Super linear bushings Ⓐ

Super linear bushing Ⓐ with misalignment compensation

Super linear bushings, R0670 Closed

Super linear bushings, R0671 Open

Design
- Ball retainer and outer sleeve made of PA or POM
- Hardened steel bearing plates with machined ball guide grooves
- Balls made of rolling bearing steel

- Compensate for misalignments of up to 30 ft
- No wiper seal
- Integrated wiper seals
- No initial lubrication

Closed

Shaft Ø d (mm)	Material number No wiper seal KBA- ...	With two integrated wiper seals KBA- ... -DD	Weight (kg)
10	R0670 010 00	R0670 210 40	0.017
12	R0670 012 00	R0670 212 40	0.023
16	R0670 016 00	R0670 216 40	0.028
20	R0670 020 00	R0670 220 40	0.061
25	R0670 025 00	R0670 225 40	0.122
30	R0670 030 00	R0670 230 40	0.185
40	R0670 040 00	R0670 240 40	0.360
50	R0670 050 00	R0670 250 40	0.580

With an integrated wiper seal: R0670 1 ... 40.

Open

Shaft Ø d (mm)	Material number No wiper seal KBA-O- ...	with two integrated wiper seals KBA-O- ... -DD	with two integrated wiper seals and linear seal KBA-O- ... -VD	Weight (kg)
12	R0671 012 00	R0671 212 40	R0671 212 45	0.018
16	R0671 016 00	R0671 216 40	R0671 216 45	0.022
20	R0671 020 00	R0671 220 40	R0671 220 45	0.051
25	R0671 025 00	R0671 225 40	R0671 225 45	0.102
30	R0671 030 00	R0671 230 40	R0671 230 45	0.155
40	R0671 040 00	R0671 240 40	R0671 240 45	0.300
50	R0671 050 00	R0671 250 40	R0671 250 45	0.480

With an integrated wiper seal: R0671 1 ... 40.

See Section “Customer-built housing” for separate wiper seals.

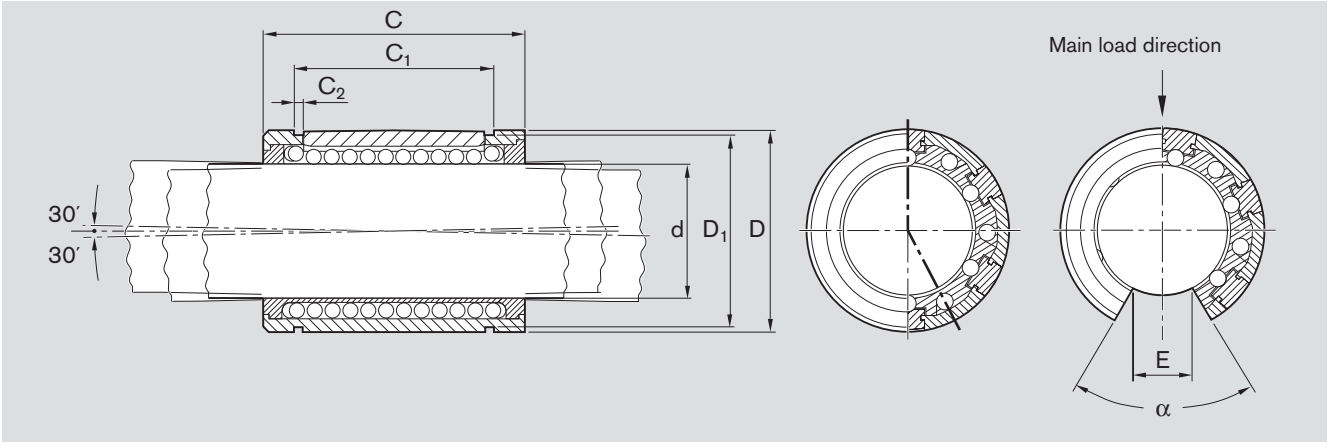
The dynamic load ratings are based on a total travel of 100,000 m.
When based on 50,000 m, the C values in the table are multiplied by 1.26.

Explanation of sample short product name

KB	A	O	20	DD
Linear bushing	Super Ⓐ	Open	Ø 20	Two seals

See page 38 for more information on short product names.

Dimensions



Closed

Dimensions (mm)						Rows	Radial clearance (µm)			Load ratings (N)			
Ø d	D	C	C_1	C_2	D_1	of balls	Shaft/bore			dyn. C		stat. C_0	
		h13	H13				h6/H7	h6/K7	h6/M7	min.	max.	min.	max.
10	19	29	21.6	1.3	18.0	5	+9 +36	+21 −6	+15 −12	600	820	330	480
12	22	32	22.6	1.3	21.0	5	+38 +10	+23 −5	+17 −11	830	1,140	420	620
16	26	36	24.6	1.3	24.9	5	+38 +10	+23 −5	+17 −11	1,020	1,400	530	780
20	32	45	31.2	1.6	30.5	6	+43 +11	+25 −7	+18 −14	2,020	2,470	1,050	1,340
25	40	58	43.7	1.85	38.5	6	+43 +11	+25 −7	+18 −14	3,950	4,820	2,180	2,790
30	47	68	51.7	1.85	44.5	6	+43 +11	+25 −7	+18 −14	4,800	5,860	2,790	3,570
40	62	80	60.3	2.15	58.5	6	+50 +12	+29 −9	+20 −18	8,240	10,070	4,350	5,570
50	75	100	77.3	2.65	71.5	6	+50 +12	+29 −9	+20 −18	12,060	14,730	6,470	8,280

Open

Dimensions (mm)						Angle	Rows of	Radial clearance (µm)			Load ratings[2] (N)	
Ø d	D	C	C_1	C_2	E[1]	α	balls	Shaft/bore				
		h13	H13			(°)		h6/H7	h6/K7	h6/M7	dyn. C	stat. C_0
12	22	32	22.6	1.3	6.5	66	4	+38 +10	+23 −5	+17 −11	1,060	510
16	26	36	24.6	1.3	9.0	68	4	+38 +10	+23 −5	+17 −11	1,500	830
20	32	45	31.2	1.6	9.0	55	5	+43 +11	+25 −7	+18 −14	2,570	1,180
25	40	58	43.7	1.85	11.5	57	5	+43 +11	+25 −7	+18 −14	5,040	2,470
30	47	68	51.7	1.85	14.0	57	5	+43 +11	+25 −7	+18 −14	5,020	2,880
40	62	80	60.3	2.15	19.5	56	5	+50 +12	+29 −9	+20 −18	8,620	4,480
50	75	100	77.3	2.65	22.5	54	5	+50 +12	+29 −9	+20 −18	12,500	6,620

⚠ **Refer to the diagrams on page 41 for load in the direction of opening.**

1) Minimum size in relation to Ø d
2) The load ratings apply for the main load direction.