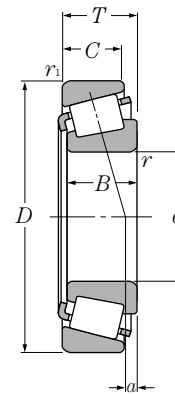


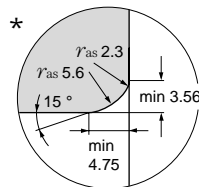
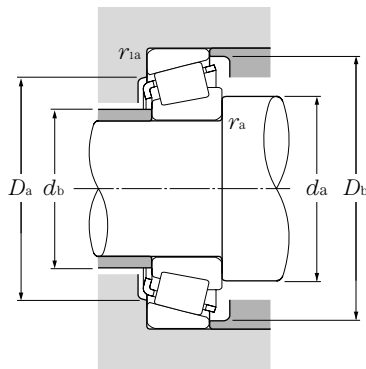
Inch system sizes  
J system series



**d 28.575 ~ 31.750mm**

d	Boundary dimensions				Basic load ratings				Limiting speeds	
	D	T	B	C	dynamic kN	static kN	dynamic kgf	static kgf	grease rpm	oil rpm
<b>28.575</b>	58.738	19.050	19.355	15.080	40.5	44.5	4,150	4,550	6,700	8,900
	60.325	19.842	17.462	15.875	39.5	45.5	4,050	4,650	6,700	8,900
	60.325	19.845	19.355	15.875	40.5	44.5	4,150	4,550	6,700	8,900
	62.000	19.050	20.638	14.288	46.5	54.0	4,750	5,500	6,100	8,200
	64.292	21.433	21.433	16.670	51.5	64.5	5,250	6,600	6,100	8,100
	66.421	23.812	25.433	19.050	64.5	72.5	6,550	7,400	6,200	8,200
	68.262	22.225	22.225	17.462	57.0	67.0	5,800	6,850	5,800	7,700
	68.262	22.225	23.812	17.462	57.5	65.5	5,850	6,700	5,700	7,700
	69.850	23.812	25.357	19.050	69.0	81.5	7,050	8,300	5,700	7,600
72.626	24.608	24.257	17.462	58.0	55.5	5,900	5,700	5,800	7,700	
73.025	22.225	22.225	17.462	56.5	68.0	5,750	6,900	5,300	7,000	
<b>29.000</b>	50.292	14.224	14.732	10.668	28.0	35.5	2,860	3,600	7,200	9,600
<b>29.367</b>	66.421	23.812	25.433	19.050	64.5	72.5	6,550	7,400	6,200	8,200
<b>29.987</b>	62.000	16.002	16.566	14.288	39.0	42.0	3,950	4,300	6,300	8,400
	62.000	19.050	20.638	14.288	46.5	54.0	4,750	5,500	6,100	8,200
<b>30.000</b>	69.012	19.845	19.583	15.875	48.5	58.0	4,900	5,900	5,600	7,400
	72.000	29.370	27.783	23.020	72.0	97.0	7,350	9,850	5,400	7,100
<b>30.112</b>	62.000	19.050	20.638	14.288	46.5	54.0	4,750	5,500	6,100	8,200
<b>30.162</b>	62.000	16.002	16.566	14.288	39.0	42.0	3,950	4,300	6,300	8,400
	64.292	21.433	21.433	16.670	51.5	64.5	5,250	6,600	6,100	8,100
	69.850	23.812	25.357	19.050	69.0	81.5	7,050	8,300	5,700	7,600
	72.626	30.162	29.997	23.812	84.5	98.0	8,600	9,950	5,500	7,300
<b>30.213</b>	62.000	19.050	20.638	14.288	46.5	54.0	4,750	5,500	6,100	8,200
	62.000	19.050	20.638	14.288	46.5	54.0	4,750	5,500	6,100	8,200
	62.000	19.050	20.638	14.288	46.5	54.0	4,750	5,500	6,100	8,200
<b>30.226</b>	69.012	19.845	19.583	15.875	48.5	58.0	4,900	5,900	5,600	7,400
	69.012	19.845	19.583	15.875	48.5	58.0	4,900	5,900	5,600	7,400
<b>31.750</b>	59.131	15.875	16.764	11.811	34.5	41.0	3,500	4,150	6,300	8,400
	62.000	18.161	19.050	14.288	46.5	54.0	4,750	5,500	6,100	8,200
	62.000	19.050	20.638	14.288	46.5	54.0	4,750	5,500	6,100	8,200

Note: 1. With regard to the chamfer dimensions on the back face of the inner and outer rings, installation dimensions  $r_{i1}$  and  $r_{o1}$  are larger than the maximum value.  
2. For the inner bore diameter of bearings with bearing numbers marked "+" (inner ring), this value applies only to high precision class types, Class 4 and 2.



### Equivalent bearing load

**dynamic**  
 $P_r = XF_r + YF_a$

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

**static**

$P_{or} = 0.5F_r + Y_o F_a$

When  $P_{or} < F_r$  use  $P_{or} = F_r$

For values of  $e$ ,  $Y_2$  and  $Y_o$  see the table below.

Bearing numbers	Abutment and fillet dimensions						Load center mm	Constant	Axial load factors		Mass kg
	mm								$a$	$e$	
	$d_a$	$d_b$	$D_a$	$D_b$	$r_{as}$ max	$r_{1as}$ max					(approx.)
4T-1985/1932	34	33.5	52	54	0.8	1.3	5.9	0.33	1.82	1.00	0.23
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	0.255
4T-15112/15245	40	34	55	58	3.5	1.3	6.0	0.35	1.71	0.94	0.277
4T-M86647/M86610	40	38	54	61	1.5	1.5	3.3	0.55	1.10	0.60	0.348
4T-2689/2631	36	34	58	60	1.3	1.3	9.3	0.25	2.36	1.30	0.416
4T-02474/02420	36.5	36	59	63	0.8	1.5	5.2	0.42	1.44	0.79	0.409
4T-2474/2420	36	35	60	63	0.8	1.5	6.5	0.34	1.77	0.97	0.41
4T-2578/2523	39	35	61	64	2.3	1.3	9.1	0.27	2.19	1.21	0.483
4T-41125/41286	48	36.5	61	68	4.8	1.5	3.7	0.60	1.00	0.55	0.477
4T-02872/02820	37.5	37	62	68	0.8	3.3	3.9	0.45	1.32	0.73	0.48
4T-L45449/L45410	39.5	33	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	0.406
4T-17118†/17244	37	34.5	54	57	1.5	1.5	3.3	0.38	1.57	0.86	0.228
4T-15117†/15245	36.5	35	55	58	1.3	1.3	6.0	0.35	1.71	0.94	0.269
4T-14117A/14276	42.5	39.5	60	63	3.5	1.3	4.1	0.38	1.57	0.86	0.369
#4T-JHM88540/JHM88513	44.5	42.5	58	69	1.3	3.3	6.0	0.55	1.10	0.60	0.619
4T-15116/15245	36	35.5	55	58	0.8	1.3	6.0	0.35	1.71	0.94	0.268
4T-17119/17244	37	34.5	54	57	1.5	1.5	3.3	0.38	1.57	0.86	0.226
4T-M86649/M86610	41	38	54	61	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	0.468
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	41.5	35.5	55	58	3.5	1.3	6.0	0.35	1.71	0.94	0.265
4T-15119/15245	37.5	35.5	55	58	1.5	1.3	6.0	0.35	1.71	0.94	0.267
4T-15120/15245	36	35.5	55	58	0.8	1.3	6.0	0.35	1.71	0.94	0.267
4T-14116/14274	37	36.5	59	63	0.8	3.3	4.1	0.38	1.57	0.86	0.366
4T-14116/14276	37	36.5	60	63	0.8	1.3	4.1	0.38	1.57	0.86	0.37
4T-LM67048/LM67010	42.5	36	52	56	*	1.3	2.8	0.41	1.46	0.80	0.182
4T-15123/15245	42.5	36.5	55	58	*	1.3	5.1	0.35	1.71	0.94	0.244
4T-15125/15245	42.5	36.5	55	58	3.5	1.3	6.0	0.35	1.71	0.94	0.253

Note: 3. Bearing numbers marked " #" designate **J-series** bearings. The tolerances of these bearings is listed in **Table 6.6** on **page A-40**.

4. Chamfer dimensions of bearings marked "\*" are shown in drawings.