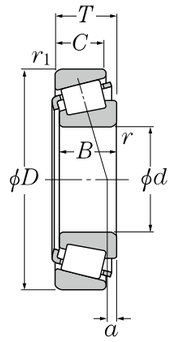
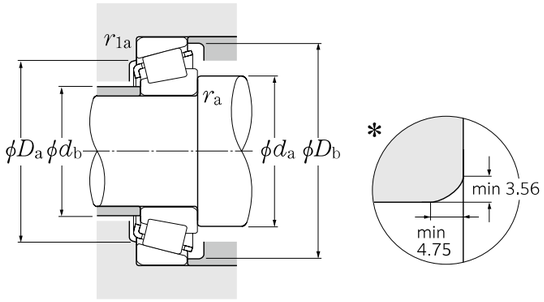
Inch series
J series



d 34.925 ~ 38.100mm

Boundary dimensions mm					Basic load rating kN		Allowable speed min-1	
d	D	T	B	C	dynamic C_r	static C_{0r}	Grease lubrication	Oil lubrication
34.925	76.200	23.812	25.654	19.050	81.0	90.5	5 100	6 800
	76.200	29.370	28.575	23.020	86.5	105	5 100	6 800
	76.200	29.370	28.575	23.812	89.5	97.0	5 100	6 800
	76.200	29.370	28.575	23.812	89.5	97.0	5 100	6 800
	79.375	29.370	29.771	23.812	103	114	4 900	6 600
	80.167	29.370	30.391	23.812	105	112	4 800	6 400
	85.725	30.162	30.162	23.812	116	132	4 500	6 000
34.976	69.012	19.845	19.583	15.875	53.5	58.0	5 600	7 400
34.988	59.974	15.875	16.764	11.938	39.0	47.5	6 100	8 100
	61.973	16.700	17.000	13.600	41.0	48.0	5 900	7 900
	61.973	18.000	17.000	15.000	41.0	48.0	5 900	7 900
35.000	70.000	24.000	23.500	19.000	69.0	78.0	5 500	7 300
	79.375	23.812	25.400	19.050	85.0	97.5	4 800	6 400
	80.000	21.000	22.403	17.826	75.5	75.0	4 700	6 300
35.717	72.233	25.400	25.400	19.842	72.0	84.5	5 400	7 200
	72.626	25.400	25.400	19.842	72.0	84.5	5 400	7 200
36.487	73.025	23.812	24.608	19.050	78.5	85.0	5 300	7 100
	76.200	23.812	25.654	19.050	81.0	90.5	5 100	6 800
36.512	76.200	29.370	28.575	23.020	86.5	105	5 100	6 800
	76.200	29.370	28.575	23.020	86.5	105	5 100	6 800
	76.200	29.370	28.575	23.812	89.5	97.0	5 100	6 800
	79.375	29.370	28.829	22.664	95.5	104	5 000	6 600
	79.375	29.370	29.771	23.812	103	114	4 900	6 600
	88.500	25.400	23.698	17.462	78.5	78.0	4 000	5 300
38.000	63.000	17.000	17.000	13.500	43.0	52.5	5 700	7 600
38.100	63.500	12.700	11.908	9.525	28.7	33.5	5 500	7 300
	65.088	18.034	18.288	13.970	48.0	57.0	5 500	7 400
	69.012	19.050	19.050	15.083	53.0	59.5	5 300	7 100
	69.012	19.050	19.050	15.083	53.0	59.5	5 300	7 100
	71.438	15.875	16.520	11.908	48.0	51.0	5 400	7 200
	72.000	19.000	20.638	14.237	53.0	58.5	5 300	7 000

Note: Chamfer dimensions on the back face of the inner and outer rings of the bearing are larger than the maximum values of installation-related dimensions r_{as} and r_{1as}.
1) 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.



Dynamic equivalent radial load
$P_r = XF_r + YF_a$

$\frac{F_a}{F_r} \leqq e$		$\frac{F_a}{F_r} > e$	
X	Y	X	Y
1	0	0.4	Y_2

Static equivalent radial load
$P_{0r} = 0.5F_r + Y_0F_a$
When $P_{0r} < F_r$ use $P_{0r} = F_r$.
For values of e,
Y_2 and Y_0 see the table below.

Bearing number 1) 2)	Installation-related dimensions mm						Load center 4) mm	Constant	Axial load factors		Mass kg
	d_a	d_b	D_a	D_b	r_{as} 3) Max.	r_{1as} Max.	a	e	Y_2	Y_0	(approx.)
4T-2796/2729	47.5	41	68	70	3.5	0.8	7.8	0.30	1.98	1.09	0.536
4T-HM89446/HM89410	56	44.3	62	73	3.5	3.3	5.8	0.55	1.10	0.60	0.646
4T-31593/31520	50	43.5	64	72	3.5	3.3	7.8	0.40	1.49	0.82	0.626
4T-31594/31520	46	43.5	64	72	1.5	3.3	7.8	0.40	1.49	0.82	0.628
4T-3478/3420	50	43.5	67	74	3.5	3.3	8.7	0.37	1.64	0.90	0.731
4T-3379/3320	48	41.5	70	75	3.5	3.3	11.2	0.27	2.20	1.21	0.736
4T-3872/3820	53	46	73	81	3.5	3.3	8.1	0.40	1.49	0.82	0.902
4T-14139/14276	43.5	41.5	60	63	1.3	1.3	4.1	0.38	1.57	0.86	0.33
4T-L68149†/L68111††	45.5	39	53	56	*	1.3	2.5	0.42	1.44	0.79	0.179
4T-LM78349A†/LM78310A††	42	39.5	54	59	1.5	1.5	2.4	0.44	1.35	0.74	0.206
4T-LM78349†/LM78310C††	46	40	56	59	*	1.5	2.4	0.44	1.35	0.74	0.218
#4T-JS3549A/JS3510	47	42	60	66.5	2	1.5	3.6	0.55	1.10	0.60	0.42
4T-26883/26822	42.5	42	71	74	0.8	0.8	7.4	0.32	1.88	1.04	0.61
4T-339/332	42.5	41.5	73	75	0.8	1.3	6.6	0.27	2.20	1.21	0.534
4T-HM88648/HM88610	54	42.5	60	69	3.5	2.3	4.6	0.55	1.10	0.60	0.477
4T-HM88648/HM88611AS	54	42.5	59	69	3.5	3.3	3.0	0.55	1.10	0.60	0.482
4T-25880/25821	44	42	65	68	1.5	0.8	8.1	0.29	2.07	1.14	0.456
4T-2780/2720	44.5	42.5	66	70	1.5	3.3	7.8	0.30	1.98	1.09	0.516
4T-HM89448/HM89410	48.5	44.3	62	73	0.8	3.3	5.8	0.55	1.10	0.60	0.628
4T-HM89449/HM89411	57	44.3	65	73	3.5	0.8	5.8	0.55	1.10	0.60	0.63
4T-31597/31520	51	44.5	64	72	3.5	3.3	7.8	0.40	1.49	0.82	0.606
4T-HM89249/HM89210	55	44	66	75	3.5	3.3	5.8	0.55	1.10	0.60	0.689
4T-3479/3420	45.5	44.5	67	74	0.8	3.3	8.7	0.37	1.64	0.90	0.707
4T-44143/44348	54	50	75	84	2.3	1.5	-2.9	0.78	0.77	0.42	0.73
#4T-JL69349/JL69310	46.5	42.5	56	60	*	1.3	2.3	0.42	1.44	0.79	0.2
4T-13889/13830	45	42.5	59	60	1.5	0.8	0.8	0.35	1.73	0.95	0.148
4T-LM29748/LM29710	49	42.5	58.9	62	*	1.3	4.3	0.33	1.80	0.99	0.227
4T-13685/13621	49.5	43	61	65	3.5	2.3	3.0	0.40	1.49	0.82	0.294
4T-13687/13621	46.5	43	61	65	2	2.3	3.0	0.40	1.49	0.82	0.296
4T-19150/19281	45	43	63	66	1.5	1.5	1.4	0.44	1.35	0.74	0.241
4T-16150/16282	49.5	43	63	67	3.5	1.5	4.2	0.40	1.49	0.82	0.331

2) Bearing numbers marked "#" designate **J-series** bearings. The tolerance of these bearings is listed in Table 6.8 on page A-66 to A-67.
3) Chamfer dimensions of the bearings marked "*" are shown in the above drawings. 4) Dimensions with "–" indicate a load center at the outside on the end of an inner ring.