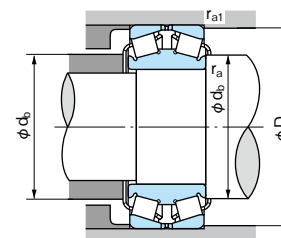
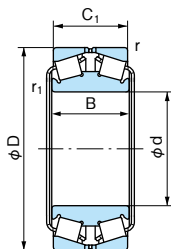


Double-row Tapered Roller Bearings - Inward

Bore Diameter: 110~360mm



Dynamic equivalent radial load
 $P_r = XFr + YFa$

$\frac{Fa}{Fr} \leq e$		$\frac{Fa}{Fr} > e$	
X	Y	X	Y
1	Y ₁	0.67	Y ₂

Values e, Y₁, and Y₂ from table.

Static equivalent radial load
 $P_0 = Fr + Y_0 Fa$

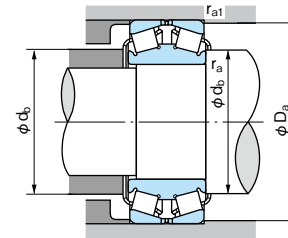
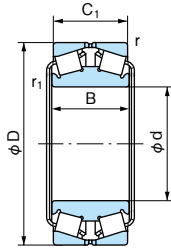
Values Y₀ from table.

1N=0.102kgf

Boundary dimensions (mm)						Bearing No.	Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Abutment and fillet dimensions (mm)				Constant e	Axial load factor			Mass (kg)	Bearing No.
d	D	B	C ₁	r (min)	r ₁ (min)				d _b (min)	D _a (min)	r _a (max)	r _{a1} (max)		Y ₁	Y ₂	Y ₀		
110	180	56	56	2	2.5	110KBD031	300000	505000	128	160	2	2	0.35	1.95	2.90	1.91	5.40	110KBD031
	180	46	46	2	2.5	120KBD030	229000	424000	138	163	2	2	0.26	2.55	3.80	2.50	4.08	120KBD030
120	200	62	62	2	2.5	120KBD031	353000	598000	142	178	2	2	0.35	1.95	2.90	1.91	7.92	120KBD031
	200	52	52	2	2.5	130KBD030	300000	548000	152	179	2	2	0.27	2.47	3.67	2.41	5.96	130KBD030
130	210	64	64	2	2.5	130KBD031	412000	657000	153	185	2	2	0.36	1.87	2.79	1.83	8.41	130KBD031
	210	53	53	2	2.5	140KBD030	311000	564000	159	188	2	2	0.27	2.47	3.67	2.41	6.45	140KBD030
140	225	68	68	2.5	3	140KBD031	486000	807000	160	210	2	2.5	0.40	1.68	2.50	1.64	10.0	140KBD031
	225	56	56	2.5	3	150KBD030	355000	686000	174	203	2	2.5	0.26	2.55	3.80	2.50	7.78	150KBD030
150	250	80	80	2.5	3	150KBD031	593000	955000	179	220	2	2.5	0.35	1.95	2.90	1.91	15.5	150KBD031
	240	60	60	2.5	3	160KBD030	421000	705000	184	217	2	2.5	0.24	2.79	4.15	2.73	9.22	160KBD030
160	270	86	86	2.5	3	160KBD031	678000	1100000	193	237	2	2.5	0.35	1.95	2.90	1.91	19.8	160KBD031
	260	67	67	2.5	3	170KBD030	521000	956000	195	233	2	2.5	0.31	2.21	3.29	2.16	12.4	170KBD030
170	280	88	88	2.5	3	170KBD031	723000	1210000	201	247	2	2.5	0.33	2.03	3.02	1.98	21.6	170KBD031
	280	74	74	2.5	3	180KBD030	575000	1050000	208	250	2	2.5	0.28	2.43	3.61	2.37	16.8	180KBD030
180	300	96	96	3	4	180KBD031	860000	1370000	210	263	2.5	3	0.35	1.95	2.90	1.91	26.5	180KBD031
	290	75	75	2.5	3	190KBD030	599000	1130000	219	260	2	2.5	0.26	2.55	3.80	2.50	17.7	190KBD030
190	320	104	104	3	4	190KBD031	981000	1590000	224	280	2.5	3	0.35	1.95	2.90	1.91	34.0	190KBD031
	310	82	82	2.5	3	200KBD030	728000	1410000	234	280	2	2.5	0.26	2.55	3.80	2.50	22.9	200KBD030
200	340	112	112	3	4	200KBD031	1080000	1840000	244	300	2.5	3	0.35	1.95	2.90	1.91	41.9	200KBD031
	340	90	90	3	4	220KBD030	804000	1460000	259	306	2.5	3	0.28	2.43	3.61	2.37	28.5	220KBD030
220	370	120	120	4	5	220KBD031	1210000	2060000	263	324	3	4	0.35	1.95	2.90	1.91	50.8	220KBD031
	360	92	90	3	4	240KBD030	915000	1790000	271	325	2.5	3	0.32	2.12	3.15	2.07	32.2	240KBD030
240	400	128	128	4	5	240KBD031	1430000	2470000	286	354	3	4	0.35	1.95	2.90	1.91	65.4	240KBD031
	400	104	104	4	5	260KBD030	1140000	2120000	302	360	3	4	0.25	2.74	4.08	2.68	48.1	260KBD030
260	440	144	144	4	5	260KBD031	1890000	3440000	313	386	3	4	0.35	1.95	2.90	1.91	92.2	260KBD031
	420	106	106	4	5	280KBD030	1190000	2470000	321	370	3	4	0.25	2.69	4.00	2.63	51.9	280KBD030
300	460	118	118	4	5	300KBD030	1610000	3150000	350	418	3	4	0.25	2.74	4.08	2.68	78.5	300KBD030
	500	160	160	5	6	300KBD031	2120000	4240000	356	440	4	5	0.35	1.95	2.90	1.91	129	300KBD031
320	480	121	121	4	5	320KBD030	1630000	3180000	368	434	3	4	0.26	2.55	3.80	2.50	77.8	320KBD030
	540	176	176	5	6	320KBD031	2690000	5280000	378	474	4	5	0.32	2.12	3.15	2.07	167	320KBD031
340	580	190	190	5	6	340KBD031	3290000	5470000	401	515	4	5	0.32	2.12	3.15	2.07	202	340KBD031
	540	134	134	5	6	360KBD030	2050000	3910000	408	488	4	5	0.32	2.12	3.15	2.06	101	360KBD030
360	600	192	192	5	6	360KBD031	3360000	6750000	419	528	4	5	0.32	2.12	3.15	2.06	228	360KBD031

Double-row Tapered Roller Bearings - Inward

Bore Diameter: 380~500mm



Dynamic equivalent radial load
 $P_r = XFr + YFa$

$\frac{Fa}{Fr} \leq e$		$\frac{Fa}{Fr} > e$	
X	Y	X	Y
1	Y_1	0.67	Y_2

Values e, Y_1 , and Y_2 from table.

Static equivalent radial load

$P_0 = Fr + Y_0 Fa$
 Values Y_0 from table.

1N=0.102kgf

Boundary dimensions (mm)						Bearing No.	Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Abutment and fillet dimensions (mm)				Constant e	Axial load factor			Mass (kg)	Bearing No.
d	D	B	C ₁	r (min)	r ₁ (min)				d _b (min)	D _a (min)	r _a (max)	r _{a1} (max)		Y ₁	Y ₂	Y ₀		
380	560	135	135	5	6	380KBD030	2060000	3790000	428	510	4	5	0.27	2.47	3.67	2.41	112	380KBD030
	620	194	194	5	6	380KBD031	3070000	6360000	445	545	4	5	0.32	2.12	3.15	2.07	234	380KBD031
400	600	148	148	5	6	400KBD030	2410000	4960000	452	545	4	5	0.33	2.03	3.02	1.98	143	400KBD030
	650	200	200	6	6	400KBD031	3850000	7810000	458	580	5	5	0.39	1.74	2.59	1.70	265	400KBD031
420	700	224	224	6	6	420KBD031	4710000	8380000	488	623	5	5	0.39	1.74	2.59	1.70	352	420KBD031
440	650	157	157	6	6	440KBD030	2750000	5500000	500	592	5	5	0.28	2.43	3.61	2.37	182	440KBD030
	720	226	226	6	6	440KBD031	4990000	9130000	506	642	5	5	0.39	1.74	2.59	1.70	367	440KBD031
460	680	163	163	6	6	460KBD030	3000000	5660000	510	616	5	5	0.39	1.74	2.59	1.70	197	460KBD030
480	700	165	165	6	6	480KBD030	3060000	6710000	531	625	5	5	0.40	1.68	2.50	1.64	215	480KBD030
500	720	167	167	6	6	500KBD030	3430000	7350000	545	645	5	5	0.39	1.74	2.59	1.70	222	500KBD030