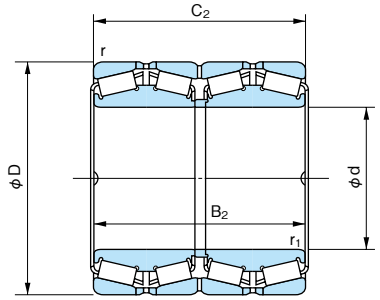
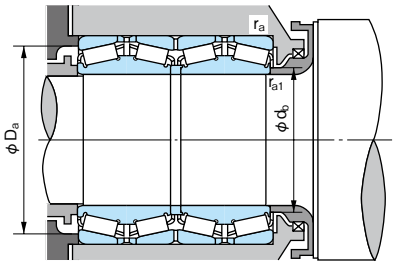
■ Four-row Tapered Roller Bearings

Metric Series

Bore Diameter: 100～500mm





■**Dynamic equivalent radial load**

Pr=XFr+YFa

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

Values of Y_1, Y_2 and e from table.

■**Static equivalent radial load**

Por=Fr+Y_0Fa

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)		r (min)	r1 (min)	Abutment and fillet dimensions (mm)				Constant e	Axial load factor			Mass (kg) Reference	Bearing No.
d		D		B2		C2								db	Da	ra (max)	ra1 (max)		Y1	Y2	Y0		
(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)																
100	3.9370	140	5.5118	104	4.0945	104	4.0945	100KBV039	300000	725000		2	2	108	130	2	2	0.32	2.12	3.15	2.07	5.0	100KBV039
110	4.3307	155	6.1023	114	4.4882	114	4.4882	110KBV039	365000	790000		2.5	2.5	120	145	2	2	0.40	1.68	2.50	1.64	6.4	110KBV039
120	4.7244	170	6.6929	124	4.8819	124	4.8819	120KBV039	435000	910000		2.5	2.5	130	160	2	2	0.32	2.12	3.15	2.07	8.5	120KBV039
130	5.1181	184	7.2441	134	5.2756	134	5.2756	130KBV039	555000	1330000		2.5	2.5	140	174	2	2	0.32	2.12	3.15	2.07	12.3	130KBV039
140	5.5118	198	7.7952	144	5.6693	144	5.6693	140KBV039	580000	1330000		2.5	2.5	153	184	2	2	0.29	2.32	3.45	2.26	13.3	140KBV039
150	5.9055	212	8.3465	155	6.1024	155	6.1024	150KBV039	680000	1550000		2.5	2.5	161	200	2	2	0.40	1.68	2.50	1.64	15.0	150KBV039
160	6.2992	226	8.8976	165	6.4961	165	6.4961	160KBV039	725000	1950000		2.5	2.5	173	208	2	2	0.35	1.95	2.90	1.91	20.2	160KBV039
170	6.6929	240	9.4488	175	6.8898	175	6.8898	170KBV039	915000	2220000		2.5	2.5	183	225	2	2	0.32	2.12	3.15	2.07	23.7	170KBV039
180	7.0866	254	10.0000	185	7.2835	185	7.2835	180KBV039	980000	2410000		2.5	2.5	193	235	2	2	0.40	1.68	2.50	1.64	28.0	180KBV039
190	7.4803	268	10.5512	196	7.7165	196	7.7165	190KBV039	1030000	2760000		2.5	2.5	204	245	2	2	0.47	1.43	2.12	1.40	33.0	190KBV039
200	7.8740	282	11.1024	206	8.1102	206	8.1102	200KBV039	1290000	3400000		2.5	2.5	215	263	2	2	0.40	1.68	2.50	1.64	49.2	200KBV039
220	8.6614	310	12.2047	226	8.8976	226	8.8976	220KBV039	1500000	4000000		3	3	234	296	2.5	2.5	0.35	1.95	2.90	1.91	52.7	220KBV039
240	9.4488	338	13.3071	248	9.7638	248	9.7638	240KBV039	1740000	4450000		3	3	260	310	2.5	2.5	0.29	2.32	3.45	2.26	68.3	240KBV039
260	10.2362	368	14.4882	268	10.5512	268	10.5512	260KBV039	2010000	5750000		4	4	282	348	3	3	0.33	2.03	3.02	1.98	90.0	260KBV039
280	11.0236	395	15.5512	288	11.3386	288	11.3386	280KBV039	2540000	7050000		4	4	300	374	3	3	0.33	2.03	3.02	1.98	108	280KBV039
300	11.8110	424	16.6929	310	12.2047	310	12.2047	300KBV039	2600000	6800000		4	4	320	394	3	3	0.35	1.95	2.90	1.91	137	300KBV039
320	12.5984	460	18.1102	338	13.3071	338	13.3071	320KBV039	3100000	8800000		4	4	340	428	3	3	0.35	1.95	2.90	1.91	183	320KBV039
340	13.3858	480	18.8976	350	13.7795	350	13.7795	340KBV039	3400000	10100000		5	5	362	458	4	4	0.29	2.32	3.45	2.26	198	340KBV039
360	14.1732	508	20.0000	370	14.5669	370	14.5669	360KBV039	4050000	11900000		5	5	382	486	4	4	0.40	1.68	2.50	1.64	233	360KBV039
380	14.9606	536	21.1024	390	15.3543	390	15.3543	380KBV039	4450000	13600000		5	5	408	500	4	4	0.40	1.68	2.50	1.64	271	380KBV039
400	15.7480	564	22.2047	412	16.2205	412	16.2205	400KBV039	4700000	14000000		5	5	422	542	4	4	0.36	1.87	2.79	1.83	317	400KBV039
420	16.5354	592	23.3071	432	17.0079	432	17.0079	420KBV039	4900000	14000000		5	5	450	556	4	4	0.36	1.87	2.79	1.83	366	420KBV039
440	17.3228	620	24.4094	454	17.8740	454	17.8740	440KBV039	6500000	19900000		6	6	474	574	5	5	0.33	2.03	3.02	1.98	422	440KBV039
460	18.1102	650	25.5906	474	18.6614	474	18.6614	460KBV039	6800000	19600000		6	6	488	622	5	5	0.33	2.03	3.02	1.98	487	460KBV039
480	18.8976	678	26.6929	494	19.4488	494	19.4488	480KBV039	7350000	22900000		6	6	515	637	5	5	0.33	2.02	3.01	1.97	552	480KBV039
500	19.6850	705	27.7559	515	20.2756	515	20.2756	500KBV039	7650000	24000000		6	6	528	677	5	5	0.33	2.03	3.02	1.98	650	500KBV039

Remarks: 1. Regarding four-row tapered roller bearings except above-listed, please contact NACHI.
2. When using four-row tapered roller bearings, please contact NACHI.