

4. Crossed roller bearings: series

4.1 CRBA

Series with split outer ring

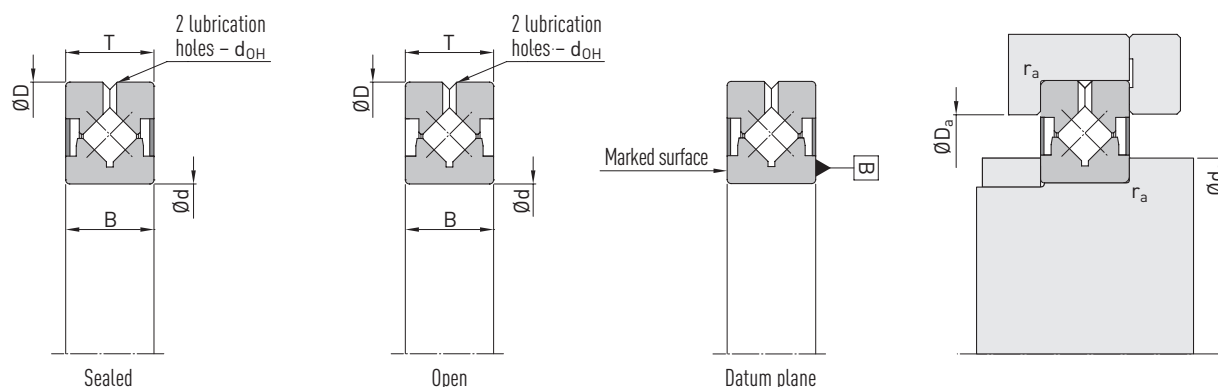


Table 4.1 CRBA specifications

Article number	Dimensions [mm]			Lubrication holes d_{OH}	Installation dim. [mm]			Load ratings [kN]				Max. idle torque [Nm] ²⁾	Max. speed [rpm]		Weight [kg]
	d ¹⁾	D ¹⁾	Width B, T		d_a	D_a	r_a (max)	Dyn. load rating C_{dyn}		Stat. load rating C_0			Grease	Oil	
								Radial	Axial	Radial	Axial				
CRBA 08016	80	120	16	$\varnothing 2.5$	92	109	0.6	30.2	67	44.8	102	0.63	600	800	0.70
CRBA 09016	90	130	16	$\varnothing 2.5$	104	120	1.0	30.8	68	47.4	108	0.70	540	720	0.80
CRBA 09020	90	140	20	$\varnothing 2.5$	104	120	1.0	39.7	88	60.2	136	0.95	520	700	1.20
CRBA 10016	100	140	16	$\varnothing 2.5$	112	129	1.0	32.5	72	52.3	118	0.80	500	660	0.84
CRBA 10020	100	150	20	$\varnothing 2.5$	117	132	1.0	40.4	90	63.6	144	1.05	480	640	1.38
CRBA 11020	110	160	20	$\varnothing 2.5$	126	143	1.0	42.7	95	70.2	159	1.20	440	590	1.50
CRBA 12016	120	150	16	$\varnothing 2.5$	126	143	1.0	28.1	62	50.3	114	0.75	440	590	0.74
CRBA 12020	120	170	20	$\varnothing 2.5$	136	153	1.5	44.9	100	76.9	175	1.30	410	550	2.10
CRBA 12025	120	180	25	$\varnothing 2.5$	138	158	1.5	66.3	147	109.0	246	2.02	400	530	2.60
CRBA 13025	130	190	25	$\varnothing 2.5$	148	168	1.5	67.8	150	114.8	261	2.20	375	500	2.70
CRBA 14025	140	200	25	$\varnothing 2.5$	161	178	1.5	69.5	154	120.6	274	2.40	350	470	2.84
CRBA 15025	150	210	25	$\varnothing 2.5$	168	188	1.5	73.1	162	131.9	300	2.70	330	440	3.60
CRBA 15030	150	230	30	$\varnothing 3.0$	181	198	1.5	114.3	254	187.3	425	4.40	310	420	5.26
CRBA 16025	160	220	25	$\varnothing 2.5$	181	198	1.5	74.5	165	137.7	313	2.90	310	420	3.32
CRBA 17020	170	220	20	$\varnothing 2.5$	183	203	1.5	52.3	116	103.6	235	2.10	300	410	2.12
CRBA 18025	180	240	25	$\varnothing 2.5$	198	218	1.5	79.6	177	154.8	352	3.40	285	380	3.54
CRBA 19025	190	240	25	$\varnothing 2.5$	203	223	1.0	54.5	121	113.6	258	2.40	280	370	2.90
CRBA 20025	200	260	25	$\varnothing 2.5$	218	238	2.0	82.3	183	166.4	378	3.85	260	340	4.16
CRBA 20030	200	280	30	$\varnothing 3.0$	231	248	2.0	122.9	273	242.0	550	6.40	250	330	4.12
CRBA 20035	200	295	35	$\varnothing 3.0$	238	258	2.0	155.9	346	277.4	630	7.40	240	320	9.58
CRBA 22025	220	280	25	$\varnothing 2.5$	237	259	2.0	86.3	192	183.5	417	4.40	240	320	4.14
CRBA 24025	240	300	25	$\varnothing 2.5$	257	279	2.0	90.5	201	200.6	456	5.00	220	290	4.50
CRBA 25025	250	310	25	$\varnothing 2.5$	267	289	2.0	91.6	203	206.4	469	5.20	210	285	4.64
CRBA 25030	250	330	30	$\square 5 \times 2$	280	299	2.0	142.0	315	286.2	650	8.40	200	275	8.20
CRBA 25040	250	355	40	$\varnothing 4.0$	289	311	2.0	207.0	460	391.8	890	12.80	200	260	14.40
CRBA 30025	300	360	25	$\varnothing 2.5$	317	339	2.5	100.6	223	246.5	560	7.00	180	240	5.46
CRBA 30035	300	395	35	$\varnothing 3.0$	337	359	2.5	191.6	426	407.8	927	13.50	170	230	5.80
CRBA 30040	300	405	40	$\varnothing 4.0$	339	361	2.5	227.0	504	465.8	1,058	16.50	170	220	17.00
CRBA 40035	400	480	35	$\varnothing 3.0$	426	447	2.5	219.4	487	523.9	1,190	20.00	135	180	13.86

¹⁾ d = Inner diameter; D = Outer diameter

²⁾ Measured at 30 rpm with grease filling (G05)

Note: The load ratings correspond to the standard ISO76/ISO281