

Standard linear bushings

**Standard linear bushings, R0610 adjustable, no wiper seals**

**Standard linear bushings, R0612 adjustable, with wiper seals**

**Design**

- Hardened and machined outer sleeve
- Steel ball retainer (shaft diameters 5 and 8 with plastic retainer made of PA<sup>1)</sup>)
- Balls made of rolling bearing steel
- No wiper seals, come with integrated steel retaining rings; higher temperatures allowed with shaft diameters 12 and higher
- Integrated wiper seals for high contamination
- Radial clearance adjustable



Shaft Ø d (mm)	Material number		Weight (kg)
	No wiper seal KBM-E- ...	With two wiper seals KBM-E- ... -DD	
5 <sup>1)</sup>	R0610 305 00	R0612 305 10	0.01
8 <sup>1)</sup>	R0610 308 00	R0612 308 10	0.02
12	R0610 012 00	R0612 012 10	0.04
16	R0610 016 00	R0612 016 10	0.05
20	R0610 020 00	R0612 020 10	0.10
25	R0610 025 00	R0612 025 10	0.19
30	R0610 030 00	R0612 030 10	0.32
40	R0610 040 00	R0612 040 10	0.62
50	R0610 050 00	R0612 050 10	1.14
60	R0610 060 00	R0612 060 10	2.11
80	R0610 080 00	R0612 080 10	4.70

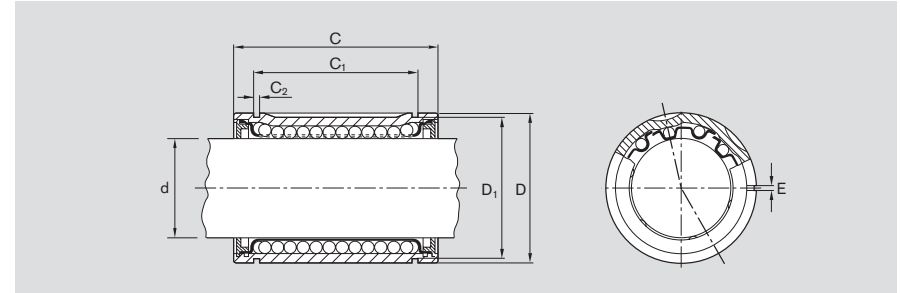
With 1 wiper seal: R0611 ... 10.

**Explanation of sample short product name**

KB	M	E	12	DD
Linear bushing	Standard (metal)	Adjustable	Ø 12	With two seals

See page 96 for more information on short product names.

**Dimensions**



Dimensions (mm)							Rows of balls	Load ratings (N)		Radial clearance (µm)			
Ø d	D	C	C <sub>1</sub>	C <sub>2</sub>	D <sub>1</sub>	E		min.	dyn. C max.	min.	stat. C <sub>0</sub> max.	h6/H7	h6/K7
5	12	22	14.2	1.10	11.1	1.5	4	180	210	140	200	+34 +11	+22 -1
8	16	25	16.2	1.10	14.7	1.5	4	320	370	240	330	+36 +13	+24 +1
12	22	32	22.6	1.30	20.5	1.5	4	420	480	280	400	+41 +14	+26 -1
16	26	36	24.6	1.30	24.9	1.5	4	580	670	440	620	+43 +14	+28 -1
20	32	45	31.2	1.60	30.5	2.0	5	1,170	1,390	860	1,250	+49 +16	+31 -2
25	40	58	43.7	1.85	38.5	2.0	5	2,080	2,480	1,560	2,280	+50 +17	+32 -1
30	47	68	51.7	1.85	44.5	2.0	6	2,820	2,980	2,230	2,860	+50 +17	+32 -1
40	62	80	60.3	2.15	58.0	2.0	6	5,170	5,480	3,810	4,880	+60 +20	+39 -1
50	75	100	77.3	2.65	71.0	2.0	6	8,260	8,740	6,470	8,280	+60 +20	+39 -1
60	90	125	101.3	3.15	85.0	2.0	6	11,500	12,100	9,160	11,730	+68 +22	+43 -3
80	120	165	133.3	4.15	114.0	2.0	6	21,000	22,200	16,300	20,850	+71 +24	+46 -1

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.