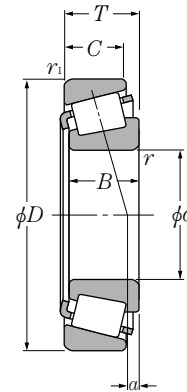


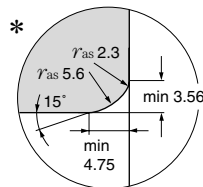
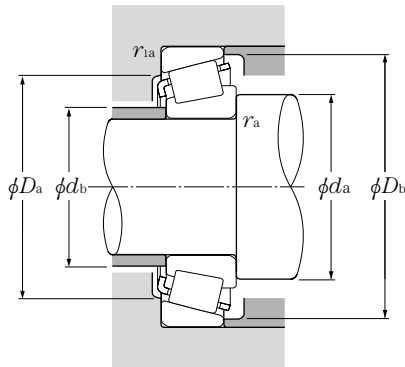
Inch series



d 44.450 ~ 47.625mm

d	Boundary dimensions				dynamic kN	Basic load ratings		dynamic kgf	static kgf	Limiting speeds	
	D	T	B	C		static	dynamic			grease	oil
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	95.250	27.783	29.900	22.225	108	129	11 000	13 200	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	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. Chamfer dimensions on the back face of the inner and outer rings of the bearing are larger than maximum values for installation dimensions r_{is} and r_{ios} .
 2. As for the maximum value for inner and outer ring diameters of bearings whose bearing numbers are marked with "+" (inner ring) and "++" (outer ring), the precision class is an integer for class 4 and class 2 bearings only.



Equivalent radial 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 load factors		Mass kg (approx.)
	mm								a	e	
	d_a	d_b	D_a	D_b	r_{as} max	r_{1as} max					
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.