2	0.35	1.71	0.94	0.169	0.081
	62.000	19.050	20.638	14.288	0.8	1.2	55.7	50.7	7.30	6 400	8 600	**15126**	**15245**	13.2	37.0	36.5	55.0	58.0	0.8	1.2	0.35	1.71	0.94	0.171	0.081
	66.421	25.400	25.357	20.638	0.8	3.2	89.2	85.1	12.7	6 000	8 000	**2580**	**2520**	16.0	38.5	37.5	57.0	62.5	0.8	3.2	0.27	2.19	1.21	0.281	0.123
	68.262	22.225	22.225	17.462	3.6	1.6	63.7	61.1	8.80	6 000	8 000	**02475**	**02420**	17.1	44.5	38.5	59.0	63.0	3.6	1.6	0.42	1.44	0.79	0.224	0.150
	68.262	22.225	22.225	17.462	0.8	1.6	63.7	61.1	8.80	6 000	8 000	**02476**	**02420**	17.1	39.0	38.5	59.0	63.0	0.8	1.6	0.42	1.44	0.79	0.226	0.150
	68.262	22.225	22.225	17.462	1.6	1.6	70.2	71.1	10.0	6 000	7 900	**M88046**	**M88010**	19.2	43.0	40.5	58.0	65.0	1.6	1.6	0.55	1.10	0.60	0.245	0.144
	73.025	22.225	22.225	17.462	3.6	3.2	68.8	65.7	9.55	5 600	7 400	**02875**	**02820**	17.1	45.5	39.5	62.0	68.0	3.6	3.2	0.45	1.32	0.73	0.293	0.158
	73.025	22.225	22.225	17.462	0.8	3.2	68.8	65.7	9.55	5 500	7 400	**02876**	**02820**	17.1	40.0	39.5	62.0	68.0	0.8	3.2	0.45	1.32	0.73	0.293	0.158
	73.025	29.370	27.783	23.020	1.2	3.2	93.0	101	14.2	5 600	7 500	**HM88542**	**HM88510**	23.4	45.5	42.5	59.0	70.0	1.2	3.2	0.55	1.10	0.60	0.377	0.238
	73.812	29.370	27.783	23.020	1.2	3.2	93.0	101	14.2	5 600	7 500	**HM88542**	**HM88512**	23.4	45.5	42.5	59.0	70.0	1.2	3.2	0.55	1.10	0.60	0.377	0.254
33.338	68.262	22.225	22.225	17.462	0.8	1.6	70.2	71.1	10.0	6 000	7 900	**M88048**	**M88010**	19.2	42.5	41.0	58.0	65.0	0.8	1.6	0.55	1.10	0.60	0.231	0.144
	72.000	19.000	18.923	15.875	3.6	1.6	69.8	60.0	8.85	5 900	7 800	**26131**	**26283**	14.3	44.5	38.5	62.0	65.0	3.6	1.6	0.36	1.67	0.92	0.200	0.163
	73.025	29.370	27.783	23.020	0.8	3.2	93.0	101	14.2	5 600	7 500	**HM88547**	**HM88510**	23.4	45.5	42.6	59.0	70.0	0.8	3.2	0.55	1.10	0.60	0.360	0.238
	76.200	29.370	28.575	23.020	0.8	3.2	99.5	107	15.2	5 400	7 200	**HM89443**	**HM89410**	23.9	46.5	44.6	62.0	73.0	0.8	3.2	0.55	1.10	0.60	0.415	0.254
34.925	65.088	18.034	18.288	13.970	SP	1.2	60.0	58.5	8.40	6 000	8 000	**LM48548**	**LM48510**	14.3	46.0	40.0	58.0	61.0	3.5	1.2	0.38	1.59	0.88	0.164	0.086
	69.012	26.982	26.721	15.875	0.8	1.2	57.7	55.0	7.95	5 900	7 800	**14136A**	**14276**	22.6	40.0	38.0	60.0	63.0	0.8	1.2	0.38	1.57	0.86	0.254	0.133
	72.233	25.400	25.400	19.842	2.4	2.4	83.8	87.4	12.4	5 700	7 600	**HM88649**	**HM88610**	20.7	48.5	42.5	60.0	69.0	2.4	2.4	0.55	1.10	0.60	0.301	0.185

[Note] 1) SP indicates the specially chamfered from.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (34.925) ~ (38.100) mm



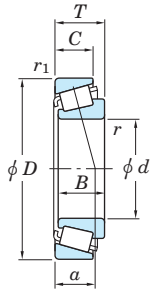


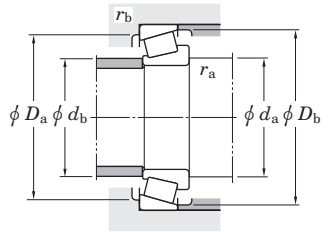
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [2]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors		(Refer.) Mass (kg)	
d	D	T	B	C	r [1] min.	r_1 [1] min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
34.925	72.238	20.638	20.638	15.875	3.6	1.2	62.3	61.3	8.90	5 600	7 400	**16137**	**16284**	16.6	46.5	40.5	63.0	67.0	3.6	1.2	0.40	1.49	0.82	0.236	0.144
	73.025	22.225	22.225	17.462	3.6	3.2	68.8	65.7	9.55	5 500	7 400	**02877**	**02820**	18.4	48.5	42.0	62.0	68.0	3.6	3.2	0.45	1.32	0.73	0.262	0.158
	73.025	22.225	22.225	17.462	0.8	3.2	68.8	65.7	9.55	5 500	7 400	**02878**	**02820**	18.4	42.5	42.0	62.0	68.0	0.8	3.2	0.45	1.32	0.73	0.265	0.158
	73.025	23.812	24.608	19.050	1.6	0.8	90.1	87.3	13.1	5 600	7 400	**25877R**	**25821**	15.8	43.0	40.5	65.0	68.0	1.6	0.8	0.29	2.07	1.14	0.310	0.165
	73.025	26.988	26.975	22.225	3.6	1.6	97.2	94.1	13.9	5 700	7 600	**23690**	**23620**	18.8	49.0	42.0	64.0	68.0	3.6	1.6	0.37	1.62	0.89	0.326	0.212
	76.200	20.638	20.940	15.507	1.6	1.2	71.6	65.9	9.70	5 300	7 000	**28137**	**28300**	16.5	43.5	41.0	68.0	71.0	1.6	1.2	0.40	1.49	0.82	0.315	0.137
	76.200	23.812	25.654	19.050	3.6	3.2	92.6	92.2	13.8	5 400	7 200	**2796R**	**2720**	15.9	47.5	41.0	66.0	70.0	3.6	3.2	0.30	1.98	1.09	0.344	0.185
	76.200	29.370	28.575	23.812	1.6	3.2	101	97.4	14.4	5 400	7 200	**31594**	**31520**	21.6	46.0	43.5	64.0	72.0	1.6	3.2	0.40	1.49	0.82	0.388	0.232
	79.375	29.370	29.771	23.812	3.6	3.2	109	105	15.7	5 200	6 900	**3478**	**3420**	20.8	50.0	43.5	67.0	74.0	3.6	3.2	0.37	1.64	0.90	0.462	0.256
	87.312	30.162	30.886	23.812	3.6	3.2	120	120	18.2	4 600	6 200	**3581R**	**3525**	20.5	48.0	45.5	75.0	81.0	3.6	3.2	0.31	1.96	1.08	0.622	0.300
	95.250	27.783	29.901	22.225	0.8	2.4	129	122	18.8	4 500	5 900	**449**	**432**	18.4	44.0	43.5	83.0	87.0	0.8	2.4	0.28	2.11	1.16	0.686	0.384
34.980	59.131	15.875	16.764	11.938	SP	1.2	44.9	48.5	6.85	6 400	8 500	**L68149**	**L68110**	13.2	45.5	39.0	53.0	56.0	3.5	1.2	0.42	1.44	0.79	0.112	0.056
	59.975	15.875	16.764	11.938	SP	1.2	44.9	48.5	6.85	6 400	8 500	**L68149**	**L68111**	13.2	45.5	39.0	53.0	56.0	3.5	1.2	0.42	1.44	0.79	0.112	0.063
35.000	79.375	23.812	25.400	19.050	0.8	0.8	101	105	15.8	5 000	6 700	**26883R**	**26822**	16.4	42.5	42.0	71.0	74.0	0.8	0.8	0.32	1.88	1.04	0.414	0.186
	80.000	21.000	22.403	17.826	0.8	1.2	85.0	74.8	11.4	4 900	6 600	**339**	**332**	15.1	42.5	41.5	73.0	75.0	0.8	1.2	0.27	2.20	1.21	0.385	0.144
35.717	72.233	25.400	25.400	19.842	3.6	2.4	83.8	87.4	12.4	5 700	7 600	**HM88648**	**HM88610**	20.7	52.0	42.5	60.0	69.0	3.6	2.4	0.55	1.10	0.60	0.291	0.185
36.487	73.025	23.812	24.608	19.050	1.6	0.8	90.1	87.3	13.1	5 600	7 400	**25880R**	**25821**	15.8	44.0	42.0	65.0	68.0	1.6	0.8	0.29	2.07	1.14	0.294	0.165
	73.025	23.812	25.654	19.050	3.6	0.8	92.6	92.2	13.8	5 400	7 200	**2794R**	**2735X**	15.9	49.0	42.5	66.0	69.0	3.6	0.8	0.30	1.98	1.09	0.344	0.134
36.512	76.200	29.370	28.575	23.020	3.6	0.8	99.5	107	15.2	5 400	7 200	**HM89449**	**HM89411**	23.9	54.0	44.5	65.0	73.0	3.6	0.8	0.55	1.10	0.60	0.386	0.258
	79.375	23.812	25.400	19.050	0.8	0.8	101	105	15.8	5 000	6 700	**26877R**	**26822**	16.4	44.0	43.0	71.0	74.0	0.8	0.8	0.32	1.88	1.04	0.404	0.186
	79.375	29.370	29.771	23.812	0.8	3.2	109	105	15.7	5 200	6 900	**3479**	**3420**	20.8	45.5	44.5	67.0	74.0	0.8	3.2	0.37	1.64	0.90	0.429	0.259
	85.725	30.162	30.162	23.812	0.8	3.2	135	136	20.3	4 800	6 400	**3878**	**3820**	22.9	48.0	47.0	73.0	81.0	0.8	3.2	0.40	1.49	0.82	0.605	0.285
38.000	63.000	17.000	17.000	13.500	SP	SP	54.7	58.2	8.25	6 000	8 000	**JL69349**	**JL69310**	14.6	49.0	41.0	60.0	56.5	3.5	1.2	0.42	1.44	0.79	0.128	0.070
38.100	63.500	12.700	11.908	9.525	1.6	0.8	32.1	33.1	4.60	5 800	7 700	**13889**	**13830**	11.9	45.0	42.5	59.0	60.0	1.6	0.8	0.35	1.73	0.95	0.104	0.045

[Notes] 1) SP indicates the specially chamfered from.
2) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (38.100) ~ (40.000) mm



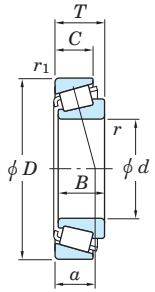


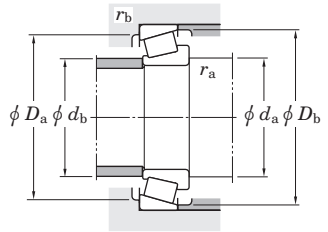
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors		(Refer.) Mass (kg)	
d	D	T	B	C	r 1) min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
38.100	65.088	12.700	11.908	9.525	1.6	0.8	32.1	33.1	4.60	5 800	7 700	**13889**	**13836**	11.9	45.0	42.5	59.0	61.0	1.6	0.8	0.35	1.73	0.95	0.104	0.046
	65.088	18.034	18.288	13.970	SP	1.2	53.9	56.5	8.15	5 800	7 800	**LM29748**	**LM29710**	13.8	49.0	42.5	59.0	62.0	3.5	1.2	0.33	1.80	0.99	0.154	0.079
	65.088	19.812	18.288	15.748	2.4	1.2	53.9	56.5	8.15	5 800	7 800	**LM29749**	**LM29711**	15.6	46.0	42.5	58.0	62.0	2.4	1.2	0.33	1.80	0.99	0.159	0.092
	69.012	19.050	19.050	15.083	2.0	2.4	61.7	62.0	8.95	5 600	7 500	**13687**	**13621**	16.1	46.5	43.0	61.0	65.0	2.0	2.4	0.40	1.49	0.82	0.191	0.102
	71.438	15.875	16.520	11.908	1.6	1.0	57.6	53.8	7.70	5 700	7 600	**19150R**	**19281**	14.5	45.0	43.0	63.0	66.0	1.6	1.0	0.44	1.35	0.74	0.167	0.105
	71.996	17.018	16.520	14.288	1.6	1.6	57.6	53.8	7.70	5 700	7 600	**19150R**	**19283**	15.7	45.0	43.0	63.0	66.0	1.6	1.6	0.44	1.35	0.74	0.167	0.132
	71.996	19.000	20.638	14.237	3.6	1.6	62.3	61.3	8.90	5 600	7 400	**16150**	**16282**	15.0	49.5	43.0	63.0	67.0	3.6	1.6	0.40	1.49	0.82	0.207	0.121
	72.238	20.638	20.638	15.875	3.6	1.2	62.3	61.3	8.90	5 600	7 400	**16150**	**16284**	16.6	49.5	43.0	63.0	67.0	3.6	1.2	0.40	1.49	0.82	0.207	0.144
	72.238	23.812	20.638	19.050	3.6	2.4	62.3	61.3	8.90	5 600	7 400	**16150**	**16283**	19.8	49.5	43.0	61.0	67.0	3.6	2.4	0.40	1.49	0.82	0.207	0.183
	73.025	23.812	25.654	19.050	3.6	0.8	92.6	92.2	13.8	5 400	7 200	**2788R**	**2735X**	15.9	50.0	43.5	66.0	69.0	3.6	0.8	0.30	1.98	1.09	0.308	0.134
	76.200	23.812	25.654	19.050	3.6	0.8	92.6	92.2	13.8	5 400	7 200	**2788R**	**2729**	15.9	50.0	43.5	68.0	70.0	3.6	0.8	0.30	1.98	1.09	0.308	0.189
	79.375	29.370	29.771	23.812	3.6	3.2	109	105	15.7	5 200	6 900	**3490**	**3420**	20.8	52.0	45.9	67.0	74.0	3.6	3.2	0.37	1.64	0.90	0.419	0.256
	80.035	21.432	20.940	15.875	1.6	1.6	71.6	65.9	9.70	5 300	7 000	**28150**	**28317**	16.9	45.5	43.5	69.0	73.0	1.6	1.6	0.40	1.49	0.82	0.285	0.201
	80.035	24.608	23.698	18.512	0.8	1.6	91.6	91.6	13.3	5 200	6 900	**27880**	**27820**	22.2	48.0	47.0	68.0	75.0	0.8	1.6	0.56	1.07	0.59	0.378	0.208
	80.035	24.608	23.698	18.512	3.6	1.6	91.6	91.6	13.3	5 200	6 900	**27881**	**27820**	22.2	53.0	47.0	68.0	75.0	3.6	1.6	0.56	1.07	0.59	0.378	0.208
	82.550	29.370	28.575	23.020	0.8	3.2	109	117	16.9	4 900	6 600	**HM801346**	**HM801310**	24.4	51.0	49.0	68.0	78.0	0.8	3.2	0.55	1.10	0.60	0.483	0.282
	82.550	29.370	28.575	23.020	2.4	3.2	109	117	16.9	4 900	6 600	**HM801346X**	**HM801310**	24.4	54.0	49.0	68.0	78.0	2.4	3.2	0.55	1.10	0.60	0.483	0.282
	82.931	23.812	25.400	19.050	0.8	0.8	96.8	100	15.1	4 800	6 300	**25572**	**25520**	17.5	46.0	46.0	74.0	77.0	0.8	0.8	0.33	1.79	0.99	0.437	0.203
	88.501	26.988	29.083	22.225	3.6	1.6	123	112	17.2	4 900	6 500	**418**	**414**	16.9	51.0	44.5	77.0	80.0	3.6	1.6	0.26	2.28	1.25	0.523	0.325
	90.488	39.688	40.386	33.338	1.6	3.2	166	169	25.9	4 500	6 000	**4375**	**4335**	25.6	51.0	48.5	77.0	85.0	1.6	3.2	0.28	2.11	1.16	0.841	0.459
	101.600	34.925	36.068	26.988	3.6	3.2	164	159	24.8	4 000	5 300	**525**	**522**	22.2	54.0	48.0	89.0	95.0	3.6	3.2	0.29	2.10	1.16	1.05	0.411
39.688	73.025	16.667	17.462	12.700	0.8	1.6	57.6	55.8	8.15	5 200	6 900	**18587**	**18520**	14.5	46.0	46.0	66.0	69.0	0.8	1.6	0.35	1.71	0.94	0.215	0.085
	73.025	23.812	25.654	19.050	3.6	0.8	92.6	92.2	13.8	5 400	7 200	**2789R**	**2735X**	15.9	52.0	45.0	66.0	69.0	3.6	0.8	0.30	1.98	1.09	0.288	0.134
	80.167	29.370	30.391	23.812	0.8	3.2	114	106	16.2	5 000	6 700	**3386**	**3320**	18.7	46.5	45.5	70.0	75.0	0.8	3.2	0.27	2.20	1.21	0.442	0.217
	84.138	29.370	30.391	23.812	3.6	3.2	114	106	16.2	5 000	6 700	**3382**	**3328**	18.7	52.0	45.5	72.0	76.0	3.6	3.2	0.27	2.20	1.21	0.438	0.312
40.000	76.200	20.638	20.940	15.507	1.6	1.2	71.6	65.9	9.70	5 300	7 000	**28158**	**28300**	16.5	47.5	45.0	68.0	71.0	1.6	1.2	0.40	1.49	0.82	0.266	0.137
	80.000	21.000	22.403	17.826	3.6	1.2	85.0	74.8	11.4	4 900	6 600	**344**	**332**	15.1	52.0	45.5	73.0	75.0	3.6	1.2	0.27	2.20	1.21	0.334	0.144

[Note] 1) SP indicates the specially chamfered from.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (40.000) ~ 42.070 mm

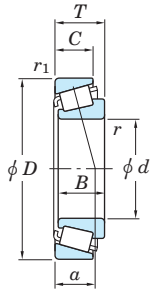


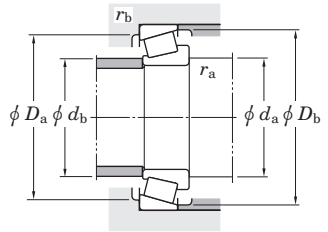


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
40.000	80.000	21.000	22.403	17.826	0.8	1.2	85.0	74.8	11.4	4 900	6 600	**344A**	**332**	15.1	46.0	45.5	73.0	75.0	0.8	1.2	0.27	2.20	1.21	0.334	0.144
	85.000	20.638	21.692	17.462	0.8	1.2	89.6	81.7	12.4	4 600	6 200	**350A**	**354A**	15.5	47.5	46.5	77.0	80.0	0.8	1.2	0.31	1.96	1.08	0.416	0.162
	88.501	26.988	29.083	22.225	3.6	1.6	123	112	17.2	4 900	6 500	**420**	**414**	16.9	52.0	46.0	77.0	80.0	3.6	1.6	0.26	2.28	1.25	0.465	0.325
	107.950	36.512	36.957	28.575	3.6	3.2	172	172	26.8	3 800	5 100	**543**	**532X**	23.9	57.0	50.0	94.0	100.0	3.6	3.2	0.30	2.03	1.11	1.17	0.570
40.483	82.550	29.370	28.575	23.020	3.6	3.2	109	117	16.9	4 900	6 600	**HM801349**	**HM801310**	24.4	58.0	49.0	68.0	78.0	3.6	3.2	0.55	1.10	0.60	0.450	0.282
41.275	73.025	16.667	17.462	12.700	3.6	1.6	57.6	55.8	8.15	5 200	6 900	**18590**	**18520**	14.5	53.0	46.0	66.0	69.0	3.6	1.6	0.35	1.71	0.94	0.199	0.085
	73.431	19.558	19.812	14.732	3.6	0.8	72.5	73.0	10.6	5 200	7 000	**LM501349**	**LM501310**	16.1	53.0	46.5	67.0	70.0	3.6	0.8	0.40	1.50	0.83	0.227	0.107
	73.431	21.430	19.812	16.604	3.6	0.8	72.5	73.0	10.6	5 200	7 000	**LM501349**	**LM501314**	18.0	53.0	46.5	66.0	70.0	3.6	0.8	0.40	1.50	0.83	0.227	0.126
	73.431	23.012	19.812	18.186	3.6	2.4	72.5	73.0	10.6	5 200	7 000	**LM501349**	**LM501311**	16.1	53.0	46.5	64.0	70.0	3.6	2.4	0.40	1.50	0.83	0.227	0.140
	76.200	18.009	17.384	14.288	1.6	1.6	64.7	63.3	9.15	5 200	6 900	**11162R**	**11300**	17.5	49.0	46.5	67.0	72.0	1.6	1.6	0.49	1.23	0.68	0.221	0.127
	76.200	22.225	23.020	17.462	3.6	0.8	82.9	83.3	12.3	5 200	6 900	**24780R**	**24720**	17.4	54.0	47.0	68.0	72.0	3.6	0.8	0.39	1.53	0.84	0.275	0.148
	80.000	21.000	22.403	17.826	0.8	1.2	85.0	74.8	11.4	4 900	6 600	**336**	**332**	15.1	47.0	46.0	73.0	75.0	0.8	1.2	0.27	2.20	1.21	0.325	0.144
	80.000	21.000	22.403	17.826	3.6	1.2	85.0	74.8	11.4	4 900	6 600	**342**	**332**	15.1	53.0	46.0	73.0	75.0	3.6	1.2	0.27	2.20	1.21	0.317	0.144
	82.550	26.543	25.654	20.193	3.6	3.2	105	105	15.4	4 900	6 500	**M802048**	**M802011**	23.3	57.0	50.6	70.0	79.0	3.6	3.2	0.55	1.10	0.60	0.403	0.227
	85.725	30.162	30.162	23.812	3.6	1.2	135	136	20.3	4 800	6 400	**3877**	**3821**	22.9	57.0	50.3	75.0	81.0	3.6	1.2	0.40	1.49	0.82	0.506	0.324
	87.312	30.162	30.886	23.812	0.8	3.2	120	120	18.2	4 600	6 200	**3576R**	**3525**	20.5	49.0	48.0	75.0	81.0	0.8	3.2	0.31	1.96	1.08	0.533	0.300
	88.501	26.988	29.083	22.225	3.6	1.6	123	112	17.2	4 900	6 500	**419**	**414**	16.9	54.0	47.0	77.0	80.0	3.6	1.6	0.26	2.28	1.25	0.441	0.325
	88.900	20.638	22.225	16.513	3.6	1.2	92.9	87.3	13.3	4 400	5 800	**365A**	**362A**	16.1	55.0	48.5	81.0	84.0	3.6	1.2	0.32	1.88	1.03	0.458	0.164
	88.900	30.162	29.370	23.020	0.8	3.2	124	125	18.5	4 600	6 100	**HM803145**	**HM803110**	26.1	54.0	53.0	74.0	85.0	0.8	3.2	0.55	1.10	0.60	0.577	0.318
	88.900	30.162	29.370	23.020	3.6	3.2	124	125	18.5	4 600	6 100	**HM803146**	**HM803110**	26.1	60.0	53.0	74.0	85.0	3.6	3.2	0.55	1.10	0.60	0.574	0.318
	90.488	39.688	40.386	33.338	3.6	3.2	166	169	25.9	4 500	6 000	**4388**	**4335**	25.6	57.0	51.0	77.0	85.0	3.6	3.2	0.28	2.11	1.16	0.775	0.454
	93.662	31.750	31.750	26.195	0.8	3.2	132	134	20.2	4 400	5 800	**46162**	**46368**	24.0	52.0	51.0	79.0	87.0	0.8	3.2	0.40	1.49	0.82	0.695	0.403
	95.250	30.162	29.370	23.020	3.6	3.2	130	140	20.7	3 300	4 400	**HM804840**	**HM804810**	26.5	61.0	54.0	81.0	91.0	3.6	3.2	0.55	1.10	0.60	0.719	0.351
	101.600	34.925	36.068	26.988	3.6	3.2	164	159	24.8	4 000	5 300	**526**	**522**	22.2	57.0	50.0	89.0	95.0	3.6	3.2	0.29	2.10	1.16	1.02	0.411
	104.775	36.512	36.512	28.575	1.6	3.2	176	195	29.3	3 800	5 100	**HM807035**	**HM807010**	29.3	60.0	57.0	89.0	100.0	1.6	3.2	0.49	1.23	0.68	1.19	0.497
42.070	90.488	39.688	40.386	33.338	3.6	3.2	166	169	25.9	4 500	6 000	**4395**	**4335**	25.6	58.0	51.0	77.0	85.0	3.6	3.2	0.28	2.11	1.16	0.751	0.459

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d 42.862 ~ 45.000 mm

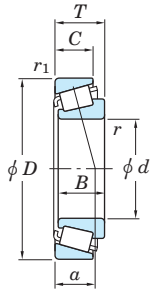


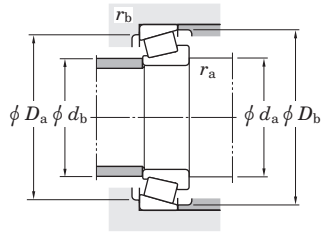


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
42.862	76.992	17.463	17.145	11.908	1.6	1.6	60.8	62.2	8.95	5 000	6 600	**12168**	**12303**	17.5	51.0	48.5	68.0	73.0	1.6	1.6	0.51	1.19	0.65	0.220	0.097
42.875	79.375	23.812	25.400	19.050	3.6	0.8	101	105	15.8	5 000	6 700	**26884R**	**26822**	16.1	55.0	48.5	71.0	74.0	3.6	0.8	0.32	1.88	1.04	0.314	0.186
	82.931	23.812	25.400	19.050	3.6	0.8	96.8	100	15.1	4 800	6 300	**25577**	**25520**	17.5	55.0	49.0	74.0	77.0	3.6	0.8	0.33	1.79	0.99	0.382	0.200
44.450	73.025	18.258	18.258	15.083	1.6	1.6	59.4	65.5	9.50	5 100	6 800	**L102849**	**L102810**	14.6	51.0	49.0	66.0	69.0	1.6	1.6	0.32	1.88	1.04	0.183	0.102
	76.992	17.463	17.145	11.908	1.6	1.6	60.8	62.2	8.95	5 000	6 600	**12175**	**12303**	17.5	52.0	49.5	68.0	73.0	1.6	1.6	0.51	1.19	0.65	0.206	0.097
	79.375	17.462	17.462	13.495	2.8	1.6	59.2	59.1	8.65	4 800	6 400	**18685**	**18620**	16.0	54.0	49.5	71.0	74.0	2.8	1.6	0.37	1.60	0.88	0.214	0.126
	82.931	23.812	25.400	19.050	5.2	0.8	96.8	100	15.1	4 800	6 300	**25582**	**25520**	17.5	59.0	51.0	74.0	77.0	5.2	0.8	0.33	1.79	0.99	0.361	0.200
	84.138	30.162	30.886	23.812	3.6	3.2	120	120	18.2	4 600	6 200	**3578R**	**3520**	20.5	57.0	51.0	74.0	79.5	3.6	3.2	0.31	1.96	1.08	0.479	0.221
	85.000	20.638	21.692	17.462	2.4	1.2	89.6	81.7	12.4	4 600	6 200	**355**	**354A**	15.5	54.0	50.0	77.0	80.0	2.4	1.2	0.31	1.96	1.08	0.344	0.160
	85.000	20.638	21.692	17.462	0.8	1.2	89.6	81.7	12.4	4 600	6 200	**355A**	**354A**	15.5	51.0	50.0	77.0	80.0	0.8	1.2	0.31	1.96	1.08	0.344	0.160
	88.900	30.162	29.370	23.020	3.6	3.2	124	125	18.5	4 600	6 100	**HM803149**	**HM803110**	26.1	62.0	53.4	74.0	85.0	3.6	3.2	0.55	1.10	0.60	0.525	0.318
	93.662	31.750	31.750	25.400	3.6	3.2	131	123	18.8	4 400	5 900	**49175**	**49368**	22.9	59.0	53.0	82.0	87.0	3.6	3.2	0.36	1.67	0.92	0.645	0.371
	93.662	31.750	31.750	26.195	0.8	3.2	132	134	20.2	4 400	5 800	**46175**	**46368**	24.0	55.0	54.0	79.0	87.0	0.8	3.2	0.40	1.49	0.82	0.609	0.403
	93.662	31.750	31.750	26.195	3.6	3.2	132	134	20.2	4 400	5 800	**46176**	**46368**	24.0	60.0	54.0	79.0	87.0	3.6	3.2	0.40	1.49	0.82	0.609	0.403
	95.250	27.783	28.575	22.225	0.8	2.4	135	141	21.6	4 100	5 400	**33885**	**33821**	20.4	53.0	53.0	85.0	90.0	0.8	2.4	0.33	1.82	1.00	0.714	0.264
	95.250	27.783	29.901	22.225	3.6	0.8	129	122	18.8	4 500	5 900	**438**	**432A**	18.4	57.0	51.0	84.0	87.0	3.6	0.8	0.28	2.11	1.16	0.555	0.375
	95.250	30.162	29.370	23.020	0.8	2.4	130	140	20.7	3 300	4 400	**HM804842**	**HM804810**	26.5	57.0	57.0	81.0	91.0	0.8	2.4	0.55	1.10	0.60	0.673	0.351
	95.250	30.162	29.370	23.020	3.6	2.4	130	140	20.7	3 300	4 400	**HM804843**	**HM804810**	26.5	63.0	57.0	81.0	91.0	3.6	2.4	0.55	1.10	0.60	0.670	0.351
	98.425	30.162	31.750	25.400	0.8	3.2	143	143	21.9	3 900	5 200	**49576**	**49520**	24.1	55.0	54.0	88.0	96.0	0.8	3.2	0.40	1.50	0.82	0.856	0.384
	101.600	34.925	36.068	26.988	3.6	3.2	164	159	24.8	4 000	5 300	**527**	**522**	22.2	59.0	53.0	89.0	95.0	3.6	3.2	0.29	2.10	1.16	0.939	0.411
	104.775	36.512	36.512	28.575	3.6	3.2	176	195	29.3	3 800	5 100	**HM807040**	**HM807010**	29.3	66.0	59.0	89.0	100.0	3.6	3.2	0.49	1.23	0.68	1.13	0.497
	111.125	38.100	36.957	30.162	3.6	3.2	172	172	26.8	3 800	5 100	**535**	**532A**	23.9	60.0	54.0	95.0	100.0	3.6	3.2	0.30	2.03	1.11	1.09	0.746
	120.650	41.275	41.275	31.750	3.6	3.2	218	217	34.0	3 500	4 600	**615**	**612**	27.3	62.0	56.0	105.0	110.0	3.6	3.2	0.31	1.91	1.05	1.48	0.853
44.983	93.264	30.162	30.302	23.812	3.6	3.2	129	137	20.9	4 200	5 500	**3776**	**3720**	22.2	59.0	53.0	82.0	88.0	3.6	3.2	0.34	1.77	0.97	0.650	0.288
45.000	85.000	20.638	21.692	17.462	1.6	1.2	89.6	81.7	12.4	4 600	6 200	**358**	**354A**	15.5	52.5	50.0	77.0	80.0	1.6	1.2	0.31	1.96	1.08	0.338	0.162

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d 45.242 ~ 49.212 mm

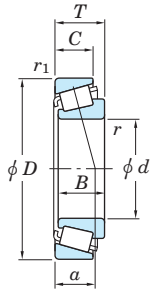


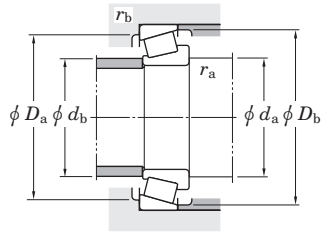


Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
45.242	73.431	19.558	19.812	15.748	3.6	0.8	70.0	78.1	11.4	5 100	6 700	**LM102949**	**LM102910**	14.7	56.0	50.0	68.0	70.0	3.6	0.8	0.31	1.97	1.08	0.209	0.100
	77.788	19.842	19.842	15.080	3.6	0.8	71.7	73.5	10.7	4 900	6 500	**LM603049**	**LM603011**	17.5	57.0	50.0	71.0	74.0	3.6	0.8	0.43	1.41	0.77	0.243	0.120
	77.788	21.430	19.842	16.667	3.6	0.8	71.7	73.5	10.7	4 900	6 500	**LM603049**	**LM603012**	19.1	57.0	50.0	71.0	74.0	3.6	0.8	0.43	1.41	0.77	0.243	0.138
	79.974	19.842	19.842	15.080	3.6	0.8	71.7	73.5	10.7	4 900	6 500	**LM603049**	**LM603014**	17.5	57.0	50.0	71.0	74.0	3.6	0.8	0.43	1.41	0.77	0.243	0.152
45.618	85.000	23.812	25.400	19.050	3.6	2.4	96.8	100	15.1	4 800	6 300	**25590**	**25526**	17.5	58.0	51.0	74.0	78.0	3.6	2.4	0.33	1.79	0.99	0.344	0.241
45.987	74.976	18.000	18.000	14.000	2.4	1.6	66.2	74.6	10.8	5 000	6 600	**LM503349R**	**LM503310**	16.0	53.0	51.0	67.0	72.0	2.4	1.6	0.40	1.49	0.82	0.207	0.095
46.038	79.375	17.462	17.462	13.495	2.8	1.6	59.2	59.1	8.65	4 800	6 400	**18690**	**18620**	16.0	56.0	51.0	71.0	74.0	2.8	1.6	0.37	1.60	0.88	0.208	0.123
	85.000	20.638	21.692	17.462	3.6	1.2	89.6	81.7	12.4	4 600	6 200	**359A**	**354A**	15.5	57.0	51.0	77.0	80.0	3.6	1.2	0.31	1.96	1.08	0.323	0.160
	85.000	20.638	21.692	17.462	2.4	1.2	89.6	81.7	12.4	4 600	6 200	**359S**	**354A**	15.5	55.0	51.0	77.0	80.0	2.4	1.2	0.31	1.96	1.08	0.323	0.160
	85.000	25.400	25.608	20.638	3.6	1.2	100	106	16.0	4 600	6 100	**2984**	**2924**	18.9	58.0	52.0	76.0	80.0	3.6	1.2	0.35	1.73	0.95	0.389	0.220
47.625	88.900	20.638	22.225	16.513	3.6	1.2	92.9	87.3	13.3	4 400	5 800	**369A**	**362A**	16.1	60.0	53.0	81.0	84.0	3.6	1.2	0.32	1.88	1.03	0.373	0.164
	88.900	25.400	25.400	19.050	3.6	3.2	109	112	16.6	4 400	5 900	**M804049**	**M804010**	23.6	62.0	55.0	76.0	85.0	3.6	3.2	0.55	1.10	0.60	0.450	0.216
	95.250	30.162	29.370	23.020	3.6	3.2	130	140	20.7	3 300	4 400	**HM804846**	**HM804810**	26.5	64.0	57.0	81.0	91.0	3.6	3.2	0.55	1.10	0.60	0.617	0.351
	96.838	21.000	21.946	15.875	0.8	0.8	101	101	15.3	3 900	5 200	**386A**	**382A**	17.4	56.0	55.0	89.0	92.0	0.8	0.8	0.35	1.69	0.93	0.563	0.177
	101.600	34.925	36.068	26.988	3.6	3.2	164	159	24.8	4 000	5 300	**528**	**522**	22.2	62.0	55.0	89.0	95.0	3.6	3.2	0.29	2.10	1.16	0.871	0.411
	104.775	30.162	29.317	24.605	4.8	3.2	136	144	22.2	3 700	4 900	**463**	**453X**	23.6	65.0	56.0	92.0	98.0	4.8	3.2	0.34	1.79	0.98	0.838	0.372
	104.775	30.162	29.317	24.605	0.8	3.2	136	144	22.2	3 700	4 900	**467**	**453X**	23.6	57.0	56.0	92.0	98.0	0.8	3.2	0.34	1.79	0.98	0.844	0.372
	104.775	30.162	30.958	23.812	3.6	3.2	157	165	25.6	3 700	4 900	**45282**	**45220**	22.2	64.0	59.0	93.0	99.0	3.6	3.2	0.33	1.80	0.99	0.940	0.345
48.412	95.250	30.162	29.370	23.020	2.4	3.2	130	140	20.7	3 300	4 400	**HM804848**	**HM804810**	26.5	63.0	57.5	81.0	91.0	2.4	3.2	0.55	1.10	0.60	0.606	0.351
	95.250	30.162	29.370	23.020	3.6	3.2	130	140	20.7	3 300	4 400	**HM804849**	**HM804810**	26.5	66.0	57.5	81.0	91.0	3.6	3.2	0.55	1.10	0.60	0.604	0.351
49.212	88.900	20.638	22.225	16.513	0.8	1.2	92.9	87.3	13.3	4 400	5 800	**365S**	**362A**	16.1	55.0	54.0	81.0	84.0	0.8	1.2	0.32	1.88	1.03	0.366	0.164
	104.775	36.512	36.512	28.575	3.6	3.2	176	195	29.3	3 800	5 100	**HM807044**	**HM807010**	29.3	69.0	63.0	89.0	100.0	3.6	3.2	0.49	1.23	0.68	1.03	0.497
	114.300	44.450	44.450	34.925	3.6	3.2	237	230	35.1	3 800	5 000	**65390**	**65320**	31.7	70.0	60.0	97.0	107.0	3.6	3.2	0.43	1.40	0.77	1.28	0.894
	114.300	44.450	44.450	36.068	3.6	3.2	265	263	35.4	3 700	5 000	**HH506348**	**HH506310**	30.6	71.0	61.0	97.0	107.0	3.6	3.2	0.40	1.49	0.82	1.49	0.834

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d 49.987 ~ (50.800) mm



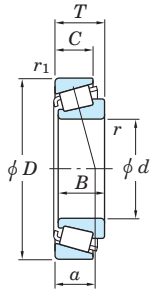


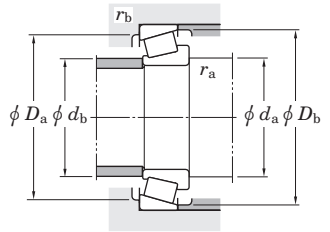
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
49.987	92.075	24.608	25.400	19.845	2.4	0.8	107	119	17.9	4 200	5 600	**28579R**	**28521**	19.9	60.0	56.0	83.0	87.0	2.4	0.8	0.38	1.59	0.87	0.463	0.247
50.000	82.000	21.501	21.501	17.000	3.0	0.5	90.0	97.9	14.7	4 500	6 000	**JLM104948**	**JLM104910**	16.2	60.0	55.0	76.0	78.0	3.0	0.5	0.31	1.97	1.08	0.304	0.128
	88.900	20.638	22.225	16.513	2.0	1.2	92.9	87.3	13.3	4 400	5 800	**365**	**362A**	16.1	58.0	55.0	81.0	84.0	2.0	1.2	0.32	1.88	1.03	0.346	0.164
	88.900	20.638	22.225	16.513	2.4	1.2	92.9	87.3	13.3	4 400	5 800	**366**	**362A**	16.1	59.0	55.0	81.0	84.0	2.4	1.2	0.32	1.88	1.03	0.351	0.166
	90.000	28.000	28.000	23.000	3.0	2.5	132	138	21.1	4 300	5 800	**JM205149**	**JM205110**	20.2	62.0	57.0	80.0	85.0	3.0	2.5	0.33	1.82	1.00	0.508	0.243
	105.000	37.000	36.000	29.000	3.0	2.8	186	205	30.6	3 800	5 100	**JHM807045**	**JHM807012**	29.4	69.0	63.0	90.0	100.0	3.0	2.8	0.49	1.23	0.68	1.01	0.523
	110.000	22.000	21.996	18.824	0.8	1.2	109	116	17.7	3 400	4 500	**396**	**394A**	21.3	61.0	60.0	101.0	105.0	0.8	1.2	0.40	1.49	0.82	0.777	0.264
50.800	80.962	18.258	18.258	14.288	1.6	1.6	67.8	81.1	11.8	4 600	6 100	**L305649R**	**L305610**	16.0	58.0	56.0	73.0	77.0	1.6	1.6	0.35	1.69	0.93	0.228	0.119
	82.550	21.590	22.225	16.510	3.6	1.2	77.0	84.3	12.5	4 500	6 000	**LM104949**	**LM104911**	16.4	62.0	55.0	75.0	78.0	3.6	1.2	0.31	1.97	1.08	0.287	0.131
	85.725	19.050	18.263	12.700	1.6	1.6	63.8	66.4	9.55	4 400	5 900	**18200**	**18337**	22.7	59.0	56.0	76.0	81.0	1.6	1.6	0.57	1.06	0.58	0.268	0.134
	88.900	17.462	17.462	13.495	3.6	1.2	62.5	65.5	9.55	4 400	5 900	**18790**	**18724**	17.4	62.0	56.0	78.0	82.0	3.6	1.2	0.41	1.48	0.81	0.226	0.190
	88.900	20.638	22.225	16.513	1.6	1.2	92.9	87.3	13.3	4 400	5 800	**368**	**362A**	16.1	58.0	56.0	81.0	84.0	1.6	1.2	0.32	1.88	1.03	0.333	0.164
	88.900	20.638	22.225	16.513	3.6	1.2	92.9	87.3	13.3	4 400	5 800	**368A**	**362A**	16.1	62.0	56.0	81.0	84.0	3.6	1.2	0.32	1.88	1.03	0.331	0.164
	88.900	20.638	22.225	16.513	5.2	1.2	92.9	87.3	13.3	4 400	5 800	**370A**	**362A**	16.1	65.0	56.0	81.0	84.0	5.2	1.2	0.32	1.88	1.03	0.326	0.164
	92.075	24.608	25.400	19.845	3.6	0.8	107	119	17.9	4 200	5 600	**28580R**	**28521**	19.9	63.0	57.0	83.0	87.0	3.6	0.8	0.38	1.59	0.87	0.453	0.247
	93.264	20.638	22.225	15.083	2.4	1.2	105	98.5	15.1	4 200	5 600	**375**	**374**	17.1	60.0	57.0	85.0	88.0	2.4	1.2	0.34	1.77	0.97	0.416	0.174
	93.264	30.162	30.302	23.812	3.6	3.2	129	137	20.9	4 200	5 500	**3780**	**3720**	22.2	64.0	58.0	82.0	88.0	3.6	3.2	0.34	1.77	0.97	0.547	0.288
	93.264	30.162	30.302	23.812	3.6	0.8	129	137	20.9	4 200	5 500	**3780**	**3730**	22.2	64.0	58.0	84.0	88.0	3.6	0.8	0.34	1.77	0.97	0.547	0.293
	95.250	27.783	28.575	22.225	3.6	0.8	135	141	21.6	4 100	5 400	**33889**	**33822**	20.4	64.0	58.0	86.0	90.0	3.6	0.8	0.33	1.82	1.00	0.604	0.267
	96.838	21.000	21.946	15.875	0.8	0.8	101	101	15.3	3 900	5 200	**385AX**	**382A**	17.4	59.0	58.0	89.0	92.0	0.8	0.8	0.35	1.69	0.93	0.521	0.177
	97.630	24.608	24.608	19.446	3.6	0.8	113	131	19.7	3 900	5 200	**28678**	**28622**	21.2	65.0	58.0	88.0	92.0	3.6	0.8	0.40	1.49	0.82	0.569	0.267
	98.425	30.162	30.302	23.812	3.6	3.2	129	137	20.9	4 200	5 500	**3780**	**3732**	22.2	64.0	58.0	84.0	90.0	3.6	3.2	0.34	1.77	0.97	0.547	0.433
	101.600	31.750	31.750	25.400	3.6	3.2	143	143	21.9	3 900	5 200	**49585**	**49520**	24.1	66.0	59.0	88.0	96.0	3.6	3.2	0.40	1.50	0.82	0.736	0.384
	101.600	34.925	36.068	26.988	0.8	3.2	164	159	24.8	4 000	5 300	**529**	**522**	22.2	59.0	58.0	89.0	95.0	0.8	3.2	0.29	2.10	1.16	0.806	0.411
	101.600	34.925	36.068	26.988	3.6	3.2	164	159	24.8	4 000	5 300	**529X**	**522**	22.2	65.0	58.0	89.0	95.0	3.6	3.2	0.29	2.10	1.16	0.802	0.411
	104.775	30.162	30.958	23.812	6.4	3.2	157	165	25.6	3 700	4 900	**45284**	**45220**	22.2	71.0	59.0	93.0	99.0	6.4	3.2	0.33	1.80	0.99	0.873	0.345
	104.775	36.512	36.512	28.575	3.6	3.2	185	187	28.6	3 900	5 100	**59200**	**59412**	26.9	68.0	61.0	92.0	99.0	3.6	3.2	0.40	1.49	0.82	0.767	0.623

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (50.800) ~ (55.000) mm



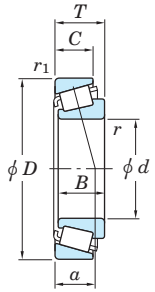


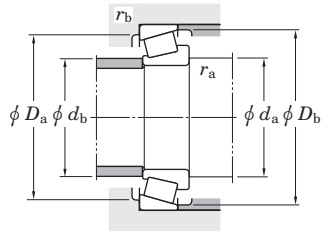
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
50.800	104.775	36.512	36.512	28.575	3.6	3.2	176	195	29.3	3 800	5 100	**HM807046**	**HM807010**	29.3	70.0	63.0	89.0	100.0	3.6	3.2	0.49	1.23	0.68	0.995	0.497
	104.775	39.688	40.157	33.338	3.6	3.2	189	211	32.3	3 800	5 100	**4580**	**4535**	27.3	67.0	61.0	90.0	99.0	3.6	3.2	0.34	1.79	0.98	1.06	0.576
	107.950	36.512	36.957	28.575	3.6	3.2	172	172	26.8	3 800	5 100	**537**	**532X**	23.9	65.0	59.0	94.0	100.0	3.6	3.2	0.30	2.03	1.11	0.969	0.569
	112.712	30.162	30.162	23.812	3.6	3.2	184	207	32.1	3 300	4 500	**39575**	**39520**	23.3	68.0	61.0	101.0	107.0	3.6	3.2	0.34	1.77	0.97	1.13	0.355
	120.650	41.275	41.275	31.750	3.6	3.2	218	217	34.0	3 500	4 600	**619**	**612**	27.3	67.0	61.0	105.0	110.0	3.6	3.2	0.31	1.91	1.05	1.44	0.853
	127.000	44.450	44.450	34.925	3.6	3.2	259	269	41.0	3 300	4 400	**65200**	**65500**	35.2	75.0	69.0	107.0	119.0	3.6	3.2	0.49	1.23	0.68	1.86	1.03
51.592	88.900	20.638	22.225	16.513	2.0	1.2	92.9	87.3	13.3	4 400	5 800	**368S**	**362A**	16.1	59.0	56.0	81.0	84.0	2.0	1.2	0.32	1.88	1.03	0.321	0.164
52.388	92.075	24.608	25.400	19.845	3.6	0.8	107	119	17.9	4 200	5 600	**28584R**	**28521**	19.9	65.0	58.0	83.0	87.0	3.6	0.8	0.38	1.59	0.87	0.435	0.247
	104.775	30.162	29.317	24.605	1.6	3.2	136	144	22.2	3 700	4 900	**468**	**453X**	23.6	62.0	60.0	92.0	98.0	1.6	3.2	0.34	1.79	0.98	0.748	0.372
53.975	88.900	19.050	19.050	13.492	2.4	2.0	79.1	86.8	12.6	4 200	5 600	**LM806649**	**LM806610**	21.5	63.0	60.0	80.0	85.0	2.4	2.0	0.55	1.10	0.60	0.312	0.135
	95.250	27.783	28.575	22.225	1.6	0.8	135	141	21.6	4 100	5 400	**33895**	**33822**	20.4	63.0	60.0	86.0	90.0	1.6	0.8	0.33	1.82	1.00	0.550	0.267
	104.775	30.162	29.317	24.605	3.6	3.2	136	144	22.2	3 700	4 900	**456**	**453X**	23.6	68.0	61.0	92.0	98.0	3.6	3.2	0.34	1.79	0.98	0.728	0.372
	104.775	36.512	36.512	28.575	3.6	3.2	176	195	29.3	3 800	5 100	**HM807049**	**HM807010**	29.3	73.0	63.0	89.0	100.0	3.6	3.2	0.49	1.23	0.68	0.921	0.497
	104.775	39.688	40.157	33.338	3.6	3.2	189	211	32.3	3 800	5 100	**4595**	**4535**	27.3	70.0	63.0	90.0	99.0	3.6	3.2	0.34	1.79	0.98	0.981	0.576
	107.950	36.512	36.957	28.575	3.6	3.2	172	172	26.8	3 800	5 100	**539**	**532X**	23.9	68.0	61.0	94.0	100.0	3.6	3.2	0.30	2.03	1.11	0.894	0.569
	107.950	36.512	36.957	28.575	5.6	3.2	172	172	26.8	3 800	5 100	**539A**	**532X**	23.9	72.0	61.0	94.0	100.0	5.6	3.2	0.30	2.03	1.11	0.861	0.569
	117.475	33.338	31.750	23.812	3.6	3.2	162	152	23.2	3 500	4 600	**66212R**	**66462**	33.2	73.0	67.0	100.0	111.0	3.6	3.2	0.63	0.96	0.53	1.03	0.552
	120.650	41.275	41.275	31.750	3.6	3.2	218	217	34.0	3 500	4 600	**621**	**612**	27.3	70.0	63.0	105.0	110.0	3.6	3.2	0.31	1.91	1.05	1.36	0.853
	122.238	33.338	31.750	23.812	3.6	3.2	160	153	23.3	3 300	4 300	**66584**	**66520**	35.4	75.0	68.0	105.0	116.0	3.6	3.2	0.67	0.90	0.50	1.25	0.551
	122.238	43.658	43.764	36.512	3.6	3.2	276	318	43.6	3 200	4 300	**5578R**	**5535**	31.1	73.0	67.0	106.0	116.0	3.6	3.2	0.36	1.67	0.92	1.84	0.807
	123.825	38.100	36.678	30.162	3.6	3.2	202	223	34.8	3 200	4 200	**557S**	**552A**	28.7	71.0	65.0	109.0	116.0	3.6	3.2	0.35	1.73	0.95	1.47	0.756
	127.000	44.450	44.450	34.925	3.6	3.2	259	269	41.0	3 300	4 400	**65212**	**65500**	35.2	77.0	71.0	107.0	119.0	3.6	3.2	0.49	1.23	0.68	1.78	1.02
54.988	104.775	30.162	29.317	24.605	2.4	3.2	136	144	22.2	3 700	4 900	**466**	**453X**	23.6	67.0	61.0	92.0	98.0	2.4	3.2	0.34	1.79	0.98	0.708	0.372
54.991	135.755	53.975	56.007	44.450	3.6	3.2	333	357	49.3	3 000	4 000	**6381**	**6320**	34.8	76.0	70.0	117.0	126.0	3.6	3.2	0.32	1.85	1.02	2.75	1.37
55.000	90.000	23.000	23.000	18.500	1.6	0.5	102	115	17.2	4 200	5 500	**JLM506849**	**JLM506810**	20.1	63.0	61.0	82.0	86.0	1.6	0.5	0.40	1.49	0.82	0.370	0.183

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (55.000) ~ (60.000) mm



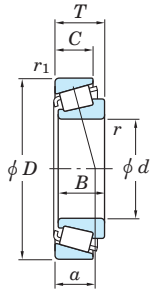


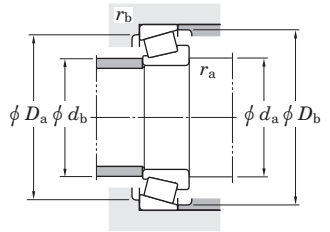
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
55.000	95.000	29.000	29.000	23.500	1.6	2.8	138	150	23.0	4 000	5 300	**JM207049**	**JM207010**	21.3	64.0	62.0	85.0	91.0	1.6	2.8	0.33	1.79	0.99	0.567	0.256
	96.838	21.000	21.946	15.875	2.4	0.8	101	101	15.3	3 900	5 200	**385**	**382A**	17.4	65.0	61.0	89.0	92.0	2.4	0.8	0.35	1.69	0.93	0.461	0.177
	96.838	21.000	21.946	15.875	3.6	0.8	101	101	15.3	3 900	5 200	**385X**	**382A**	17.4	67.0	61.0	89.0	92.0	3.6	0.8	0.35	1.69	0.93	0.459	0.177
	110.000	39.000	39.000	32.000	3.0	2.5	220	224	34.7	3 600	4 900	**JH307749**	**JH307710**	26.8	71.0	64.0	97.0	104.0	3.0	2.5	0.35	1.73	0.95	1.16	0.560
55.562	97.630	24.608	24.608	19.446	3.6	0.8	113	131	19.7	3 900	5 200	**28680**	**28622**	21.2	68.0	62.0	88.0	92.0	3.6	0.8	0.40	1.49	0.82	0.492	0.267
	122.238	43.658	43.764	36.512	1.2	3.2	276	318	43.6	3 200	4 300	**5566R**	**5535**	31.1	70.0	68.0	106.0	116.0	1.2	3.2	0.36	1.67	0.92	1.82	0.807
	127.000	36.512	36.512	26.988	3.6	3.2	209	235	36.2	3 000	4 000	**HM813840**	**HM813810**	32.9	76.0	70.0	111.0	121.0	3.6	3.2	0.50	1.20	0.66	1.72	0.606
55.575	96.838	21.000	21.946	15.875	2.4	0.8	101	101	15.3	3 900	5 200	**389**	**382A**	17.4	65.0	61.0	89.0	92.0	2.4	0.8	0.35	1.69	0.93	0.452	0.177
57.150	96.838	21.000	21.946	15.875	2.4	0.8	101	101	15.3	3 900	5 200	**387**	**382A**	17.4	66.0	62.0	89.0	92.0	2.4	0.8	0.35	1.69	0.93	0.428	0.177
	96.838	21.000	21.946	15.875	3.6	0.8	101	101	15.3	3 900	5 200	**387A**	**382A**	17.4	69.0	62.0	89.0	92.0	3.6	0.8	0.35	1.69	0.93	0.426	0.177
	96.838	21.000	21.946	15.875	5.2	0.8	101	101	15.3	3 900	5 200	**387AS**	**382A**	17.4	72.0	62.0	89.0	92.0	5.2	0.8	0.35	1.69	0.93	0.422	0.177
	96.838	21.000	21.946	15.875	0.8	0.8	101	101	15.3	3 900	5 200	**387S**	**382A**	17.4	63.0	62.0	89.0	92.0	0.8	0.8	0.35	1.69	0.93	0.431	0.177
	98.425	21.000	21.946	17.826	2.4	0.8	101	101	15.3	3 900	5 200	**387**	**382**	17.4	66.0	62.0	89.0	92.0	2.4	0.8	0.35	1.69	0.93	0.428	0.223
	104.775	30.162	29.317	24.605	2.4	3.2	136	144	22.2	3 700	4 900	**462**	**453X**	23.6	67.0	63.0	92.0	98.0	2.4	3.2	0.34	1.79	0.98	0.685	0.372
	104.775	30.162	29.317	24.605	3.6	3.2	136	144	22.2	3 700	4 900	**469**	**453X**	23.6	70.0	63.0	92.0	98.0	3.6	3.2	0.34	1.79	0.98	0.682	0.372
	104.775	30.162	30.958	23.812	6.4	0.8	157	165	25.6	3 700	4 900	**45291**	**45221**	22.2	76.0	65.0	95.0	99.0	6.4	0.8	0.33	1.80	0.99	0.742	0.350
	112.712	30.162	30.048	23.812	3.6	3.2	139	164	25.1	3 400	4 500	**3979**	**3920**	25.9	72.0	66.0	99.0	106.0	3.6	3.2	0.40	1.49	0.82	0.916	0.448
	112.712	30.162	30.162	23.812	3.6	3.2	184	207	32.1	3 300	4 500	**39580**	**39520**	23.3	72.0	66.0	101.0	107.0	3.6	3.2	0.34	1.77	0.97	1.05	0.355
	112.712	30.162	30.162	23.812	7.9	3.2	184	207	32.1	3 300	4 500	**39581**	**39520**	23.3	81.0	66.0	101.0	107.0	7.9	3.2	0.34	1.77	0.97	1.03	0.355
	117.475	30.162	30.162	23.812	3.6	3.2	148	179	27.4	3 200	4 200	**33225**	**33462**	27.8	74.0	68.0	104.0	112.0	3.6	3.2	0.44	1.38	0.76	1.13	0.442
	120.650	41.275	41.275	31.750	3.6	3.2	218	217	34.0	3 500	4 600	**623**	**612**	27.3	72.0	66.0	105.0	110.0	3.6	3.2	0.31	1.91	1.05	1.27	0.853
	127.000	44.450	44.450	34.925	3.6	3.2	259	269	41.0	3 300	4 400	**65225**	**65500**	35.2	80.0	71.0	107.0	119.0	3.6	3.2	0.49	1.23	0.68	1.69	1.02
57.531	96.838	21.000	21.946	15.875	3.6	0.8	101	101	15.3	3 900	5 200	**388A**	**382A**	17.4	69.0	63.0	89.0	92.0	3.6	0.8	0.35	1.69	0.93	0.420	0.177
59.972	122.238	33.338	31.750	23.812	0.8	3.2	160	153	23.3	3 300	4 300	**66589**	**66520**	35.4	74.0	73.0	105.0	116.0	0.8	3.2	0.67	0.90	0.50	1.11	0.551
60.000	95.000	24.000	24.000	19.000	5.0	2.5	108	125	18.9	3 900	5 200	**JLM508748**	**JLM508710**	21.2	75.0	66.0	85.0	91.0	5.0	2.5	0.40	1.49	0.82	0.402	0.196

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (60.000) ~ (65.000) mm



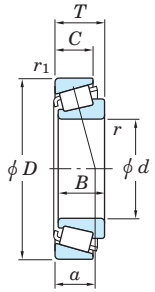


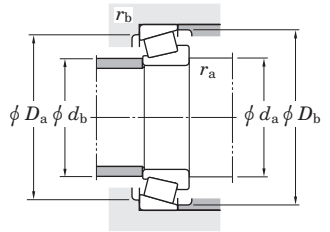
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
60.000	107.950	25.400	25.400	19.050	3.6	3.2	116	143	21.6	3 400	4 500	**29580**	**29520**	24.7	74.0	68.0	96.0	103.0	3.6	3.2	0.46	1.31	0.72	0.713	0.277
	110.000	22.000	21.996	18.824	0.8	1.2	109	116	17.7	3 400	4 500	**397**	**394A**	21.3	69.0	68.0	101.0	104.5	0.8	1.2	0.40	1.49	0.82	0.637	0.259
60.325	100.000	25.400	25.400	19.845	3.6	3.2	115	137	20.6	3 700	4 900	**28985**	**28921**	22.8	73.0	67.0	89.0	96.0	3.6	3.2	0.43	1.41	0.78	0.533	0.230
	101.600	25.400	25.400	19.845	3.6	3.2	115	137	20.6	3 700	4 900	**28985**	**28920**	22.8	73.0	67.0	89.0	96.0	3.6	3.2	0.43	1.41	0.78	0.533	0.269
	122.238	43.658	43.764	36.512	3.6	3.2	276	318	43.6	3 200	4 300	**5583R**	**5535**	31.1	78.0	72.0	106.0	116.0	3.6	3.2	0.36	1.67	0.92	1.66	0.807
	127.000	36.512	36.512	26.988	3.6	1.6	209	235	36.2	3 000	4 000	**HM813841**	**HM813811**	32.9	80.0	73.0	113.0	121.0	3.6	1.6	0.50	1.20	0.66	1.60	0.622
	127.000	36.512	36.512	26.988	1.6	3.2	209	235	36.2	3 000	4 000	**HM813841A**	**HM813810**	32.9	74.0	71.0	110.0	121.0	1.6	3.2	0.50	1.20	0.66	1.62	0.606
	127.000	44.450	44.450	34.925	3.6	3.2	259	269	41.0	3 300	4 400	**65237**	**65500**	35.2	82.0	71.0	107.0	119.0	3.6	3.2	0.49	1.23	0.68	1.59	1.02
	127.000	44.450	44.450	34.925	1.6	3.2	259	269	41.0	3 300	4 400	**65237A**	**65500**	35.2	78.0	71.0	107.0	119.0	1.6	3.2	0.49	1.23	0.68	1.59	1.02
	136.525	46.038	46.038	36.512	3.6	3.2	290	369	49.6	2 800	3 700	**H715332**	**H715311**	37.0	84.0	78.0	118.0	132.0	3.6	3.2	0.47	1.27	0.70	2.56	0.950
61.912	110.000	22.000	21.996	18.824	0.8	1.2	109	116	17.7	3 400	4 500	**392**	**394A**	21.3	70.0	69.0	101.0	104.5	0.8	1.2	0.40	1.49	0.82	0.606	0.259
63.500	107.950	25.400	25.400	19.050	1.6	3.2	116	143	21.6	3 400	4 500	**29586**	**29520**	24.7	73.0	71.0	96.0	103.0	1.6	3.2	0.46	1.31	0.72	0.649	0.277
	110.000	22.000	21.996	18.824	1.6	1.2	109	116	17.7	3 400	4 500	**390A**	**394A**	21.3	73.0	70.0	101.0	104.5	1.6	1.2	0.40	1.49	0.82	0.579	0.259
	110.000	22.000	21.996	18.824	3.6	1.2	109	116	17.7	3 400	4 500	**395**	**394A**	21.3	77.0	70.0	101.0	104.5	3.6	1.2	0.40	1.49	0.82	0.575	0.259
	110.000	25.400	25.400	19.050	3.6	1.2	116	143	21.6	3 400	4 500	**29585**	**29521**	24.7	77.0	71.0	99.0	104.0	3.6	1.2	0.46	1.31	0.72	0.644	0.333
	112.712	30.162	30.162	23.812	3.6	3.2	184	207	32.1	3 300	4 500	**39585**	**39520**	23.3	77.0	71.0	101.0	107.0	3.6	3.2	0.34	1.77	0.97	0.908	0.355
	120.000	29.794	29.007	24.237	0.8	2.0	148	161	25.0	3 200	4 200	**477**	**472**	25.7	73.0	72.0	108.0	113.0	0.8	2.0	0.38	1.56	0.86	0.967	0.493
	122.238	38.354	38.100	29.718	3.6	3.2	238	249	39.1	3 200	4 300	**HM212046**	**HM212011**	27.6	80.0	73.0	108.0	116.0	3.6	3.2	0.34	1.78	0.98	1.36	0.591
	122.238	43.658	43.764	36.512	3.6	3.2	276	318	43.6	3 200	4 300	**5584R**	**5535**	31.1	81.0	75.0	106.0	116.0	3.6	3.2	0.36	1.67	0.92	1.56	0.807
	127.000	36.512	36.170	28.575	3.6	3.2	196	226	35.3	3 000	4 000	**565**	**563**	28.6	80.0	73.0	112.0	120.0	3.6	3.2	0.36	1.65	0.91	1.43	0.648
	135.755	53.975	56.007	44.450	4.3	3.2	333	357	49.3	3 000	4 000	**6382**	**6320**	34.8	84.0	77.0	117.0	126.0	4.3	3.2	0.32	1.85	1.02	2.29	1.39
	136.525	41.275	41.275	31.750	3.6	3.2	302	308	48.1	2 900	3 800	**H414235**	**H414210**	30.3	82.0	78.0	121.0	129.0	3.6	3.2	0.36	1.67	0.92	2.11	0.796
64.986	112.712	30.162	30.924	23.812	2.4	3.2	184	207	32.1	3 300	4 500	**39586**	**39520**	23.3	76.0	72.0	101.0	107.0	2.4	3.2	0.34	1.77	0.97	0.845	0.355
65.000	105.000	24.000	23.000	18.500	3.0	1.0	120	129	19.6	3 500	4 700	**JLM710949**	**JLM710910**	23.8	77.0	71.0	96.0	100.5	3.0	1.0	0.45	1.32	0.73	0.513	0.234
	110.000	28.000	28.000	22.500	3.0	2.8	170	191	29.4	3 400	4 600	**JM511946**	**JM511910**	24.5	78.0	72.0	99.0	105.0	3.0	2.8	0.40	1.49	0.82	0.733	0.338

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (65.000) ~ 68.262 mm



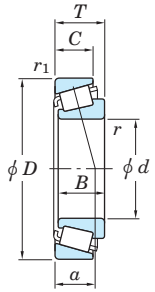


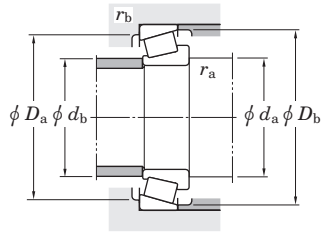
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
65.000	120.000	39.000	38.500	32.000	3.0	2.8	236	255	39.7	3 200	4 300	**JH211749**	**JH211710**	27.9	80.0	74.0	107.0	114.0	3.0	2.8	0.34	1.78	0.98	1.27	0.618
	120.000	39.000	38.500	32.000	7.1	2.8	236	255	39.7	3 200	4 300	**JH211749A**	**JH211710**	27.9	88.0	74.0	107.0	114.0	7.1	2.8	0.34	1.78	0.98	1.27	0.618
65.088	135.755	53.975	56.007	44.450	3.6	3.2	333	357	49.3	3 000	4 000	**6379**	**6320**	34.8	84.0	77.5	117.0	126.0	3.6	3.2	0.32	1.85	1.02	2.34	1.37
	136.525	46.038	46.038	36.512	3.6	3.2	290	369	49.6	2 800	3 700	**H715340**	**H715311**	37.0	88.0	82.0	118.0	132.0	3.6	3.2	0.47	1.27	0.70	2.39	0.950
65.883	122.238	43.658	43.764	36.512	3.6	3.2	276	318	43.6	3 200	4 300	**5595R**	**5535**	31.1	83.0	77.0	106.0	116.0	3.6	3.2	0.36	1.67	0.92	1.48	0.807
66.675	110.000	22.000	21.996	18.824	0.8	1.2	109	116	17.7	3 400	4 500	**395A**	**394A**	21.3	73.0	73.0	101.0	104.5	0.8	1.2	0.40	1.49	0.82	0.524	0.259
	110.000	22.000	21.996	18.824	3.6	1.2	109	116	17.7	3 400	4 500	**395S**	**394A**	21.3	79.0	73.0	101.0	104.5	3.6	1.2	0.40	1.49	0.82	0.519	0.259
	112.712	30.162	30.048	23.812	3.6	0.8	139	164	25.1	3 400	4 500	**3984**	**3925**	25.9	80.0	74.0	101.0	106.0	3.6	0.8	0.40	1.49	0.82	0.700	0.454
	112.712	30.162	30.162	23.812	3.6	3.2	184	207	32.1	3 300	4 500	**39590**	**39520**	23.3	80.0	74.0	101.0	107.0	3.6	3.2	0.34	1.77	0.97	0.832	0.355
	112.712	30.162	30.162	23.812	3.6	0.8	184	207	32.1	3 300	4 500	**39590**	**39521**	23.3	80.0	74.0	103.0	107.0	3.6	0.8	0.34	1.77	0.97	0.832	0.360
	117.475	30.162	30.162	23.812	3.6	3.2	148	179	27.4	3 200	4 200	**33262**	**33462**	27.8	81.0	75.0	104.0	112.0	3.6	3.2	0.44	1.38	0.76	0.910	0.436
	122.238	38.100	38.354	29.718	3.6	1.6	238	249	39.1	3 200	4 300	**HM212049**	**HM212010**	27.3	82.0	75.5	110.0	116.0	3.6	1.6	0.34	1.78	0.98	1.26	0.596
	127.000	36.512	36.512	26.988	3.6	1.6	209	235	36.2	3 000	4 000	**HM813844**	**HM813811**	32.9	85.0	78.0	113.0	121.0	3.6	1.6	0.50	1.20	0.66	1.42	0.622
	130.175	41.275	41.275	31.750	3.6	3.2	246	267	41.8	3 000	3 900	**641**	**633**	30.3	83.0	77.0	116.0	124.0	3.6	3.2	0.36	1.66	0.91	1.68	0.703
	135.755	53.975	56.007	44.450	4.3	3.2	333	357	49.3	3 000	4 000	**6386**	**6320**	34.8	87.0	77.5	117.0	126.0	4.3	3.2	0.32	1.85	1.02	2.27	1.37
	135.755	53.975	56.007	44.450	6.4	3.2	333	357	49.3	3 000	4 000	**6389**	**6320**	34.8	91.0	77.5	117.0	126.0	6.4	3.2	0.32	1.85	1.02	2.15	1.37
	136.525	41.275	41.275	31.750	3.6	3.2	302	308	48.1	2 900	3 800	**H414242**	**H414210**	30.3	85.0	81.0	121.0	129.0	3.6	3.2	0.36	1.67	0.92	2.01	0.796
	136.525	46.038	46.038	36.512	3.6	3.2	290	369	49.6	2 800	3 700	**H715341**	**H715311**	37.0	89.0	83.0	118.0	132.0	3.6	3.2	0.47	1.27	0.70	2.33	0.950
68.262	110.000	22.000	21.996	18.824	2.4	1.2	109	116	17.7	3 400	4 500	**399A**	**394A**	21.3	78.0	74.0	101.0	104.5	2.4	1.2	0.40	1.49	0.82	0.493	0.259
	110.000	22.000	21.996	18.824	5.2	1.2	109	116	17.7	3 400	4 500	**399AS**	**394A**	21.3	83.0	74.0	101.0	104.5	5.2	1.2	0.40	1.49	0.82	0.485	0.259
	117.475	30.162	30.162	23.812	3.6	3.2	148	179	27.4	3 200	4 200	**33269**	**33462**	27.8	82.0	76.0	104.0	112.0	3.6	3.2	0.44	1.38	0.76	0.870	0.436
	127.000	36.512	36.170	28.575	3.6	3.2	196	226	35.3	3 000	4 000	**570**	**563**	28.6	83.0	77.0	112.0	120.0	3.6	3.2	0.36	1.65	0.91	1.29	0.648
	136.525	41.275	41.275	31.750	3.6	3.2	284	308	46.1	2 900	3 800	**H414245**	**H414210**	30.3	86.0	82.0	121.0	129.0	3.6	3.2	0.36	1.67	0.92	1.92	0.788
	136.525	46.038	46.038	36.512	3.6	3.2	290	369	49.6	2 800	3 700	**H715343**	**H715311**	37.0	90.0	84.0	118.0	132.0	3.6	3.2	0.47	1.27	0.70	2.27	0.950
	152.400	47.625	46.038	31.750	3.6	3.2	306	278	38.3	2 700	3 600	**9185**	**9121**	44.5	94.0	81.5	130.0	145.0	3.6	3.2	0.66	0.91	0.50	2.67	1.20

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d 69.850 ~ (73.025) mm



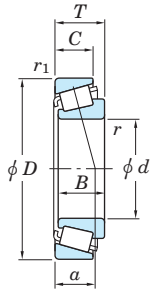


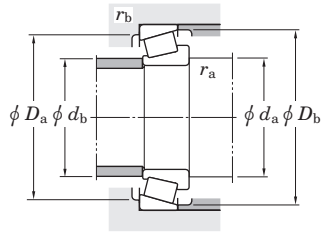
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
69.850	98.425	13.495	13.495	9.525	1.6	1.6	49.1	59.8	8.45	3 500	4 700	**LL713049**	**LL713010**	18.4	77.0	74.0	92.0	94.5	1.6	1.6	0.44	1.37	0.75	0.205	0.086
	112.712	22.225	21.996	15.875	1.6	0.8	115	127	19.4	3 300	4 400	**LM613449**	**LM613410**	21.9	78.0	76.0	104.0	107.0	1.6	0.8	0.42	1.44	0.79	0.562	0.238
	112.712	25.400	25.400	19.050	1.6	3.2	122	155	23.3	3 200	4 300	**29675**	**29620**	26.2	80.0	77.0	101.0	109.0	1.6	3.2	0.49	1.23	0.68	0.676	0.270
	117.475	30.162	30.162	23.812	3.6	3.2	148	179	27.4	3 200	4 200	**33275**	**33462**	27.8	84.0	77.0	104.0	112.0	3.6	3.2	0.44	1.38	0.76	0.830	0.436
	120.000	29.002	29.007	23.444	3.6	3.2	148	161	25.0	3 200	4 200	**482**	**472A**	24.9	83.0	77.0	106.0	114.0	3.6	3.2	0.38	1.56	0.86	0.791	0.462
	120.000	29.794	29.007	24.237	3.6	2.0	148	161	25.0	3 200	4 200	**482**	**472**	25.7	83.0	77.0	108.0	113.0	3.6	2.0	0.38	1.56	0.86	0.791	0.487
	120.000	32.545	32.545	26.195	3.6	3.2	189	218	33.9	3 100	4 200	**47487R**	**47420**	26.6	84.0	78.0	107.0	114.0	3.6	3.2	0.36	1.67	0.92	1.01	0.476
	120.650	32.545	32.545	26.195	3.6	0.8	189	218	33.9	3 100	4 200	**47487R**	**47423**	26.6	84.0	78.0	109.0	114.0	3.6	0.8	0.36	1.67	0.92	1.01	0.513
	123.825	30.162	29.007	24.605	3.6	3.2	148	161	25.0	3 200	4 200	**482**	**472X**	26.0	83.0	77.0	109.0	114.0	3.6	3.2	0.38	1.56	0.86	0.791	0.625
	127.000	36.512	36.170	28.575	3.6	3.2	196	226	35.3	3 000	4 000	**566**	**563**	28.6	85.0	78.0	112.0	120.0	3.6	3.2	0.36	1.65	0.91	1.24	0.648
	146.050	41.275	41.275	31.750	3.6	3.2	261	301	45.3	2 600	3 400	**655**	**653**	33.4	88.0	82.0	131.0	139.0	3.6	3.2	0.41	1.47	0.81	2.35	0.891
	150.089	44.450	46.672	36.512	3.6	3.2	330	368	50.1	2 500	3 400	**745AR**	**742**	32.4	88.0	82.0	134.0	142.0	3.6	3.2	0.33	1.84	1.01	2.79	1.07
	168.275	53.975	56.363	41.275	3.6	3.2	429	467	62.1	2 300	3 100	**835R**	**832**	35.0	91.0	84.0	149.0	155.0	3.6	3.2	0.30	2.00	1.10	4.32	1.72
69.952	121.442	24.608	23.012	17.462	2.0	2.0	113	127	19.4	3 000	4 000	**34274**	**34478**	26.8	81.0	78.0	110.0	116.0	2.0	2.0	0.45	1.33	0.73	0.764	0.316
70.000	110.000	26.000	25.000	20.500	1.0	2.5	129	158	23.9	3 300	4 400	**JLM813049**	**JLM813010**	26.1	78.0	77.0	98.0	105.0	1.0	2.5	0.49	1.23	0.68	0.590	0.300
	115.000	29.000	29.000	23.000	3.0	2.5	155	173	26.6	3 200	4 300	**JM612949**	**JM612910**	26.2	83.0	77.0	103.0	110.0	3.0	2.5	0.43	1.39	0.77	0.776	0.358
71.438	117.475	30.162	30.162	23.812	3.6	3.2	148	179	27.4	3 200	4 200	**33281**	**33462**	27.8	85.0	79.0	104.0	112.0	3.6	3.2	0.44	1.38	0.76	0.789	0.436
	120.000	32.545	32.545	26.195	3.6	3.2	189	218	33.9	3 100	4 200	**47490R**	**47420**	26.6	86.0	79.0	107.0	114.0	3.6	3.2	0.36	1.67	0.92	0.964	0.476
	127.000	36.512	36.170	28.575	3.6	3.2	196	226	35.3	3 000	4 000	**567A**	**563**	28.6	86.0	80.0	112.0	120.0	3.6	3.2	0.36	1.65	0.91	1.19	0.648
	127.000	36.512	36.512	26.988	3.6	1.6	209	235	36.2	3 000	4 000	**HM813849**	**HM813811**	32.9	89.0	81.9	113.0	121.0	3.6	1.6	0.50	1.20	0.66	1.28	0.622
	136.525	41.275	41.275	31.750	3.6	3.2	284	308	46.1	2 900	3 800	**H414249**	**H414210**	30.3	89.0	83.3	121.0	129.0	3.6	3.2	0.36	1.67	0.92	1.80	0.788
	136.525	46.038	46.038	36.512	3.6	3.2	290	369	49.6	2 800	3 700	**H715345**	**H715311**	37.0	93.0	87.0	118.0	132.0	3.6	3.2	0.47	1.27	0.70	2.15	0.950
73.025	112.712	25.400	25.400	19.050	3.6	3.2	122	155	23.3	3 200	4 300	**29685**	**29620**	26.2	86.0	80.0	101.0	109.0	3.6	3.2	0.49	1.23	0.68	0.602	0.270
	117.475	30.162	30.162	23.812	3.6	3.2	148	179	27.4	3 200	4 200	**33287**	**33462**	27.8	87.0	80.0	104.0	112.0	3.6	3.2	0.44	1.38	0.76	0.747	0.436
	127.000	36.512	36.170	28.575	3.6	3.2	196	226	35.3	3 000	4 000	**567**	**563**	28.6	88.0	81.0	112.0	120.0	3.6	3.2	0.36	1.65	0.91	1.14	0.648
	139.992	36.512	36.098	28.575	3.6	3.2	220	262	39.8	2 700	3 600	**576R**	**572**	31.0	90.0	83.0	125.0	133.0	3.6	3.2	0.40	1.49	0.82	1.74	0.779

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (73.025) ~ 76.200 mm



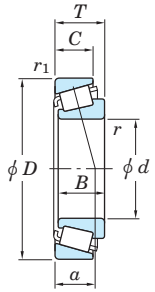


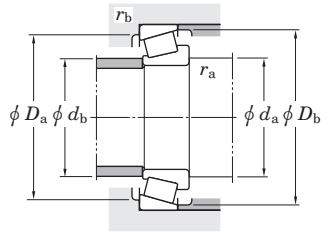
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
73.025	146.050	41.275	41.275	31.750	3.6	3.2	261	301	45.3	2 600	3 400	**657**	**653**	33.4	90.0	85.0	131.0	139.0	3.6	3.2	0.41	1.47	0.81	2.28	0.880
	149.225	53.975	54.229	44.450	3.6	3.2	357	404	54.4	2 700	3 500	**6460**	**6420**	39.3	93.0	87.0	129.0	141.0	3.6	3.2	0.36	1.66	0.91	2.79	1.61
	150.089	44.450	46.672	36.512	3.6	3.2	330	368	50.1	2 500	3 400	**744R**	**742**	32.4	91.0	85.0	134.0	142.0	3.6	3.2	0.33	1.84	1.01	2.66	1.07
	161.925	47.625	48.260	38.100	3.6	3.2	342	391	52.4	2 400	3 200	**762**	**752**	35.5	92.0	97.0	144.0	150.0	3.6	3.2	0.34	1.76	0.97	3.18	1.61
73.817	112.712	25.400	25.400	19.050	1.6	3.2	122	155	23.3	3 200	4 300	**29688**	**29620**	26.2	83.0	81.0	101.0	109.0	1.6	3.2	0.49	1.23	0.68	0.588	0.270
	127.000	36.512	36.170	28.575	0.8	3.2	196	226	35.3	3 000	4 000	**568**	**563**	28.6	83.0	82.0	112.0	120.0	0.8	3.2	0.36	1.65	0.91	1.12	0.648
74.612	139.992	36.512	36.098	28.575	3.6	3.2	220	262	39.8	2 700	3 600	**577R**	**572**	31.0	91.0	85.0	125.0	133.0	3.6	3.2	0.40	1.49	0.82	1.69	0.779
75.000	115.000	25.000	25.000	19.000	3.0	2.8	127	151	23.0	3 100	4 200	**JLM714149**	**JLM714110**	25.5	87.0	81.0	104.0	110.0	3.0	2.8	0.46	1.31	0.72	0.612	0.269
	120.000	31.000	29.500	25.000	3.0	2.8	182	216	33.2	3 100	4 100	**JM714249**	**JM714210**	30.0	88.0	82.9	108.0	115.0	3.0	2.8	0.44	1.35	0.74	0.846	0.430
	145.000	51.000	51.000	42.000	3.0	2.5	362	412	55.2	2 700	3 600	**JH415647**	**JH415610**	36.6	94.0	89.0	129.0	139.0	3.0	2.5	0.36	1.66	0.91	2.66	1.18
76.200	121.442	24.608	23.012	17.462	3.6	2.0	113	127	19.4	3 000	4 000	**34301**	**34478**	26.8	89.0	83.0	110.0	116.0	3.6	2.0	0.45	1.33	0.73	0.617	0.313
	127.000	30.162	31.000	22.225	3.6	3.2	179	225	32.3	2 400	3 200	**42687**	**42620**	27.1	90.0	84.0	114.0	121.0	3.6	3.2	0.42	1.43	0.79	1.05	0.434
	127.000	30.162	31.000	22.225	6.4	3.2	179	225	32.3	2 400	3 200	**42688**	**42620**	27.1	96.0	84.0	114.0	121.0	6.4	3.2	0.42	1.43	0.79	1.04	0.434
	133.350	30.162	29.769	22.225	6.4	3.2	167	198	30.0	2 700	3 600	**495AX**	**492A**	29.8	98.0	86.0	120.0	128.0	6.4	3.2	0.44	1.35	0.74	1.20	0.430
	133.350	33.338	33.338	26.195	6.4	3.2	193	245	37.2	2 700	3 700	**47678R**	**47620**	29.2	97.0	90.0	119.0	128.0	6.4	3.2	0.40	1.48	0.82	1.29	0.577
	133.350	33.338	33.338	26.195	0.8	3.2	193	245	37.2	2 700	3 700	**47680R**	**47620**	29.2	86.0	85.0	119.0	128.0	0.8	3.2	0.40	1.48	0.82	1.39	0.577
	135.733	44.450	46.101	34.925	3.6	3.2	267	337	51.0	2 800	3 700	**5760**	**5735**	33.0	94.0	88.0	119.0	130.0	3.6	3.2	0.41	1.48	0.81	1.85	0.877
	136.525	30.162	29.769	22.225	3.6	3.2	167	198	30.0	2 700	3 600	**495A**	**493**	29.8	92.0	86.0	122.0	130.0	3.6	3.2	0.44	1.35	0.74	1.26	0.544
	139.992	36.512	36.098	28.575	3.6	3.2	220	262	39.8	2 700	3 600	**575R**	**572**	31.0	92.0	86.0	125.0	133.0	3.6	3.2	0.40	1.49	0.82	1.64	0.779
	139.992	36.512	36.098	28.575	6.7	3.2	220	262	39.8	2 700	3 600	**575SR**	**572**	31.0	99.0	86.0	125.0	133.0	6.7	3.2	0.40	1.49	0.82	1.61	0.779
	149.225	53.975	54.229	44.450	3.6	3.2	357	404	54.4	2 700	3 500	**6461**	**6420**	39.3	96.0	89.5	129.0	141.0	3.6	3.2	0.36	1.66	0.91	2.64	1.61
	149.225	53.975	54.229	44.450	9.5	3.2	357	404	54.4	2 700	3 500	**6461A**	**6420**	39.3	105.0	90.0	129.0	141.0	9.5	3.2	0.36	1.66	0.91	2.60	1.61
	150.089	44.450	46.672	36.512	3.6	3.2	330	368	50.1	2 500	3 400	**748SR**	**742**	32.4	93.0	87.0	134.0	142.0	3.6	3.2	0.33	1.84	1.01	2.51	1.06
	152.400	41.275	41.275	31.750	3.6	3.2	261	301	45.3	2 600	3 400	**659**	**652**	33.4	93.0	87.0	134.0	141.0	3.6	3.2	0.41	1.47	0.81	2.16	1.25
	190.500	57.150	57.531	46.038	3.6	3.2	549	602	76.9	2 000	2 700	**HH221430**	**HH221410**	42.5	101.0	95.0	171.0	179.0	3.6	3.2	0.33	1.79	0.99	6.33	2.21

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d 77.788 ~ (83.345) mm



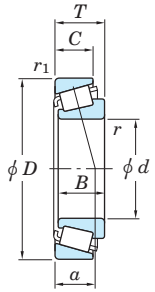


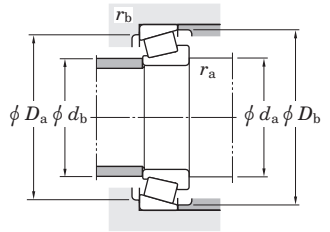
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
77.788	117.475	25.400	25.400	19.050	3.6	3.2	127	166	25.1	3 100	4 100	**LM814849**	**LM814810**	27.6	91.0	85.0	105.0	113.0	3.6	3.2	0.51	1.18	0.65	0.619	0.295
	121.442	24.608	23.012	17.462	3.6	2.0	113	127	19.4	3 000	4 000	**34306**	**34478**	26.8	90.0	84.0	110.0	116.0	3.6	2.0	0.45	1.33	0.73	0.583	0.313
	121.442	24.608	23.012	17.462	6.4	2.0	113	127	19.4	3 000	4 000	**34307**	**34478**	26.8	96.0	84.0	110.0	116.0	6.4	2.0	0.45	1.33	0.73	0.571	0.313
	127.000	30.162	31.000	22.225	3.6	3.2	179	225	32.3	2 400	3 200	**42690**	**42620**	27.1	91.0	85.0	114.0	121.0	3.6	3.2	0.42	1.43	0.79	1.00	0.434
79.375	146.050	41.275	41.275	31.750	3.6	3.2	261	301	45.3	2 600	3 400	**661**	**653**	33.4	96.0	90.0	131.0	139.0	3.6	3.2	0.41	1.47	0.81	2.04	0.880
	161.925	47.625	48.260	38.100	7.9	3.2	342	391	52.4	2 400	3 200	**756A**	**752**	35.5	106.0	91.0	144.0	150.0	7.9	3.2	0.34	1.76	0.97	2.95	1.59
	190.500	57.150	57.531	46.038	3.6	3.2	549	602	76.9	2 000	2 700	**HH221431**	**HH221410**	42.5	103.0	97.0	171.0	179.0	3.6	3.2	0.33	1.79	0.99	6.16	2.21
80.000	130.000	35.000	34.000	28.500	3.2	2.5	211	256	39.3	2 800	3 800	**JM515649**	**JM515610**	29.6	94.0	88.0	117.0	125.0	3.2	2.5	0.39	1.54	0.85	1.19	0.575
	200.000	52.761	49.212	34.925	3.6	3.2	433	471	58.8	1 400	1 900	**98316**	**98788**	54.5	111.0	105.0	174.0	188.0	3.6	3.2	0.63	0.95	0.52	5.73	2.28
80.962	133.350	30.162	29.769	22.225	3.6	3.2	167	198	30.0	2 700	3 600	**496**	**492A**	29.8	95.0	89.0	120.0	128.0	3.6	3.2	0.44	1.35	0.74	1.12	0.429
	133.350	33.338	33.338	26.195	3.6	3.2	193	245	37.2	2 700	3 700	**47681R**	**47620**	29.2	95.0	89.0	119.0	128.0	3.6	3.2	0.40	1.48	0.82	1.17	0.577
	139.992	36.512	36.098	28.575	3.6	3.2	220	262	39.8	2 700	3 600	**581R**	**572**	31.0	96.0	90.0	125.0	133.0	3.6	3.2	0.40	1.49	0.82	1.47	0.779
	150.089	44.450	46.672	36.512	5.2	3.2	330	368	50.1	2 500	3 400	**740R**	**742**	32.4	101.0	91.0	134.0	142.0	5.2	3.2	0.33	1.84	1.01	2.30	1.06
82.550	125.412	25.400	25.400	19.845	3.6	1.6	126	162	24.4	2 900	3 800	**27687**	**27620**	24.7	96.0	89.0	115.0	120.0	3.6	1.6	0.42	1.44	0.79	0.710	0.344
	133.350	30.162	29.769	22.225	3.6	3.2	167	198	30.0	2 700	3 600	**495**	**492A**	29.8	97.0	90.0	120.0	128.0	3.6	3.2	0.44	1.35	0.74	1.08	0.429
	133.350	33.338	33.338	26.195	3.6	0.8	193	245	37.2	2 700	3 700	**47686R**	**47620A**	29.2	97.0	90.0	121.0	128.0	3.6	0.8	0.40	1.48	0.82	1.13	0.577
	133.350	39.688	39.688	32.545	6.7	3.2	222	306	45.9	2 800	3 700	**HM516448**	**HM516410**	32.2	105.0	92.0	118.0	128.0	6.7	3.2	0.40	1.49	0.82	1.33	0.763
	139.700	36.512	36.098	28.575	3.6	3.2	220	262	39.8	2 700	3 600	**580R**	**572X**	31.0	98.0	91.0	125.0	133.0	3.6	3.2	0.40	1.49	0.82	1.41	0.765
	139.992	36.512	36.098	28.575	3.6	3.2	220	262	39.8	2 700	3 600	**580R**	**572**	31.0	98.0	91.0	125.0	133.0	3.6	3.2	0.40	1.49	0.82	1.41	0.779
	139.992	36.512	36.098	28.575	6.7	3.2	220	262	39.8	2 700	3 600	**582R**	**572**	31.0	104.0	91.0	125.0	133.0	6.7	3.2	0.40	1.49	0.82	1.40	0.779
	146.050	41.275	41.275	31.750	3.6	3.2	261	301	45.3	2 600	3 400	**663**	**653**	33.4	99.0	92.0	131.0	139.0	3.6	3.2	0.41	1.47	0.81	1.91	0.880
	150.089	44.450	46.672	36.512	3.6	3.2	330	368	50.1	2 500	3 400	**749AR**	**742**	32.4	99.0	93.0	134.0	142.0	3.6	3.2	0.33	1.84	1.01	2.23	1.06
	150.089	44.450	46.672	36.512	6.7	3.2	330	368	50.1	2 500	3 400	**750AR**	**742**	32.4	106.0	93.0	134.0	142.0	6.7	3.2	0.33	1.84	1.01	2.19	1.06
	161.925	47.625	48.260	38.100	3.6	3.2	342	391	52.4	2 400	3 200	**757**	**752**	35.5	100.0	94.0	144.0	150.0	3.6	3.2	0.34	1.76	0.97	2.83	1.59
83.345	125.412	25.400	25.400	19.845	0.8	1.6	126	162	24.4	2 900	3 800	**27689**	**27620**	24.7	90.0	90.0	115.0	120.0	0.8	1.6	0.42	1.44	0.79	0.746	0.344

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (83.345) ~ (88.900) mm





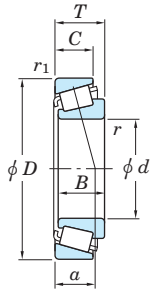
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
83.345	125.412	25.400	25.400	19.845	3.6	1.6	126	162	24.4	2 900	3 800	**27690**	**27620**	24.7	96.0	90.0	115.0	120.0	3.6	1.6	0.42	1.44	0.79	0.689	0.344
	125.412	25.400	25.400	19.845	6.4	1.6	126	162	24.4	2 900	3 800	**27691**	**27620**	24.7	102.0	90.0	115.0	120.0	6.4	1.6	0.42	1.44	0.79	0.646	0.344
84.138	133.350	30.162	29.769	22.225	3.6	3.2	167	198	30.0	2 700	3 600	**498**	**492A**	29.8	98.0	91.0	120.0	128.0	3.6	3.2	0.44	1.35	0.74	1.04	0.429
85.000	130.000	30.000	29.000	24.000	3.0	2.5	179	228	34.5	2 800	3 700	**JM716649**	**JM716610**	29.1	98.0	92.0	117.0	125.0	3.0	2.5	0.44	1.35	0.74	0.937	0.456
	140.000	39.000	38.000	31.500	3.0	2.5	254	308	46.4	2 700	3 500	**JHM516849**	**JHM516810**	32.8	100.0	93.9	125.0	134.0	3.0	2.5	0.41	1.47	0.81	1.54	0.759
	150.000	46.000	46.000	38.000	3.0	2.5	342	390	53.1	2 500	3 400	**JH217249**	**JH217210**	33.6	101.0	95.2	134.0	142.0	3.0	2.5	0.33	1.80	0.99	2.28	1.08
	200.000	52.761	49.212	34.925	3.6	3.2	433	471	58.8	1 400	1 900	**98335**	**98788**	54.5	115.0	109.0	174.0	188.0	3.6	3.2	0.63	0.95	0.52	5.47	2.28
85.026	150.089	44.450	46.672	36.512	3.6	3.2	330	368	50.1	2 500	3 400	**749R**	**742**	32.4	101.0	95.0	134.0	142.0	3.6	3.2	0.33	1.84	1.01	2.12	1.06
	150.089	44.450	46.672	36.512	5.2	3.2	330	368	50.1	2 500	3 400	**749SR**	**742**	32.4	104.0	95.0	134.0	142.0	5.2	3.2	0.33	1.84	1.01	2.08	1.06
85.725	133.350	30.162	29.769	22.225	3.6	3.2	167	198	30.0	2 700	3 600	**497**	**492A**	29.8	99.0	93.0	120.0	128.0	3.6	3.2	0.44	1.35	0.74	0.978	0.429
	136.525	30.162	29.769	22.225	6.4	3.2	167	198	30.0	2 700	3 600	**497A**	**493**	29.8	105.0	93.0	122.0	130.0	6.4	3.2	0.44	1.35	0.74	0.965	0.544
	142.138	42.862	42.862	34.133	4.8	3.2	276	351	52.4	2 600	3 500	**HM617049**	**HM617010**	35.2	106.0	95.7	125.0	137.0	4.8	3.2	0.43	1.39	0.76	1.72	0.902
	146.050	41.275	41.275	31.750	3.6	3.2	261	301	45.3	2 600	3 400	**665**	**653**	33.4	102.0	95.0	131.0	139.0	3.6	3.2	0.41	1.47	0.81	1.77	0.880
	146.050	41.275	41.275	31.750	6.4	3.2	261	301	45.3	2 600	3 400	**665A**	**653**	33.4	107.0	95.0	131.0	139.0	6.4	3.2	0.41	1.47	0.81	1.76	0.880
	152.400	39.688	36.322	30.162	3.6	3.2	230	287	42.5	2 400	3 300	**596**	**592A**	37.1	102.0	96.0	135.0	144.0	3.6	3.2	0.44	1.36	0.75	1.83	1.04
	161.925	47.625	48.260	38.100	3.6	3.2	342	391	52.4	2 400	3 200	**758**	**752**	35.5	103.0	97.0	144.0	150.0	3.6	3.2	0.34	1.76	0.97	2.67	1.59
	168.275	41.275	41.275	30.162	3.6	3.2	282	349	50.4	2 200	3 000	**677**	**672**	38.6	105.0	99.0	149.0	160.0	3.6	3.2	0.47	1.28	0.70	2.89	1.22
	168.275	53.975	56.363	41.275	3.6	3.2	429	467	62.1	2 300	3 100	**841R**	**832**	35.0	104.0	97.0	149.0	155.0	3.6	3.2	0.30	2.00	1.10	3.47	1.72
88.900	123.825	20.638	20.638	16.670	1.6	1.6	102	145	21.5	2 800	3 700	**L217849**	**L217810**	20.7	97.0	94.0	116.0	119.0	1.6	1.6	0.33	1.82	1.00	0.507	0.235
	152.400	39.688	39.688	30.162	6.4	3.2	311	359	53.5	2 400	3 200	**HM518445**	**HM518410**	33.1	110.0	98.0	135.0	146.0	6.4	3.2	0.40	1.49	0.82	2.10	0.768
	161.925	47.625	48.260	38.100	3.6	3.2	342	391	52.4	2 400	3 200	**759**	**752**	35.5	106.0	99.0	144.0	150.0	3.6	3.2	0.34	1.76	0.97	2.50	1.59
	161.925	47.625	48.260	38.100	7.1	3.2	342	391	52.4	2 400	3 200	**766**	**752**	35.5	113.0	99.0	144.0	150.0	7.1	3.2	0.34	1.76	0.97	2.48	1.59
	161.925	53.975	55.100	42.862	3.6	3.2	395	471	61.4	2 400	3 200	**6580R**	**6535**	49.8	109.0	98.0	141.0	154.0	3.6	3.2	0.40	1.50	0.82	3.09	1.65
	168.275	41.275	41.275	30.162	3.6	3.2	282	349	50.4	2 200	3 000	**679**	**672**	38.6	107.0	101.0	149.0	160.0	3.6	3.2	0.47	1.28	0.70	2.75	1.22
	190.500	57.150	57.531	44.450	7.9	3.2	482	565	72.4	2 100	2 700	**855R**	**854**	40.0	118.0	103.0	170.0	174.0	7.9	3.2	0.33	1.79	0.99	5.05	2.66

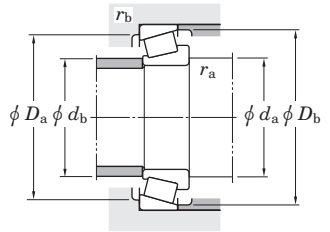
[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

Single-row tapered roller bearings
inch series

d (88.900) ~ 99.975 mm



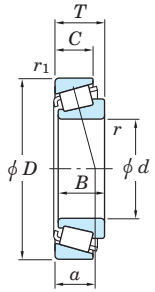


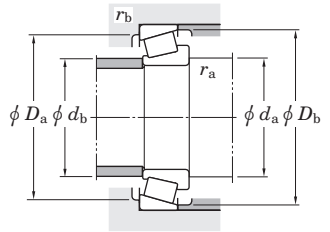
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
88.900	190.500	57.150	57.531	46.038	7.9	3.2	549	602	76.9	2 000	2 700	**HH221434**	**HH221410**	42.5	120.0	105.0	171.0	179.0	7.9	3.2	0.33	1.79	0.99	5.57	2.21
	200.000	52.761	49.212	34.925	3.6	3.2	433	471	58.8	1 400	1 900	**98350**	**98788**	54.5	118.0	112.0	174.0	188.0	3.6	3.2	0.63	0.95	0.52	5.27	2.28
89.974	146.975	40.000	40.000	32.500	7.1	3.6	259	310	46.6	2 500	3 300	**HM218248**	**HM218210**	30.8	112.0	99.0	133.0	141.0	7.1	3.6	0.33	1.80	0.99	1.66	0.784
90.000	145.000	35.000	34.000	27.000	3.0	2.5	244	291	43.5	2 500	3 400	**JM718149**	**JM718110**	32.7	105.0	99.0	131.0	139.0	3.0	2.5	0.44	1.35	0.74	1.47	0.652
	155.000	44.000	44.000	35.500	3.0	2.5	363	407	54.8	2 400	3 200	**JHM318448**	**JHM318410**	34.5	106.0	100.0	140.0	148.0	3.0	2.5	0.34	1.76	0.97	2.37	1.00
	161.925	53.975	55.100	42.862	3.0	3.2	395	471	61.4	2 400	3 200	**6581XR**	**6535**	41.0	102.0	98.0	141.0	154.0	3.0	3.2	0.40	1.50	0.82	3.02	1.65
90.488	161.925	47.625	48.260	38.100	3.6	3.2	342	391	52.4	2 400	3 200	**760**	**752**	35.5	107.0	101.0	144.0	150.0	3.6	3.2	0.34	1.76	0.97	2.42	1.59
92.075	146.050	33.338	34.925	26.195	3.6	3.2	223	293	43.2	2 500	3 300	**47890R**	**47820**	32.6	107.0	101.0	131.0	140.0	3.6	3.2	0.45	1.34	0.74	1.46	0.657
	168.275	41.275	41.275	30.162	3.6	3.2	282	349	50.4	2 200	3 000	**681**	**672**	38.6	110.0	104.0	149.0	160.0	3.6	3.2	0.47	1.28	0.70	2.61	1.22
	168.275	41.275	41.275	30.162	6.4	3.2	282	349	50.4	2 200	3 000	**681A**	**672**	38.6	116.0	104.0	149.0	160.0	6.4	3.2	0.47	1.28	0.70	2.60	1.22
	180.975	47.625	48.006	38.100	3.6	3.2	362	438	56.6	2 100	2 800	**778**	**772**	39.5	111.0	105.0	161.0	168.0	3.6	3.2	0.39	1.56	0.86	3.65	1.92
	190.500	57.150	57.531	44.450	7.9	3.2	482	565	72.4	2 100	2 700	**857R**	**854**	39.9	121.0	106.0	170.0	174.0	7.9	3.2	0.33	1.79	0.99	4.86	2.66
95.000	150.000	35.000	34.000	27.000	3.0	2.5	235	294	43.4	2 400	3 300	**JM719149**	**JM719113**	33.5	109.0	104.0	135.0	143.0	3.0	2.5	0.44	1.36	0.75	1.43	0.766
95.250	128.588	15.875	15.083	11.908	1.6	1.6	72.6	93.0	13.1	2 600	3 500	**LL319349**	**LL319310**	20.3	103.0	100.0	122.0	125.0	1.6	1.6	0.35	1.71	0.94	0.393	0.147
	130.175	20.638	21.432	16.670	1.6	1.6	121	167	24.7	2 600	3 500	**L319249**	**L319210**	22.2	107.0	101.0	122.0	125.0	1.6	1.6	0.35	1.72	0.95	0.548	0.246
	146.050	33.338	34.925	26.195	3.6	3.2	223	293	43.2	2 500	3 300	**47896R**	**47820**	32.6	110.0	103.0	131.0	140.0	3.6	3.2	0.45	1.34	0.74	1.34	0.657
	147.638	35.717	36.322	26.192	5.2	0.8	230	287	42.5	2 400	3 300	**594A**	**592XE**	33.4	113.0	104.0	135.0	142.0	5.2	0.8	0.44	1.36	0.75	1.45	0.620
	157.162	36.512	36.116	26.195	3.6	3.2	227	288	41.7	2 300	3 000	**52375**	**52618**	36.0	112.0	105.0	142.0	153.0	3.6	3.2	0.47	1.26	0.69	1.94	0.694
	168.275	41.275	41.275	30.162	3.6	3.2	282	349	50.4	2 200	3 000	**683**	**672**	38.6	113.0	106.0	149.0	160.0	3.6	3.2	0.47	1.28	0.70	2.46	1.22
	190.500	57.150	57.531	44.450	7.9	3.2	482	565	72.4	2 100	2 700	**864R**	**854**	39.9	123.0	108.0	170.0	174.0	7.9	3.2	0.33	1.79	0.99	4.64	2.66
	190.500	57.150	57.531	46.038	7.9	3.2	549	602	76.9	2 000	2 700	**HH221440**	**HH221410**	42.5	125.0	110.0	171.0	179.0	7.9	3.2	0.33	1.79	0.99	5.16	2.21
98.425	168.275	41.275	41.275	30.162	3.6	3.2	282	349	50.4	2 200	3 000	**685**	**672**	38.6	116.0	109.0	149.0	160.0	3.6	3.2	0.47	1.28	0.70	2.29	1.22
	190.500	57.150	57.531	46.038	3.6	3.2	549	602	76.9	2 000	2 700	**HH221442**	**HH221410**	42.5	119.0	113.0	171.0	179.0	3.6	3.2	0.33	1.79	0.99	4.97	2.21
99.975	212.725	66.675	66.675	53.975	3.6	3.2	641	699	87.1	1 800	2 400	**HH224334**	**HH224310**	47.6	122.0	117.0	192.0	202.0	3.6	3.2	0.33	1.84	1.01	7.91	3.03

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d 99.982 ~ (107.950) mm



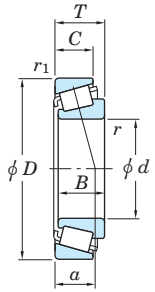


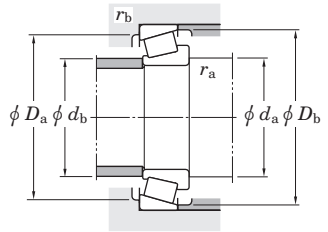
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
99.982	190.500	57.150	57.531	46.038	6.4	3.2	549	602	76.9	2 000	2 700	**HH221447**	**HH221410**	42.5	126.0	114.0	171.0	179.0	6.4	3.2	0.33	1.79	0.99	4.84	2.21
100.000	155.000	36.000	35.000	28.000	3.0	2.5	256	328	47.7	2 300	3 100	**JM720249**	**JM720210**	35.6	110.0	110.0	139.0	148.0	3.0	2.5	0.47	1.27	0.70	1.64	0.763
	160.000	41.000	40.000	32.000	3.0	2.5	298	378	54.6	2 300	3 000	**JHM720249**	**JHM720210**	38.3	110.0	111.0	143.0	153.0	3.0	2.5	0.47	1.28	0.70	2.11	0.964
100.012	157.162	36.512	36.116	26.195	3.6	3.2	227	288	41.7	2 300	3 000	**52393**	**52618**	36.0	113.0	115.0	142.0	153.0	3.6	3.2	0.47	1.26	0.69	1.74	0.694
101.600	157.162	36.512	36.116	26.195	3.6	3.2	227	288	41.7	2 300	3 000	**52400**	**52618**	36.0	114.0	115.0	142.0	153.0	3.6	3.2	0.47	1.26	0.69	1.67	0.694
	157.162	36.512	36.116	26.195	7.9	3.2	227	288	41.7	2 300	3 000	**52401**	**52618**	36.0	126.0	111.0	142.0	153.0	7.9	3.2	0.47	1.26	0.69	1.64	0.694
	168.275	41.275	41.275	30.162	3.6	3.2	282	349	50.4	2 200	3 000	**687**	**672**	38.6	114.0	115.0	146.0	157.0	3.6	3.2	0.47	1.28	0.70	2.15	1.22
	180.975	47.625	48.006	38.100	3.6	3.2	362	438	56.6	2 100	2 800	**780**	**772**	39.5	114.0	120.0	156.0	165.0	3.6	3.2	0.39	1.56	0.86	3.09	1.92
	190.500	57.150	57.531	44.450	7.9	3.2	482	565	72.4	2 100	2 700	**861R**	**854**	39.9	129.0	114.0	170.0	174.0	7.9	3.2	0.33	1.79	0.99	4.20	2.66
	190.500	57.150	57.531	46.038	7.9	3.2	549	602	76.9	2 000	2 700	**HH221449**	**HH221410**	42.5	123.0	119.0	168.0	178.0	7.9	3.2	0.33	1.79	0.99	4.72	2.21
	200.000	52.761	49.212	34.925	3.6	3.2	433	471	58.8	1 400	1 900	**98400**	**98788**	54.5	114.0	123.0	170.0	185.0	3.6	3.2	0.63	0.95	0.52	4.55	2.28
	212.725	66.675	66.675	53.975	7.1	3.2	563	674	84.1	1 800	2 400	**941**	**932**	47.6	121.0	135.0	181.0	192.0	7.1	3.2	0.33	1.84	1.01	7.07	4.07
	212.725	66.675	66.675	53.975	7.1	3.2	641	699	87.1	1 800	2 400	**HH224335**	**HH224310**	47.6	121.0	134.0	189.0	201.0	7.1	3.2	0.33	1.84	1.01	7.76	3.03
104.775	180.975	47.625	48.006	38.100	3.6	3.2	362	438	56.6	2 100	2 800	**782**	**772**	39.5	117.0	120.0	156.0	165.0	3.6	3.2	0.39	1.56	0.86	2.90	1.92
	180.975	47.625	48.006	38.100	6.4	3.2	362	438	56.6	2 100	2 800	**786**	**772**	39.5	123.0	120.0	156.0	165.0	6.4	3.2	0.39	1.56	0.86	2.88	1.92
	180.975	47.625	48.006	38.100	7.1	3.2	362	438	56.6	2 100	2 800	**787**	**772**	39.5	129.0	116.0	161.0	168.0	7.1	3.2	0.39	1.56	0.86	2.87	1.92
	190.500	47.625	49.212	34.925	3.6	3.2	381	483	60.9	1 900	2 600	**71412**	**71750**	40.9	117.0	131.0	167.0	177.0	3.6	3.2	0.42	1.44	0.79	3.96	1.72
106.362	165.100	36.512	36.512	26.988	3.6	3.2	245	325	46.3	2 200	2 900	**56418R**	**56650**	38.6	122.0	116.0	149.0	159.0	3.6	3.2	0.50	1.21	0.66	1.84	0.852
107.950	146.050	21.432	21.432	16.670	1.6	1.6	108	167	23.5	2 300	3 100	**L521949R**	**L521910**	26.2	116.0	114.0	136.0	141.0	1.6	1.6	0.39	1.53	0.84	0.665	0.325
	158.750	23.020	21.438	15.875	3.6	3.2	130	169	23.9	2 200	3 000	**37425**	**37625**	36.5	121.0	121.0	141.0	148.0	3.6	3.2	0.61	0.99	0.54	0.893	0.484
	159.987	34.925	34.925	26.988	3.6	3.2	231	319	45.8	2 200	2 900	**LM522546**	**LM522510**	32.9	122.0	116.0	146.0	154.0	3.6	3.2	0.40	1.50	0.82	1.64	0.784
	161.925	34.925	34.925	26.988	3.6	3.2	216	293	41.8	2 200	2 900	**48190**	**48120**	39.1	121.0	120.0	145.0	154.0	3.6	3.2	0.51	1.19	0.65	1.57	0.820
	165.100	36.512	36.512	26.988	3.6	3.2	245	325	46.3	2 200	2 900	**56425R**	**56650**	38.6	123.0	117.0	149.0	159.0	3.6	3.2	0.50	1.21	0.66	1.76	0.852
	168.275	36.512	36.512	26.988	3.6	3.2	245	325	46.3	2 200	2 900	**56425R**	**56662**	38.6	123.0	117.0	150.0	160.0	3.6	3.2	0.50	1.21	0.66	1.76	1.03
	190.500	47.625	49.212	34.925	3.6	3.2	381	483	60.9	1 900	2 600	**71425**	**71750**	40.9	121.0	131.0	167.0	177.0	3.6	3.2	0.42	1.44	0.79	3.76	1.72

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d (107.950) ~ 127.000 mm



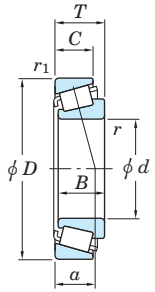


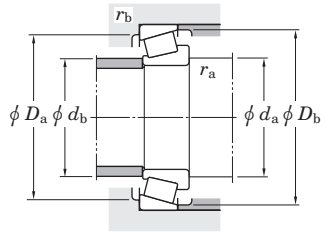
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
107.950	212.725	66.675	66.675	53.975	7.9	3.2	563	674	84.1	1 800	2 400	**936**	**932**	47.6	137.0	122.0	187.0	193.0	7.9	3.2	0.33	1.84	1.01	6.52	4.07
	212.725	66.675	66.675	53.975	7.9	3.2	641	699	87.1	1 800	2 400	**HH224340**	**HH224310**	47.6	129.0	134.0	189.0	201.0	7.9	3.2	0.33	1.84	1.01	7.21	3.03
109.538	158.750	23.020	21.438	15.875	3.6	3.2	130	169	23.9	2 200	3 000	**37431**	**37625**	36.5	123.0	116.0	143.0	152.0	6.4	6.4	0.61	0.99	0.54	0.848	0.484
109.987	159.987	34.925	34.925	26.988	7.9	3.2	231	319	45.8	2 200	2 900	**LM522548**	**LM522510**	32.9	131.0	121.0	146.0	154.0	7.9	3.2	0.40	1.50	0.82	1.52	0.784
	159.987	34.925	34.925	26.988	3.6	3.2	231	319	45.8	2 200	2 900	**LM522549**	**LM522510**	32.9	123.0	121.0	146.0	154.0	3.6	3.2	0.40	1.50	0.82	1.55	0.784
109.992	177.800	41.275	41.275	30.162	3.6	3.2	294	380	53.4	2 000	2 700	**64433R**	**64700**	42.8	128.0	121.0	160.0	172.6	3.6	3.2	0.52	1.16	0.64	2.69	1.10
110.000	165.000	35.000	35.000	26.500	3.0	2.5	245	325	46.3	2 200	2 900	**JM822049**	**JM822010**	38.1	121.0	121.0	148.0	157.0	3.0	2.5	0.50	1.21	0.66	1.64	0.826
	180.000	47.000	46.000	38.000	3.0	2.5	385	487	62.3	2 000	2 700	**JHM522649**	**JHM522610**	40.6	121.0	125.0	160.0	171.0	3.0	2.5	0.41	1.48	0.81	3.08	1.49
114.300	177.800	41.275	41.275	30.162	3.6	3.2	294	380	53.4	2 000	2 700	**64450R**	**64700**	42.8	131.0	125.0	160.0	172.0	3.6	3.2	0.52	1.16	0.64	2.45	1.10
	180.975	34.925	31.750	25.400	3.6	3.2	216	247	35.1	2 000	2 700	**68450**	**68712**	40.6	127.0	131.0	161.0	170.0	3.6	3.2	0.50	1.21	0.66	1.89	1.04
	190.500	47.625	49.212	34.925	3.6	3.2	381	483	60.9	1 900	2 600	**71450**	**71750**	40.9	127.0	131.0	167.0	177.0	3.6	3.2	0.42	1.44	0.79	3.33	1.72
	212.725	66.675	66.675	53.975	7.1	3.2	563	674	84.1	1 800	2 400	**938**	**932**	47.6	141.0	128.0	187.0	193.0	7.1	3.2	0.33	1.84	1.01	5.96	4.07
	212.725	66.675	66.675	53.975	7.1	3.2	641	699	87.1	1 800	2 400	**HH224346**	**HH224310**	47.6	134.0	134.0	189.0	201.0	7.1	3.2	0.33	1.84	1.01	6.64	3.03
	273.050	82.550	82.550	53.975	6.4	6.4	885	898	104	1 500	1 900	**HH926744**	**HH926710**	76.1	133.0	151.0	230.0	252.0	6.4	6.4	0.63	0.95	0.52	15.0	6.97
114.976	212.725	66.675	66.675	53.975	7.1	3.2	641	699	87.1	1 800	2 400	**HH224349**	**HH224310**	47.6	135.0	134.0	189.0	201.0	7.1	3.2	0.33	1.84	1.01	6.58	3.03
115.087	190.500	47.625	49.212	34.925	3.6	3.2	381	483	60.9	1 900	2 600	**71453**	**71750**	40.9	133.0	126.0	171.0	181.0	3.6	3.2	0.42	1.44	0.79	3.28	1.72
	190.500	47.625	49.212	34.925	7.9	3.2	381	483	60.9	1 900	2 600	**71455**	**71750**	40.9	136.0	131.0	167.0	177.0	7.9	3.2	0.42	1.44	0.79	3.25	1.72
117.475	180.975	34.925	31.750	25.400	3.6	3.2	216	247	35.1	2 000	2 700	**68462**	**68712**	40.6	130.0	131.0	161.0	170.0	3.6	3.2	0.50	1.21	0.66	1.75	1.04
	180.975	34.925	31.750	25.400	7.9	3.2	216	247	35.1	2 000	2 700	**68463**	**68712**	40.6	141.0	125.0	163.0	172.0	7.9	3.2	0.50	1.21	0.66	1.61	1.05
120.650	190.500	46.038	46.038	34.925	3.6	1.6	393	512	63.9	1 900	2 500	**HM624749**	**HM624710**	41.6	146.0	132.0	174.0	184.0	3.6	1.6	0.43	1.41	0.77	3.20	1.44
	254.000	77.788	82.550	61.912	9.5	6.4	895	1 050	125	1 500	2 000	**HH228340**	**HH228310**	54.3	158.0	142.0	223.0	234.0	9.5	6.4	0.32	1.87	1.03	12.6	6.00
127.000	254.000	77.788	82.550	61.912	9.5	6.4	895	1 050	125	1 500	2 000	**HH228349**	**HH228310**	54.3	164.0	148.0	223.0	234.0	9.5	6.4	0.32	1.87	1.03	11.8	6.00

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

d 133.350 ~ 292.100 mm



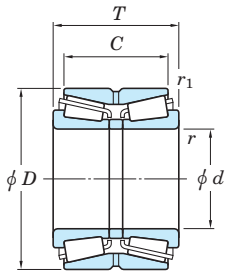


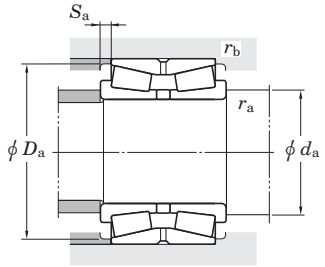
Boundary dimensions (mm)							Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No. [1]		Load center (mm)	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass (kg)	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.	Inner ring	Outer ring	a	d_a	d_b	D_a	D_b	r_a max.	r_b max.	e	Y_1	Y_0	Inner ring	Outer ring
133.350	177.008	25.400	26.195	20.638	1.6	1.6	176	278	38.2	1 900	2 500	**L327249**	**L327210**	29.1	142.0	145.0	164.0	171.0	1.6	1.6	0.35	1.72	0.95	1.14	0.543
142.875	200.025	41.275	39.688	34.130	7.9	3.3	307	491	66.5	1 700	2 200	**48684**	**48620**	38.4	166.0	151.0	185.0	193.0	7.9	3.3	0.34	1.78	0.98	2.43	1.38
	200.025	41.275	39.688	34.130	3.6	3.3	307	491	66.5	1 700	2 200	**48685**	**48620**	38.4	156.0	157.0	182.0	192.0	3.6	3.3	0.34	1.78	0.98	2.46	1.38
170.000	230.000	39.000	38.000	31.000	3.0	2.5	363	558	72.8	1 400	1 900	**JHM534149**	**JHM534110**	43.6	181.0	184.0	214.0	222.0	3.0	2.5	0.38	1.57	0.86	3.17	1.29
	240.000	46.000	44.500	37.000	3.0	2.5	443	666	77.1	1 400	1 800	**JM734449**	**JM734410**	50.6	181.0	184.0	220.0	231.0	3.0	2.5	0.44	1.37	0.75	4.31	2.00
171.450	222.250	25.400	24.608	19.050	1.6	1.6	197	299	38.7	1 400	1 900	**L435049**	**L435010**	36.0	181.0	179.0	211.0	215.0	1.6	1.6	0.38	1.60	0.88	1.63	0.697
180.000	250.000	47.000	45.000	37.000	3.0	2.5	456	705	81.7	1 300	1 700	**JM736149**	**JM736110**	55.2	191.0	193.0	230.0	242.0	3.0	2.5	0.48	1.25	0.69	4.47	2.10
190.000	260.000	46.000	44.000	36.500	3.0	2.5	461	723	81.4	1 200	1 700	**JM738249**	**JM738210**	56.0	201.0	203.0	240.0	251.0	3.0	2.5	0.48	1.26	0.69	4.71	2.18
196.850	254.000	28.575	27.783	21.433	1.6	1.6	236	387	48.2	1 200	1 600	**L540049**	**L540010**	43.1	206.0	214.0	238.0	245.0	1.6	1.6	0.40	1.51	0.83	2.34	1.02
200.000	300.000	65.000	62.000	51.000	3.6	2.5	773	1 140	124	1 100	1 500	**JHM840449**	**JHM840410**	72.1	213.0	218.0	270.0	288.0	3.6	2.5	0.52	1.15	0.63	9.97	5.13
220.878	317.500	47.625	52.388	36.513	3.2	3.2	611	928	103	970	1 300	**LM245833**	**LM245810**	50.5	234.0	253.0	296.0	304.0	3.2	3.2	0.33	1.80	0.99	9.56	2.78
228.600	358.775	71.438	71.438	53.975	3.6	3.2	968	1 590	166	840	1 100	**M249732**	**M249710**	64.4	242.0	279.0	330.0	343.0	3.6	3.2	0.33	1.80	0.99	20.1	6.44
230.188	317.500	47.625	52.388	36.513	3.2	3.2	611	928	103	970	1 300	**LM245846**	**LM245810**	50.5	242.0	238.0	309.0	312.0	3.2	3.2	0.33	1.80	0.99	8.25	2.78
231.775	317.500	47.625	52.388	36.513	3.2	3.2	611	928	103	970	1 300	**LM245848**	**LM245810**	50.5	244.0	240.0	309.0	312.0	3.2	3.2	0.33	1.80	0.99	8.02	2.78
	336.550	65.088	65.088	50.800	6.4	3.2	887	1 380	150	920	1 200	**M246942**	**M246910**	59.9	258.0	249.0	313.0	322.0	6.4	3.2	0.33	1.80	0.99	13.1	5.44
	358.775	71.438	71.438	53.975	6.4	3.2	968	1 590	166	920	1 200	**M249734**	**M249710**	64.4	258.0	253.0	335.0	343.0	6.4	3.2	0.33	1.80	0.99	19.9	6.44
254.000	358.775	71.438	71.438	53.975	3.6	3.2	968	1 590	166	840	1 100	**M249749**	**M249710**	64.4	268.0	279.0	330.0	343.0	3.6	3.2	0.33	1.80	0.99	14.8	6.44
257.175	342.900	57.150	57.150	44.450	6.4	3.2	764	1 280	135	870	1 200	**M349549**	**M349510**	60.1	276.0	276.0	320.0	330.0	6.4	3.2	0.35	1.73	0.95	9.27	3.99
292.100	374.650	47.625	47.625	34.925	3.6	3.2	587	971	111	760	1 000	**L555249**	**L555210**	64.7	306.0	309.0	351.0	360.0	3.6	3.2	0.40	1.49	0.82	7.97	3.53

[Note] 1) To the bearings with supplementary code "J" attached at the front of bearing number, tolerances shown in table 7-8 on page A72 are applied.

[Remark] Inch series tapered roller bearings with bore diameter larger than 100 mm are shown in catalog "large size ball & roller bearings".

Double-row tapered roller bearings
TDO type
d 25 ~ (60) mm

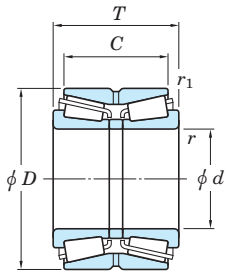


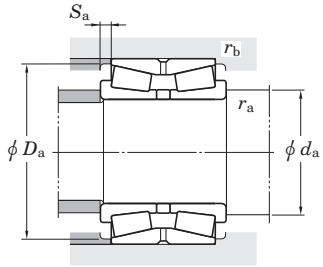


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)					Con-stant	Axial load factors			(Refer.) Mass
d	D	T	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a min.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	(kg)
25	62	40	29.5	1.5	0.6	85.2	84.9	5.80	4 500	6 400	**46T30305DJR/29.5**	33.5	58.5	5	1.5	0.6	0.83	0.82	1.22	0.8	0.592
30	72	45	31.5	1.5	0.6	109	110	7.70	3 900	5 400	**46T30306DJR/31.5**	38.5	68	6.5	1.5	0.6	0.83	0.82	1.22	0.8	0.872
35	80	51	35.5	2	0.6	135	138	9.85	3 400	4 800	**46T30307DJR/35.5**	45	76.5	7.5	2	0.6	0.83	0.82	1.22	0.8	1.2
40	80	45	37.5	1.5	0.6	134	138	10.3	4 000	5 300	**46T30208JR/37.5**	48.5	75	3.5	1.5	0.6	0.37	1.8	2.68	1.76	0.954
	80	55	43.5	1.5	0.6	166	182	13.6	4 000	5 300	**46T32208JR/43.5**	48.5	75	5.5	1.5	0.6	0.37	1.8	2.68	1.76	1.19
	90	56	39.5	2	0.6	172	180	13.1	3 000	4 200	**46T30308DJR/39.5**	50	86.5	8	2	0.6	0.83	0.82	1.22	0.8	1.67
	90	56	45.5	2	0.6	194	202	15.5	3 600	4 900	**46T30308JR/45.5**	50	82	5	2	0.6	0.35	1.96	2.91	1.91	1.67
45	85	47	37.5	1.5	0.6	144	155	11.6	3 700	4 900	**46T30209JR/37.5**	53.5	80	4.5	1.5	0.6	0.4	1.67	2.48	1.63	1.1
	85	55	43.5	1.5	0.6	180	207	15.6	3 700	4 900	**46T32209JR-1/43.5**	53.5	81	5.5	1.5	0.6	0.4	1.67	2.48	1.63	1.31
	100	60	41.5	2	0.6	204	214	15.8	2 700	3 800	**46T30309DJR/41.5**	55	96	9	2	0.6	0.83	0.82	1.22	0.8	2.15
	100	60	49.5	2	0.6	242	256	19.9	3 300	4 300	**46T30309JR/49.5**	55	93	5	2	0.6	0.35	1.96	2.91	1.91	2.2
50	90	49	39.5	1.5	0.6	164	183	13.8	3 400	4 600	**46T30210JR/39.5**	58.5	85	4.5	1.5	0.6	0.42	1.61	2.39	1.57	1.22
	90	55	43.5	1.5	0.6	182	211	15.9	3 500	4 600	**46T32210JR/43.5**	58.5	85	5.5	1.5	0.6	0.42	1.61	2.39	1.57	1.39
	110	64	51.5	2	0.6	295	305	24.0	3 000	4 000	**46T30310JR/51.5**	62	102	6	2	0.6	0.35	1.96	2.91	1.91	2.68
	110	73	52.5	2	0.6	247	266	19.8	2 500	3 500	**46T30310DJR/52.5**	62	105	10	2	0.6	0.83	0.82	1.22	0.8	3.11
	110	90	71.5	2	0.6	378	440	34.2	3 000	4 000	**46T32310JR/71.5**	62	102	9	2	0.6	0.35	1.96	2.91	1.91	3.95
55	100	51	41.5	2	0.6	203	226	17.3	3 100	4 100	**46T30211JR/41.5**	65	94	4.5	2	0.6	0.4	1.67	2.48	1.63	1.6
	100	60	48.5	2	0.6	230	266	20.5	3 100	4 100	**46T32211JR-1/48.5**	65	95	5.5	2	0.6	0.4	1.67	2.48	1.63	1.87
	120	70	49	2	0.6	276	297	22.3	2 300	3 200	**46T30311DJR/49**	67	113	10.5	2	0.6	0.83	0.82	1.22	0.8	3.54
	120	70	57	2	0.6	320	341	27.0	2 700	3 600	**46T30311JR/57**	67	111	6.5	2	0.6	0.35	1.96	2.91	1.91	3.57
	120	97	76	2	0.6	429	500	39.1	2 700	3 600	**46T32311JR/76**	67	111	10.5	2	0.6	0.35	1.96	2.91	1.91	4.98
60	110	53	43.5	2	0.6	228	254	19.7	2 800	3 800	**46T30212JR/43.5**	70	103	4.5	2	0.6	0.4	1.67	2.48	1.63	2.04
	110	66	54.5	2	0.6	282	334	25.9	2 800	3 800	**46T32212JR/54.5**	70	104	5.5	2	0.6	0.4	1.67	2.48	1.63	—
	130	74	51	2.5	1	327	359	27.1	2 100	2 900	**46T30312DJR/51**	74	124	11.5	2.5	1	0.83	0.82	1.22	0.8	4.45
	130	74	59	2.5	1	372	401	31.9	2 500	3 300	**46T30312JR/59**	74	120	7.5	2.5	1	0.35	1.96	2.91	1.91	4.46

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

d (60) ~ (90) mm

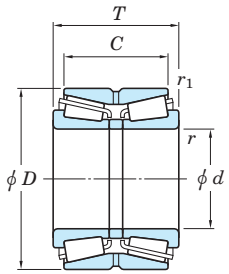


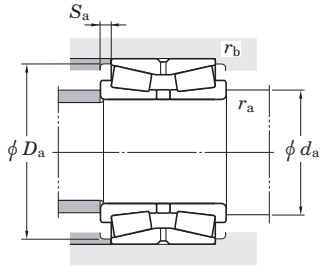


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)					Constant	Axial load factors			(Refer.) Mass
d	D	T	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a min.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	(kg)
60	130	104	81	2.5	1	524	629	44.1	2 500	3 300	**46T32312JR/81**	74	120	11.5	2.5	1	0.35	1.96	2.91	1.91	6.45
65	120	56	46.5	2	0.6	275	311	24.3	2 600	3 400	**46T30213JR/46.5**	75	113	4.5	2	0.6	0.4	1.67	2.48	1.63	—
	120	73	61.5	2	0.6	337	406	31.7	2 600	3 400	**46T32213JR/61.5**	75	115	5.5	2	0.6	0.4	1.67	2.48	1.63	3.4
	140	79	53	2.5	1	377	417	31.4	1 900	2 700	**46T30313DJR/53**	79	133	13	2.5	1	0.83	0.82	1.22	0.8	5.3
	140	79	63	2.5	1	437	478	37.6	2 300	3 000	**46T30313JR/63**	79	130	8	2.5	1	0.35	1.96	2.91	1.91	5.51
	140	108	84	2.5	1	593	714	49.6	2 300	3 100	**46T32313JR/84**	79	130	12	2.5	1	0.35	1.96	2.91	1.91	7.71
70	125	59	48.5	2	0.6	296	346	27.1	2 400	3 300	**46T30214JR/48.5**	80	118	5	2	0.6	0.42	1.61	2.39	1.57	—
	125	74	61.5	2	0.6	363	450	35.2	2 400	3 300	**46T32214JR/61.5**	80	119	6	2	0.6	0.42	1.61	2.39	1.57	3.7
	150	83	57	2.5	1	421	470	34.9	1 800	2 500	**46T30314DJR/57**	84	142	13	2.5	1	0.83	0.82	1.22	0.8	6.48
	150	83	67	2.5	1	493	546	42.2	2 100	2 800	**46T30314JR/67**	84	140	8	2.5	1	0.35	1.96	2.91	1.91	6.65
	150	116	92	2.5	1	679	829	57.2	2 200	2 900	**46T32314JR/92**	84	140	12	2.5	1	0.35	1.96	2.91	1.91	9.46
75	115	30	26	1.5	0.6	89.9	105	7.30	2 500	3 300	**46215**	83.5	106.5	2	1.5	0.6	0.32	2.12	3.15	2.07	0.994
	115	38	30	1.5	0.6	153	207	15.6	2 500	3 300	**46215A**	83.5	107.4	4	1.5	0.6	0.32	2.12	3.15	2.07	1.32
	130	62	51.5	2	0.6	305	362	28.2	2 300	3 100	**46T30215JR/51.5**	85	124	5	2	0.6	0.44	1.55	2.31	1.52	3.12
	130	74	61.5	2	0.6	373	469	36.4	2 300	3 100	**46T32215JR/61.5**	85	125	6	2	0.6	0.44	1.55	2.31	1.52	3.85
	160	87	69	2.5	1	557	621	44.9	2 000	2 600	**46T30315JR/69**	89	149	9	2.5	1	0.35	1.96	2.91	1.91	7.8
	160	125	99	2.5	1	779	963	64.6	2 000	2 700	**46T32315JR/99**	89	149	13	2.5	1	0.35	1.96	2.91	1.91	11.5
80	125	34	30	1.5	0.6	136	155	11.3	2 300	3 100	**46216**	88.5	116.9	2	1.5	0.6	0.35	1.95	2.90	1.91	1.38
	140	64	51.5	2	0.6	346	405	31.2	2 200	2 900	**46T30216JR/51.5**	92	132	6	2	0.6	0.42	1.61	2.39	1.57	3.76
	140	78	63.5	2	0.6	434	542	41.5	2 200	2 900	**46T32216JR/63.5**	92	134	7	2	0.6	0.42	1.61	2.39	1.57	4.71
	170	92	73	2.5	1	630	711	49.9	1 800	2 500	**46T30316JR/73**	94	159	9.5	2.5	1	0.35	1.96	2.91	1.91	9.44
85	150	70	57	2	0.6	391	463	35.1	2 000	2 700	**46T30217JR/57**	97	141	6.5	2	0.6	0.42	1.61	2.39	1.57	4.79
	150	86	69	2	0.6	498	630	47.5	2 000	2 700	**46T32217JR/69**	97	142	8.5	2	0.6	0.42	1.61	2.39	1.57	6.05
	180	98	77	3	1	679	768	53.0	1 700	2 300	**46T30317JR/77**	103	167	10.5	3	1	0.35	1.96	2.91	1.91	11
	180	137	108	3	1	941	1 170	77.6	1 800	2 400	**46T32317JR/108**	103	167	14.5	3	1	0.35	1.96	2.91	1.91	16
90	140	37	33	2	0.6	171	199	14.4	2 100	2 800	**46218**	100	130.6	2	2	0.6	0.35	1.95	2.90	1.91	1.89

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

d (90) ~ 110 mm

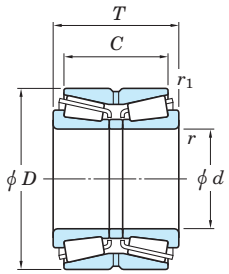


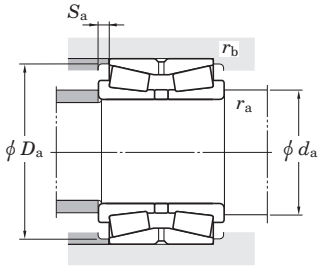


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)					Con-stant	Axial load factors			(Refer.) Mass
d	D	T	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a min.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	(kg)
90	140	46	37	2	0.6	196	266	19.6	2 000	2 700	**46218A**	100	129.9	4.5	2	0.6	0.32	2.12	3.15	2.07	2.37
	160	74	61	2	0.6	438	522	39.0	1 900	2 500	**46T30218JR/61**	102	150	6.5	2	0.6	0.42	1.61	2.39	1.57	5.85
	160	94	77	2	0.6	565	724	53.7	1 900	2 500	**46T32218JR/77**	102	152	8.5	2	0.6	0.42	1.61	2.39	1.57	7.53
	190	102	81	3	1	741	841	57.1	1 600	2 200	**46T30318JR/81**	108	177	10.5	3	1	0.35	1.96	2.91	1.91	13
	190	144	115	3	1	989	1 230	78.7	1 700	2 200	**46T32318JR/115**	108	177	14.5	3	1	0.35	1.96	2.91	1.91	18.6
95	170	78	63	2.5	1	496	598	44.0	1 800	2 400	**46T30219JR/63**	109	159	7.5	2.5	1	0.42	1.61	2.39	1.57	7.01
	170	100	83	2.5	1	667	877	64.1	1 800	2 400	**46T32219JR/83**	109	161	8.5	2.5	1	0.42	1.61	2.39	1.57	9.25
	200	108	85	3	1	798	909	60.9	1 600	2 100	**46T30319JR/85**	113	186	11.5	3	1	0.35	1.96	2.91	1.91	14.8
	200	151	118	3	1	1 110	1 390	89.2	1 600	2 100	**46T32319JR/118**	113	186	16.5	3	1	0.35	1.96	2.91	1.91	21.4
100	150	46	37	2	0.6	226	293	21.3	1 900	2 500	**46220A**	110	142	4.5	2	0.6	0.35	1.95	2.90	1.91	2.53
	165	52	46	2.5	0.6	249	305	22.0	1 700	2 300	**46320**	112	154	3	2	0.6	0.35	1.95	2.90	1.91	4.03
	165	65	52	2.5	0.6	333	443	32.4	1 800	2 300	**46320A**	112	153	6.5	2	0.6	0.35	1.95	2.90	1.91	4.97
	180	83	67	2.5	1	554	676	49.1	1 700	2 200	**46T30220JR/67**	114	168	8	2.5	1	0.42	1.61	2.39	1.57	8.33
	180	107	87	2.5	1	745	990	63.9	1 700	2 200	**46T32220JR/87**	114	171	10	2.5	1	0.42	1.61	2.39	1.57	11.1
	215	112	87	3	1	906	1 040	68.0	1 500	1 900	**46T30320JR/87**	118	200	12.5	3	1	0.35	1.96	2.91	1.91	18.1
	215	162	127	3	1	1 240	1 570	96.9	1 500	2 000	**46T32320JR/127**	118	200	17.5	3	1	0.35	1.96	2.91	1.91	27.2
105	190	88	70	2.5	1	618	761	52.3	1 600	2 100	**46T30221JR/70**	119	178	9	2.5	1	0.42	1.61	2.39	1.57	9.87
	190	115	95	2.5	1	840	1 130	73.0	1 600	2 100	**46T32221JR/95**	119	180	10	2.5	1	0.42	1.61	2.39	1.57	13.5
	225	116	91	3	1	995	1 160	73.6	1 400	1 800	**46T30321JR/91**	123	209	12.5	3	1	0.35	1.96	2.91	1.91	20.7
	225	170	133	3	1	1 360	1 730	107	1 400	1 900	**46T32321JR/133**	123	209	18.5	3	1	0.35	1.96	2.91	1.91	30.9
110	170	45	40	2.5	0.6	219	304	21.2	1 700	2 200	**46222**	122	158	2.5	2	0.6	0.35	1.95	2.90	1.91	3.58
	180	56	50	2.5	0.6	308	388	27.7	1 600	2 100	**46322**	122	168	3	2	0.6	0.35	1.95	2.90	1.91	5.13
	180	70	56	2.5	0.6	391	533	38.1	1 600	2 100	**46322A**	122	168	7	2	0.6	0.35	1.92	2.86	1.88	6.43
	200	92	74	2.5	1	695	868	58.1	1 500	2 000	**46T30222JR/74**	124	188	9	2.5	1	0.42	1.61	2.39	1.57	11.6
	200	121	101	2.5	1	938	1 280	80.4	1 500	2 000	**46T32222JR/101**	124	190	10	2.5	1	0.42	1.61	2.39	1.57	15.9
	240	118	93	3	1	1 030	1 180	75.2	1 300	1 700	**46T30322JR/93**	128	222	12.5	3	1	0.35	1.96	2.91	1.91	23.8
	240	181	142	3	1	1 480	1 890	115	1 300	1 700	**46T32322JR/142**	128	222	19.5	3	1	0.35	1.96	2.91	1.91	37.3

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

d 120 ~ (150) mm

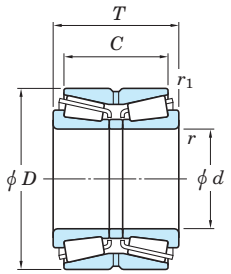


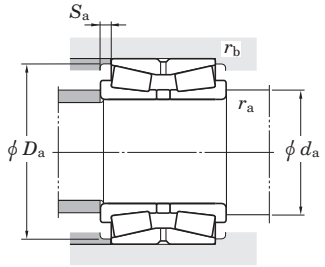


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)					Con-stant	Axial load factors			(Refer.) Mass (kg)
d	D	T	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a min.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	
120	180	46	41	2.5	0.6	232	317	21.8	1 500	2 000	**46224**	132	170	2.5	2	0.6	0.35	1.95	2.90	1.91	3.81
	180	58	46	2.5	0.6	309	460	32.2	1 500	2 100	**46224A**	132	169	6	2	0.6	0.35	1.95	2.90	1.91	4.66
	200	62	55	2.5	0.6	367	470	32.8	1 400	1 900	**46324**	132	184	3.5	2	0.6	0.35	1.95	2.90	1.91	7.28
	200	78	62	2.5	0.6	486	672	47.0	1 400	1 900	**46324A**	132	185	8	2	0.6	0.35	1.95	2.90	1.91	9.14
	200	100	84	2.5	0.6	670	1 010	62.5	1 400	1 900	**46324AS**	132	190	8	2	0.6	0.35	1.95	2.90	1.91	12.0
	215	97	78	2.5	1	745	945	61.7	1 400	1 800	**46T30224JR/78**	134	203	9.5	2.5	1	0.44	1.55	2.31	1.52	13.9
	215	132	109	2.5	1	1 010	1 380	84.0	1 400	1 900	**46T32224JR/109**	134	204	11.5	2.5	1	0.44	1.55	2.31	1.52	19.8
	260	128	101	3	1	1 220	1 430	89.9	1 200	1 600	**46T30324JR/101**	138	239	13.5	3	1	0.35	1.96	2.91	1.91	30.6
	260	188	145	4	1.5	1 720	2 210	131	1 200	1 600	**46T32324JR/145**	142	239	21.5	4	1.5	0.35	1.96	2.91	1.91	45.9
130	200	52	46	2.5	0.6	299	425	28.9	1 400	1 800	**46226**	142	187	3	2	0.6	0.35	1.95	2.90	1.91	5.57
	200	65	52	2.5	0.6	400	618	42.5	1 400	1 900	**46226A**	142	185	6.5	2	0.6	0.35	1.95	2.90	1.91	7.06
	210	64	57	2.5	0.6	404	535	36.8	1 400	1 800	**46326**	142	196	3.5	2	0.6	0.36	1.87	2.79	1.83	7.81
	210	80	64	2.5	0.6	513	723	49.7	1 300	1 800	**46326A**	142	198	8	2	0.6	0.36	1.87	2.79	1.83	9.57
	230	98	78.5	3	1	809	1 020	65.7	1 300	1 700	**46T30226JR/78.5**	148	218	9.5	3	1	0.44	1.55	2.31	1.52	15.7
	230	145	117.5	3	1	1 190	1 660	99.9	1 300	1 700	**46T32226JR/117.5**	148	219	14	3	1	0.44	1.55	2.31	1.52	24.1
	280	137	107.5	4	1.5	1 410	1 670	102	1 100	1 400	**46T30326JR/107.5**	152	255	15	4	1.5	0.35	1.96	2.91	1.91	38.1
140	210	53	47	2.5	0.6	299	404	27.3	1 300	1 800	**46228**	152	196	3	2	0.6	0.33	2.03	3.02	1.98	5.85
	210	66	53	2.5	0.6	452	639	43.4	1 300	1 800	**46228A**	152	199	6.5	2	0.6	0.47	1.43	2.12	1.40	7.18
	225	68	61	3	1	423	564	38.1	1 200	1 700	**46328**	154	210	3.5	2.5	1	0.35	1.95	2.90	1.91	9.56
	225	85	68	3	1	597	836	56.6	1 200	1 700	**46328A**	154	212	8	2.5	1	0.35	1.95	2.90	1.91	11.8
	250	102	82.5	3	1	902	1 140	71.8	1 200	1 500	**46T30228JR/82.5**	158	237	9.5	3	1	0.44	1.55	2.31	1.52	19.7
	250	153	125.5	3	1	1 360	1 920	112	1 200	1 600	**46T32228JR/125.5**	158	238	14	3	1	0.44	1.55	2.31	1.52	30.2
	300	145	115.5	4	1.5	1 610	1 920	114	1 000	1 300	**46T30328JR/115.5**	162	273	15	4	1.5	0.35	1.96	2.91	1.91	46.6
150	225	56	50	3	1	348	476	31.6	1 200	1 600	**46230**	164	213	3	2.5	1	0.33	2.03	3.02	1.98	7.09
	225	70	56	3	1	472	703	47.0	1 200	1 600	**46230A**	164	213	7	2.5	1	0.33	2.03	3.02	1.98	8.82
	250	80	71	3	1	587	786	49.2	1 100	1 500	**46330**	164	233	4.5	2.5	1	0.35	1.95	2.90	1.91	14.6
	250	100	80	3	1	748	1 070	66.2	1 100	1 500	**46330A**	164	234	10	2.5	1	0.35	1.95	2.90	1.91	17.6
	270	109	87	3	1	1 040	1 330	80.9	1 100	1 400	**46T30230JR/87**	168	255	11	3	1	0.44	1.55	2.31	1.52	24.6

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

Double-row tapered roller bearings
TDO type
d (150) ~ (200) mm

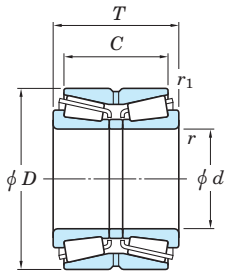


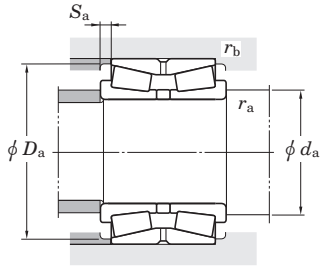


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)					Constant	Axial load factors			(Refer.) Mass
d	D	T	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a min.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	(kg)
150	270	164	130	3	1	1 510	2 130	122	1 100	1 400	**46T32230JR/130**	168	254	17	3	1	0.44	1.55	2.31	1.52	38
	320	154	120	4	1.5	1 800	2 160	129	930	1 200	**46T30330JR/120**	172	292	17	4	1.5	0.35	1.96	2.91	1.91	56
160	240	60	53	3	1	405	565	37.0	1 100	1 500	**46232**	174	228	3.5	2.5	1	0.33	2.03	3.02	1.98	8.71
	240	75	60	3	1	508	756	49.8	1 100	1 500	**46232A**	174	226	7.5	2.5	1	0.33	2.03	3.02	1.98	10.6
	270	86	76	3	1	695	950	57.5	1 000	1 400	**46332**	174	252	5	2.5	1	0.35	1.95	2.90	1.91	18.8
	270	108	86	3	1	871	1 270	75.1	1 000	1 400	**46332A**	174	252	11	2.5	1	0.35	1.95	2.90	1.91	23.1
	290	115	91	3	1	1 160	1 500	89.3	980	1 300	**46T30232JR/91**	178	269	12	3	1	0.44	1.55	2.31	1.52	29.9
	290	178	144	3	1	1 700	2 420	137	1 000	1 300	**46T32232JR/144**	178	274	17	3	1	0.44	1.55	2.31	1.52	47.6
170	260	67	60	3	1	480	642	41.7	1 000	1 400	**46234**	184	243	3.5	2.5	1	0.33	2.03	3.02	1.98	11.4
	260	84	67	3	1	629	969	62.6	1 000	1 400	**46234A**	184	244	8.5	2.5	1	0.33	2.03	3.02	1.98	14.7
	280	88	78	3	1	754	1 050	62.5	970	1 300	**46334**	184	263	5	2.5	1	0.33	2.06	3.06	2.01	19.8
	280	110	88	3	1	938	1 390	81.5	980	1 300	**46334A**	184	260	11	2.5	1	0.33	2.06	3.06	2.01	24.7
	310	125	97	4	1.5	1 330	1 730	103	900	1 200	**46T30234JR/97**	192	288	14	4	1.5	0.44	1.55	2.31	1.52	37.5
	310	192	152	4	1.5	1 930	2 760	152	910	1 200	**46T32234JR/152**	192	294	20	4	1.5	0.44	1.55	2.31	1.52	58.8
180	280	74	66	3	1	582	801	49.4	950	1 300	**46236**	194	263	4	2.5	1	0.33	2.03	3.02	1.98	15.5
	280	93	74	3	1	732	1 080	65.6	960	1 300	**46236A**	194	261	9.5	2.5	1	0.33	2.03	3.02	1.98	19.0
	300	96	85	4	1.5	872	1 240	74.5	910	1 200	**46336**	198	277	5.5	3	1.5	0.33	2.06	3.06	2.01	25.8
	300	120	96	4	1.5	1 080	1 630	95.1	900	1 200	**46336A**	198	279	12	3	1.5	0.33	2.06	3.06	2.01	31.3
	320	127	99	4	1.5	1 320	1 740	102	860	1 200	**46T30236JR/99**	202	297	14	4	1.5	0.45	1.5	2.23	1.47	40.1
	320	192	152	4	1.5	2 060	3 030	164	880	1 200	**46T32236JR/152**	202	303	20	4	1.5	0.45	1.5	2.23	1.47	62.5
190	290	75	67	3	1	610	866	52.9	910	1 200	**46238**	204	272	4	2.5	1	0.32	2.12	3.15	2.07	16.5
	290	94	75	3	1	793	1 170	70.2	900	1 200	**46238A**	204	274	9.5	2.5	1	0.33	2.03	3.02	1.98	20.0
	320	104	92	4	1.5	1 020	1 450	84.1	830	1 100	**46338**	208	298	6	3	1.5	0.35	1.95	2.90	1.91	31.9
	320	130	104	4	1.5	1 230	1 860	106	840	1 100	**46338A**	208	298	13	3	1.5	0.35	1.95	2.90	1.91	39.0
	340	133	105	4	1.5	1 560	2 060	118	800	1 100	**46T30238JR/105**	212	318	14	4	1.5	0.44	1.55	2.31	1.52	47.8
	340	204	160	4	1.5	2 340	3 480	187	810	1 100	**46T32238JR/160**	212	323	22	4	1.5	0.44	1.55	2.31	1.52	75.1
200	310	82	73	3	1	716	1 040	61.6	850	1 100	**46240**	214	288	4.5	2.5	1	0.32	2.12	3.15	2.07	21.4

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

d (200) ~ (300) mm

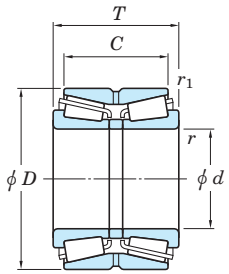


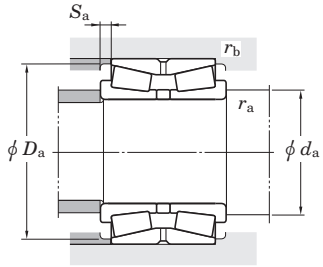


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)					Constant	Axial load factors			(Refer.) Mass
d	D	T	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a min.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	(kg)
200	310	103	82	3	1	893	1 380	80.2	840	1 100	**46240A**	214	289	10.5	2.5	1	0.32	2.12	3.15	2.07	26.3
	340	112	100	4	1.5	1 100	1 580	90.2	780	1 000	**46340**	218	316	6	3	1.5	0.35	1.95	2.90	1.91	39.6
	340	140	112	4	1.5	1 350	2 040	113	770	1 000	**46340A**	218	319	14	3	1.5	0.35	1.95	2.90	1.91	48.2
	360	142	110	4	1.5	1 700	2 240	126	750	1 000	**46T30240JR/110**	222	336	16	4	1.5	0.44	1.55	2.31	1.52	56.5
	360	218	174	4	1.5	2 660	3 760	200	770	1 000	**46T32240JR/174**	222	340	22	4	1.5	0.41	1.66	2.47	1.62	88.2
220	340	90	80	4	1.5	849	1 240	71.0	750	990	**46244**	238	319	5	3	1.5	0.32	2.12	3.15	2.07	27.8
	340	113	90	4	1.5	1 040	1 620	91.5	750	1 000	**46244A**	238	318	11.5	3	1.5	0.32	2.12	3.15	2.07	34.2
	370	120	107	5	1.5	1 260	1 810	101	700	930	**46344**	242	346	6.5	4	1.5	0.35	1.95	2.90	1.91	49.1
	370	150	120	5	1.5	1 600	2 470	136	710	940	**46344A**	242	343	15	4	1.5	0.35	1.95	2.90	1.91	60.1
	400	150	114	4	1.5	2 170	2 880	160	660	890	**46T30244JR/114**	242	371	18	4	1.5	0.42	1.61	2.39	1.57	75.8
240	360	92	82	4	1.5	962	1 430	79.7	690	920	**46248**	258	338	5	3	1.5	0.32	2.12	3.15	2.07	29.6
	360	115	92	4	1.5	1 240	1 980	108	690	920	**46248A**	258	341	11.5	3	1.5	0.32	2.12	3.15	2.07	36.9
	400	128	114	5	1.5	1 490	2 180	121	630	840	**46348**	262	377	7	4	1.5	0.35	1.95	2.90	1.91	59.0
	400	160	128	5	1.5	1 940	3 060	162	630	850	**46348A**	262	373	16	4	1.5	0.35	1.95	2.90	1.91	76.2
260	400	104	92	5	1.5	1 170	1 830	100	610	820	**46252**	282	373	6	4	1.5	0.33	2.03	3.02	1.98	44.6
	400	130	104	5	1.5	1 520	2 480	133	610	810	**46252A**	282	376	13	4	1.5	0.32	2.12	3.15	2.07	54.8
	440	144	128	5	1.5	1 900	2 880	151	560	750	**46352**	282	410	8	4	1.5	0.35	1.95	2.90	1.91	83.8
	440	180	144	5	1.5	2 430	3 960	204	570	760	**46352A**	282	409	18	4	1.5	0.35	1.95	2.90	1.91	105
280	420	106	94	5	1.5	1 260	1 970	106	570	760	**46256**	302	395	6	4	1.5	0.33	2.03	3.02	1.98	46.9
	420	133	106	5	1.5	1 570	2 610	139	570	760	**46256A**	302	394	13.5	4	1.5	0.33	2.03	3.02	1.98	58.9
	460	146	130	6	2	1 950	2 930	154	530	700	**46356**	308	430	8	5	2	0.35	1.95	2.90	1.91	90.0
	460	183	146	6	2	2 470	3 940	203	520	690	**46356A**	308	434	18.5	5	2	0.35	1.95	2.90	1.91	111
300	460	118	105	5	1.5	1 630	2 400	127	500	670	**46260**	322	436	6.5	4	1.5	0.32	2.12	3.15	2.07	64.6
	460	148	118	5	1.5	2 050	3 230	165	510	680	**46260A**	322	433	15	4	1.5	0.32	2.12	3.15	2.07	80.2
	500	160	142	6	2	2 320	3 540	183	470	620	**46360**	328	469	9	5	2	0.35	1.95	2.90	1.91	116
	500	200	160	6	2	2 860	4 630	231	470	630	**46360A**	328	466	20	5	2	0.35	1.95	2.90	1.91	144

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

Double-row tapered roller bearings
TDO type
d (300) ~420 mm

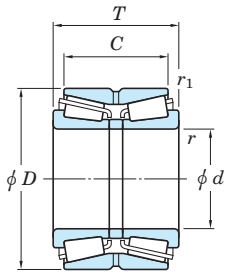


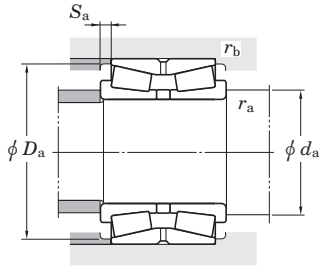


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)					Constant	Axial load factors			(Refer.) Mass
d	D	T	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a min.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	(kg)
300	500	200	160	6	1.5	3 140	4 650	237	—	—	**46360D**	328	475	20	5	1.5	0.40	1.68	2.50	1.64	139
320	480	121	108	5	1.5	1 800	2 700	142	480	640	**46264**	342	452	6.5	4	1.5	0.32	2.12	3.15	2.07	71.6
	480	151	121	5	1.5	2 060	3 410	171	470	630	**46264A**	342	454	15	4	1.5	0.32	2.12	3.15	2.07	87.7
	540	176	157	6	2	2 880	4 570	228	420	560	**46364**	348	502	9.5	5	2	0.35	1.95	2.90	1.91	154
	540	220	176	6	2	3 280	5 390	264	430	570	**46364A**	348	497	22	5	2	0.35	1.95	2.90	1.91	190
340	520	133	118	6	2	1 940	3 070	157	420	570	**46268**	368	489	7.5	5	2	0.32	2.12	3.15	2.07	95.3
	520	165	133	6	2	2 420	4 060	203	420	560	**46268A**	368	491	16	5	2	0.32	2.12	3.15	2.07	117
	580	190	169	6	2	2 980	4 620	227	380	510	**46368**	368	539	10.5	5	2	0.35	1.95	2.90	1.91	198
	580	238	190	6	2	3 820	6 340	303	370	500	**46368A**	368	543	24	5	2	0.35	1.95	2.90	1.91	244
360	540	134	120	6	2	2 070	3 290	166	400	530	**46272**	388	510	7	5	2	0.32	2.12	3.15	2.07	93.0
	540	169	134	6	2	2 530	4 230	210	390	530	**46272A**	388	512	17.5	5	2	0.32	2.12	3.15	2.07	124
	600	192	171	6	2	3 600	4 880	264	360	480	**46372**	388	557	10.5	5	2	0.35	1.95	2.90	1.91	206
	600	240	192	6	2	4 590	7 230	345	360	480	**46372A**	388	568	24	5	2	0.39	1.74	2.59	1.70	254
380	560	135	122	6	2	2 190	3 560	177	370	500	**46276**	408	530	6.5	5	2	0.32	2.12	3.15	2.07	100
	560	171	135	6	2	2 810	4 670	228	380	500	**46276A**	408	531	18	5	2	0.39	1.74	2.59	1.70	129
	620	194	173	6	2	3 380	5 220	250	340	450	**46376**	408	582	10.5	5	2	0.39	1.74	2.59	1.70	215
	620	243	194	6	2	4 390	7 360	342	330	440	**46376A**	408	587	24.5	5	2	0.35	1.95	2.90	1.91	265
400	600	148	132	6	2	2 350	3 720	183	340	460	**46280**	428	560	8	5	2	0.32	2.12	3.15	2.07	135
	600	185	148	6	2	3 030	5 150	245	340	460	**46280A**	428	563	18.5	5	2	0.32	2.12	3.15	2.07	167
	650	200	178	6	3	3 740	5 920	283	320	420	**46380**	428	605	11	5	2.5	0.35	1.95	2.90	1.91	243
	650	250	200	6	3	5 110	8 850	406	310	420	**46380A**	428	610	25	5	2.5	0.35	1.95	2.90	1.91	306
420	620	150	134	6	2	2 520	4 130	200	320	420	**46284**	448	590	8	5	2	0.33	2.03	3.02	1.98	142
	620	188	150	6	2	3 390	5 660	267	320	430	**46284A**	448	589	19	5	2	0.39	1.74	2.59	1.70	176
	700	224	200	6	3	4 650	6 880	324	290	380	**46384**	448	656	12	5	2.5	0.39	1.74	2.59	1.70	325
	700	280	224	6	3	6 040	9 620	430	290	380	**46384A**	448	659	28	5	2.5	0.39	1.74	2.59	1.70	400

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

Double-row tapered roller bearings
TDO type
d 440 ~ 500 mm

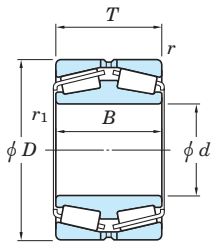


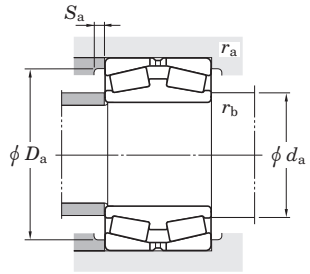


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)					Con-stant	Axial load factors			(Refer.) Mass
d	D	T	C	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a min.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	(kg)
440	650	157	140	6	3	2 840	4 430	212	300	390	**46288**	468	622	8.5	5	2.5	0.33	2.03	3.02	1.98	156
	650	196	157	6	3	3 770	6 370	300	300	400	**46288A**	468	620	19.5	5	2.5	0.39	1.74	2.59	1.70	198
	720	226	201	6	3	4 950	8 110	372	270	360	**46388**	468	676	12.5	5	2.5	0.39	1.74	2.59	1.70	354
	720	283	226	6	3	6 210	10 100	447	270	360	**46388A**	468	679	28.5	5	2.5	0.40	1.68	2.51	1.65	418
460	680	163	145	6	3	3 130	5 340	253	280	370	**46292**	488	637	9	5	2.5	0.37	1.83	2.72	1.78	196
	680	204	163	6	3	4 040	6 850	317	280	370	**46292A**	488	646	20.5	5	2.5	0.39	1.74	2.59	1.70	232
	760	240	214	7.5	4	5 460	9 000	408	250	330	**46392**	496	710	13	6	3	0.39	1.74	2.59	1.70	424
	760	300	240	7.5	4	7 130	11 600	504	250	330	**46392A**	496	718	30	6	3	0.39	1.74	2.59	1.70	506
480	700	165	147	6	3	3 180	5 300	247	260	340	**46296**	508	672	9	5	2.5	0.33	2.03	3.02	1.98	186
	700	206	165	6	3	4 040	7 230	333	260	340	**46296A**	508	666	20.5	5	2.5	0.33	2.03	3.02	1.98	240
	790	248	221	7.5	4	5 820	8 920	405	230	310	**46396**	516	742	13.5	6	3	0.39	1.74	2.59	1.70	457
	790	310	248	7.5	4	7 530	12 400	528	230	310	**46396A**	516	749	31	6	3	0.39	1.74	2.59	1.70	560
500	720	167	149	6	3	3 230	5 690	265	250	330	**462/500**	528	679	9	5	2.5	0.40	1.71	2.54	1.67	210
	720	209	167	6	3	4 390	7 850	356	250	330	**462/500A**	528	690	21	5	2.5	0.42	1.62	2.41	1.58	258
	830	264	235	7.5	4	6 570	10 900	477	210	280	**463/500**	536	776	14.5	6	3	0.39	1.74	2.59	1.70	559
	830	330	264	7.5	4	8 510	14 000	586	210	280	**463/500A**	536	784	33	6	3	0.39	1.74	2.59	1.70	669

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

Double-row tapered roller bearings
TDI type
d 100 ~ (220) mm

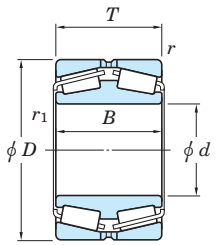


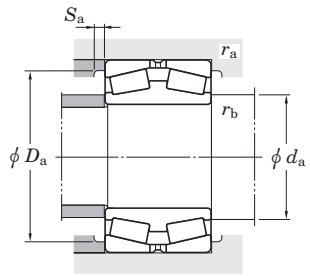


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass
d	D	B	T	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a max.	D_a max.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	(kg)
100	165	52	52	2	2.5	298	384	28.0	1 800	2 300	**45320**	119	155	148	3.9	2	2	0.35	1.95	2.90	1.91	4.26
110	180	56	56	2	2.5	378	505	36.1	1 600	2 100	**45322**	128	170	160	4	2	2	0.35	1.95	2.90	1.91	5.40
120	180	46	46	2	2.5	286	424	29.7	1 500	2 100	**45224**	138	170	163	4	2	2	0.26	2.55	3.80	2.50	4.08
	200	62	62	2	2.5	444	598	41.7	1 400	1 900	**45324**	142	190	178	4	2	2	0.35	1.95	2.90	1.91	7.92
130	200	52	52	2	2.5	376	548	37.8	1 400	1 800	**45226**	152	190	179	4	2	2	0.27	2.47	3.67	2.41	5.96
	210	64	64	2	2.5	476	657	45.2	1 300	1 800	**45326**	153	200	185	4	2	2	0.36	1.87	2.79	1.83	8.41
140	210	53	53	2	2.5	390	564	38.5	1 300	1 800	**45228**	159	200	188	4	2	2	0.27	2.47	3.67	2.41	6.45
	225	68	68	2.5	3	611	807	51.3	1 200	1 700	**45328**	160	213	210	4	2	2.5	0.40	1.68	2.50	1.64	10.0
150	225	56	56	2.5	3	445	686	45.8	1 200	1 600	**45230**	174	213	203	4	2	2.5	0.26	2.55	3.80	2.50	7.87
	250	80	80	2.5	3	684	955	59.8	1 100	1 500	**45330**	179	238	220	4	2	2.5	0.35	1.95	2.90	1.91	15.5
160	240	60	60	2.5	3	488	705	46.6	1 100	1 500	**45232**	184	228	217	5	2	2.5	0.24	2.79	4.15	2.73	9.22
	270	86	86	2.5	3	832	1 100	73.2	1 000	1 400	**45332**	193	258	237	4	2	2.5	0.35	1.95	2.90	1.91	19.8
170	260	67	67	2.5	3	654	956	62.1	1 000	1 400	**45234**	195	248	233	5	2	2.5	0.31	2.21	3.29	2.16	12.4
	280	88	88	2.5	3	834	1 210	72.7	970	1 300	**45334**	201	268	247	5	2	2.5	0.33	2.03	3.02	1.98	21.6
180	280	74	74	2.5	3	722	1 050	62.5	950	1 300	**45236**	208	268	250	5	2	2.5	0.28	2.43	3.61	2.37	16.8
	300	96	96	3	4	992	1 370	81.2	910	1 200	**45336**	210	286	263	5	2.5	3	0.35	1.95	2.90	1.91	26.5
190	290	75	75	2.5	3	751	1 130	66.3	900	1 200	**45238**	219	278	260	5	2	2.5	0.26	2.55	3.80	2.50	17.7
	320	104	104	3	4	1 130	1 590	91.3	840	1 100	**45338**	224	306	280	5	2.5	3	0.35	1.95	2.90	1.91	34.0
200	310	82	82	2.5	3	913	1 410	83.1	830	1 100	**45240**	234	298	280	5	2	2.5	0.26	2.55	3.80	2.50	22.9
	340	112	112	3	4	1 250	1 840	104	770	1 000	**45340**	244	326	300	5	2.5	3	0.35	1.95	2.90	1.91	41.9
220	340	90	90	3	4	933	1 460	83.4	740	990	**45244**	259	326	306	5	2.5	3	0.28	2.43	3.61	2.37	28.5

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

Double-row tapered roller bearings
TDI type
d (220) ~ (420) mm

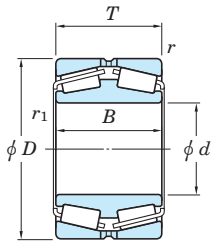


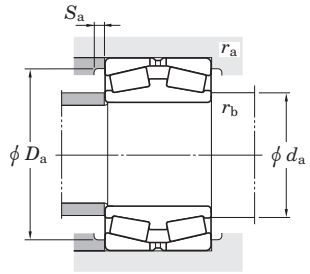


Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)						Constant	Axial load factors			(Refer.) Mass
d	D	B	T	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a max.	D_a max.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	(kg)
220	370	120	120	4	5	1 400	2 060	113	700	930	**45344**	263	352	324	5	3	4	0.35	1.95	2.90	1.91	50.8
230	350	90	90	3	4	991	1 560	88.6	710	950	**45246**	267	336	318	6	2.5	3	0.28	2.43	3.61	2.37	30.6
240	360	92	92	3	4	1 150	1 790	99.8	690	920	**45248**	271	346	325	5	2.5	3	0.32	2.12	3.15	2.07	32.2
	400	128	128	4	5	1 650	2 470	133	630	840	**45348**	286	382	354	5	3	4	0.35	1.95	2.90	1.91	65.4
260	400	104	104	4	5	1 320	2 120	113	610	810	**45252**	302	382	360	6	3	4	0.25	2.74	4.08	2.68	48.1
	440	144	144	4	5	2 180	3 440	179	560	750	**45352**	313	422	386	6	3	4	0.35	1.95	2.90	1.91	92.2
280	420	106	106	4	5	1 490	2 470	133	560	750	**45256**	321	402	370	6	3	4	0.25	2.69	4.00	2.63	51.9
	460	146	146	5	6	2 310	3 320	175	520	700	**45356**	323	438	409	6	4	5	0.39	1.74	2.59	1.70	93.1
300	460	118	118	4	5	1 870	3 150	162	500	670	**45260**	350	442	418	6	3	4	0.25	2.74	4.08	2.68	78.5
	500	160	160	5	6	2 670	4 240	216	470	630	**45360**	356	478	440	6	4	5	0.35	1.95	2.90	1.91	129
320	480	121	121	4	5	1 830	3 180	161	470	630	**45264**	368	462	434	6	3	4	0.26	2.55	3.80	2.50	77.8
	540	176	176	5	6	3 380	5 280	264	430	570	**45364R**	378	518	474	6	4	5	0.32	2.12	3.15	2.07	167
340	520	133	133	5	6	2 380	3 850	186	420	570	**45268**	398	498	464	6	4	5	0.26	2.55	3.80	2.50	104
	580	190	190	5	6	3 790	5 470	269	390	510	**45368**	401	558	515	6	4	5	0.32	2.12	3.15	2.07	202
360	540	134	134	5	6	2 370	3 910	196	400	540	**45272**	408	518	488	11	4	5	0.32	2.12	3.15	2.07	101
	600	192	192	5	6	4 230	6 750	324	360	490	**45372**	419	578	528	10	4	5	0.32	2.12	3.15	2.07	228
380	560	135	135	5	6	2 300	3 790	185	380	500	**45276**	428	538	510	6	4	5	0.27	2.47	3.67	2.41	112
	620	194	194	5	6	3 860	6 360	303	340	450	**45376**	445	598	545	6	4	5	0.32	2.12	3.15	2.07	234
400	600	148	148	5	6	3 020	4 960	239	340	450	**45280**	452	578	545	6	4	5	0.33	2.03	3.02	1.98	143
	650	200	200	6	6	4 840	7 810	368	320	420	**45380**	458	622	580	11	5	5	0.39	1.74	2.59	1.70	265
420	620	150	150	5	6	3 010	5 200	248	320	430	**45284**	475	598	564	6	4	5	0.33	2.03	3.02	1.98	152

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".

Double-row tapered roller bearings
TDI type
d (420) ~ 500 mm





Boundary dimensions (mm)						Basic load ratings (kN)		Fatigue load limit (kN)	Limiting speeds (min^{-1})		Bearing No.	Mounting dimensions (mm)						Con-stant	Axial load factors			(Refer.) Mass (kg)
d	D	B	T	r min.	r_1 min.	C_r	C_{0r}	C_u	Grease lub.	Oil lub.		d_a max.	D_a max.	D_a min.	S_a min.	r_a max.	r_b max.	e	Y_2	Y_3	Y_0	
420	700	224	224	6	6	5 430	8 380	389	280	380	**45384**	488	672	623	7	5	5	0.39	1.74	2.59	1.70	352
440	650	157	157	6	6	3 190	5 500	256	300	390	**45288**	500	622	592	10	5	5	0.28	2.43	3.61	2.37	182
	720	226	226	6	6	5 750	9 130	417	270	360	**45388**	506	692	642	7	5	5	0.39	1.74	2.59	1.70	367
460	680	163	163	6	6	3 480	5 660	265	280	370	**45292**	510	652	616	6	5	5	0.39	1.74	2.59	1.70	197
	760	240	240	7.5	7.5	6 570	10 400	463	250	330	**45392**	532	724	677	7	6	6	0.39	1.74	2.59	1.70	444
480	700	165	165	6	6	3 830	6 710	307	260	350	**45296**	531	672	625	6	5	5	0.40	1.68	2.50	1.64	215
500	720	167	167	6	6	4 300	7 350	340	250	330	**452/500**	545	692	645	8	5	5	0.39	1.74	2.59	1.70	222
	830	264	264	7.5	7.5	7 970	12 300	555	210	280	**453/500**	587	794	729	7	6	6	0.33	2.03	3.02	1.98	586

[Remark] Bearings not shown above (e.g. inch series) are shown in catalog "large size ball & roller bearings".