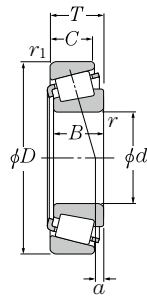


Tapered Roller Bearings



Inch series
J series

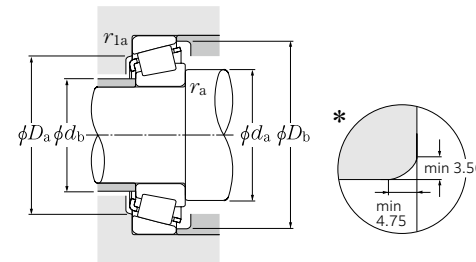


a 28.575 ~ 31.750mm

	Boundary dimensions				Basic load rating		Allowable speed	
	mm				dynamic	static	min ⁻¹	
d	D	T	B	C	C _r	C _{0r}	Grease lubrication	Oil lubrication
28.575	58.738	19.050	19.355	15.080	45.0	44.5	6 700	8 900
	60.325	19.842	17.462	15.875	44.0	45.5	6 700	8 900
	60.325	19.845	19.355	15.875	45.0	44.5	6 700	8 900
	62.000	19.050	20.638	14.288	52.0	54.0	6 100	8 200
	64.292	21.433	21.433	16.670	57.5	64.5	6 100	8 100
	66.421	23.812	25.433	19.050	71.5	72.5	6 200	8 200
	68.262	22.225	22.225	17.462	63.0	67.0	5 800	7 700
	68.262	22.225	23.812	17.462	64.0	65.5	5 700	7 700
	69.850	23.812	25.357	19.050	76.5	81.5	5 700	7 600
	72.626	24.608	24.257	17.462	64.5	55.5	5 800	7 700
73.025	22.225	22.225	17.462	62.5	68.0	5 300	7 000	
29.000	50.292	14.224	14.732	10.668	31.0	35.5	7 200	9 600
29.367	66.421	23.812	25.433	19.050	71.5	72.5	6 200	8 200
29.987	62.000	16.002	16.566	14.288	43.0	42.0	6 300	8 400
	62.000	19.050	20.638	14.288	52.0	54.0	6 100	8 200
30.000	69.012	19.845	19.583	15.875	53.5	58.0	5 600	7 400
	72.000	29.370	27.783	23.020	80.0	97.0	5 400	7 100
30.112	62.000	19.050	20.638	14.288	52.0	54.0	6 100	8 200
30.162	62.000	16.002	16.566	14.288	43.0	42.0	6 300	8 400
	64.292	21.433	21.433	16.670	57.5	64.5	6 100	8 100
	69.850	23.812	25.357	19.050	76.5	81.5	5 700	7 600
	72.626	30.162	29.997	23.812	93.5	98.0	5 500	7 300
30.213	62.000	19.050	20.638	14.288	52.0	54.0	6 100	8 200
	62.000	19.050	20.638	14.288	52.0	54.0	6 100	8 200
	62.000	19.050	20.638	14.288	52.0	54.0	6 100	8 200
30.226	69.012	19.845	19.583	15.875	53.5	58.0	5 600	7 400
	69.012	19.845	19.583	15.875	53.5	58.0	5 600	7 400
31.750	59.131	15.875	16.764	11.811	38.5	41.0	6 300	8 400
	62.000	18.161	19.050	14.288	52.0	54.0	6 100	8 200
	62.000	19.050	20.638	14.288	52.0	54.0	6 100	8 200

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_{1a} and r_{1as} .
1) As for the maximum value for inner ring bore diameters of bearings whose bearing numbers are marked with "T" (inner ring), the precision class is an integer for class 4 and class 2 bearings only.

Tapered Roller Bearings



Dynamic equivalent radial load

$$P_r = X F_r + Y F_a$$

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

Static equivalent radial load

$$P_{0r} = 0.5 F_r + Y_0 F_a$$

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						Load center mm	Constant load factors	Axial load factors	Mass kg	
	mm										
	d_a	d_b	D_a	D_b	$r_{as}^{3)}$ Max.	r_{1as} Max.	a	e	Y_2	Y_0	(approx.)
4T-1985/1932	34	33.5	52	54	0.8	1.3	5.9	0.33	1.82	1.00	0.231
4T-15590/15523	39.5	33.5	51	54	3.5	1.5	5.0	0.35	1.73	0.95	0.25
4T-1985/1931	34	33.5	52	55	0.8	1.3	5.9	0.33	1.82	1.00	0.256
4T-15112/15245	40	34	55	58	3.5	1.3	6.0	0.35	1.71	0.94	0.279
4T-M86647/M86610	40	31	54	60	1.5	1.5	3.3	0.55	1.10	0.60	0.348
4T-2689/2631	37.5	36	58	60	1.3	1.3	9.3	0.25	2.36	1.30	0.363
4T-02474/02420	36.5	36	59	63	0.8	1.5	5.2	0.42	1.44	0.79	0.41
4T-2474/2420	36	35	60	63	0.8	1.5	6.5	0.34	1.77	0.97	0.38
4T-2578/2523	39	35	61	64	2.3	1.3	9.1	0.27	2.19	1.21	0.484
4T-41125/41286	48	36.5	61	68	4.8	1.5	3.7	0.60	1.00	0.55	0.475
4T-02872/02820	37.5	37	62	68	0.8	3.3	3.9	0.45	1.32	0.73	0.481
4T-L45449/L45410	40	33.5	44.5	48	3.5	1.3	3.5	0.37	1.62	0.89	0.113
4T-2690/2631	41	35	58	60	3.5	1.3	9.3	0.25	2.36	1.30	0.407
4T-17118†/17244	38.5	36	54	57	1.5	1.5	3.3	0.38	1.57	0.86	0.229
4T-15117†/15245	36.5	35	55	58	1.3	1.3	6.0	0.35	1.71	0.94	0.27
4T-14117A/14276	44	41	60	63	3.5	1.3	4.1	0.38	1.57	0.86	0.37
#4T-JHM88540/JHM88513	44.5	42.5	58	69	1.3	3.3	6.0	0.55	1.10	0.60	0.62
4T-15116/15245	36	35.5	55	58	0.8	1.3	6.0	0.35	1.71	0.94	0.27
4T-17119/17244	37	34.5	54	57	1.5	1.5	3.3	0.38	1.57	0.86	0.228
4T-M86649/M86610	44	38	54	60	1.5	1.5	3.3	0.55	1.10	0.60	0.336
4T-2558/2523	40	36.5	61	64	2.3	1.3	9.1	0.27	2.19	1.21	0.467
4T-3187/3120	39	38.5	61	67	0.8	3.3	9.9	0.33	1.80	0.99	0.621
4T-15118/15245	43	36.5	55	58	3.5	1.3	6.0	0.35	1.71	0.94	0.266
4T-15119/15245	37.5	35.5	55	58	1.5	1.3	6.0	0.35	1.71	0.94	0.269
4T-15120/15245	36	35.5	55	58	0.8	1.3	6.0	0.35	1.71	0.94	0.269
4T-14116/14274	38.5	38	59	63	0.8	3.3	4.1	0.38	1.57	0.86	0.369
4T-14116/14276	38.5	38	60	63	0.8	1.3	4.1	0.38	1.57	0.86	0.371
4T-LM67048/LM67010	42.5	36	52	56	*	1.3	2.8	0.41	1.46	0.80	0.183
4T-15123/15245	44	38	55	58	*	1.3	5.1	0.35	1.71	0.94	0.249
4T-15125/15245	42.5	36.5	55	58	3.5	1.3	6.0	0.35	1.71	0.94	0.254

2) Bearing numbers marked with "#" 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 with "*" are shown in the above drawings.