CARB®
Compact Aligning Roller Bearings

C2222 KV TN9 / C3

1 2 3 4

1. Variations

K	Bearing with 1:12 tapered bore
K30	Bearing with 1:30 tapered bore

2.Internal Design

V	Full complement bearing (no cage)

3. Cage Designs

M	Machined brass cage, roller centred
MB	Machined brass cage, inner ring centred
TN9	Fibreglass reinforced Polyamide
No symbol	Window-type sheet steel cage

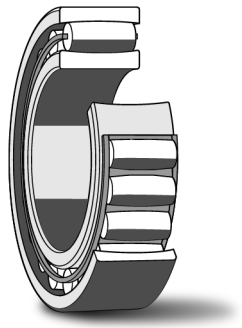
4. Clearance & Features

C2	Radial internal clearance < normal
C0	Normal internal clearance no symbol
C3	Radial internal clearance > normal
C4	Radial internal clearance > C3
HA3	Case hardened inner ring
HA4	Case hardened inner and outer rings and rollers
VE240	Bearing modified for greater axial displacement
2CS5	Hydrogenated Acrylonitrile rubber (HNBR) seals on both sides filled with Polyurea high temperature grease with 70-100% fill

Technical Features

Boundary Dimensions	In accordance with ISO-1998
Tolerances	In accordance with ISO 492-2002 SKF CARB® bearings up to 315 mm bore diameter are produced to higher precision than ISO normal tolerances, the width tolerance is considerably tighter* than the ISO normal tolerance. The running accuracy is to tolerance class P5 as standard. For larger bearings, P5 tolerances are also available with the suffix C08 or closer tolerances are available with the suffix VQ 424
Heat stabilization	392°F (200°C)
Misalignment	0.5 degrees between the inner and outer rings
Cage material	
Standard	Window type sheet steel
Optional	TN9 (Fibreglass reinforced Polyamide). M (Brass)
Axial load - max	none
Seals	2CS5 2- Hydrogenated acrylonitrile butadiene rubber with hi-temp grease with 70-100% fill

* See page 784 of 6000 catalogue.



CARB® Bearing
(data tables on page 186)

Radial internal clearance of CARB® bearings with cylindrical bore

Bore diameter d		Radial internal clearance																	
		C2				Normal				C3				C4					
over	incl.	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
mm		µm		in		µm		in		µm		in		µm		in			
18	24	15	27	0.0006	0.0011	27	40	0.0011	0.0016	40	52	0.0016	0.002	52	67	0.002	0.0026		
24	30	20	32	0.0008	0.0013	32	47	0.0013	0.0019	47	65	0.0019	0.0026	65	85	0.0026	0.0033		
30	40	22	37	0.0009	0.0015	37	52	0.0015	0.002	52	70	0.002	0.0028	70	90	0.0028	0.0035		
40	50	27	45	0.0011	0.0018	45	65	0.0018	0.0026	65	87	0.0026	0.0034	87	112	0.0034	0.0044		
50	65	30	52	0.0012	0.002	52	77	0.002	0.003	77	105	0.003	0.0041	105	135	0.0041	0.0053		
65	80	40	65	0.0016	0.0026	65	95	0.0026	0.0037	95	127	0.0037	0.005	127	162	0.005	0.0064		
80	100	47	80	0.0019	0.0031	80	117	0.0031	0.0046	117	157	0.0046	0.0062	157	202	0.0062	0.008		
100	120	57	97	0.0022	0.0038	97	140	0.0038	0.0055	140	185	0.0055	0.0073	185	235	0.0073	0.0093		
120	140	72	120	0.0028	0.0047	120	167	0.0047	0.0066	167	215	0.0066	0.0085	215	270	0.0085	0.0106		
140	160	85	140	0.0033	0.0055	140	195	0.0055	0.0077	195	250	0.0077	0.0098	250	315	0.0098	0.0124		
160	180	92	150	0.0036	0.0059	150	210	0.0059	0.0083	210	275	0.0083	0.0108	275	350	0.0108	0.0138		
180	200	100	165	0.0039	0.0065	165	230	0.0065	0.0091	230	300	0.0091	0.0118	300	385	0.0118	0.0152		
200	225	110	180	0.0043	0.0071	180	255	0.0071	0.01	255	335	0.01	0.0132	335	425	0.0132	0.0167		
225	250	120	195	0.0047	0.0077	195	280	0.0077	0.011	280	370	0.011	0.0146	370	470	0.0146	0.0185		
250	280	135	215	0.0053	0.0085	215	305	0.0085	0.012	305	405	0.012	0.0159	405	515	0.0159	0.0203		
280	315	150	235	0.0059	0.0093	235	325	0.0093	0.0128	325	435	0.0128	0.0171	435	565	0.0171	0.0222		
315	355	160	255	0.0063	0.01	255	360	0.01	0.0142	360	480	0.0142	0.0189	480	620	0.0189	0.0244		
355	400	175	280	0.0069	0.011	280	395	0.011	0.0156	395	525	0.0156	0.0207	525	675	0.0207	0.0266		
400	450	190	305	0.0075	0.012	305	435	0.012	0.0171	435	580	0.0171	0.0228	580	740	0.0228	0.0291		
450	500	200	335	0.0079	0.0132	335	480	0.0132	0.0189	480	635	0.0189	0.025	635	810	0.025	0.0319		
500	560	215	360	0.0085	0.0142	360	520	0.0142	0.0205	520	690	0.0205	0.0272	690	890	0.0272	0.035		
560	630	240	395	0.0094	0.0156	395	565	0.0156	0.0222	565	750	0.0222	0.0295	750	975	0.0295	0.0384		
630	710	270	440	0.0106	0.0173	440	615	0.0173	0.0242	615	810	0.0242	0.0319	810	1055	0.0319	0.0415		
710	800	300	485	0.0118	0.0191	485	675	0.0191	0.0266	675	890	0.0266	0.035	890	1155	0.035	0.0455		

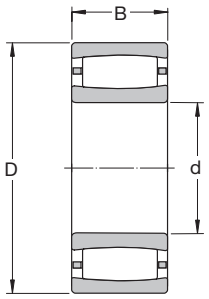
Radial internal clearance of CARB® bearings with tapered bore

18	24	20	30	0.0008	0.0012	30	40	0.0012	0.0016	40	52	0.0016	0.0020	52	67	0.0020	0.0026		
24	30	25	35	0.0010	0.0014	35	47	0.0014	0.0019	47	65	0.0019	0.0026	65	85	0.0026	0.0033		
30	40	30	42	0.0012	0.0017	42	57	0.0017	0.0022	57	75	0.0022	0.0030	75	95	0.0030	0.0037		
40	50	37	52	0.0015	0.0020	52	70	0.0020	0.0028	70	90	0.0028	0.0035	90	115	0.0035	0.0045		
50	65	47	65	0.0019	0.0026	65	85	0.0026	0.0033	85	107	0.0033	0.0042	107	140	0.0042	0.0055		
65	80	60	82	0.0024	0.0032	82	107	0.0032	0.0042	107	135	0.0042	0.0053	135	175	0.0053	0.0069		
80	100	67	95	0.0026	0.0037	95	125	0.0037	0.0049	125	160	0.0049	0.0063	160	205	0.0063	0.0081		
100	120	82	117	0.0032	0.0046	117	152	0.0046	0.0060	152	195	0.0060	0.0077	195	250	0.0077	0.0098		
120	140	100	140	0.0039	0.0055	140	180	0.0055	0.0071	180	230	0.0071	0.0091	230	295	0.0091	0.0116		
140	160	110	155	0.0043	0.0061	155	205	0.0061	0.0081	205	265	0.0081	0.0104	265	340	0.0104	0.0134		
160	180	120	170	0.0047	0.0067	170	230	0.0067	0.0091	230	300	0.0091	0.0118	300	385	0.0118	0.0152		
180	200	135	190	0.0053	0.0075	190	255	0.0075	0.0100	255	330	0.0100	0.0130	330	420	0.0130	0.0165		
200	225	150	215	0.0059	0.0085	215	285	0.0085	0.0112	285	365	0.0112	0.0144	365	465	0.0144	0.0183		
225	250	170	235	0.0067	0.0093	235	310	0.0093	0.0122	310	400	0.0122	0.0157	400	510	0.0157	0.0201		
250	280	185	260	0.0073	0.0102	260	345	0.0102	0.0136	345	440	0.0136	0.0173	440	555	0.0173	0.0219		
280	315	205	285	0.0081	0.0112	285	380	0.0112	0.0150	380	485	0.0150	0.0191	485	610	0.0191	0.0240		
315	355	230	315	0.0091	0.0124	315	415	0.0124	0.0163	415	530	0.0163	0.0209	530	665	0.0209	0.0262		
355	400	255	350	0.0100	0.0138	350	460	0.0138	0.0181	460	585	0.0181	0.0230	585	735	0.0230	0.0289		
400	450	280	385	0.0110	0.0152	385	505	0.0152	0.0199	505	645	0.0199	0.0254	645	815	0.0254	0.0321		
450	500	315	430	0.0124	0.0169	430	560	0.0169	0.0220	560	710	0.0220	0.0280	710	895	0.0280	0.0352		
500	560	350	475	0.0138	0.0187	475	610	0.0187	0.0240	610	775	0.0240	0.0305	775	985	0.0305	0.0388		
560	630	390	530	0.0154	0.0209	530	680	0.0209	0.0268	680	870	0.0268	0.0343	870	1 105	0.0343	0.0435		
630	710	430	590	0.0169	0.0232	590	760	0.0232	0.0299	760	970	0.0299	0.0382	970	1 225	0.0382	0.0482		
710	800	480	660	0.0189	0.0260	660	855	0.0260	0.0337	855	1 090	0.0337	0.0429	1 090	1 360	0.0429	0.0535		

CARB® toroidal roller bearings

d **25 - 65** mm

d **0.984 - 2.559** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference	Limiting		Bearing with cylindrical	
d	D	B	d	D	B	C	C_0	P_u	speed	speed		bore	tapered bore
mm			in			kN		kN	r/min		kg	–	
25	52	18	**0.984**	2.047	0.709	44	40	4.55	13 000	18 000	0.17	***C 2205 TN9**[1)]	***C 2205 KTN9**[1)]
	52	18		2.047	0.709	50	48	5.5	–	7 000	0.18	***C 2205 V**[1)]	***C 2205 KV**[1)]
30	55	45	**1.181**	2.165	1.772	134	180	19.6	–	3 000	0.5	***C 6006 V**	**–**
	62	20		2.441	0.787	69.5	62	7.2	11 000	15 000	0.27	***C 2206 TN9**	***C 2206 KTN9**
	62	20		2.441	0.787	76.5	71	8.3	–	6 000	0.29	***C 2206 V**	***C 2206 KV**
35	72	23	**1.378**	2.835	0.906	83	80	9. 3	9 500	13 000	0.43	***C 2207 TN9**	***C 2207 KTN9**
	72	23		2.835	0.906	96.5	96	11.2	–	5 000	0.45	***C 2207 V**	***C 2207 KV**
40	62	22	**1.575**	2.441	0.866	76.5	100	11	–	4 300	0.25	***C 4908 V**	***C 4908 K30V**
	62	30		2.441	1.181	104	143	16	–	3 400	0.35	***C 5908 V**[1)]	**–**
	62	40		2.441	1.575	122	180	19.3	–	2 800	0.47	***C 6908 V**[1)]	**–**
	80	23		3.150	0.906	90	86.5	10.2	8 000	11 000	0.5	***C 2208 TN9**	***C 2208 KTN9**
	80	23		3.150	0.906	102	104	12	–	4 500	0.53	***C 2208 V**	***C 2208 KV**
45	68	22	**1.772**	2.677	0.866	81.5	112	12.9	–	3 800	0.3	***C 4909 V**[1)]	***C 4909 K30V**[1)]
	68	30		2.677	1.181	110	163	18.3	–	3 200	0.41	***C 5909 V**[1)]	**–**
	68	40		2.677	1.575	132	200	22	–	2 600	0.55	***C 6909 V**[1)]	**–**
	85	23		3.346	0.906	93	93	10.8	8 000	11 000	0.55	***C 2209 TN9**	***C 2209 KTN9**
	85	23		3.346	0.906	106	110	12.9	–	4 300	0.58	***C 2209 V**	***C 2209 KV**
50	72	22	**1.969**	2.835	0.866	86.5	125	13.7	–	3 600	0.29	***C 4910 V**	***C 4910 K30V**
	72	30		2.835	1.181	118	180	20.4	–	2 800	0.42	***C 5910 V**[1)]	**–**
	72	40		2.835	1.575	140	224	24.5	–	2 200	0.54	***C 6910 V**	**–**
	80	30		3.150	1.181	116	140	16	5 000	7 500	0.55	***C 4010 TN9**	***C 4010 K30TN9**
	80	30		3.150	1.181	137	176	20	–	3 000	0.59	***C 4010 V**	***C 4010 K30V**
	90	23		3.543	0.906	98	100	11.8	7 000	9 500	0.59	***C 2210 TN9**	***C 2210 KTN9**
	90	23		3.543	0.906	114	122	14.3	–	3 800	0.62	***C 2210 V**	***C 2210 KV**
55	80	25	**2.165**	3.150	0.984	106	153	18	–	3 200	0.43	***C 4911 V**[1)]	***C 4911 K30V**[1)]
	80	34		3.150	1.339	143	224	25	–	2 600	0.6	***C 5911 V**[1)]	**–**
	80	45		3.150	1.772	180	300	32.5	–	2 000	0.81	***C 6911 V**[1)]	**–**
	100	25		3.937	0.984	116	114	13.4	6 700	9 000	0.79	***C 2211 TN9**	***C 2211 KTN9**
	100	25		3.937	0.984	132	134	16	–	3 400	0.81	***C 2211 V**	***C 2211 KV**
60	85	25	**2.362**	3.346	0.984	112	170	19.6	–	3 000	0.46	***C 4912 V**[1)]	***C 4912 K30V**[1)]
	85	34		3.346	1.339	150	240	26.5	–	2 400	0.64	***C 5912 V**[1)]	**–**
	85	45		3.346	1.772	190	335	36	–	1 900	0.84	***C 6912 V**	**–**
	110	28		4.331	1.102	143	156	18.3	5 600	7 500	1.1	***C 2212 TN9**	***C 2212 KTN9**
	110	28		4.331	1.102	166	190	22.4	–	2 800	1.15	***C 2212 V**	***C 2212 KV**
65	90	25	**2.559**	3.543	0.984	116	180	20.8	–	2 800	0.5	***C 4913 V**[1)]	***C 4913 K30V**[1)]
	90	34		3.543	1.339	156	260	30	–	2 200	0.7	***C 5913 V**[1)]	**–**
	90	45		3.543	1.772	196	355	38	–	1 800	0.93	***C 6913 V**[1)]	**–**
	100	35		3.937	1.378	196	275	32	–	2 400	1	***C 4013 V**[1)]	***C 4013 K30V**[1)]
	120	31		4.724	1.220	180	180	21.2	5 300	7 500	1.4	***C 2213 TN9**	***C 2213 KTN9**
	120	31		4.724	1.220	204	216	25.5	–	2 400	1.47	***C 2213 V**	***C 2213 KV**

* SKF Explorer bearing

[1)] Please check availability of the bearing before incorporating it in a bearing arrangement design

SKF®

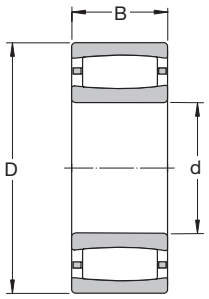
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference	Limiting		Bearing with cylindrical bore	tapered bore
d	D	B	d	D	B	C	C_0	P_u	speed	speed			
mm			in			kN		kN	r/min		kg	–	
70	100	30	**2.756**	3.937	1.181	163	240	28	–	2 600	0.78	***C 4914 V**[1)]	***C 4914 K30V**[1)]
	100	40		3.937	1.575	196	310	34.5	–	2 000	1	***C 5914 V**[1)]	**–**
	100	54		3.937	2.126	265	455	49	–	1 700	1.4	***C 6914 V**[1)]	**–**
	125	31		4.921	1.220	186	196	23.2	5 000	7 000	1.45	***C 2214 TN9**	***C 2214 KTN9**
	125	31		4.921	1.220	212	228	27	–	2 400	1.5	***C 2214 V**	***C 2214 KV**
	150	51		5.906	2.008	405	430	49	3 800	5 000	4.25	***C 2314**	***C 2314 K**
75	105	30	**2.953**	4.134	1.181	166	255	30	–	2 400	0.82	***C 4915 V**[1)]	***C 4915 K30V**[1)]
	105	40		4.134	1.575	204	325	37.5	–	1 900	1.1	***C 5915 V**	**–**
	105	54		4.134	2.126	204	325	37.5	–	1 600	1.4	***C 6915 V/VE240**	**–**
	115	40		4.528	1.575	236	345	40	–	2 000	1.5	***C 4015 V**[1)]	***C 4015 K30V**[1)]
	130	31		5.118	1.220	196	208	25.5	4 800	6 700	1.6	***C 2215**	***C 2215 K**
	130	31		5.118	1.220	220	240	29	–	2 200	1.65	***C 2215 V**	***C 2215 KV**
	160	55		6.299	2.165	425	465	52	3 600	4 800	5.2	***C 2315**	***C 2315 K**
80	110	30	**3.150**	4.331	1.181	173	275	31.5	–	2 200	0.87	***C 4916 V**[1)]	***C 4916 K30V**[1)]
	110	40		4.331	1.575	208	345	40	–	1 800	1.2	***C 5916 V**[1)]	**–**
	140	33		5.512	1.299	220	250	28.5	4 500	6 000	2	***C 2216**	***C 2216 K**
	140	33		5.512	1.299	255	305	34.5	–	2 000	2.1	***C 2216 V**	***C 2216 KV**
	170	58		6.693	2.283	510	550	61	3 400	4 500	6.2	***C 2316**	***C 2316 K**
85	120	35	**3.346**	4.724	1.378	224	355	40.5	–	2 000	1.3	***C 4917 V**[1)]	***C 4917 K30V**[1)]
	120	46		4.724	1.811	275	465	52	–	1 700	1.7	***C 5917 V**[1)]	**–**
	150	36		5.906	1.417	275	320	36.5	4 300	5 600	2.6	***C 2217**	***C 2217 K**
	150	36		5.906	1.417	315	390	44	–	1 800	2.8	***C 2217 V**	***C 2217 KV**
	180	60		7.087	2.362	540	600	64	3 200	4 300	7.3	***C 2317**	***C 2317 K**
90	125	35	**3.543**	4.921	1.378	186	315	35.5	–	2 000	1.3	***C 4918 V**[1)]	***C 4918 K30V**[1)]
	125	46		4.921	1.811	224	400	44	–	1 600	1.75	***C 5918 V**	**–**
	150	72		5.906	2.835	455	670	73.5	–	1 500	5.1	***BSC-2039 V**	**–**
	160	40		6.299	1.575	325	380	42.5	3 800	5 300	3.3	***C 2218**	***C 2218 K**
	160	40		6.299	1.575	365	440	49	–	1 500	3.4	***C 2218 V**	***C 2218 KV**
	190	64		7.480	2.520	610	695	73.5	2 800	4 000	8.5	***C 2318**	***C 2318 K**
95	170	43	**3.740**	6.693	1.693	360	400	44	3 800	5 000	4	***C 2219**[1)]	***C 2219 K**[1)]
	200	67		7.874	2.638	610	695	73.5	2 800	4 000	10	***C 2319**	***C 2319 K**
100	140	40	**3.937**	5.512	1.575	275	450	49	–	1 700	1.9	***C 4920 V**[1)]	***C 4920 K30V**[1)]
	140	54		5.512	2.126	375	640	68	–	1 400	2.7	***C 5920 V**[1)]	**–**
	150	50		5.906	1.969	355	530	57	–	1 400	3.05	***C 4020 V**	***C 4020 K30V**
	150	67		5.906	2.638	510	865	90	–	1 100	4.3	***C 5020 V**	**–**
	165	52		6.496	2.047	415	540	58.5	3 200	4 300	4.4	***C 3120**[1)]	***C 3120 K**[1)]
	165	52		6.496	2.047	475	655	69.5	–	1 300	4.4	***C 3120 V**	–
	165	65		6.496	2.559	475	655	69.5	–	1 300	5.25	***C 4120 V/VE240**	***C 4120 K30V/VE240**
	170	65		6.693	2.559	475	655	47.5	–	1 400	5.95	***B SC-2034 V**	–
	215	73		8.465	2.874	800	880	91.5	2 600	3 600	12.5	***C 2320**	***C 2320 K**

* SKF Explorer bearing
[1)] Please check availability of the bearing before incorporating it in a bearing arrangement design

CARB® toroidal roller bearings

d **110 - 180** mm

d **4.331 - 7.087** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference	Limiting		Bearing with cylindrical	tapered
d	D	B	d	D	B	C	C_0	P_u	speed	speed		bore	bore
mm			in			kN		kN	r/min		kg	–	
110	170	45	**4.331**	6.693	1.772	355	480	51	3 200	4 500	3.5	***C 3022**[1)]	***C 3022 K**[1)]
	170	60		6.693	2.362	500	800	83	–	1 200	5.15	***C 4022 V**	***C 4022 K30V**
	180	69		7.087	2.717	670	1 000	102	–	900	7.05	***C 4122 V**	***C 4122 K30V**
	200	53		7.874	2.087	530	620	64	3 200	4 300	6.9	***C 2222**	***C 2222 K**
120	180	46	**4.724**	7.087	1.811	375	530	55	3 000	4 000	3.9	***C 3024**	***C 3024 K**
	180	46		7.087	1.811	430	640	67	–	1 400	4.05	***C 3024 V**	***C 3024 KV**
	180	60		7.087	2.362	530	880	90	–	1 100	5.5	***C 4024 V**	***C 4024 K30V**
	200	80		7.874	3.150	780	1 120	114	–	750	10.5	***C 4124 V**[1)]	***C 4124 K30V**[1)]
	215	58		8.465	2.283	610	710	72	3 000	4 000	8.6	***C 2224**[1)]	***C 2224 K**[1)]
	215	76		8.465	2.992	750	980	98	2 400	3 200	11.5	***C 3224**	***C 3224 K**
130	200	52	**5.118**	7.874	2.047	390	585	58.5	2 800	3 800	5.9	***C 3026**[1)]	***C 3026 K**[1)]
	200	69		7.874	2.717	620	930	91.5	1 900	2 800	7.84	***C 4026**	***C 4026 K30**
	200	69		7.874	2.717	720	1 120	112	–	850	8.05	***C 4026 V**	***C 4026 K30V**
	210	80		8.268	3.150	750	1 100	108	–	670	10.5	***C 4126 V/VE240**	***C 4126 K30V/VE240**
	230	64		9.055	2.520	735	930	93	2 800	3 800	11	***C 2226**	***C 2226 K**
140	210	53	**5.512**	8.268	2.087	490	735	72	2 600	3 400	6.3	***C 3028**[1)]	***C 3028 K**[1)]
	210	69		8.268	2.717	750	1 220	118	–	800	8.55	***C 4028 V**	***C 4028 K30V**
	225	85		8.858	3.346	1 000	1 600	153	–	630	14.2	***C 4128 V**	***C 4128 K30V**
	250	68		9.843	2.677	830	1 060	102	2 400	3 400	13.8	***C 2228**	***C 2228 K**
150	225	56	**5.906**	8.858	2.205	540	850	83	2 400	3 200	8.3	***C 3030 MB**	***C 3030 KMB**
	225	75		8.858	2.953	780	1 320	125	–	750	10.5	***C 4030 V**	***C 4030 K30V**
	250	80		9.843	3.150	880	1 290	122	2 000	2 800	15	***C 3130**	***C 3130 K**
	250	100		9.843	3.937	1 220	1 860	173	–	450	20.5	***C 4130 V**[1)]	***C 4130 K30V**[1)]
	270	73		10.630	2.874	980	1 220	116	2 400	3 200	17.5	***C 2230**	***C 2230 K**
160	240	60	**6.299**	9.449	2.362	600	990	93	2 200	3 000	9.6	***C 3032**[1)]	***C 3032 K**[1)]
	240	80		9.449	3.150	795	1 160	110	1 600	2 400	12.3	***C 4032**	***C 4032 K30**
	240	80		9.449	3.150	915	1 460	140	–	600	12.6	***C 4032 V**	***C 4032 K30V**
	270	86		10.630	3.386	1 000	1 400	132	2 000	2 600	20	***C 3132**[1)]	***C 3132 K**[1)]
	270	109		10.630	4.291	1 460	2 160	200	–	300	26	***C 4132 V**[1)]	***C 4132 K30V**[1)]
	290	104		11.417	4.094	1 370	1 830	170	1 700	2 400	28.5	***C 3232**	***C 3232 K**
170	260	67	**6.693**	10.236	2.638	750	1 160	108	2 000	2 800	12.5	***C 3034**[1)]	***C 3034 K**[1)]
	260	90		10.236	3.543	1 140	1 860	170	–	480	17.5	***C 4034 V**	***C 4034 K30V**
	280	88		11.024	3.465	1 040	1 460	137	1 900	2 600	21	***C 3134**[1)]	***C 3134 K**[1)]
	280	109		11.024	4.291	1 530	2 280	208	–	280	27	***C 4134 V**[1)]	***C 4134 K30V**[1)]
	310	86		12.205	3.386	1 270	1 630	150	2 000	2 600	28	***C 2234**	***C 2234 K**
180	280	74	**7.087**	11.024	2.913	880	1 340	125	1 900	2 600	16.5	***C 3036**	***C 3036 K**[2)]
	280	100		11.024	3.937	1 320	2 120	193	–	430	23	***C 4036 V**	***C 4036 K30V**
	300	96		11.811	3.780	1 250	1 730	156	1 800	2 400	26	***C 3136**	***C 3136 K**[2)]
	300	118		11.811	4.646	1 760	2 700	240	–	220	34.5	***C 4136 V**[1)]	***C 4136 K30V**[1)]
	320	112		12.598	4.409	1 530	2 200	196	1 500	2 000	37	***C 3236**	***C 3236 K**

* SKF Explorer bearing

1) Please check availability of the bearing before incorporating it in a bearing arrangement design

2) Also available in design K/HA3C4

SKF®

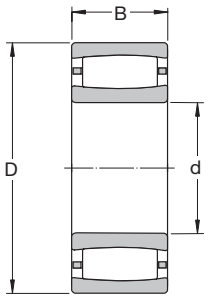
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference	Limiting		Bearing with cylindrical bore	tapered bore
d	D	B	d	D	B	C	C_0	P_u	speed	speed			
mm			in			kN		kN	r/min		kg	–	
190	290	75	**7.480**	11.417	2.953	930	1 460	132	1 800	2 400	17.5	***C 3038**	***C 3038 K**[2]
	290	100		11.417	3.937	1 370	2 320	204	–	380	24.5	***C 4038 V**[1]	***C 4038 K30V**[1]
	320	104		12.598	4.094	1 530	2 200	196	1 600	2 200	33.5	***C 3138**[1]	***C 3138 K1**[1]
	320	128		12.598	5.039	2 040	3 150	275	–	130	43	***C 4138 V**[1]	***C 4138 K30V**[1]
	340	92		13.386	3.622	1 370	1 730	156	1 800	2 400	34	***C 2238**	***C 2238 K**[2]
200	310	82	**7.874**	12.205	3.228	1 120	1 730	153	1 700	2 400	22	***C 3040**	***C 3040 K**[2]
	310	109		12.205	4.291	1 630	2 650	232	–	260	30.5	***C 4040 V**[1]	***C 4040 K30V**[1]
	340	112		13.386	4.409	1 600	2 320	204	1 500	2 000	40	***C 3140**	***C 3140 K**[2]
	340	140		13.386	5.512	2 360	3 650	315	–	80	54	***C 4140 V**[1]	***C 4140 K30V**[1]
220	340	90	**8.661**	13.386	3.543	1 320	2 040	176	1 600	2 200	29	***C 3044**	***C 3044 K**[2]
	340	118		13.386	4.646	1 930	3 250	275	–	200	40	***C 4044 V**[1]	***C 4044 K30V**[1]
	370	120		14.567	4.724	1 900	2 900	245	1 400	1 900	51	***C 3144**	***C 3144 K**[2]
	400	108		15.748	4.252	2 000	2 500	216	1 500	2 000	56.5	***C 2244**	***C 2244 K**[2]
240	360	92	**9.449**	14.173	3.622	1 340	2 160	183	1 400	2 000	31.5	***C 3048**	***C 3048 K**[2]
	400	128		15.748	5.039	2 320	3 450	285	1 300	1 700	63	***C 3148**	***C 3148 K**[2]
260	400	104	**10.236**	15.748	4.094	1 760	2 850	232	1 300	1 800	46	***C 3052**	***C 3052 K**[2]
	440	144		17.323	5.669	2 650	4 050	325	1 100	1 500	87	***C 3152**	***C 3152 K**[2]
280	420	106	**11.024**	16.535	4.173	1 860	3 100	250	1 200	1 600	50	***C 3056**	***C 3056 K**[2]
	460	146		18.110	5.748	2 850	4 500	355	1 100	1 400	93	***C 3156**	***C 3156 K**[2]
300	460	118	**11.811**	18.110	4.646	2 160	3 750	290	1 100	1 500	71	***C 3060 M**	***C 3060 KM**
	460	160		18.110	6.299	2 900	4 900	380	850	1 200	95	***C 4060 M**	***C 4060 K30M**
	500	160		19.685	6.299	3 250	5 200	400	1 000	1 300	120	***C 3160**	***C 3160 K**[2]
320	480	121	**12.598**	18.898	4.764	2 280	4 000	310	1 000	1 400	76.5	***C 3064 M**	***C 3064 KM**
	540	176		21.260	6.929	4 150	6 300	480	950	1 300	160	***C 3164 M**	***C 3164 KM**
340	520	133	**13.386**	20.472	5.236	2 900	5 000	375	950	1 300	100	***C 3068 M**	***C 3068 KM**
	580	190		22.835	7.480	4 900	7 500	560	850	1 200	205	***C 3168 M**	***C 3168 KM**[2]
360	480	90	**14.173**	18.898	3.543	1 760	3 250	250	1 000	1 400	44	***C 3972 M**	***C 3972 KM**
	540	134		21.260	5.276	2 900	5 000	375	900	1 200	105	***C 3072 M**	***C 3072 KM**[2]
	600	192		23.622	7.559	5 000	8 000	585	800	1 100	215	***C 3172 M**	***C 3172 KM**[2]
380	520	106	**14.961**	20.472	4.173	2 120	4 000	300	950	1 300	65.5	***C 3976 MB**[1]	***C 3976 KMB**[1]
	560	135		22.047	5.315	3 000	5 200	390	900	1 200	110	***C 3076 M**	***C 3076 KM**
	620	194		24.409	7.638	4 550	7 500	540	750	1 000	230	***C 3176 MB**[1]	***C 3176 KMB**[1]
400	540	106	**15.748**	21.260	4.173	2 160	4 150	305	900	1 300	69	***C 3980 MB**[1]	***C 3980 KMB**[1]
	600	148		23.622	5.827	3 650	6 200	450	800	1 100	140	***C 3080 M**	***C 3080 KM**
	650	200		25.591	7.874	5 000	8 650	610	700	950	275	***C 3180 MB**	***C 3180 KMB**

* SKF Explorer bearing
[1] Please check availability of the bearing before incorporating it in a bearing arrangement design
[2] Also available in design K/HA3C4 or KM/HA3C4

CARB® toroidal roller bearings

d **420 - 710** mm

d **16.535 - 27.953** in



Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference	Limiting		Bearing with cylindrical bore	tapered bore
d	D	B	d	D	B	C	C_0	P_u	speed	speed			
mm			in			kN		kN	r/min		kg	–	
420	560	106	**16.535**	22.047	4.173	2 160	4 250	310	850	1 200	71	***C 3984 M**	***C 3984 KM**
	620	150		24.409	5.906	3 800	6 400	465	800	1 100	150	***C 3084 M**	***C 3084 KM**
	700	224		27.559	8.819	6 000	10 400	710	670	900	340	***C 3184 M**	***C 3184 KM**[2]
440	600	118	**17.323**	23.622	4.646	2 750	5 300	375	800	1 100	98	***C 3988 MB**[1]	***C 3988 KMB**[1]
	650	157		25.591	6.181	3 750	6 400	465	750	1000	185	***C 3088 MB**	***C 3088 KMB**
	720	226		28.346	8.898	5 700	9 300	655	670	900	360	***C 3188 MB**[1]	***C 3188 KMB**[1]
460	620	118	**18.110**	24.409	4.646	2 700	5 300	375	800	1 100	100	***C 3992 MB**[1]	***C 3992 KMB**[1]
	680	163		26.772	6.417	4 000	7 500	510	700	950	200	***C 3092 M**	***C 3092 KM**[2]
	760	240		29.921	9.449	6 800	12 000	800	600	800	430	***C 3192 M**	***C 3192 KM**
	760	300		29.921	11.811	8 300	14 300	950	480	630	535	***C 4192 M**	***C 4192 K30M**
480	650	128	**18.898**	25.591	5.039	3 100	6 100	430	750	1 000	120	***C 3996 M**	***C 3996 KM**
	700	165		27.559	6.496	4 050	7 800	530	670	900	210	***C 3096 M**	***C 3096 KM**
	790	248		31.102	9.764	6 950	12 500	830	560	750	490	***C 3196 MB**[1]	***C 3196 KMB**[1]
500	670	128	**19.685**	26.378	5.039	3 150	6 300	440	700	950	125	***C 39/500 M**	***C 39/500 KM**
	720	167		28.346	6.575	4 250	8 300	560	630	900	225	***C 30/500 M**	***C 30/500 KM**[2]
	830	264		32.677	10.394	7 500	12 700	850	530	750	550	***C 31/500 M**	***C 31/500 KM**[2]
	830	325		32.677	12.795	9 800	17 600	1 140	400	560	720	***C 41/500 MB**	***C 41/500 K30MB**
530	710	136	**20.866**	27.953	5.354	3 550	7 100	490	670	900	150	***C 39/530 M**	***C 39/530 KM**
	780	185		30.709	7.283	5 100	9 500	640	600	800	295	***C 30/530 M**	***C 30/530 KM**[2]
	870	272		34.252	10.709	8 800	15 600	1 000	500	670	630	***C 31/530 M**	***C 31/530 KM**[2]
560	750	140	**22.047**	29.528	5.512	3 600	7 350	490	600	850	170	***C 39/560 M**	***C 39/560 KM**
	820	195		32.283	7.677	5 600	11 000	720	530	750	345	***C 30/560 M**	***C 30/560 KM**[2]
	920	280		36.220	11.024	9 500	17 000	1 100	480	670	750	***C 31/560 MB**[1]	***C 31/560 KMB**[1]
600	800	150	**23.622**	31.496	5.906	4 000	8 800	570	560	750	210	***C 39/600 M**	***C 39/600 KM**
	870	200		34.252	7.874	6 300	12 200	780	500	700	390	***C 30/600 M**	***C 30/600 KM**[2]
	980	300		38.583	11.811	10 200	18 000	1 120	430	600	870	***C 31/600 MB**[1]	***C 31/600 KMB**[1]
630	850	165	**24.803**	33.465	6.496	4 650	10 000	640	530	700	270	***C 39/630 M**	***C 39/630 KM**
	920	212		36.220	8.346	6 800	12 900	830	480	670	465	***C 30/630 M**	***C 30/630 KM**[2]
	1030	315		40.551	12.402	12 200	22 000	1 370	400	560	1 040	***C 31/630 MB**[1]	***C 31/630 KMB**[1]
670	900	170	**26.378**	35.433	6.693	4 900	11 200	695	480	630	310	***C 39/670 M**	***C 39/670 KM**
	980	230		38.583	9.055	8 150	16 300	1 000	430	600	580	***C 30/670 M**	***C 30/670 KM**[2]
	1090	336		42.913	13.228	12 000	22 000	1 320	380	530	1 230	***C 31/670 MB**[1]	***C 31/670 KMB**[1]
710	950	180	**27.953**	37.402	7.087	6 000	12 500	780	450	630	355	***C 39/710 M**	***C 39/710 KM**
	1030	236		40.551	9.291	8 800	17 300	1 060	400	560	645	***C 30/710 M**	***C 30/710 KM**
	1030	315		40.551	12.402	10 600	21 600	1 290	320	430	860	***C 40/710 M**	***C 40/710 K30M**
	1150	345		45.276	13.583	12 700	24 000	1 430	360	480	1 410	***C 31/710 MB**[1]	***C 31/710 KMB**[1]

* SKF Explorer bearing

[1] Please check availability of the bearing before incorporating it in a bearing arrangement design

[2] Also available in design KM/HA3C4

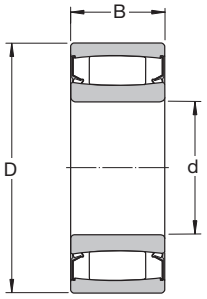
Principal dimensions						Basic load ratings		Fatigue load limit	Speed ratings		Mass	Designations	
						dynamic	static		Reference	Limiting		Bearing with cylindrical bore	tapered bore
d	D	B	d	D	B	C	C_0	P_u	speed	speed			
mm			in			kN		kN	r/min		kg	–	
750	1000	185	**29.528**	39.370	7.283	6 100	13 400	815	430	560	405	***C 39/750 M**	***C 39/750 KM**
	1090	250		42.913	9.843	9 000	18 000	1 100	380	530	770	***C 30/750 MB**[1)]	***C 30/750 KMB**[1)]
	1220	365		48.031	14.370	16 000	30 500	1 800	320	450	1 700	***C 31/750 MB**[1)]	***C 31/750 KMB**[1)]
800	1060	195	**31.496**	41.732	7.677	6 400	14 600	865	380	530	470	***C 39/800 M**	***C 39/800 KM**
	1150	258		45.276	10.157	9 150	18 600	1 120	360	480	860	***C 30/800 MB**[1)]	***C 30/800 KMB**[1)]
	1280	375		50.394	14.764	15 600	30 500	1 760	300	400	1 870	***C 31/800 MB**[1)]	***C 31/800 KMB**[1)]
850	1120	200	**33.465**	44.094	7.874	7 350	16 300	965	360	480	530	***C 39/850 M**	***C 39/850 KM**
	1220	272		48.031	10.709	11 200	24 000	1 370	320	430	1 050	***C 30/850 MB**[1)]	***C 30/850 KMB**[1)]
	1360	400		53.543	15.748	16 000	32 000	1 830	280	380	2 260	***C 31/850 MB**[1)]	***C 31/850 KMB**[1)]
900	1180	206	**35.433**	46.457	8.110	8 150	18 000	1 060	340	450	580	***C 39/900 MB**[1)]	***C 39/900 KMB**[1)]
	1280	280		50.394	11.024	12 700	26 500	1 530	300	400	1 150	***C 30/900 M**	***C 30/900 KM**
950	1250	224	**37.402**	49.213	8.819	9 300	22 000	1 250	300	430	745	***C 39/950 M**	***C 39/950 KM**
	1360	300		53.543	11.811	12 900	27 500	1 560	280	380	1 410	***C 30/950 MB**[1)]	***C 30/950 KMB**[1)]
1 000	1420	308	**39.370**	55.905	12.126	13 400	29 000	1 630	260	340	1 570	***C 30/1000 MB**[1)]	***C 30/1000 KMB**[1)]
	1580	462		62.205	18.189	22 800	45 500	2 500	220	300	3 470	***C 31/1000 MB**[1)]	***C 31/1000 KMB**[1)]
1 060	1400	250	**41.732**	55.118	9.843	12 500	29 000	1 600	260	340	1 040	***C 39/1060 MB**[1)]	***C 39/1060 KMB**[1)]
1 180	1540	272	**46.457**	60.630	10.709	12 900	31 500	1 660	220	300	1 340	***C 39/1180 M**	***C 39/1180 KM**
1 250	1750	375	**49.213**	68.898	14.764	20 400	45 000	2 320	180	240	2 740	***C 30/1250 MB**[1)]	***C 30/1250 KMB**[1)]

* SKF Explorer bearing
[1)] Please check availability of the bearing before incorporating it in a bearing arrangement design

Sealed CARB® toroidal roller bearings

d **50 - 200** mm

d **1.969 - 7.874** in



Principal dimensions						Basic load ratings dynamic	static	Fatigue load limit	Limiting speed	Mass	Designation
d	D	B	d	D	B	C	C_0	P_u			
mm			in			kN		kN	r/min	kg	–
50	72	40	**1.969**	2.835	1.575	140	224	24.5	200	0.56	* **C 6910-2CS5V**[1)]
60	85	45	**2.362**	3.346	1.772	150	240	26.5	170	0.83	* **C 6912-2CS5V**[1)]
65	100	35	**2.559**	3.937	1.378	102	173	19	150	1.1	* **C 4013-2CS5V**
75	105	54	**2.953**	4.134	2.126	204	325	37.5	140	1.4	* **C 6915-2CS5V**
	115	40		4.528	1.575	143	193	23.2	130	1.4	* **C 4015-2CS5V**[1)]
90	125	46	**3.543**	4.921	1.811	224	400	44	110	1.75	* **C 5918-2CS5V**
100	150	50	**3.937**	5.906	1.969	310	450	50	95	2.9	* **C 4020-2CS5V**[1)]
	165	65		6.496	2.559	475	655	69.5	90	5.2	* **C 4120-2CS5V**
110	170	60	**4.331**	6.693	2.362	415	585	63	85	4.6	* **C 4022-2CS5V**[1)]
	180	69		7.087	2.717	500	710	75	85	6.6	* **C 4122-2CS5V**
120	180	60	**4.724**	7.087	2.362	430	640	67	80	5.1	* **C 4024-2CS5V**
	200	80		7.874	3.150	710	1 000	100	75	9.7	* **C 4124-2CS5V**[1)]
130	200	69	**5.118**	7.874	2.717	550	830	85	70	7.5	* **C 4026-2CS5V**
	210	80		8.268	3.150	750	1 100	108	70	10.5	* **C 4126-2CS5V**
140	210	69	**5.512**	8.268	2.717	570	900	88	67	7.9	* **C 4028-2CS5V**[1)]
	225	85		8.858	3.346	780	1 200	116	63	12.5	* **C 4128-2CS5V**
150	225	75	**5.906**	8.858	2.953	585	965	93	63	10	* **C 4030-2CS5V**
	250	100		9.843	3.937	1 220	1 860	173	60	20.5	* **C 4130-2CS5V**[1)]
160	240	80	**6.299**	9.449	3.150	655	1 100	104	60	12	* **C 4032-2CS5V**[1)]
	270	109		10.630	4.291	1 460	2 160	200	53	26	* **C 4132-2CS5V**[1)]
170	260	90	**6.693**	10.236	3.543	965	1 630	150	53	17	* **C 4034-2CS5V**[1)]
	280	109		11.024	4.291	1 530	2 280	208	53	27	* **C 4134-2CS5V**[1)]
180	280	100	**7.087**	11.024	3.937	1 320	2 120	193	53	23.5	* **C 4036-2CS5V**[1)]
	300	118		11.811	4.646	1 760	2 700	240	48	35	* **C 4136-2CS5V**[1)]
190	290	100	**7.480**	11.417	3.937	1 370	2 320	204	48	24.5	* **C 4038-2CS5V**[1)]
	320	128		12.598	5.039	2 040	3 150	275	45	43.5	* **C 4138-2CS5V**[1)]
200	310	109	**7.874**	12.205	4.291	1 630	2 650	232	45	31	* **C 4040-2CS5V**[1)]
	340	140		13.386	5.512	2 360	3 650	315	43	54.5	* **C 4140-2CS5V**[1)]

* SKF Explorer bearing

[1)] Please check availability of the bearing before incorporating it in a bearing arrangement design