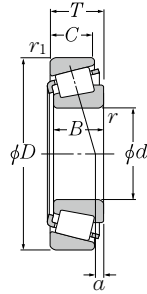


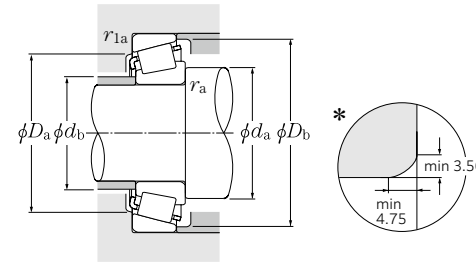
Inch series



a 44.450 ~ 47.625mm

d	Boundary dimensions				Basic load rating		Allowable speed	
	mm				dynamic C <sub>r</sub> kN	static C <sub>0r</sub>	Grease lubrication min <sup>-1</sup>	Oil lubrication
	D	T	B	C				
44.450	104.775	30.162	30.958	23.812	144	169	3 500	4 700
	104.775	36.512	36.512	28.575	153	189	3 600	4 800
	111.125	30.162	26.909	20.638	115	136	3 200	4 200
	111.125	30.162	26.909	20.638	115	136	3 200	4 200
	127.000	50.800	52.388	41.275	277	320	3 200	4 300
44.983	82.931	23.812	25.400	19.050	84.5	98.0	4 500	6 000
	93.264	30.162	30.302	23.812	113	134	4 000	5 300
45.000	85.000	20.638	21.692	17.462	77.5	79.5	4 400	5 800
	88.900	20.638	22.225	16.513	85.0	90.5	4 100	5 500
45.237	87.312	30.162	30.886	23.812	104	117	4 400	5 900
45.242	73.431	19.558	19.812	15.748	60.0	76.0	4 800	6 400
	77.788	19.842	19.842	15.080	63.5	73.5	4 600	6 200
45.618	82.550	23.812	25.400	19.050	84.5	98.0	4 500	6 000
	82.931	23.812	25.400	19.050	84.5	98.0	4 500	6 000
	83.058	23.876	25.400	19.114	84.5	98.0	4 500	6 000
	85.000	23.812	25.400	19.050	84.5	98.0	4 500	6 000
45.987	74.976	18.000	18.000	14.000	56.5	71.0	4 700	6 300
46.038	79.375	17.462	17.462	13.495	50.5	56.0	4 600	6 200
	82.931	23.812	25.400	19.050	84.5	98.0	4 500	6 000
	85.000	20.638	21.692	17.462	77.5	79.5	4 400	5 800
	85.000	25.400	25.608	20.638	87.5	104	4 400	5 800
	90.119	23.000	21.692	21.808	77.5	79.5	4 400	5 800
	93.264	30.162	30.302	23.812	113	134	4 000	5 300
	95.250	27.783	29.900	22.225	120	129	4 200	5 600
47.625	88.900	20.638	22.225	16.513	85.0	90.5	4 100	5 500
	88.900	25.400	25.400	19.050	91.0	101	4 200	5 600
	93.264	30.162	30.302	23.812	113	134	4 000	5 300
	95.250	30.162	29.370	23.020	120	147	4 000	5 300
	96.838	21.000	21.946	15.875	86.5	96.5	3 700	5 000
	101.600	34.925	36.068	26.988	150	165	3 800	5 000
	104.775	30.162	29.317	24.605	127	148	3 500	4 700

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 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. B-168



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 <sup>1)</sup>	Installation-related dimensions						Load center <sup>3)</sup> mm	Constant e	Axial load factors		Mass kg (approx.)
	mm								Y <sub>2</sub>	Y <sub>0</sub>	
	d <sub>a</sub>	d <sub>b</sub>	D <sub>a</sub>	D <sub>b</sub>	r <sub>as</sub> <sup>2)</sup> Max.	r <sub>1as</sub> Max.					
4T-45280/45220	55	54	93	99	0.8	3.3	7.9	0.33	1.80	0.99	1.33
4T-HM807040/HM807010	66	59	89	100	3.5	3.3	7.4	0.49	1.23	0.68	1.62
4T-55175C/55437	70	64	92	105	3.5	3.3	-7.4	0.88	0.68	0.37	1.45
4T-55176C/55437	71	65	92	105	0.8	3.3	-7.4	0.88	0.68	0.37	1.09
4T-6277/6220	67	60	108	117	3.5	3.3	19.5	0.30	2.01	1.11	3.59
4T-25584/25520	53	51	74	77	1.5	0.8	6.2	0.33	1.79	0.99	0.556
4T-3776/3720	59	53	82	87.9	3.5	3.3	8.3	0.34	1.77	0.97	0.95
4T-358/354A	53	50	77	80	1.5	1.3	5.1	0.31	1.96	1.08	0.505
4T-367/362A	55	51	81	84	2	1.3	4.0	0.32	1.88	1.03	0.6
4T-3586/3525	58	52	75	81	3.5	3.3	10.0	0.31	1.96	1.08	0.767
4T-LM102949/LM102910	56	50	68	70	3.5	0.8	4.7	0.31	1.97	1.08	0.309
4T-LM603049/LM603011	58	52	71	74	3.5	0.8	2.2	0.43	1.41	0.77	0.371
4T-25590/25519	58	51	73	77	3.5	2	6.2	0.33	1.79	0.99	0.534
4T-25590/25520	58	51	74	77	3.5	0.8	6.2	0.33	1.79	0.99	0.544
4T-25590/25522	58	51	73	77	3.5	2	6.2	0.33	1.79	0.99	0.545
4T-25590/25526	58	51	74	78	3.5	2.3	6.2	0.33	1.79	0.99	0.581
4T-LM503349A†/LM503310††	57	51	67	71	*	1.5	1.9	0.40	1.49	0.82	0.298
4T-18690/18620	56	51	71	74	2.8	1.5	2.2	0.37	1.60	0.88	0.331
4T-25592/25520	58	52	74	77	3.5	0.8	6.2	0.33	1.79	0.99	0.538
4T-359A/354A	57	51	77	80	3.5	1.3	5.1	0.31	1.96	1.08	0.489
4T-2984/2924	58	52	76	80	3.5	1.3	6.4	0.35	1.73	0.95	0.616
4T-359S/352	55	51	78	82	2.3	2.3	5.1	0.31	1.96	1.08	0.654
4T-3777/3720	60	53	82	87.9	3.5	3.3	8.3	0.34	1.77	0.97	0.934
4T-436/432	59	52	83	87	3.5	2.3	9.2	0.28	2.11	1.16	0.93
4T-369A/362A	60	53	81	84	3.5	1.3	4.0	0.32	1.88	1.03	0.564
4T-M804048/M804010	59	56	77	85	0.8	3.3	1.7	0.55	1.10	0.60	0.664
4T-3778/3720	67	55	82	87.9	6.4	3.3	8.3	0.34	1.77	0.97	0.896
4T-HM804846/HM804810	66	57	81	91	3.5	3.3	3.7	0.55	1.10	0.60	0.979
4T-386A/382A	56	55	89	92	0.8	0.8	3.1	0.35	1.69	0.93	0.719
4T-528/522	62	55	89	95	3.5	3.3	12.9	0.29	2.10	1.16	1.3
4T-463/453X	65	56	92	98	4.8	3.3	7.1	0.34	1.79	0.98	1.24

2) Chamfer dimensions of the bearings marked "\*" are shown in the above drawings.  
 3) Dimensions with "-" indicate a load center at the outside on the end of an inner ring. B-169