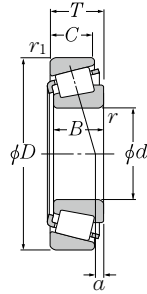


Tapered Roller Bearings



Inch series
J series

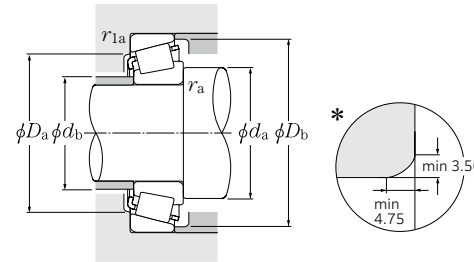


d 31.750 ~ 34.925mm

d	Boundary dimensions				Basic load rating		Allowable speed	
	mm				dynamic	static	min ⁻¹	
	D	T	B	C	C _r kN	C _{0r}	Grease lubrication	Oil lubrication
31.750	62.000	19.050	20.638	14.288	52.0	54.0	6 100	8 200
	66.421	25.400	25.357	20.638	76.5	81.5	5 700	7 600
	68.262	22.225	22.225	17.462	63.0	67.0	5 800	7 700
	68.262	22.225	22.225	17.462	63.0	67.0	5 800	7 700
	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
	69.850	23.812	25.357	19.050	76.5	81.5	5 700	7 600
	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
	72.626	30.162	29.997	23.812	93.5	98.0	5 500	7 300
	73.025	22.225	22.225	17.462	62.5	68.0	5 300	7 000
	73.025	22.225	23.812	17.462	69.5	75.5	5 200	7 000
	73.025	29.370	27.783	23.020	80.0	97.0	5 400	7 100
	73.812	29.370	27.783	23.020	80.0	97.0	5 400	7 100
76.200	29.370	28.575	23.020	86.5	105	5 100	6 800	
79.375	29.370	29.771	23.812	103	114	4 900	6 600	
33.338	68.262	22.225	22.225	17.462	62.5	71.0	5 700	7 500
	69.012	19.845	19.583	15.875	53.5	58.0	5 600	7 400
	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
	73.025	29.370	27.783	23.020	80.0	97.0	5 400	7 100
	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	23.020	86.5	105	5 100	6 800
	79.375	25.400	24.074	17.462	72.5	67.0	5 200	6 900
34.925	65.088	18.034	18.288	13.970	51.5	56.0	5 700	7 600
	65.088	18.034	18.288	13.970	51.5	56.0	5 700	7 600
	69.012	19.845	19.583	15.875	53.5	58.0	5 600	7 400
	72.233	25.400	25.400	19.842	72.0	84.5	5 400	7 200
	72.238	20.638	20.638	15.875	53.0	58.5	5 300	7 000
	73.025	22.225	22.225	17.462	62.5	68.0	5 300	7 000
	73.025	22.225	22.225	17.462	62.5	68.0	5 300	7 000
	73.025	22.225	23.812	17.462	69.5	75.5	5 200	7 000
	73.025	23.812	24.608	19.050	78.5	85.0	5 300	7 100
	73.025	23.812	24.608	19.050	78.5	85.0	5 300	7 100
	73.025	23.812	25.654	19.050	81.0	90.5	5 100	6 800
76.200	23.812	25.654	19.050	81.0	90.5	5 100	6 800	

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} .

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⁾	Installation-related dimensions						Load center mm	Constant e	Axial load factors		Mass kg (approx.)		
	mm								a	e		Y_2	Y_0
	d_a	d_b	D_a	D_b	$r_{as}^{(1)}$ Max.	r_{1as} Max.							
4T-15126/15245	38.5	38	55	58	0.8	1.3	6.0	0.35	1.71	0.94	0.257		
4T-2580/2520	38.5	37.5	56.9	62.5	0.8	3.3	9.1	0.27	2.19	1.21	0.41		
4T-02475/02420	44.5	38.5	59	63	3.5	1.5	5.2	0.42	1.44	0.79	0.382		
4T-02476/02420	39	38.5	59	63	0.8	1.5	5.2	0.42	1.44	0.79	0.384		
4T-14124/14276	39.5	39	60	63	0.8	1.3	4.1	0.38	1.57	0.86	0.36		
4T-14125A/14276	45	39	60	63	3.5	1.3	4.1	0.38	1.57	0.86	0.357		
4T-2580/2523	38.5	37.5	61	64	0.8	1.3	9.1	0.27	2.19	1.21	0.455		
4T-2582/2523	44	37.5	61	64	3.5	1.3	9.1	0.27	2.19	1.21	0.452		
4T-3188/3120	40	39.5	61	67	0.8	3.3	9.9	0.33	1.80	0.99	0.606		
4T-3193/3120	45.5	39.5	61	67	3.5	3.3	9.9	0.33	1.80	0.99	0.605		
4T-02875/02820	45.5	39.5	62	68	3.5	3.3	3.9	0.45	1.32	0.73	0.453		
4T-2879/2820	39.5	38.5	63	68	0.8	3.3	5.5	0.37	1.63	0.90	0.466		
4T-HM88542/HM88510	45.5	42.6	59	70	1.3	3.3	6.0	0.55	1.10	0.60	0.622		
4T-HM88542/HM88512	45.5	42.6	60	70	1.3	3.3	6.0	0.55	1.10	0.60	0.638		
4T-HM89440/HM89410	45.5	44.3	62	73	0.8	3.3	5.8	0.55	1.10	0.60	0.686		
4T-3476/3420	43	41	67	74	1.3	3.3	8.7	0.37	1.64	0.90	0.772		
4T-M88048/M88010	42.5	41.2	58	65	0.8	1.5	2.9	0.55	1.10	0.60	0.379		
4T-14130/14276	46.5	40	60	63	3.5	1.3	4.1	0.38	1.57	0.86	0.345		
4T-2585/2523	45	39	61	64	3.5	1.3	9.1	0.27	2.19	1.21	0.436		
4T-3196/3120	47	40.5	61	67	3.5	3.3	9.9	0.33	1.80	0.99	0.584		
4T-HM88547/HM88510	45.5	42.6	59	70	0.8	3.3	6.0	0.55	1.10	0.60	0.603		
4T-2785/2720	46	40	66	70	3.5	3.3	7.8	0.30	1.98	1.09	0.548		
4T-HM89443/HM89410	46.5	44.3	62	73	0.8	3.3	5.8	0.55	1.10	0.60	0.667		
4T-HM89444/HM89410	53	44.3	62	73	3.8	3.3	5.8	0.55	1.10	0.60	0.665		
4T-43131/43312	51	42.1	67	74	3.5	1.5	1.4	0.67	0.90	0.49	0.568		
4T-LM48548/LM48510	48	41.5	58	61	*	1.3	3.7	0.38	1.59	0.88	0.25		
4T-LM48548A/LM48510	40.5	42.2	58	61	0.8	1.3	3.7	0.38	1.59	0.88	0.252		
4T-14137A/14276	43.5	41.5	60	63	1.5	1.3	4.1	0.38	1.57	0.86	0.334		
4T-HM88649/HM88610	48.5	42.5	60	69	2.3	2.3	4.6	0.55	1.10	0.60	0.489		
4T-16137/16284	47	40.5	63	67	3.5	1.3	4.2	0.40	1.49	0.82	0.37		
4T-02877/02820	48.5	42	62	68	3.5	3.3	3.9	0.45	1.32	0.73	0.423		
4T-02878/02820	42.5	42	62	68	0.8	3.3	3.9	0.45	1.32	0.73	0.426		
4T-2878/2820	42	41	63	68	0.8	3.3	5.5	0.37	1.63	0.90	0.435		
4T-25877/25820	43	40.5	64	68	1.5	2.3	8.1	0.29	2.07	1.14	0.47		
4T-25877/25821	43	40.5	65	68	1.5	0.8	8.1	0.29	2.07	1.14	0.473		
4T-2793/2735X	42	41	66	69	0.8	0.8	7.8	0.30	1.98	1.09	0.444		
4T-2793/2720	42	41	66	70	0.8	3.3	7.8	0.30	1.98	1.09	0.534		

1) Chamfer dimensions of the bearings marked "*" are shown in the above drawings.