



SKF CARB® Full complement toroidal roller bearing with 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

Bore: Cylindrical

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
C 6006 V	30	55	45	CN [normal]	Steel	C-6006V-SKF
C 2206 V	30	62	20	CN [normal]	Steel	C-2206V-SKF
C 2207 V	35	72	23	CN [normal]	Steel	C-2207V-SKF
C 4908 V	40	62	22	CN [normal]	Steel	C-4908V-SKF
C 2208 V/C3	40	80	23	C3	Steel	C-2208VC3-SKF
C 2208 V	40	80	23	CN [normal]	Steel	C-2208V-SKF
C 2209 V/C3	45	85	23	C3	Steel	C-2209VC3-SKF
C 2209 V	45	85	23	CN [normal]	Steel	C-2209V-SKF
C 4910 V	50	72	22	CN [normal]	Steel	C-4910V-SKF
C 6910 V/C3	50	72	40	C3	Steel	C-6910VC3-SKF
C 6910 V/C4S3	50	72	40	C4	Steel	C-6910V4S3-SKF
C 6910 V/C4	50	72	40	C4	Steel	C-6910V4-SKF
C 6910 V	50	72	40	CN [normal]	Steel	C-6910V-SKF
C 2210 V/C3	50	90	23	C3	Steel	C-2210VC3-SKF
C 2210 V	50	90	23	CN [normal]	Steel	C-2210V-SKF
C 2211 V/C3	55	100	25	C3	Steel	C-2211VC3-SKF
C 2211 V	55	100	25	CN [normal]	Steel	C-2211V-SKF
C 6912 V/C3	60	85	45	C3	Steel	C-6912VC3-SKF
C 6912 V/C4	60	85	45	C4	Steel	C-6912V4-SKF
C 6912 V/C4S3	60	85	45	C4	Steel	C-6912V4S3-SKF
C 6912 V	60	85	45	CN [normal]	Steel	C-6912V-SKF
C 2212 V/C3	60	110	28	C3	Steel	C-2212VC3-SKF
C 2212 V/C4	60	110	28	C4	Steel	C-2212V4-SKF
C 2212 V	60	110	28	CN [normal]	Steel	C-2212V-SKF
C 4013-2CS5V/ C3GEM9	65	100	35	C3	Steel	C-40132S5V3GM9-SKF
C 2213 V/C3	65	120	31	C3	Steel	C-2213VC3-SKF

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Manufacturer ID	Inner diameter	Outer diameter	Width	Internal clearance	Cage	Article
	mm	mm	mm			
C 2213 V/C4	65	120	31	C4	Steel	C-2213V4-SKF
C 2213 V	65	120	31	CN (normal)	Steel	C-2213V-SKF
C 2214 V/C3	70	125	31	C3	Steel	C-2214VC3-SKF
C 2214 V/C4	70	125	31	C4	Steel	C-2214V4-SKF
C 5915 V/C3	75	105	40	C3	Steel	C-5915VC3-SKF
C 5915 V/C4S3	75	105	40	C4	Steel	C-5915V4S3-SKF
C 5915 V/C4	75	105	40	C4	Steel	C-5915V4-SKF
C 5915 V	75	105	40	CN (normal)	Steel	C-5915V-SKF
C 6915 V/C4VE240	75	105	54	C4	Steel	C-6915V4V240-SKF
C 4015 V/C4	75	115	40	C4	Steel	C-4015V4-SKF
C 2215 V/C3	75	130	31	C3	Steel	C-2215VC3-SKF
C 2215 V/C4	75	130	31	C4	Steel	C-2215V4-SKF
C 2215 V	75	130	31	CN (normal)	Steel	C-2215V-SKF
C 2216 V/C3	80	140	33	C3	Steel	C-2216VC3-SKF
C 2216 V/C4	80	140	33	C4	Steel	C-2216V4-SKF
C 2216 V	80	140	33	CN (normal)	Steel	C-2216V-SKF
C 5918 V/C3	90	125	46	C3	Steel	C-5918VC3-SKF
C 5918 V/C4	90	125	46	C4	Steel	C-5918V4-SKF
C 5918-2CS5V/C4	90	125	46	C4	Steel	C-59182S5V4-SKF
C 5918 V	90	125	46	CN (normal)	Steel	C-5918V-SKF
C 4020 V/C3	100	150	50	C3	Steel	C-4020VC3-SKF
C 5020 V/C4	100	150	67	C4	Steel	C-5020V4-SKF
C 3120 V/C3	100	165	52	C3	Steel	C-3120VC3-SKF
C 3120 V/C4	100	165	52	C4	Steel	C-3120V4-SKF
C 3120 V	100	165	52	CN (normal)	Steel	C-3120V-SKF
C 4022 V/C4	110	170	60	C4	Steel	C-4022V4-SKF
C 4022 V	110	170	60	CN (normal)	Steel	C-4022V-SKF
C 4122 V/C3	110	180	69	C3	Steel	C-4122VC3-SKF
C 4122 V	110	180	69	CN (normal)	Steel	C-4122V-SKF
C 4024 V/C4	120	180	60	C4	Steel	C-4024VC4-SKF
C 4024 V/C4VM118	120	180	60	C4	Steel	C-4024V4VM118-SKF
C 4024 V	120	180	60	CN (normal)	Steel	C-4024V-SKF
C 4026 V/C3	130	200	69	C3	Steel	C-4026VC3-SKF
C 4026 V/C4	130	200	69	C4	Steel	C-4026VC4-SKF
C 4026 V	130	200	69	CN (normal)	Steel	C-4026V-SKF
C 4028 V/C3	140	210	69	C3	Steel	C-4028VC3-SKF
C 4028 V/C4	140	210	69	C4	Steel	C-4028VC4-SKF
C 4028 V/C4VM118	140	210	69	C4	Steel	C-4028V4VM118-SKF
C 4028 V	140	210	69	CN (normal)	Steel	C-4028V-SKF
C 4030 V/C3	150	225	75	C3	Steel	C-4030VC3-SKF
C 4030 V/C4	150	225	75	C4	Steel	C-4030V4-SKF
C 4030 V	150	225	75	CN (normal)	Steel	C-4030V-SKF
C 4032 V/C3	160	240	80	C3	Steel	C-4032VC3-SKF
C 4032 V/C4	160	240	80	C4	Steel	C-4032V4-SKF
C 4032 V	160	240	80	CN (normal)	Steel	C-4032V-SKF
C 3136 V	180	300	96	CN (normal)	Steel	C-3136V-SKF

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