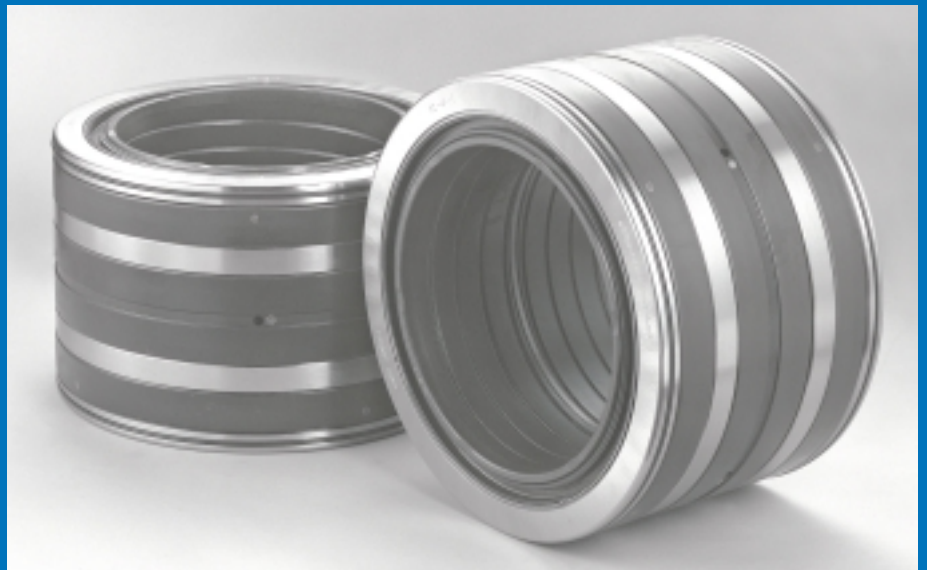
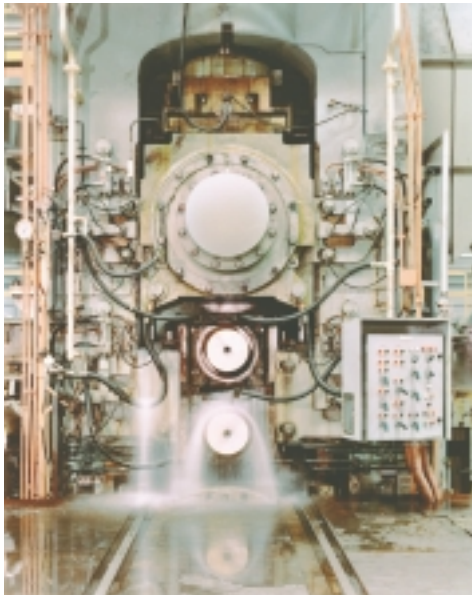


Koyo®

SEALED TYPE FOUR ROW TAPERED ROLLER BEARINGS FOR ROLL NECK

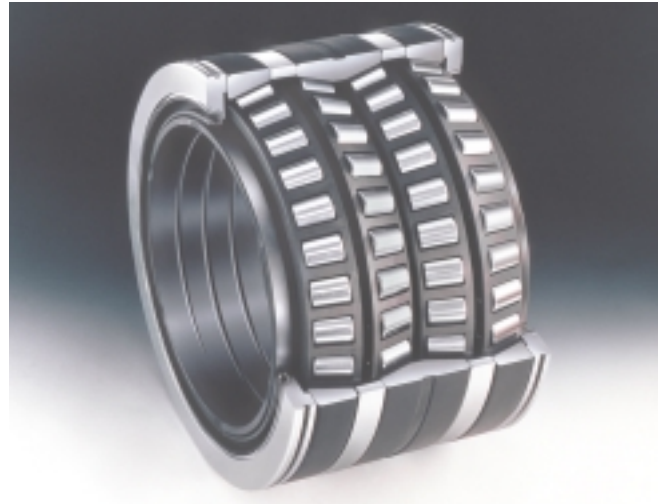


Koyo® SEALED TYPE FOUR ROW TAPERED ROLLER BEARINGS FOR ROLL NECK

1. NEW GENERATION ROLL NECK BEARINGS

Sealed type four row tapered roller bearing offers you;

- Extension of bearing life by protection from water, scales, or corrosion
- Extension of maintenance free interval
- Increase of rolling efficiency by stable operation
- Keeping of rolling accuracy by stable operation
- Cost saving



2. FEATURES

1. EXTENSION OF BEARING LIFE

Most of bearing failures are caused by entry of water, scales, corrosion or grease leakage. Bearing itself should protect by applying seals and O rings on bearing both sides.

Koyo sealed type tapered roller bearing has higher reliable seals extend it's life.

2. EXTENSION OF MAINTENANCE FREE INTERVAL

Conventional open type tapered roller bearings for roll neck application requires often maintenance inspection and over haul in a short time interval

to keep safety operation under heavy condition.

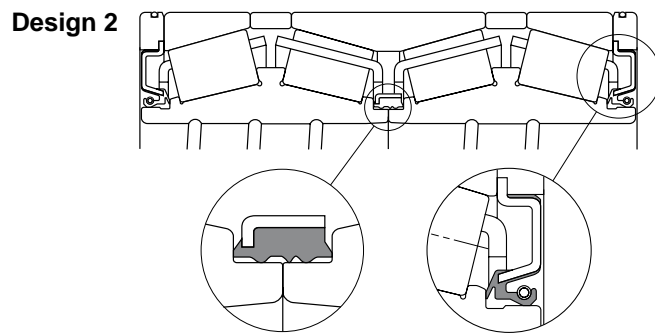
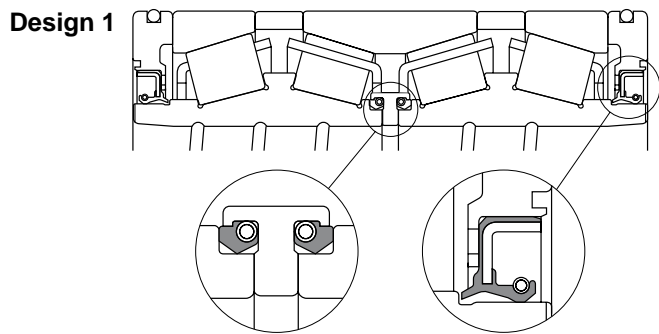
Koyo sealed type tapered roller bearing can extend maintenance free interval to every 6 month, which contributes cost reduction of labour and others.

3. REDUCTION OF GREASE CONSUMPTION

Long maintenance free interval can save grease consumption.

3. DESIGN AND COMPONENTS

1. Design



2. Components

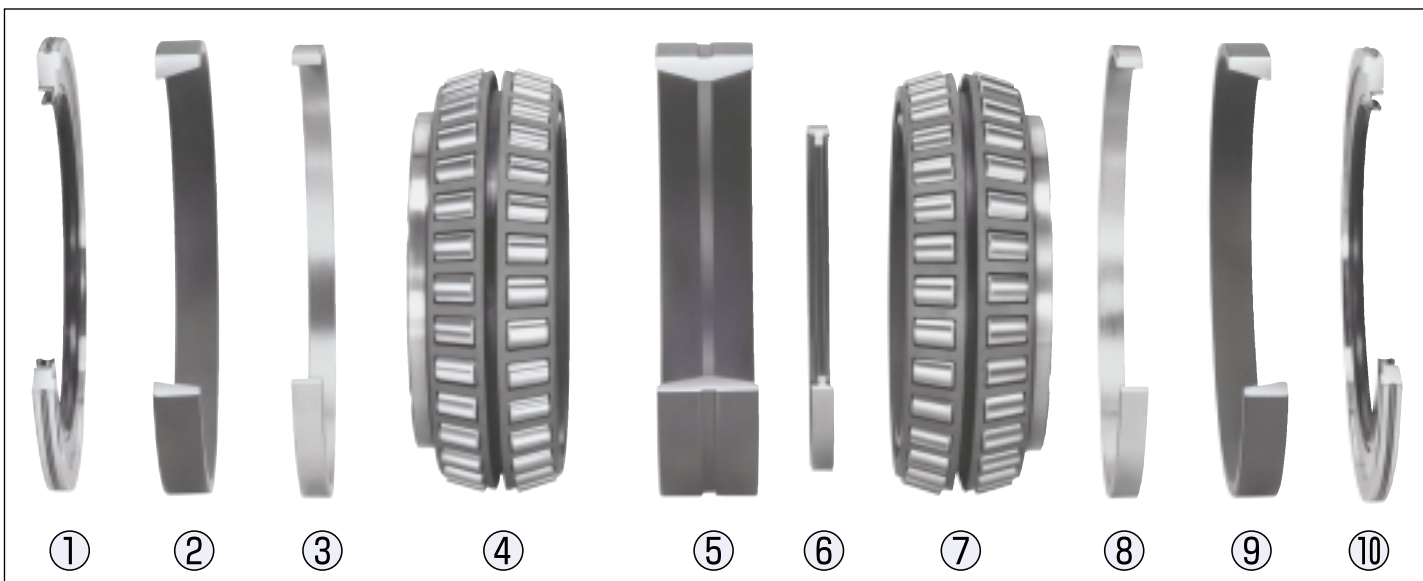
A) SEAL COVER WITH SEAL AND O RING

Lips seal with integrated spring and O ring can prevent entry of water and grease leakage completely.



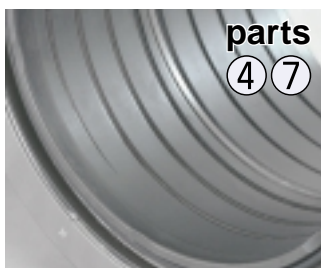
B) CONE SPACER AND SEAL

Special designed and spring in mold type spacer seal can prevent entry of water from roll neck.



C) SPIRAL GROOVE ON CONE BORE

Closed spiral groove on cone bore can retain enough grease between bearing bore and roll neck to prevent scuffing or heat up trouble.

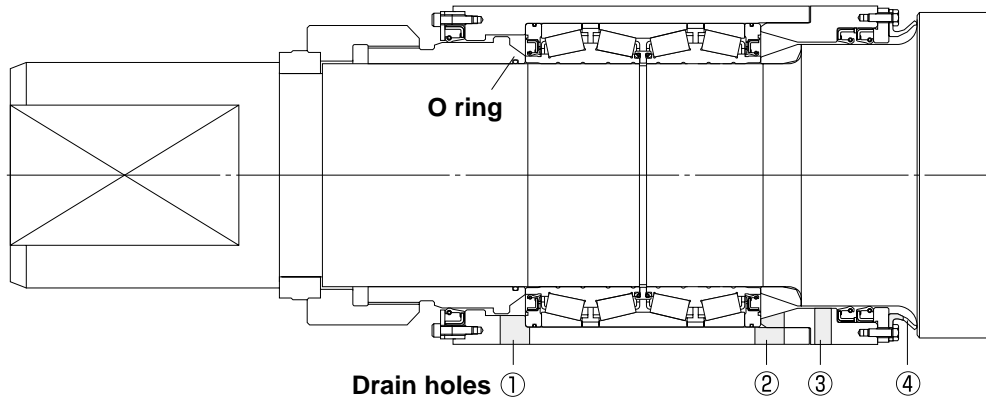


Parts Name

- ① ⑩ Seal cover (with seal and O ring)
- ② ⑨ Cup
- ③ ⑧ Cup spacer
- ④ ⑦ Double cone assembly
- ⑤ Double cup
- ⑥ Cone spacer (with seals)

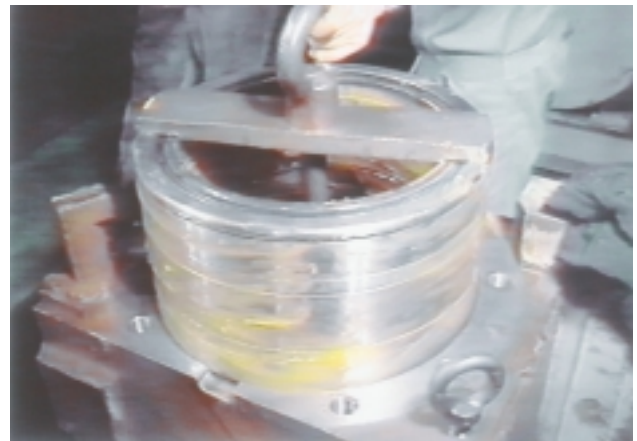
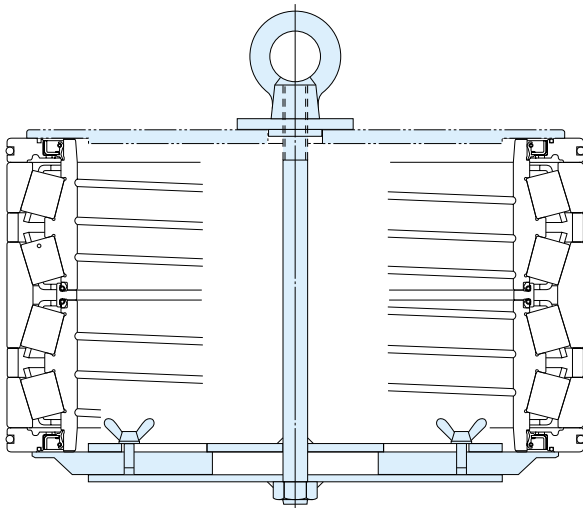
4. RECOMMENDATIONS

- A) Please provide drain holes at bottom of each chock and O ring at bore of thread ring.



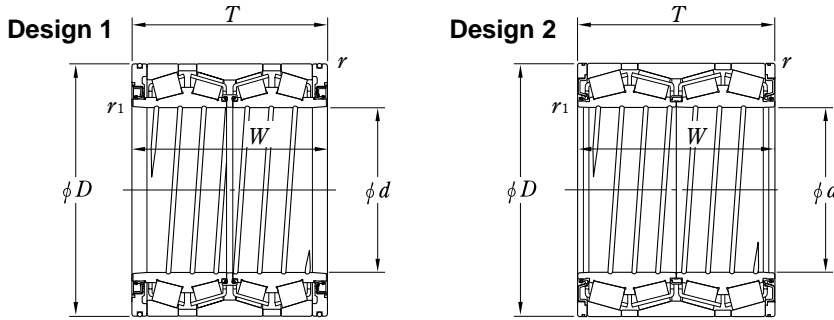
- B) Please use special tool to handle the bearing as an unit at installation into or draw out from chock to avoid damage.

Other handling methods are exactly same as handling of conventional bearings.



Koyo recommendable special tool for mounting and dismounting

5. BEARING DIMENSION TABLES



● Dynamic equivalent radial load

$$\left(\text{when } \frac{F_a}{F_r} \leq e \right) P_r = F_r + Y_2 F_a$$

$$\left(\text{when } \frac{F_a}{F_r} > e \right) P_r = 0.67 F_r + Y_3 F_a$$

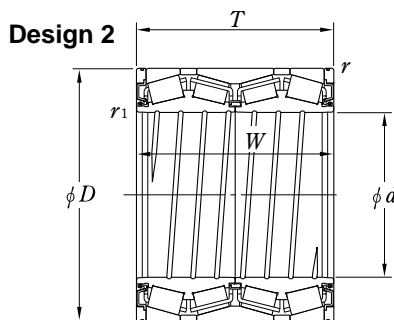
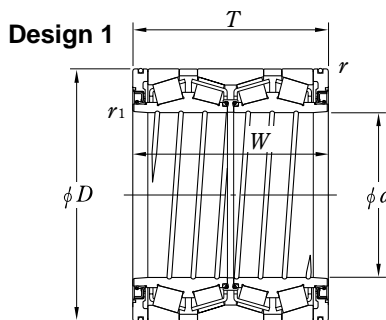
● Static equivalent radial load

$$P_{0r} = F_r + Y_0 F_a$$

$$\text{where } Y_0 \cong Y_2$$

Boundary dimensions (mm)						Basic load ratings		Bearing No.	Design	Axial load factors		Constant <i>e</i>	Refer Mass(kg)
<i>d</i>	<i>D</i>	<i>T</i>	<i>W</i>	<i>r</i> min.	<i>r</i> 1 min.	<i>C</i> _r (kN)	<i>Cor</i> (kN)			<i>Y</i> ₂	<i>Y</i> ₃		
75	120	120	150	2	1	424	764	47TS151215	1	2.03	3.02	0.33	6.4
	135	180	187	1.5	1.5	455	776	47TS151418	1	0.78	1.16	0.87	10.7
140	198	174	174	4	1	803	1630	47TS282017	1	1.43	2.12	0.47	16.3
150	210	240	240	1.5	0.5	993	2270	47TS302124	1	1.74	2.59	0.39	23.5
170	240	175	175	2.5	1.5	980	1990	47TS342418	1	2.55	3.8	0.26	23.9
	250	230	230	2.5	1.5	1370	2860	47TS342523	1	2.55	3.8	0.26	37.7
190.5	266.7	188.913	187.325	3.2	1	1060	2270	47TS382719A	1	1.47	2.19	0.46	27.6
195	270	250	250	2.5	1	1420	3550	47TS392725	1	1.68	2.5	0.4	43.6
200	300	300	300	4	1.6	2260	4900	47TS403030	1	2.55	3.8	0.26	73.5
203.2	317.5	266.7	266.7	5	1.6	2060	4010	47TS413227	1	1.68	2.5	0.4	76.8
206.375	282.575	190.5	190.5	3.2	1	1100	2240	47TS412819	1	1.33	1.97	0.51	27.1
	282.575	240	240	3	1	1450	3380	47TS412824	1	1.57	2.34	0.43	39.6
215.9	288.925	177.8	177.8	3.2	1	1060	2350	47TS432918	1	1.68	2.5	0.4	30.6
220	320	290	290	3	2	2200	4700	47TS443229B	1	1.74	2.59	0.39	73.9
	330	260	260	5	2.5	2100	4220	47TS443326	1	1.68	2.5	0.4	79.5
220.663	314.325	239.713	239.713	3.2	3	1680	3410	47TS443124	1	2.03	3.02	0.33	51.9
	314.325	330	330	3.2	3	2360	5650	47TS443133	1	2.55	3.8	0.26	79.2
225	320	230	230	3	1.5	1630	3350	47TS453223	1	1.43	2.12	0.47	56.9
234.95	327.025	196.85	196.85	3.2	1	1490	3310	47TS473320A	2	1.68	2.5	0.4	48.1
240	320	294	294	4	1	1880	4760	47TS483229	1	2.03	3.02	0.33	63.6
	338	248	248	3	1.5	1890	4120	47TS483425B	1	1.43	2.12	0.47	66
	338	290	290	3	1	2360	5360	47TS483429	1	1.74	2.59	0.39	78
	338	320	320	3	1	2430	5890	47TS483432	1	2.43	3.61	0.28	87.3
	338	340	340	3	1	2450	5930	47TS483434A	1	0.67	2.5	0.4	91.8
241.148	349.148	228.6	228.6	3.2	1.6	1800	3720	47TS483523	1	1.91	2.84	0.35	70
244.475	327.025	193.675	193.675	5	1.5	1280	2790	47TS493319	1	2.03	3.02	0.33	41.5
	381	304.8	304.8	5	1.6	2700	5240	47TS493830	1	1.43	2.12	0.47	124
245	345	310	310	3	1.5	2520	6020	47TS493531-1	1	1.68	2.5	0.4	89.9
250	365	270	270	3	1.5	2260	4730	47TS503727A-1	1	1.68	2.5	0.4	94.2
254	358.775	269.875	269.875	3.2	1.6	2130	4760	47TS513627A	1	1.24	1.84	0.55	82
	358.775	269.875	269.875	3.2	1.5	2520	6010	47TS513627B	2	1.68	2.5	0.4	85
260	365	340	340	3.5	1.6	2800	6530	47TS523734	1	1.68	2.5	0.4	110
	370	354	354	4	1.5	3100	7410	47TS523735	1	2.55	3.8	0.26	120
266.7	355.6	228.6	230.188	3.2	1.6	1940	4880	47TS533623B	2	1.87	2.79	0.36	60
275	385	340	340	3	1.5	2970	7400	47TS553934	1	1.68	2.5	0.4	121
276.225	393.7	269.875	269.875	3.2	1.6	2350	5040	47TS553927	1	1.43	2.12	0.47	100
279.4	393.7	269.875	269.875	3.2	1.6	2350	5040	47TS563927	1	1.43	2.12	0.47	97
	393.7	320	320	3.2	1.5	2880	6900	47TS563932	1	1.68	2.5	0.4	124
280	380	290	290	2.7	1	2540	6080	47TS563829	1	2.03	3.02	0.33	90
	395	290	290	3	2.5	2640	5940	47TS564029	1	1.68	2.5	0.4	110
	395	340	340	3	1.5	2960	7110	47TS564034A	1	1.68	2.5	0.4	130
	410	268	268	5.4	1.6	2240	4510	47TS564127	1	2.03	3.02	0.33	118
	412	340	340	4	2	3350	7220	47TS564134	1	2.43	3.61	0.28	154
	430	350	350	3.5	1.5	3940	8190	47TS564335	1	1.68	2.5	0.4	178

5. BEARING DIMENSION TABLES



● **Dynamic equivalent radial load**

$$\left(\text{when } \frac{F_a}{F_r} \leq e \right) P_r = F_r + Y_2 F_a$$

$$\left(\text{when } \frac{F_a}{F_r} > e \right) P_r = 0.67 F_r + Y_3 F_a$$

● **Static equivalent radial load**

$$P_{0r} = F_r + Y_0 F_a$$

where, $Y_0 \cong Y_2$

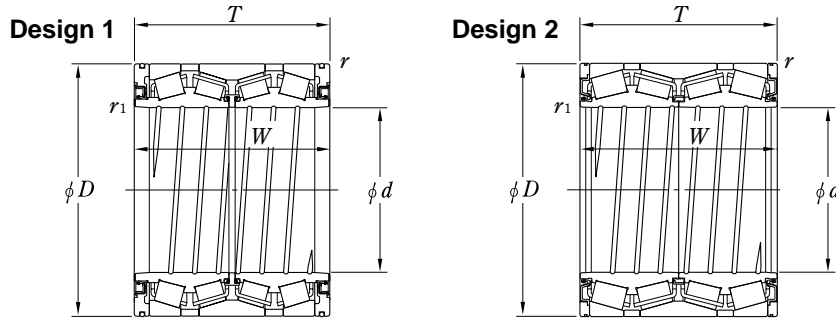
Boundary dimensions (mm)				Basic load ratings				Bearing No.	Design	Axial load factors		Constant e	Refer Mass(kg)
d	D	T	W	r min.	r_1 min.	C_r (kN)	C_{or} (kN)			Y_2	Y_3		
285	400	340	340	3	1.5	3190	7610	47TS574034	1	1.68	2.5	0.4	131
285.75	380.898	244.475	244.475	3.2	1	2000	4600	47TS573824A	1	1.57	2.34	0.43	73.2
290	400	346	346	4	1.5	3070	7860	47TS584035	1	1.68	2.5	0.4	128
	400	420	420	4	1.5	3070	7860	47TS584042	1	1.68	2.5	0.4	155
	420	380	380	3	1.2	3640	8260	47TS584238	1	1.68	2.5	0.4	175
	450	415	415	4	1.5	4460	9460	47TS584542	1	1.43	2.12	0.47	238
300	400	254	254	4	5	2220	5300	47TS604025	1	2.43	3.61	0.28	84.6
	420	310	310	4	3.5	2890	6670	47TS604231	1	1.68	2.5	0.4	128
304.648	438.048	279.4	280.99	4	1.6	2570	5380	47TS614428B	1	1.44	2.15	0.47	135
	438.048	279.4	280.99	3.2	1.6	3140	6860	47TS614428C	2	1.68	2.5	0.4	135
304.8	419.1	269.875	269.875	6.4	2	2490	5420	47TS614227	1	2.03	3.02	0.33	100
	501.65	336.55	336.55	4	4	4280	8570	47TS615034	1-P	2.03	3.02	0.33	264
304.902	412.648	266.7	266.7	5	2	2040	4810	47TS614127	1	1.58	2.35	0.43	96.6
	412.648	266.7	266.7	3.2	0.8	2750	6820	47TS614127D	2	1.74	2.59	0.39	99.5
310	430	310	310	3	1	3010	6880	47TS624331	1	1.68	2.5	0.4	131
	430	350	350	3.5	1.5	3280	7870	47TS624335A	1	1.68	2.5	0.4	153
	457.098	390	390	4	1.5	4200	9500	47TS624639	1	2.12	3.15	0.32	220
317.5	447.675	367	367	4	1.6	3680	8500	47TS644537-1	1	1.68	2.5	0.4	190
320	440	335	335	4	1	3140	7330	47TS644434	1	1.68	2.5	0.4	146
	480	360	360	4	1.5	4210	8800	47TS644836B	1-P	1.43	2.12	0.47	220
	480	420	420	4	1.5	5470	12100	47TS644842	1-P	2.55	3.8	0.26	262
330.302	438.028	254	247.65	3.2	1.6	2190	4960	47TS664425	1	1.47	2.19	0.46	95.8
335	460	342.9	342.9	3.3	1.5	3740	9290	47TS674634A	1	1.68	2.5	0.4	167
342.875	488.9	410	410	4	2	4620	11600	47TS684941	1	2.023		0.33	233
	560	500	500	5	2.5	7210	15000	47TS685650	1-P	2.03	3.02	0.33	495
343.052	457.098	254	254	3.2	0.8	2870	7030	47TS694625D	2	1.68	2.5	0.4	110
	457.098	299	299	3.2	1.5	3070	7760	47TS694630A	1	1.68	2.5	0.4	133
346.075	488.95	358.775	358.775	4	2	3780	8310	47TS694936	1	2.03	3.02	0.33	210
355	490	316	316	2	1.6	3540	7920	47TS714932	1	2.03	3.02	0.33	169
355.6	482.6	269.875	265.112	3.2	1.5	2680	6090	47TS714827	1-P	1.43	2.12	0.47	134
360	480	375	375	3	1	4120	10600	47TS724838A	1	1.68	2.5	0.4	181
374.65	501.65	260.35	250.825	3.2	1.6	3120	7470	47TS755026A	2	2.03	3.02	0.33	136
395	545	360	360	6	1.6	3790	8930	47TS795536A	1	1.43	2.12	0.47	242
406.4	546.1	288.925	288.925	6.4	1	3620	8190	47TS815529D	2-P	1.43	2.12	0.47	195
	546.1	330	330	4	1.5	3680	9390	47TS815533	2-P	1.42	2.11	0.48	211
	546.1	330	330	4	1.5	4310	10500	47TS815533A	2-P	1.57	2.34	0.43	204
	546.1	357.4	357.4	3.2	1.6	3960	9540	47TS815536A	1	1.43	2.12	0.47	220

Notes : Design numbers indicate the following meanings.

with P..... pin type cages

without P...pressed cages

5. BEARING DIMENSION TABLES



● Dynamic equivalent radial load

$$\left(\text{when } \frac{F_a}{F_r} \leq e \right) P_r = F_r + Y_2 F_a$$

$$\left(\text{when } \frac{F_a}{F_r} > e \right) P_r = 0.67 F_r + Y_3 F_a$$

● Static equivalent radial load

$$P_{0r} = F_r + Y_0 F_a$$

$$\text{where } Y_0 \cong Y_2$$

Boundary dimensions (mm)						Basic load ratings		Bearing No.	Design	Axial load factors		Constant <i>e</i>	Refer Mass(kg)
<i>d</i>	<i>D</i>	<i>T</i>	<i>W</i>	<i>r</i> min.	<i>r</i> ₁ min.	<i>C</i> _r (kN)	<i>C</i> _{or} (kN)			<i>Y</i> ₂	<i>Y</i> ₃		
410	546	400	400	4	1.5	4630	12000	47TS825540	1	2.55	3.8	0.26	255
415.925	590.55	434.975	434.975	4	1.5	6390	15600	47TS835944A	2-P	1.68	2.5	0.4	368
420	560	437	437	4	3	5620	14900	47TS845644	1	2.55	3.8	0.26	298
	574	480	480	3	1.6	6730	17800	47TS845748	1-P	2.43	3.61	0.28	352
	620	395	395	5	5	5160	11600	47TS846240	1-P	1.43	2.12	0.47	390
431.8	571.5	336.55	336.55	3.2	1.5	4440	11600	47TS865734A	2	1.68	2.5	0.4	229
440	590	480	480	4	1.5	6870	18700	47TS885948A	1-P	2.55	3.8	0.26	362
	620	454	454	4	1.5	6580	16100	47TS886245	1-P	2.03	3.02	0.33	367
	635	470	470	5	2	6870	15700	47TS886447	1	2.03	3.02	0.33	436
450	595	420	420	5	1.5	6110	16300	47TS906042	1-P	2.55	3.8	0.26	308
457.2	596.9	279.4	276.225	3.2	1.6	3760	9520	47TS916028C	2-P	1.43	2.12	0.47	191
	596.9	279.4	276.225	3.2	1.6	3300	8180	47TS916028D	2-P	0.97	1.44	0.7	187
460	620	470	470	4	1.5	7060	19300	47TS926247	1-P	2.55	3.8	0.26	412
479.425	679.45	495.3	495.3	6.4	2	8030	19600	47TS966850	1-P	2.03	3.02	0.33	562
480	700	470	470	5	1.5	8080	18800	47TS967047	1-P	2.12	3.15	0.32	621
482.6	615.95	330.2	330.2	6.4	1.6	4310	11700	4TRS19B	1-P	1.54	2.3	0.44	240
	615.95	330.2	330.2	3.2	1.6	4360	11800	4TRS19C	2	1.68	2.5	0.4	229
	615.95	330.2	330.2	3.2	1.6	4510	12400	4TRS19D	2-P	1.68	2.5	0.4	239
	615.95	385	385	6.4	1.6	5270	15000	47TS976239	1-P	2.03	3.02	0.33	278
	615.95	420	420	6.4	1.6	5090	14500	47TS976242	1	2.03	3.02	0.33	302
	615.95	425	425	6.4	1.6	5090	14500	47TS976243	1	2.03	3.02	0.33	306
	647.7	417.512	417.512	6.4	1.6	6680	17400	47TS976542A	1-P	2.03	3.02	0.33	382
488.95	622.3	365.125	365.125	6.4	1.5	4320	12200	47TS986236	1	1.68	2.5	0.4	270
492	655	480	480	5	1.5	7450	21200	47TS986648	1-P	2.03	3.02	0.33	449
509.948	654.924	379	379	6.4	1.5	5370	15200	4TRS510B	1-P	1.64	2.44	0.41	320
530	715	590	590	5	1.5	10300	28900	4TRS530A	1-P	2.55	3.8	0.26	664
558.8	736.6	409.575	409.575	6	1.5	6850	18600	4TRS559C	1-P	1.95	2.9	0.35	475
	736.6	450	450	6	1.5	7180	19700	4TRS559A	1-P	1.95	2.9	0.35	507
	736.6	480	480	6	1.5	7960	22700	4TRS559B	1-P	1.68	2.5	0.4	547
	736.6	500	500	6	1.6	8220	23100	4TRS559	1-P	1.95	2.9	0.35	560
585.788	771.525	479.425	479.425	6.4	1.5	8730	24400	4TRS586A	1-P	2.03	3.02	0.33	613
595.312	844.55	615.95	615.95	6.4	3.6	12700	32200	4TRS595B	1-P	2.03	3.02	0.33	1120
600	870	700	700	5	4	15100	39400	4TRS600A	1-P	2.03	3.02	0.33	1370
609.6	787.4	361.95	361.95	6.4	3.2	5920	14900	4TRS610	1-P	1.68	2.5	0.4	430
	813.562	540	540	6.4	1.5	10200	28500	4TRS610A	1-P	2.03	3.02	0.33	775
679.45	901.7	552.45	552.45	6.4	3	11100	30600	4TRS679	1-P	2.03	3.02	0.33	951
685.8	876.3	355.6	352.425	6.4	3.2	6130	16300	4TRS686A	1-P	1.62	2.42	0.42	520
704.85	914.4	552.45	552.45	6.4	3.2	11300	33400	4TRS705	1-P	2.03	3.02	0.33	940
711.2	914.4	387.35	387.35	6.4	3.2	7160	19400	4TRS711A	1-P	1.78	2.65	0.38	615
	914.4	410	410	6.4	3.2	7610	20500	4TRS711	1-P	1.54	2.29	0.44	670
	914.4	420	420	6.4	3.2	7860	22200	4TRS711L	1-P	1.68	2.5	0.4	678
800	1130	780	780	6	1.5	21900	58800	4TRS800	1-P	2.55	3.8	0.26	2520

Notes : Design numbers indicate the following meanings.
 with P..... pin type cages
 without P...pressed cages

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