



SKF CARB® Toroidal bearing Tapered bore

CARB® bearings are single row bearings with long, slightly barrel-shaped symmetrical rollers. The outer ring has a torus-shaped raceway with a profile radius extending beyond the centre of the bearing. The inner ring raceway is shaped accordingly. CARB® toroidal roller bearings combine the self-aligning capability of spherical roller bearings with the axial displacement ability of cylindrical roller bearings. CARB® bearings can also have the compact cross section and high load carrying capacity normally associated with needle roller bearings.

They are intended exclusively as non-locating bearings. They can simplify locating/non-locating bearing arrangements because thermal expansion of the shaft can be accommodated within the bearing virtually without friction. Bearing arrangements consisting of a spherical roller bearing in the locating position and a CARB® bearing in the non-locating position provide a space- and weight-saving bearing arrangement with a low cost of ownership. CARB® bearings can reduce noise and vibration levels, for example, in paper machines and fans.

Non-sealed basic design CARB® bearings

Depending on their series and size, standard CARB toroidal roller bearings are manufactured to one of the following basic designs: bearings with a cage and full complement bearings. The load carrying capacity of full complement CARB bearings is considerably higher than that of same-sized bearings with a cage. The majority of CARB bearings are available with either a cylindrical or tapered bore. Depending on the bearing series, the tapered bore has a taper of either 1:12 [designation suffix K] or 1:30 [designation suffix K30].

Characteristics

Series: CARB®

Bore: Tapered bore

With sealing: No

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
C 2207 KTN9/C3	35	72	23	C3	Polyamide	23760325
C 2209 KTN9/C3	45	85	23	C3	Polyamide	23760335
C 2209 KTN9	45	85	23	CN (normal)	Polyamide	23760334
C 2210 KTN9/C3	50	90	23	C3	Polyamide	23760341
C 2210 KTN9	50	90	23	CN (normal)	Polyamide	23760340
C 2211 KTN9/C3	55	100	25	C3	Polyamide	23760347
C 2211 KTN9	55	100	25	CN (normal)	Polyamide	23760346
C 2212 KTN9/C3	60	110	28	C3	Polyamide	23760353
C 2212 KTN9	60	110	28	CN (normal)	Polyamide	23760352
C 2213 KTN9/C3	65	120	31	C3	Polyamide	23760360
C 2213 KTN9/C4	65	120	31	C4	Polyamide	13199585
C 2213 KTN9	65	120	31	CN (normal)	Polyamide	23760359
C 2215 K/C3	75	130	31	C3	Steel	23760374
C 2215 K	75	130	31	CN (normal)	Steel	23760373
C 2315 K/C3	75	160	55	C3	Steel	23760428
C 2315 K/C4	75	160	55	C4	Steel	24003203
C 2315 K	75	160	55	CN (normal)	Steel	23760427
C 2216 K/C3	80	140	33	C3	Steel	23760380
C 2216 K/C4	80	140	33	C4	Steel	24003190
C 2216 K	80	140	33	CN (normal)	Steel	23760379
C 2316 K/C3	80	170	58	C3	Steel	23760432
C 2316 K/C4	80	170	58	C4	Steel	24003206
C 2316 K	80	170	58	CN (normal)	Steel	23760431
C 2217 K/C3	85	150	36	C3	Steel	23760386
C 2217 K/C4	85	150	36	C4	Steel	24003193
C 2217 K	85	150	36	CN (normal)	Steel	23760385

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Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
C 2317 K/C3	85	180	60	C3	Steel	23772548
C 2317 K	85	180	60	CN (normal)	Steel	12121172
C 2218 K/C3	90	160	40	C3	Steel	23760390
C 2218 K/C4	90	160	40	C4	Steel	24003194
C 2218 K	90	160	40	CN (normal)	Steel	23760389
C 2318 K/C3	90	190	64	C3	Steel	23760436
C 2318 K/C4	90	190	64	C4	Steel	24003208
C 2318 K	90	190	64	CN (normal)	Steel	23760435
C 2220 K/C3	100	180	46	C3	Steel	23760394
C 2220 K/C4	100	180	46	C4	Steel	24003196
C 2220 K	100	180	46	CN (normal)	Steel	23760393
C 2320 K/C3	100	215	73	C3	Steel	23760440
C 2320 K/C4	100	215	73	C4	Steel	24003210
C 2320 K	100	215	73	CN (normal)	Steel	23760439
C 2222 K/C3	110	200	53	C3	Steel	23760398
C 2222 K/C4	110	200	53	C4	Steel	24003198
C 2222 K	110	200	53	CN (normal)	Steel	23760397
C 3224 K/C3	120	215	76	C3	Steel	23760485
C 3224 K/C4	120	215	76	C4	Steel	24003238
C 3224 K	120	215	76	CN (normal)	Steel	23760484
C 2226 K/C3	130	230	64	C3	Steel	23760402
C 2226 K/C4	130	230	64	C4	Steel	24003200
C 2226 K/C5	130	230	64	C5	Steel	13199586
C 2226 K	130	230	64	CN (normal)	Steel	23760401
C 2228 K/C3	140	250	68	C3	Steel	23227890
C 2228 K	140	250	68	CN (normal)	Steel	23227881
C 3130 K	150	250	80	CN (normal)	Steel	13530020
C 2230 K/C3	150	270	73	C3	Steel	13530019
C 2230 K	150	270	73	CN (normal)	Steel	13530018
C 4032 K30/C3	160	240	80	C3	Steel	24003255
C 4032 K30/C4	160	240	80	C4	Steel	24003256
C 4032 K30/C4W4	160	240	80	C4	Steel	13199600
C 4032 K30	160	240	80	CN (normal)	Steel	24003254
C 3232 K/C3	160	290	104	C3	Steel	13199591
C 3232 K/C4	160	290	104	C4	Steel	13199592
C 3232 K	160	290	104	CN (normal)	Steel	13199590
C 3036 K/C3	180	280	74	C3	Steel	23760444
C 3036 K/HA3C4	180	280	74	C4	Steel	23228347
C 3036 K/C4	180	280	74	C4	Steel	24003211
C 3036 K	180	280	74	CN (normal)	Steel	23760443
C 3136 K/C3	180	300	96	C3	Steel	24003222
C 3136 K/C4	180	300	96	C4	Steel	24003223
C 3136 K	180	300	96	CN (normal)	Steel	24003221
C 3236 K	180	320	112	CN (normal)	Steel	23760489
C 3038 K/C3	190	290	75	C3	Steel	23760448
C 3038 K/C4	190	290	75	C4	Steel	24003213
C 3038 K	190	290	75	CN (normal)	Steel	23760447
C 3040 K/C3	200	310	82	C3	Steel	23760452
C 3040 K/HA3C4	200	310	82	C4	Steel	24211071
C 3040 K/C4	200	310	82	C4	Steel	24003215
C 3040 K	200	310	82	CN (normal)	Steel	23760451
C 3140 K/C3	200	340	112	C3	Steel	23760465
C 3140 K/C4	200	340	112	C4	Steel	24003225

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Manufacturer ID	Inner diameter	Outer diameter	Width	Internal clearance	Cage	Article
	mm	mm	mm			
C 3140 K/HA3C4	200	340	112	C4	Steel	24003226
C 3140 K	200	340	112	CN (normal)	Steel	23760464
C 3044 K/C3	220	340	90	C3	Steel	23760456
C 3044 K/C4	220	340	90	C4	Steel	24003216
C 3044 K/HA3C4	220	340	90	C4	Steel	23227603
C 3044 K	220	340	90	CN (normal)	Steel	23760455
C 3144 K/C3	220	370	120	C3	Steel	23760469
C 3144 K/HA3C4	220	370	120	C4	Steel	24003229
C 3144 K/C4	220	370	120	C4	Steel	24003228
C 3144 K	220	370	120	CN (normal)	Steel	23760468
C 3148 K/C3	240	400	128	C3	Steel	24003232
C 3148 K/C4	240	400	128	C4	Steel	24003233
C 3148 K/HA3C4	240	400	128	C4	Steel	24003234
C 3148 K	240	400	128	CN (normal)	Steel	24003231
C 3160 K/C3	300	500	160	C3	Steel	13828624
C 3164 KM	320	540	176	CN (normal)	Brass	13387229
						11617240
						13025571
						11617243
						11617350
						11617265
						11617071
						12661507
						24204787
						23228050
						23228053
						12121548
						24201907
						23756003
						24204262

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