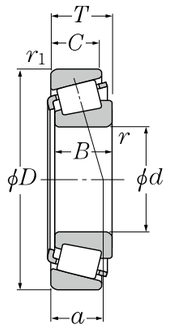
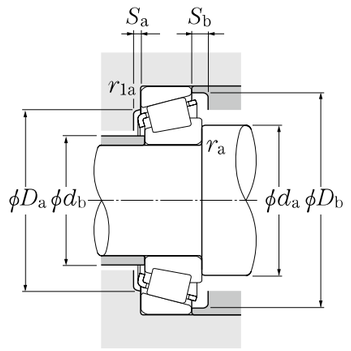
Metric series



d 110 ～ 140mm

d	D	T	B	C	$r_{s\,min}$ [1]	$r_{ls\,min}$ [1]	Basic load rating dynamic C_r kN	Basic load rating static C_{0r} kN	Fatigue load limit C_u kN	Allowable speed min^{-1} Grease lubrication	Allowable speed min^{-1} Oil lubrication	Bearing number [2] [3]
110	170	47	47	37	2.5	2	320	500	55.5	2 000	2 700	**33022U**
	180	56	56	43	2.5	2.5	400	610	66.5	1 900	2 600	**33122UE1**
	200	41	38	32	3	2.5	360	435	46.5	1 800	2 400	**30222U**
	200	56	53	46	3	2.5	465	605	65.0	1 800	2 400	**32222U**
	240	54.5	50	42	4	3	530	585	60.0	1 600	2 200	**30322U**
	240	63	57	38	4	3	480	535	55.0	1 600	2 200	**31322XU**
	240	84.5	80	65	4	3	785	970	99.5	1 600	2 200	**32322U**
120	165	29	29	23	1.5	1.5	180	294	32.0	2 000	2 600	**32924XU**
	165	29	27	23	1.5	1.5	131	205	22.5	2 000	2 600	○**32924**
	170	27	25	19.5	3	2	171	235	—	1 900	2 600	**4T-T4CB120**
	180	38	38	29	2.5	2	272	420	45.5	1 800	2 500	**32024XU**
	180	48	48	38	2.5	2.5	325	520	56.5	1 800	2 500	**33024U**
	200	62	62	48	2.5	2.5	510	760	80.5	1 800	2 300	**33124U**
	215	43.5	40	34	3	2.5	385	470	49.0	1 700	2 200	**30224U**
	215	61.5	58	50	3	2.5	510	680	71.5	1 700	2 200	**32224U**
	260	59.5	55	46	4	3	620	695	69.5	1 500	2 000	**30324U**
	260	68	62	42	4	3	570	655	66.0	1 500	2 000	**31324XU**
	260	90.5	86	69	4	3	905	1 130	114	1 500	2 000	**32324U**
130	180	32	32	25	2	1.5	215	350	37.5	1 800	2 400	**32926XU**
	180	32	30	26	2	2	157	252	26.9	1 800	2 400	○**32926**
	200	45	45	34	2.5	2	350	545	57.0	1 700	2 200	**32026XU**
	200	55	55	43	2.5	2.5	415	660	69.5	1 700	2 300	**33026U**
	230	43.75	40	34	4	3	415	505	51.5	1 500	2 000	**30226U**
	230	67.75	64	54	4	3	585	815	83.5	1 500	2 000	**32226U**
	280	63.75	58	49	5	4	830	830	81.0	1 400	2 000	＊ **30326UUTG**
	280	72	66	44	5	4	670	780	77.0	1 400	1 800	**31326XU**
	280	98.75	93	78	4	4	1 140	1 240	122	1 400	2 000	＊ **32326UTG**
140	190	32	32	25	2	1.5	221	375	39.0	1 700	2 200	**32928XU**
	195	29	27	21	3	3	208	299	—	1 700	2 200	**4T-T4CB140**
	210	45	45	34	2.5	2	365	580	60.0	1 600	2 100	**32028XU**
	210	56	56	44	2.5	2	435	715	74.0	1 600	2 100	**33028U**
	250	45.75	42	36	4	3	465	570	57.0	1 400	1 900	**30228U**
	250	71.75	68	58	4	3	675	920	92.0	1 400	1 900	**32228U**
	300	67.75	62	53	5	4	945	950	91.5	1 300	1 800	＊ **30328UUTG**
	300	77	70	47	5	4	760	905	87.0	1 300	1 700	**31328XU**
	300	107.75	102	85	4	4	1 270	1 370	132	1 300	1 800	＊ **32328UTG**

1) Smallest allowable dimension for chamfer dimension r or r_1. 2) Bearings with a ○ mark do not incorporate the subunit dimensions.
3) Bearing numbers marked "＊" designate ULTAGE series bearings.



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.

ISO Dimension series	d_a Min.	d_b Max.	D_a Max.	D_a Min.	D_b Min.	S_a Min.	S_b Min.	r_{as} Max.	r_{1as} Max.	Load center a mm	Constant e	Axial load factors Y_2	Axial load factors Y_0	Mass (approx.) kg
2DE	122	121	160	148	162	7	10	2	2	33.5	0.29	2.09	1.15	3.84
3FE	122	121.5	170	150.5	174	9	13	2	2.5	44	0.42	1.43	0.79	5.52
3FB	124	128	188	170.5	188.5	6	9	2.5	2	40	0.42	1.43	0.79	5.19
3FC	124	125.5	188	167	192	6	10	2.5	2	47	0.42	1.43	0.79	7.44
2GB	128	141	226	203	222	6	12.5	3	2.5	45.5	0.35	1.74	0.96	11.1
7GB	128	137	226	184	225.5	7	25	3	2.5	76	0.83	0.73	0.40	11.9
2GD	128	136.5	226	195	224	6	19.5	3	2.5	57.5	0.35	1.74	0.96	17.6
2CC	128.5	129.5	156.5	150	160	6	6	1.5	1.5	29.5	0.35	1.72	0.95	1.76
	128.5	129.5	156.5	147.5	159.5	6	6	1.5	1.5	31	0.37	1.60	0.88	1.65
4CB	134	128.5	156	153	165	7	7.5	2.5	2.5	35	0.47	1.27	0.70	1.69
4DC	132	131	170	156	174.5	7	9	2	2	39	0.46	1.31	0.72	3.29
2DE	132	130	170	157	172	6	10	2	2.5	36	0.31	1.97	1.08	4.14
3FE	132	132.5	190	168	193	9	14	2	2.5	48	0.40	1.51	0.83	7.67
4FB	134	139.5	203	184.5	203	6	9.5	2.5	2	44	0.44	1.38	0.76	6.32
4FD	134	135.5	203	178	206	6	11.5	2.5	2	51.5	0.44	1.38	0.76	9.08
2GB	138	153	246	218	239	6	13.5	3	2.5	49	0.35	1.74	0.96	14.1
7GB	138	147	246	200	245	9	26	3	2.5	82.5	0.83	0.73	0.40	15.2
2GD	138	146.5	246	210	240.5	6	21.5	3	2.5	61.5	0.35	1.74	0.96	22.1
2CC	140	140.5	171.5	163	174	6	7	2	1.5	31.5	0.34	1.77	0.97	2.41
	140	141.5	170	161.5	174	6	6	2	2	34	0.37	1.60	0.88	2.24
4EC	142	144	190	173.5	193.5	8	11	2	2	43.5	0.43	1.38	0.76	5
2FE	142	143	190	173.5	193	8	12	2	2.5	42.5	0.34	1.76	0.97	6.09
4FB	148	151	216	199.5	218	7	9.5	3	2.5	45.5	0.44	1.38	0.76	7.05
4FD	148	147	216	190	220.5	7	13.5	3	2.5	57	0.44	1.38	0.76	11.3
2GB	152	165.5	262	235	257.5	8	14.5	4	3	53.5	0.35	1.74	0.96	17.4
7GB	152	154	262	214.5	263	9	28	4	3	87.5	0.83	0.73	0.40	19
	148	159	262	230	264	2.4	20	3	3	67.5	0.35	1.73	0.95	27.4
2CC	150	150	181.5	172.5	184	6	6	2	1.5	34	0.36	1.67	0.92	2.5
4CB	154	149	181	176	190	5	8	2.5	2.5	40.5	0.50	1.19	0.66	2.35
4DC	152	153	200	182.5	203	8	11	2	2	46	0.46	1.31	0.72	5.32
2DE	152	152	200	182.5	203	7	12	2	2	45.5	0.36	1.67	0.92	6.59
4FB	158	163	236	214	235	7	9.5	3	2.5	48.5	0.44	1.38	0.76	8.73
4FD	158	158.5	236	207	239.5	9	13.5	3	2.5	61	0.44	1.38	0.76	14.2
2GB	162	175.5	282	252	275.5	9	14.5	4	3	56.5	0.35	1.74	0.96	21.1
7GB	162	162.5	282	232	282.5	9	30	4	3	94	0.83	0.73	0.40	22.9
	158	168.5	282	244	281	1.5	20	3	3	74.5	0.35	1.73	0.95	33.5