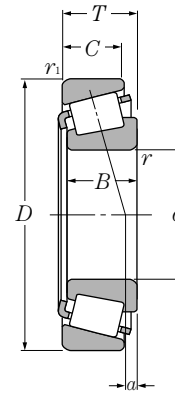


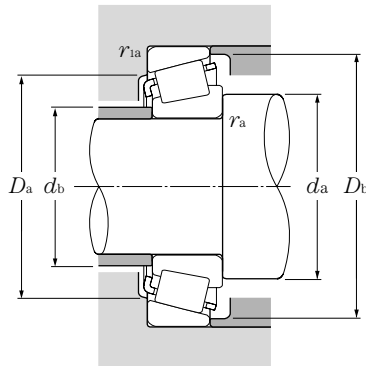
Inch system sizes
J system series



d 55.000 ~ 60.000mm

d	Boundary dimensions				Basic load ratings				Limiting speeds	
	D	T	B	C	dynamic kN	static kN	dynamic kgf	static kgf	grease rpm	oil rpm
55.000	95.000	29.000	29.000	23.500	107	144	10,900	14,700	3,800	5,100
	96.838	21.000	21.946	15.875	78.0	96.5	7,950	9,850	3,700	5,000
	110.000	39.000	39.000	32.000	173	219	17,600	22,400	3,500	4,600
55.562	97.630	24.608	24.608	19.446	88.5	128	9,000	13,000	3,700	4,900
	123.825	36.512	32.791	25.400	154	188	15,700	19,200	2,900	3,900
	127.000	36.512	36.512	26.988	163	228	16,600	23,300	2,900	3,800
55.575	96.838	21.000	21.946	15.875	78	96.5	7,950	9,850	3,700	5,000
57.150	96.838	21.000	21.946	15.875	78	96.5	7,950	9,850	3,700	5,000
	96.838	21.000	21.946	15.875	78	96.5	7,950	9,850	3,700	5,000
	96.838	21.000	21.946	15.875	78	96.5	7,950	9,850	3,700	5,000
	96.838	21.000	21.946	15.875	78	96.5	7,950	9,850	3,700	5,000
	97.630	24.608	24.608	19.446	88.5	128	9,000	13,000	3,700	4,900
	104.775	30.162	29.317	24.605	115	148	11,700	15,000	3,500	4,700
	104.775	30.162	29.317	24.605	115	148	11,700	15,000	3,500	4,700
	104.775	30.162	30.958	23.812	130	169	13,200	17,300	3,500	4,700
	107.950	27.783	29.317	22.225	115	148	11,700	15,000	3,500	4,700
	110.000	22.000	21.996	18.824	89.5	120	9,150	12,300	3,200	4,300
	110.000	27.795	29.317	27.000	115	148	11,700	15,000	3,500	4,700
	112.712	30.162	30.048	23.812	119	174	12,200	17,800	3,200	4,300
	112.712	30.162	30.162	23.812	138	195	14,100	19,800	3,200	4,200
	112.712	30.162	30.162	23.812	138	195	14,100	19,800	3,200	4,200
	117.475	30.162	30.162	23.812	117	175	11,900	17,900	3,000	4,000
117.475	33.338	31.750	23.812	130	153	13,200	15,600	3,300	4,400	
120.650	41.275	41.275	31.750	172	213	17,500	21,700	3,300	4,400	
123.825	36.512	32.791	25.400	154	188	15,700	19,200	2,900	3,900	
123.825	38.100	36.678	30.162	158	216	16,100	22,000	3,000	4,100	
140.030	36.512	33.236	23.520	171	212	17,400	21,600	2,600	3,400	
57.531	96.838	21.000	21.946	15.875	78.0	96.5	7,950	9,850	3,700	5,000
59.972	122.238	33.338	31.750	23.812	134	163	13,700	16,600	3,100	4,200
59.987	146.050	41.275	39.688	25.400	199	234	20,300	23,900	2,400	3,200
60.000	95.000	24.000	24.000	19.000	83.0	122	8,500	12,400	3,700	4,900
	107.950	25.400	25.400	19.050	91.5	140	9,350	14,200	3,200	4,300

Note: 1. With regard to the chamfer dimensions on the back face of the inner and outer rings, installation dimensions r_{is} and r_{os} are larger than the maximum value.
2. For the inner bore diameter of bearings with bearing numbers marked "+" (inner ring), this value applies only to high precision class types, Class 4 and 2.



Equivalent bearing load dynamic

$$P_r = XF_r + YF_a$$

$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
X	Y	X	Y
1	0	0.4	Y ₂

static

$$P_{or} = 0.5F_r + Y_0F_a$$

When $P_{or} < F_r$ use $P_{or} = F_r$

For values of e , Y_2 and Y_0 see the table below.

Bearing numbers	Abutment and fillet dimensions						Load center mm	Constant	Axial		Mass kg		
	mm								a	e		Y ₂	Y ₀
	d _a	d _b	D _a	D _b	r _{as} max	r _{1as} max							
#4T-JM207049/JM207010	64	62	85	91	1.5	2.5	7.6	0.33	1.79	0.99	0.82		
4T-385/382A	65	61	89	92	2.3	0.8	3.1	0.35	1.69	0.93	0.616		
#4T-JH307749/JH307710	71	64	97	104	3	2.5	11.7	0.35	1.73	0.95	1.71		
4T-28680/28622	68	62	88	92	3.5	0.8	3.3	0.40	1.49	0.82	0.774		
4T-72218C/72487	80	67	102	116	3.5	3.3	-1.5 ^①	0.74	0.81	0.45	1.99		
4T-HM813840/HM813810	76	70	111	121	3.5	3.3	3.7	0.50	1.20	0.66	2.34		
4T-389/382A	65	61	89	92	2.3	0.8	3.1	0.35	1.69	0.93	0.608		
4T-387/382A	66	62	89	92	2.3	0.8	3.1	0.35	1.69	0.93	0.583		
4T-387A/382A	69	62	89	92	3.5	0.8	3.1	0.35	1.69	0.93	0.581		
4T-387AS/382A	72	62	89	92	5	0.8	3.1	0.35	1.69	0.93	0.576		
4T-387S/382A	63	62	89	92	0.8	0.8	3.1	0.35	1.69	0.93	0.585		
4T-28682/28622	70	63	88	92	3.5	0.8	3.3	0.40	1.49	0.82	0.747		
4T-462/453X	67	63	92	98	2.3	3.3	7.1	0.34	1.79	0.98	1.06		
4T-469/453X	70	63	92	98	3.5	3.3	7.1	0.34	1.79	0.98	1.06		
4T-45289/45220	65	65	93	99	0.8	3.3	7.9	0.33	1.80	0.99	1.1		
4T-469/453A	70	63	97	100	3.5	0.8	7.1	0.34	1.79	0.98	1.11		
4T-390/394A	70	66	101	104	2.3	1.3	0.7	0.40	1.49	0.82	0.954		
4T-469/454	70	63	96	100	3.5	2	7.1	0.34	1.79	0.98	1.24		
4T-3979/3920	72	66	99	106	3.5	3.3	4.5	0.40	1.49	0.82	1.4		
4T-39580/39520	72	66	101	107	3.5	3.3	6.6	0.34	1.77	0.97	1.41		
4T-39581/39520	81	66	101	107	8	3.3	6.6	0.34	1.77	0.97	1.4		
4T-33225/33462	74	68	104	112	3.5	3.3	2.6	0.44	1.38	0.76	1.58		
4T-66225/66462	76	69	100	111	3.5	3.3	0.4	0.63	0.96	0.53	1.54		
4T-623/612	72	66	105	110	3.5	3.3	14.4	0.31	1.91	1.05	2.12		
4T-72225C/72487	81	67	102	116	3.5	3.3	-1.5 ^①	0.74	0.81	0.45	1.96		
4T-555S/552A	73	67	109	116	3.5	3.3	9.4	0.35	1.73	0.95	2.18		
4T-78225/78551	83	77	117	132	3.5	2.3	-8.5 ^①	0.87	0.69	0.38	2.69		
4T-388A/382A	69	63	89	92	3.5	0.8	3.1	0.35	1.69	0.93	0.575		
4T-66589/66520	74	73	105	116	0.8	3.3	-1.8 ^①	0.67	0.90	0.50	1.66		
4T-H913840†/H913810	88	82	124	138	3.5	3.3	-4.3 ^①	0.78	0.77	0.42	3.22		
#4T-JLM508748/JLM508710	75	66	85	91	5	2.5	3.0	0.40	1.49	0.82	0.606		
4T-29580/29520	75	68	96	103	3.5	3.3	0.6	0.46	1.31	0.72	0.992		

Note: 3. Bearing numbers marked " # " designate **J-series** bearings. The tolerances of these bearings is listed in **Table 6.6** on page **A-40**.

① " - " means that load center at outside on end of inner ring.