


Super linear bushings 

Super linear bushings, R0730
Closed

Super linear bushings, R0731
Open

Design

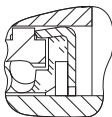
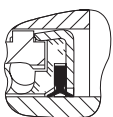
- POM ball retainer
- Hardened steel bearing plates with machined ball guide grooves and machined back

- Balls made of rolling bearing steel
- Compensate for misalignments of up to 30 ft
- Two metal retaining rings

- Optional double-lipped wiper seals
- Optional linear seals

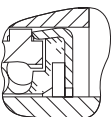
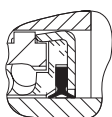
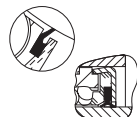
See "Technical data – Load direction factors" for exact values for the 4 main load directions.



Shaft Ø d (mm)	Material number			Weight (kg)
	No wiper seal KBSH- ...	With two wiper seals KBSH- ... -DD	Locating screw	
20	R0730 020 00	R0730 220 40	R3427 001 09	0.009
25	R0730 025 00	R0730 225 40	R3427 001 09	0.190
30	R0730 030 00	R0730 230 40	R3427 003 09	0.300
40	R0730 040 00	R0730 240 40	R3427 003 09	0.600
50	R0730 050 00	R0730 250 40	R3427 004 09	1.050
				

1 wiper seal: R0730 1 ... 40 or R0731 1 ... 40.



Shaft Ø d (mm)	Material number			Locating screw	Weight (kg)
	No wiper seal KBSH-O- ...	2 wiper seals KBSH-O- ... -DD	Fully sealed KBSH-O- ... -VD		
20	R0731 020 00	R0731 220 40	R0731 220 45	R3427 001 09	0.075
25	R0731 025 00	R0731 225 40	R0731 225 45	R3427 001 09	0.160
30	R0731 030 00	R0731 230 40	R0731 230 45	R3427 003 09	0.250
40	R0731 040 00	R0731 240 40	R0731 240 45	R3427 003 09	0.500
50	R0731 050 00	R0731 250 40	R0731 250 45	R3427 004 09	0.900
					

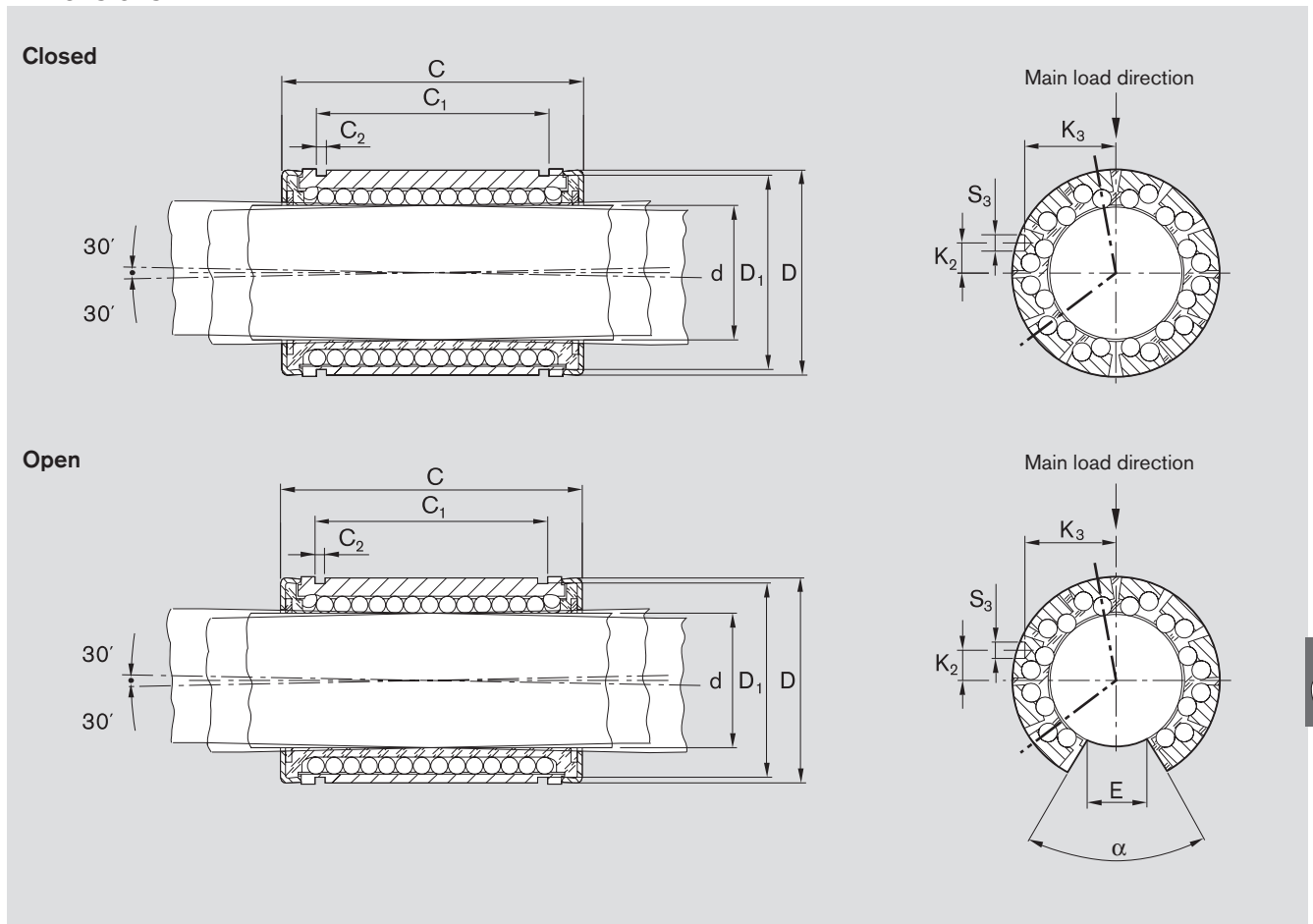
- 1) See page 81 for dimensions
- 2) See page 82 for dimensions

Explanation of sample short product name

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

See page 74 for more information on short product names.

Dimensions



Dimensions (mm)										Rows of balls		Angle α (°)	Radial clearance (μm)			Load ratings ²⁾ (N)	
$\varnothing d$	D	C	C ₁	C ₂	D ₁	S ₃ ¹⁾	K ₂	K ₃	E ²⁾				Shaft/bore	h6/H7	h6/K7	h6/M7	dyn. C
20	32	45	31.2	1.60	30.5	3.0	1.3	14.7	9.5	10	8	60	+43 +11	+25 -7	+18 -14	3,530	2,530
25	40	58	43.7	1.85	38.5	3.5	2.0	18.5	12.0	10	8	60	+43 +11	+25 -7	+18 -14	6,190	4,530
30	47	68	51.7	1.85	44.5	3.5	7.0	21.0	12.8	12	10	60	+43 +11	+25 -7	+18 -14	6,300	7,180
40	62	80	60.3	2.15	59.0	3.5	9.5	27.5	16.8	12	10	60	+50 +12	+29 -7	+20 -18	13,500	10,400
50	75	100	77.3	2.65	72.0	4.5	10.0	33.5	22.1	12	10	60	+50 +12	+29 -7	+20 -18	22,300	16,800

- 1) Hole at center of dimension C
- 2) Minimum size in relation to $\varnothing d$
- 3) The load ratings apply for the main load direction

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.

Refer to the diagrams on page 79 for load in the direction of opening.