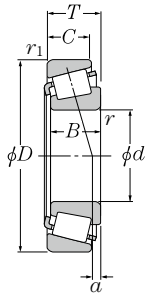
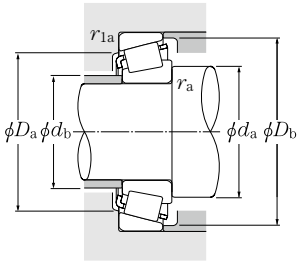
Inch series



d 12.700 ～ 22.225mm

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
12.700	34.988	10.998	10.988	8.730	13.7	11.6	12 000	16 000
14.989	34.988	10.998	10.988	8.730	13.7	11.6	12 000	16 000
15.875	41.275	14.288	14.681	11.112	22.6	18.7	10 000	13 000
	42.862	14.288	14.288	9.525	19.5	17.5	8 700	12 000
	42.862	16.670	16.670	13.495	29.6	26.0	9 800	13 000
	47.000	14.381	14.381	11.112	26.6	24.2	8 600	11 000
	49.225	19.845	21.539	14.288	42.5	39.0	8 500	11 000
16.993	47.000	14.381	14.381	11.112	26.6	24.2	8 600	11 000
17.462	39.878	13.843	14.605	10.668	26.4	24.2	10 000	13 000
19.050	39.992	12.014	11.153	9.525	14.2	12.8	10 000	13 000
	45.237	15.494	16.637	12.065	31.5	28.6	8 900	12 000
	47.000	14.381	14.381	11.112	26.6	24.2	8 600	11 000
	49.225	18.034	19.050	14.288	42.5	39.0	8 500	11 000
	49.225	19.845	21.539	14.288	42.5	39.0	8 500	11 000
	49.225	21.209	19.050	17.462	42.5	39.0	8 500	11 000
	53.975	22.225	21.839	15.875	44.5	39.0	8 000	11 000
	56.896	19.368	19.837	15.875	47.5	46.5	7 200	9 600
19.987	47.000	14.381	14.381	11.112	26.6	24.2	8 600	11 000
20.000	50.005	13.495	14.260	9.525	28.8	27.9	7 500	10 000
20.625	49.225	19.845	21.539	14.288	42.5	39.0	8 500	11 000
20.638	49.225	19.845	19.845	15.875	41.5	39.0	8 200	11 000
21.430	50.005	17.526	18.288	13.970	42.0	39.0	8 000	11 000
21.986	45.974	15.494	16.637	12.065	33.0	34.0	8 400	11 000
22.225	50.005	13.495	14.260	9.525	28.8	27.9	7 500	10 000
	50.005	17.526	18.288	13.970	42.0	39.0	8 000	11 000
	52.388	19.368	20.168	14.288	45.0	43.0	7 600	10 000
	53.975	19.368	20.168	14.288	45.0	43.0	7 600	10 000

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}.



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)	Installation-related dimensions mm						Load center mm	Constant	Axial load factors		Mass kg
	d_a	d_b	D_a	D_b	r_{as} Max.	r_{1as} Max.	a	e	Y_2	Y_0	(approx.)
4T-A4050/A4138	18.5	17	29	32	1.3	1.3	2.5	0.45	1.32	0.73	0.053
4T-A4059†/A4138	19.5	19	29	32	0.8	1.3	2.5	0.45	1.32	0.73	0.049
4T-03062/03162	21.5	20	34	37.5	1.3	2	5.4	0.31	1.93	1.06	0.093
4T-11590/11520	24.5	22.5	34.5	39.5	1.5	1.5	1.2	0.70	0.85	0.47	0.103
4T-17580/17520	23	21	36.5	39	1.5	1.5	5.8	0.33	1.81	1.00	0.123
4T-05062/05185	23.5	21	40.5	42.5	1.5	1.3	4.2	0.36	1.68	0.92	0.131
4T-09062/09195	22	21.5	42	44.5	0.8	1.3	9.4	0.27	2.26	1.24	0.203
4T-05066/05185	24.5	22	40.5	42.5	1.5	1.3	4.2	0.36	1.68	0.92	0.13
4T-LM11749/LM11710	24	22	34	37	1.3	1.3	5.3	0.29	2.10	1.15	0.084
4T-A6075/A6157	24	23	34	37	1	1.3	1.5	0.53	1.14	0.63	0.065
4T-LM11949/LM11910	25	23.5	39.5	41.5	1.3	1.3	5.6	0.30	2.00	1.10	0.123
4T-05075/05185	25	23.5	40.5	42.5	1.3	1.3	4.2	0.36	1.68	0.92	0.121
4T-09067/09195	25.5	24	42	44.5	1.3	1.3	7.6	0.27	2.26	1.24	0.179
4T-09078/09195	25.5	24	42	44.5	1.3	1.3	9.4	0.27	2.26	1.24	0.19
4T-09067/09196	25.5	24	41.5	44.5	1.3	1.5	7.6	0.27	2.26	1.24	0.198
4T-21075/21212††	31.5	26	43	50	1.5	2.3	5.6	0.59	1.02	0.56	0.248
4T-1775/1729	27	25	49	51	1.5	1.3	6.5	0.31	1.95	1.07	0.268
4T-05079†/05185	26.5	24	40.5	42.5	1.5	1.3	4.2	0.36	1.68	0.92	0.118
4T-07079/07196	27.5	26	44.5	47	1.5	1	3.0	0.40	1.49	0.82	0.138
4T-09081/09195	27.5	25.4	42	44.5	1.5	1.3	9.4	0.27	2.26	1.24	0.18
4T-12580/12520	28.5	26	42.5	45.5	1.5	1.5	7.1	0.32	1.86	1.02	0.183
4T-M12649/M12610	29.5	27.5	44	46	1.3	1.3	6.4	0.28	2.16	1.19	0.169
4T-LM12749†/LM12711††	27.5	26	40	42.5	1.3	1.3	5.4	0.31	1.96	1.08	0.123
4T-07087/07196	28.5	27	44.5	47	1.3	1	3.0	0.40	1.49	0.82	0.128
4T-M12648/M12610	28.5	26.5	44	46	1.3	1.3	6.4	0.28	2.16	1.19	0.165
4T-1380/1328	29.5	27	45	48.5	1.5	1.5	7.4	0.29	2.05	1.13	0.196
4T-1380/1329††	29.5	27	46	49	1.5	1.5	7.4	0.29	2.05	1.13	0.22

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.