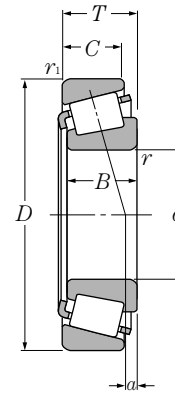


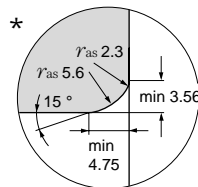
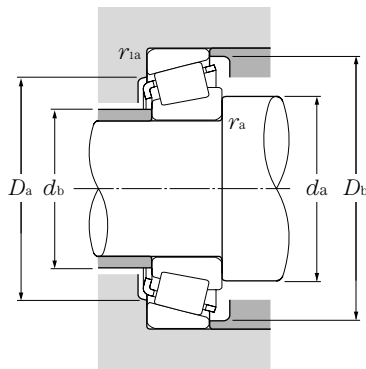
Inch system sizes



d 44.450 ~ 47.625mm

d	Boundary dimensions				Basic load ratings				Limiting speeds	
	D	T	B	C	dynamic kN	static kN	dynamic kgf	static kgf	grease rpm	oil rpm
44.450	104.775	30.162	30.958	23.812	130	169	13,200	17,300	3,500	4,700
	104.775	36.512	36.512	28.575	138	189	14,000	19,300	3,600	4,800
	111.125	30.162	26.909	20.638	104	136	10,600	13,900	3,200	4,200
	111.125	30.162	26.909	20.638	104	136	10,600	13,900	3,200	4,200
	127.000	50.800	52.388	41.275	250	320	25,500	33,000	3,200	4,300
44.983	82.931	23.812	25.400	19.050	76.0	98.0	7,750	10,000	4,500	6,000
	93.264	30.162	30.302	23.812	102	134	10,400	13,700	4,000	5,300
45.000	85.000	20.638	21.692	17.462	69.5	79.5	7,100	8,100	4,400	5,800
	88.900	20.638	22.225	16.513	76.5	90.5	7,800	9,250	4,100	5,500
45.237	87.312	30.162	30.886	23.812	94.0	117	9,600	12,000	4,400	5,900
45.242	73.431	19.558	19.812	15.748	54.0	76.0	5,550	7,750	4,800	6,400
	77.788	19.842	19.842	15.080	57.5	73.5	5,850	7,500	4,600	6,200
45.618	82.550	23.812	25.400	19.050	76.0	98.0	7,750	10,000	4,500	6,000
	82.931	23.812	25.400	19.050	76.0	98.0	7,750	10,000	4,500	6,000
	83.058	23.876	25.400	19.114	76.0	98.0	7,750	10,000	4,500	6,000
	85.000	23.812	25.400	19.050	76.0	98.0	7,750	10,000	4,500	6,000
45.987	74.976	18.000	18.000	14.000	51.0	71.0	5,200	7,250	4,700	6,300
46.038	79.375	17.462	17.462	13.495	45.5	56.0	4,600	5,700	4,600	6,200
	82.931	23.812	25.400	19.050	76.0	98.0	7,750	10,000	4,500	6,000
	85.000	20.638	21.692	17.462	69.5	79.5	7,100	8,100	4,400	5,800
	85.000	25.400	25.608	20.638	79.0	104	8,050	10,600	4,400	5,800
	90.119	23.000	21.692	21.808	69.5	79.5	7,100	8,100	4,400	5,800
	93.264	30.162	30.302	23.812	102	134	10,400	13,700	4,000	5,300
47.625	88.900	20.638	22.225	16.513	76.5	90.5	7,800	9,250	4,100	5,500
	88.900	25.400	25.400	19.050	82.0	101	8,350	10,300	4,200	5,600
	93.264	30.162	30.302	23.812	102	134	10,400	13,700	4,000	5,300
	95.250	30.162	29.370	23.020	109	147	11,100	15,000	4,000	5,300
	96.838	21.000	21.946	15.875	78.0	96.5	7,950	9,850	3,700	5,000
	101.600	34.925	36.068	26.988	135	165	13,800	16,800	3,800	5,000
	104.775	30.162	29.317	24.605	115	148	11,700	15,000	3,500	4,700

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) or "++" (outer 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
1	0	0.4

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-45280/45220	55	54	93	99	0.8	3.3	7.9	0.33	1.80	0.99	1.35
4T-HM807040/HM807010	66	59	89	100	3.5	3.3	7.4	0.49	1.23	0.68	1.62
4T-55175C/55437	70	64	92	105	3.5	3.3	-7.4 ^①	0.88	0.68	0.37	1.45
4T-55176C/55437	65	65	92	105	0.8	3.3	-7.4 ^①	0.88	0.68	0.37	1.09
4T-6277/6220	67	60	108	117	3.5	3.3	19.5	0.30	2.01	1.11	3.58
4T-25584/25520	53	51	74	77	1.5	0.8	6.2	0.33	1.79	0.99	0.555
4T-3776/3720	59	53	82	88	3.5	3.3	8.3	0.34	1.77	0.97	0.952
4T-358/354A	53	50	77	80	1.5	1.3	5.1	0.31	1.96	1.08	0.505
4T-367/362A	55	51	81	84	2	1.3	4.0	0.32	1.88	1.03	0.595
4T-3586/3525	58	52	75	81	3.5	3.3	10.0	0.31	1.96	1.08	0.765
4T-LM102949/LM102910	56	50	68	70	3.5	0.8	4.7	0.31	1.97	1.08	0.307
4T-LM603049/LM603011	57	50	71	74	3.5	0.8	2.2	0.43	1.41	0.77	0.372
4T-25590/25519	58	51	73	77	3.5	2	6.2	0.33	1.79	0.99	0.534
4T-25590/25520	58	51	74	77	3.5	0.8	6.2	0.33	1.79	0.99	0.543
4T-25590/25522	58	51	73	77	3.5	2	6.2	0.33	1.79	0.99	0.545
4T-25590/25526	58	51	74	78	3.5	2.3	6.2	0.33	1.79	0.99	0.581
4T-LM503349A†/LM503310††	57	51	67	71	*	1.5	1.9	0.40	1.49	0.82	0.296
4T-18690/18620	56	51	71	74	2.8	1.5	2.2	0.37	1.60	0.88	0.329
4T-25592/25520	58	52	74	77	3.5	0.8	6.2	0.33	1.79	0.99	0.538
4T-359A/354A	57	51	77	80	3.5	1.3	5.1	0.31	1.96	1.08	0.489
4T-2984/2924	58	52	76	80	3.5	1.3	6.4	0.35	1.73	0.95	0.615
4T-359S/352	55	51	78	82	2.3	2.3	5.1	0.31	1.96	1.08	0.651
4T-3777/3720	60	53	82	88	3.5	3.3	8.3	0.34	1.77	0.97	0.934
4T-436/432	59	52	83	87	3.5	2.3	9.2	0.28	2.11	1.16	0.927
4T-369A/362A	60	53	81	84	3.5	1.3	4.0	0.32	1.88	1.03	0.559
4T-M804048/M804010	57	56	77	85	0.8	3.3	1.7	0.55	1.10	0.60	0.662
4T-3778/3720	67	55	82	88	6.4	3.3	8.3	0.34	1.77	0.97	0.898
4T-HM804846/HM804810	66	57	81	91	3.5	3.3	3.7	0.55	1.10	0.60	0.978
4T-386A/382A	56	55	89	92	0.8	0.8	3.1	0.35	1.69	0.93	0.72
4T-528/522	62	55	89	95	3.5	3.3	12.9	0.29	2.10	1.16	1.3
4T-463/453X	65	56	92	98	4.8	3.3	7.1	0.34	1.79	0.98	1.24

Note: 3. Chamfer dimensions of bearings marked "*" are shown in drawings.

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