



SKF CARB® Toroidal bearing Cylindrical 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: Cylindrical bore

With sealing: No

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
C 2206 TN9/C3	30	62	20	C3	Polyamide	23760321
C 2206 TN9	30	62	20	CN (normal)	Polyamide	23760320
C 2207 TN9/C3	35	72	23	C3	Polyamide	23760327
C 2207 TN9	35	72	23	CN (normal)	Polyamide	23760326
C 2208 TN9	40	80	23	CN (normal)	Polyamide	23760331
C 2209 TN9/C3	45	85	23	C3	Polyamide	23760337
C 2209 TN9	45	85	23	CN (normal)	Polyamide	23760336
C 4010 TN9	50	80	30	CN (normal)	Polyamide	13199593
C 2210 TN9/C3	50	90	23	C3	Polyamide	23760343
C 2210 TN9	50	90	23	CN (normal)	Polyamide	23760342
C 2211 TN9/C3	55	100	25	C3	Polyamide	23760349
C 2211 TN9	55	100	25	CN (normal)	Polyamide	23760348
C 2212 TN9/C3	60	110	28	C3	Polyamide	23760356
C 2212 TN9	60	110	28	CN (normal)	Polyamide	23760355
C 2213 TN9/C3	65	120	31	C3	Polyamide	23760364
C 2213 TN9	65	120	31	CN (normal)	Polyamide	23760363
C 2214 TN9/C3	70	125	31	C3	Polyamide	23760369
C 2214 TN9	70	125	31	CN (normal)	Polyamide	23760368
C 2314/C3	70	150	51	C3	Steel	23760425
C 2314/C4	70	150	51	C4	Steel	24003202
C 2314	70	150	51	CN (normal)	Steel	23760424
C 2215/C3	75	130	31	C3	Steel	23760377
C 2215/C4	75	130	31	C4	Steel	24003189
C 2215	75	130	31	CN (normal)	Steel	23760372
C 2315/C3	75	160	55	C3	Steel	23760429
C 2315/C4VG114	75	160	55	C4	Steel	24003205

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Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
C 2315/C4	75	160	55	C4	Steel	24003204
C 2315	75	160	55	CN (normal)	Steel	23760426
C 2216/C3	80	140	33	C3	Steel	23760383
C 2216/C4	80	140	33	C4	Steel	24003192
C 2216	80	140	33	CN (normal)	Steel	23760378
C 2316/C3	80	170	58	C3	Steel	23760433
C 2316/C4	80	170	58	C4	Steel	24003207
C 2316	80	170	58	CN (normal)	Steel	23760430
C 2217/C3	85	150	36	C3	Steel	23760387
C 2217	85	150	36	CN (normal)	Steel	23760384
C 2218/C3	90	160	40	C3	Steel	23760391
C 2218/C4	90	160	40	C4	Steel	24003195
C 2218	90	160	40	CN (normal)	Steel	23760388
C 2318/C3	90	190	64	C3	Steel	23760437
C 2318/C4	90	190	64	C4	Steel	24003209
C 2318	90	190	64	CN (normal)	Steel	23760434
C 2220/C3	100	180	46	C3	Steel	23760395
C 2220/C4	100	180	46	C4	Steel	24003197
C 2220	100	180	46	CN (normal)	Steel	23760392
C 2320/C3	100	215	73	C3	Steel	23760441
C 2320/C4	100	215	73	C4	Steel	13199587
C 2320	100	215	73	CN (normal)	Steel	23760438
C 4022 MB	110	170	60	CN (normal)	Brass	13199595
C 2222/C3	110	200	53	C3	Steel	23760399
C 2222/C4	110	200	53	C4	Steel	24003199
C 2222	110	200	53	CN (normal)	Steel	23760396
C 3224/C3	120	215	76	C3	Steel	23760486
C 3224/C4	120	215	76	C4	Steel	24003239
C 3224	120	215	76	CN (normal)	Steel	23760483
C 4026/C3	130	200	69	C3	Steel	24003247
C 4026/C4	130	200	69	C4	Steel	24003248
C 4026	130	200	69	CN (normal)	Steel	24003244
C 2226/C3	130	230	64	C3	Steel	23760403
C 2226/C4	130	230	64	C4	Steel	24003201
C 2226	130	230	64	CN (normal)	Steel	23760400
C 2228/C3	140	250	68	C3	Steel	23760407
C 2228	140	250	68	CN (normal)	Steel	23227858
C 2230/C3	150	270	73	C3	Steel	24206186
C 2230	150	270	73	CN (normal)	Steel	13530017
C 4032/C3	160	240	80	C3	Steel	24003263
C 4032/C4	160	240	80	C4	Steel	24003264
C 4032	160	240	80	CN (normal)	Steel	24003253
C 3232/C3	160	290	104	C3	Steel	23760487
C 3232	160	290	104	CN (normal)	Steel	13199589
C 3036/C3	180	280	74	C3	Steel	23760445
C 3036/C4	180	280	74	C4	Steel	24003212
C 3036	180	280	74	CN (normal)	Steel	23760442
C 3236/C3	180	290	104	C3	Steel	23760490
C 3136/C3	180	300	96	C3	Steel	24003224
C 3136	180	300	96	CN (normal)	Steel	24003220
C 3236	180	320	112	CN (normal)	Steel	23760488
C 3038/C3	190	290	75	C3	Steel	23760449
C 3038	190	290	75	CN (normal)	Steel	23760446

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Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
C 3040/C3	200	310	82	C3	Steel	23760453
C 3040	200	310	82	CN (normal)	Steel	23760450
C 3140/C3	200	340	112	C3	Steel	23760466
C 3140	200	340	112	CN (normal)	Steel	23760463
C 3044/C3	220	340	90	C3	Steel	23760457
C 3044/C4	220	340	90	C4	Steel	24003217
C 3044	220	340	90	CN (normal)	Steel	23760454
C 3144/C3	220	370	120	C3	Steel	23760470
C 3144	220	370	120	CN (normal)	Steel	23760467
C 3148/C3	240	400	128	C3	Steel	24003235
C 3148	240	400	128	CN (normal)	Steel	24003230
C 3156/C3	280	460	146	C3	Steel	23760478
C 3160	300	500	160	CN (normal)	Steel	23760479

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