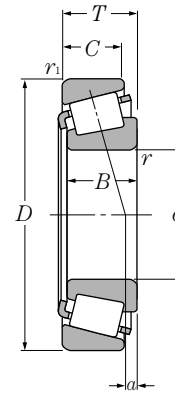


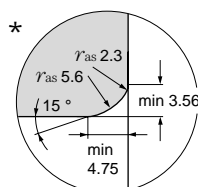
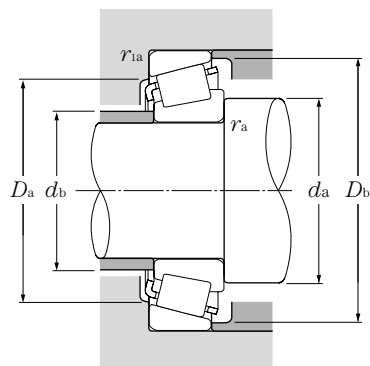
Inch system sizes



d 38.100 ~ 41.275mm

d	Boundary dimensions				Basic load ratings				Limiting speeds	
	mm				dynamic	static	dynamic	static	rpm	
	D	T	B	C	C_r	C_{or}	C_r	C_{or}	grease	oil
38.100	76.200	20.638	20.940	15.507	55.5	63.0	5,650	6,450	5,000	6,700
	76.200	23.812	25.654	19.050	73.0	90.5	7,450	9,200	5,100	6,800
	76.200	23.812	25.654	19.050	73.0	90.5	7,450	9,200	5,100	6,800
	79.375	23.812	25.400	19.050	76.5	97.5	7,800	9,950	4,800	6,400
	79.375	29.370	29.771	23.812	93.0	114	9,450	11,600	4,900	6,600
	80.000	21.006	20.940	15.875	55.5	63.0	5,650	6,450	5,000	6,700
	80.035	24.608	23.698	18.512	67.0	82.5	6,850	8,400	4,800	6,400
	82.550	29.370	28.575	23.020	87.0	117	8,850	11,900	4,700	6,200
	82.931	23.812	25.400	19.050	76.0	98.0	7,750	10,000	4,500	6,000
	85.725	30.162	30.162	23.812	105	132	10,700	13,400	4,500	6,000
87.312	30.162	30.886	23.812	94.0	117	9,600	12,000	4,400	5,900	
88.500	25.400	23.698	17.462	70.5	78.0	7,200	7,950	4,000	5,300	
88.500	26.988	29.083	22.225	95.5	107	9,750	10,900	4,600	6,100	
39.688	76.200	23.812	25.654	19.050	73.0	90.5	7,450	9,200	5,100	6,800
	77.534	29.370	30.391	23.812	95.0	112	9,700	11,400	4,800	6,400
	79.375	23.812	25.400	19.050	76.5	97.5	7,800	9,950	4,800	6,400
	80.035	29.370	30.391	23.812	95.0	112	9,700	11,400	4,800	6,400
	80.167	29.370	30.391	23.812	95.0	112	9,700	11,400	4,800	6,400
	88.500	25.400	23.698	17.462	70.5	78.0	7,200	7,950	4,000	5,300
40.000	76.200	20.638	20.940	15.507	55.5	63.0	5,650	6,450	5,000	6,700
	80.000	21.000	22.403	17.826	68.0	75.0	6,950	7,650	4,700	6,300
	85.000	20.638	21.692	17.462	69.5	79.5	7,100	8,100	4,400	5,800
	88.500	26.988	29.083	22.225	95.5	107	9,750	10,900	4,600	6,100
	107.950	36.512	36.957	28.575	141	177	14,400	18,100	3,600	4,800
40.483	82.550	29.370	28.575	23.020	87.0	117	8,850	11,900	4,700	6,200
40.988	67.975	17.500	18.000	13.500	46.0	62.5	4,700	6,400	5,300	7,000
41.275	73.025	16.667	17.462	12.700	46.0	55.5	4,700	5,700	5,000	6,600
	73.431	19.558	19.812	14.732	56.0	69.5	5,700	7,100	5,000	6,600
	73.431	21.430	19.812	16.604	56.0	69.5	5,700	7,100	5,000	6,600
	76.200	18.009	17.384	14.288	42.5	51.5	4,350	5,250	4,900	6,500
	76.200	22.225	23.020	17.462	65.0	80.5	6,600	8,200	4,900	6,500
	76.200	25.400	25.400	20.638	76.5	97.5	7,800	9,950	4,800	6,400
	79.375	23.812	25.400	19.050	76.5	97.5	7,800	9,950	4,800	6,400
	80.000	18.009	17.384	14.288	42.5	51.5	4,350	5,250	4,900	6,500

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) or "++" (outer ring), this value applies only to high precision class types, Class 4 and 2.



Equivalent bearing load

dynamic

$$P_r = XF_r + YF_a$$

$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
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-28150/28300	45.5	43.5	68	71	1.5	1.3	4.8	0.40	1.49	0.82	0.405		
4T-2776/2720	52	43.5	66	70	4.3	3.3	7.8	0.30	1.98	1.09	0.495		
4T-2788/2720	50	43.5	66	70	3.5	3.3	7.8	0.30	1.98	1.09	0.497		
4T-26878/26822	45	44.5	71	74	0.8	0.8	7.4	0.32	1.88	1.04	0.574		
4T-3490/3420	52	45.5	67	74	3.5	3.3	8.7	0.37	1.64	0.90	0.683		
4T-28150/28315	45.5	43.5	69	73	1.5	1.5	4.8	0.40	1.49	0.82	0.467		
4T-27880/27820	48	47	68	75	0.8	1.5	2.5	0.56	1.07	0.59	0.562		
4T-HM801346/HM801310	51	49	68	78	0.8	3.3	4.7	0.55	1.10	0.60	0.767		
4T-25572/25520	46	46	74	77	0.8	0.8	6.2	0.33	1.79	0.99	0.645		
4T-3875/3820	49.5	48.5	73	81	0.8	3.3	8.1	0.40	1.49	0.82	0.857		
4T-3580/3525	48	45.5	75	81	1.5	3.3	10.0	0.31	1.96	1.08	0.881		
4T-44150/44348	55	51	75	84	2.3	1.5	-2.9 ^①	0.78	0.77	0.42	0.711		
4T-418/414	51	44.5	77	80	3.5	1.5	9.1	0.26	2.28	1.25	0.84		
4T-2789/2720	52	45	66	70	3.5	3.3	7.8	0.30	1.98	1.09	0.477		
4T-3382/3321	52	45.5	68	75	3.5	3.3	11.2	0.27	2.20	1.21	0.669		
4T-26880/26822	48	45.5	71	74	1.5	0.8	7.4	0.32	1.88	1.04	0.554		
4T-3382/3339	52	45.5	71	75	3.5	1.5	11.2	0.27	2.20	1.21	0.666		
4T-3386/3320	46.5	45.5	70	75	0.8	3.3	11.2	0.27	2.20	1.21	0.668		
4T-44158/44348	58	51	75	84	3.5	1.5	-2.9 ^①	0.78	0.77	0.42	0.691		
4T-28158/28300	47.5	45	68	71	1.5	1.3	4.8	0.40	1.49	0.82	0.386		
4T-344/332	52	45.5	73	75	3.5	1.3	6.6	0.27	2.20	1.21	0.479		
4T-350A/354A	47.5	46.5	77	80	0.8	1.3	5.1	0.31	1.96	1.08	0.562		
4T-420/414	52	46	77	80	3.5	1.5	9.1	0.26	2.28	1.25	0.813		
4T-543/532X	57	50	94	100	3.5	3.3	12.3	0.30	2.02	1.11	1.77		
4T-HM801349/HM801310	58	49	68	78	3.5	3.3	4.7	0.55	1.10	0.60	0.731		
4T-LM300849†/LM300811††	52	45	61	65	*	1.5	3.6	0.35	1.72	0.95	0.239		
4T-18590/18520	53	46	66	69	3.5	1.5	2.9	0.35	1.71	0.94	0.281		
4T-LM501349/LM501310	53	46.5	67	70	3.5	0.8	3.3	0.40	1.50	0.83	0.335		
4T-LM501349/LM501314	53	46.5	66	70	3.5	0.8	3.3	0.40	1.50	0.83	0.355		
4T-11162/11300	49	46.5	67	71	1.5	1.5	0.7	0.49	1.23	0.68	0.337		
4T-24780/24720	54	47	68	72	3.5	0.8	4.5	0.39	1.53	0.84	0.432		
4T-26882/26823	54	47	69	73	3.5	1.5	7.4	0.32	1.88	1.04	0.488		
4T-26885/26822	48	47	71	74	0.8	0.8	7.4	0.32	1.88	1.04	0.535		
4T-11162/11315	49	46.5	69	73	1.5	1.5	0.7	0.49	1.23	0.68	0.389		

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

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