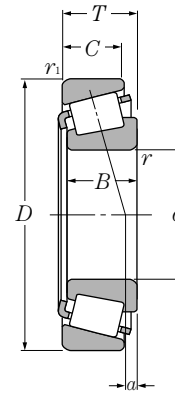


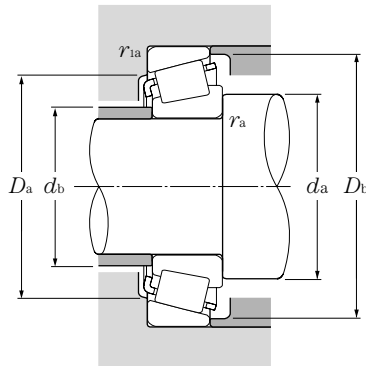
Inch system sizes J system series



d 47.625 ~ 50.800mm

d	Boundary dimensions				Basic load ratings				Limiting speeds	
	D	T	B	C	dynamic C _r	static C _{or}	dynamic C _r	static C _{or}	grease rpm	oil rpm
47.625	104.775	30.162	30.958	23.812	130	169	13,200	17,300	3,500	4,700
	111.125	30.162	26.909	20.638	104	136	10,600	13,900	3,200	4,200
	123.825	36.512	32.791	25.400	154	188	15,700	19,200	2,900	3,900
48.412	95.250	30.162	29.370	23.020	109	147	11,100	15,000	4,000	5,300
	95.250	30.162	29.370	23.020	109	147	11,100	15,000	4,000	5,300
49.212	93.264	30.162	30.302	23.812	102	134	10,400	13,700	4,000	5,300
	103.188	43.658	44.475	36.512	174	232	17,700	23,600	3,800	5,000
	104.775	36.512	36.512	28.575	138	189	14,000	19,300	3,600	4,800
	114.300	44.450	44.450	34.925	186	225	19,000	23,000	3,600	4,800
	114.300	44.450	44.450	36.068	203	261	20,700	26,600	3,500	4,700
49.987	82.550	21.590	22.225	16.510	69.5	94.0	7,100	9,600	4,300	5,700
	92.075	24.608	25.400	19.845	83.5	116	8,550	11,800	4,000	5,300
	114.300	44.450	44.450	36.068	203	261	20,700	26,600	3,500	4,700
50.000	82.000	21.500	21.500	17.000	69.5	94.0	7,100	9,600	4,300	5,700
	84.000	22.000	22.000	17.500	69.5	94.5	7,100	9,600	4,300	5,700
	88.900	20.638	22.225	16.513	76.5	90.5	7,800	9,250	4,100	5,500
	88.900	20.638	22.225	16.513	76.5	90.5	7,800	9,250	4,100	5,500
	90.000	28.000	28.000	23.000	106	141	10,800	14,400	4,100	5,400
	105.000	37.000	36.000	29.000	138	189	14,000	19,300	3,600	4,800
50.800	110.000	22.000	21.996	18.824	89.5	120	9,150	12,300	3,200	4,300
	82.550	21.590	22.225	16.510	69.5	94.0	7,100	9,600	4,300	5,700
	85.000	17.462	17.462	13.495	49.5	65.0	5,050	6,600	4,200	5,600
	88.900	17.462	17.462	13.495	49.5	65.0	5,050	6,600	4,200	5,600
	88.900	20.638	22.225	16.513	76.5	90.5	7,800	9,250	4,100	5,500
	88.900	20.638	22.225	16.513	76.5	90.5	7,800	9,250	4,100	5,500
	90.000	20.000	22.225	15.875	76.5	90.5	7,800	9,250	4,100	5,500
	92.075	24.608	25.400	19.845	83.5	116	8,550	11,800	4,000	5,300
	93.264	30.162	30.302	23.812	102	134	10,400	13,700	4,000	5,300
	93.264	30.162	30.302	23.812	102	134	10,400	13,700	4,000	5,300
	95.250	27.783	28.575	22.225	107	139	10,900	14,200	3,900	5,200
	95.250	30.162	30.302	23.812	102	134	10,400	13,700	4,000	5,300
	96.838	21.000	21.946	15.875	78.0	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	
98.425	30.162	30.302	23.812	102	134	10,400	13,700	4,000	5,300	

Note: 1. With regard to the chamfer dimensions on the back face of the inner and outer rings, installation dimensions r_{i1} and r_{o1} 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

$$P_r = XF_r + YF_a$$

$\frac{F_a}{F_r}$	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 load factors		Mass kg
	mm								a	e	
	d_a	d_b	D_a	D_b	r_{as} max	r_{1as} max					(approx.)
4T-45282/45220	63	57	93	99	3.5	3.3	7.9	0.33	1.80	0.99	1.29
4T-55187C/55437	69	62	92	105	3.5	3.3	-7.4 ^①	0.88	0.68	0.37	1.4
4T-72188C/72487	69	67	102	116	0.8	3.3	-1.5 ^①	0.74	0.81	0.45	2.16
4T-HM804848/HM804810	63	57	81	91	2.3	3.3	3.7	0.55	1.10	0.60	0.967
4T-HM804849/HM804810	66	57	81	91	3.5	3.3	3.7	0.55	1.10	0.60	0.964
4T-3781/3720	62	56	82	88	3.5	3.3	8.3	0.34	1.77	0.97	0.877
4T-5395/5335	66	60	89	97	3.5	3.3	16.1	0.30	2.02	1.11	1.75
4T-HM807044/HM807010	69	63	89	100	3.5	3.3	7.4	0.49	1.23	0.68	1.52
4T-65390/65320	70	60	97	107	3.5	3.3	12.5	0.43	1.39	0.77	2.23
4T-HH506348/HH506310	71	61	97	107	3.5	3.3	13.3	0.40	1.49	0.82	2.33
4T-LM104947A†/LM104911	55	55	75	78	0.5	1.3	5.8	0.31	1.97	1.08	0.434
4T-28579†/28521	60	56	83	87	2.3	0.8	4.6	0.38	1.59	0.87	0.718
4T-HH506349†/HH506310	72	61	97	107	3.5	3.3	13.3	0.40	1.49	0.82	2.27
#4T-JLM104948/JLM104910	60	55	76	78	3	0.5	5.4	0.31	1.97	1.08	0.42
#4T-JLM704649/JLM704610	62	56	76	80	3.5	1.5	2.3	0.44	1.37	0.75	0.466
4T-365/362A	58	55	81	84	2	1.3	4.0	0.32	1.88	1.03	0.53
4T-366/362A	59	55	81	84	2.3	1.3	4.0	0.32	1.88	1.03	0.529
#4T-JM205149/JM205110	62	57	80	85	3	2.5	7.4	0.33	1.82	1.00	0.752
#4T-JHM807045/JHM807012	69	63	90	100	3	2.5	7.5	0.49	1.23	0.68	1.52
4T-396/394A	61	60	101	104	0.8	1.3	0.7	0.40	1.49	0.82	1.06
4T-LM104949/LM104911	62	55	75	78	3.5	1.3	5.8	0.31	1.97	1.08	0.419
4T-18790/18720	62	56	77	80	3.5	1.5	0.8	0.41	1.48	0.81	0.374
4T-18790/18724	62	56	78	82	3.5	1.3	0.8	0.41	1.48	0.81	0.431
4T-368/362A	58	56	81	84	1.5	1.3	4.0	0.32	1.88	1.03	0.519
4T-370A/362A	65	56	81	84	5	1.3	4.0	0.32	1.88	1.03	0.511
4T-368A/362	62	56	81	84	3.5	2	4.0	0.32	1.88	1.03	0.525
4T-28580/28521	63	57	83	87	3.5	0.8	4.6	0.38	1.59	0.87	0.703
4T-3775/3720	58	58	82	88	0.8	3.3	8.3	0.34	1.77	0.97	0.852
4T-3780/3720	64	58	82	88	3.5	3.3	8.3	0.34	1.77	0.97	0.848
4T-33889/33821	64	58	85	90	3.5	2.3	8.0	0.33	1.82	1.00	0.876
4T-3780/3726	64	58	83	89	3.5	3.3	8.3	0.34	1.77	0.97	0.903
4T-385A/382A	61	60	89	92	2.3	0.8	3.1	0.35	1.69	0.93	0.676
4T-28678/28622	65	58	88	92	3.5	0.8	3.3	0.40	1.49	0.82	0.852
4T-3780/3732	64	58	84	90	3.5	3.3	8.3	0.34	1.77	0.97	0.993

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.