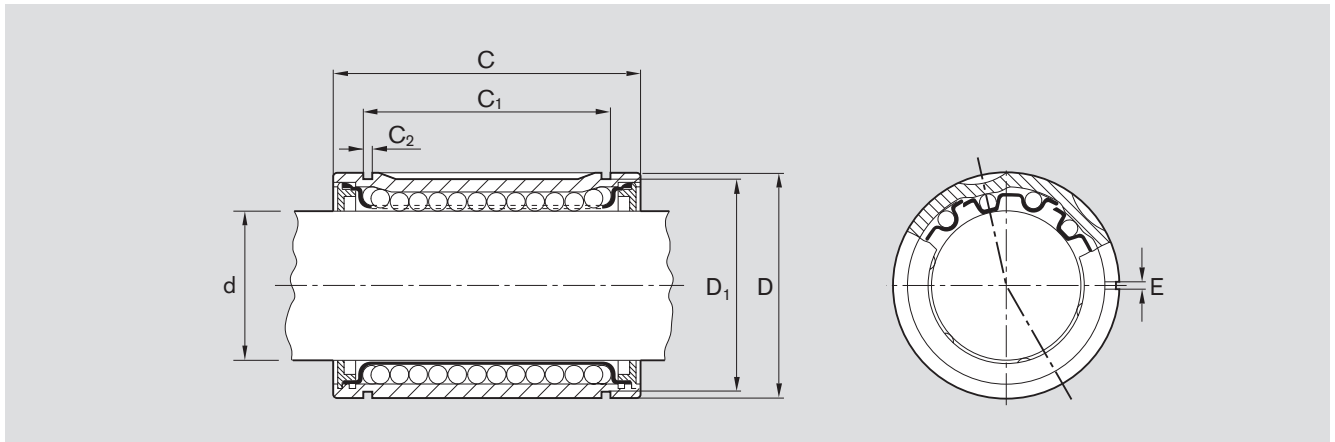


**Dimensions**



Dimensions (mm)							Rows of balls	Load ratings (N)				Radial clearance ( $\mu\text{m}$ )	
$\varnothing d$	D	C h12	C <sub>1</sub> H13	C <sub>2</sub>	D <sub>1</sub>	E		min.	dyn. C max.	min.	stat. C <sub>0</sub> max.	Shaft/bore 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.

Standard linear bushings

**Standard linear bushings,  
R0630 Open, no wiper seals**

**Standard linear bushings,  
R0632 Open, with wiper seals**

**Design**

- Hardened and machined outer sleeve
- Steel ball retainer
- 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
- With locating hole for axial and radial securing (no locating hole for shaft diameters 12 and 16)



Shaft Ø d (mm)	Material number			Weight (kg)
	No wiper seal KBM-O- ...	2 wiper seals KBM-O- ... -DD	Fully sealed KBM-O- ... -VD	
12 <sup>1)</sup>	R0630 012 00	R0632 012 00	-	0.03
16 <sup>1)</sup>	R0630 016 00	R0632 016 00	-	0.04
20	R0630 020 00	R0632 020 00	R0632 020 05	0.08
25	R0630 025 00	R0632 025 00	R0632 025 05	0.15
30	R0630 030 00	R0632 030 00	R0632 030 05	0.26
40	R0630 040 00	R0632 040 00	R0632 040 05	0.52
50	R0630 050 00	R0632 050 00	R0632 050 05	0.95
60	R0630 060 00	R0632 060 00	R0632 060 05	1.76
80	R0630 080 00	R0632 080 00	R0632 080 05	3.92

1) No locating hole for radial and axial securing.

With 1 wiper seal: R0631 0.. 00.

**Explanation of sample short product name**

KB	M	O	12	DD
Linear bushing	Standard (metal)	Open	Ø 12	With two seals

See page 96 for more information on short product names.

Standard linear bushings

## Standard linear bushings, R0741 Flanged tandem Normal

### Design

- Hardened and machined outer sleeve
- POM ball retainer
- Balls made of rolling bearing steel
- Integrated wiper seals

## Standard linear bushings, R0741 Flanged tandem Stainless

### Design

- Hardened and machined outer sleeve made of stainless steel comparable to 1.4125
- Ball retainer made of stainless steel comparable to 1.4301, made of POM for shaft diameter 5
- Balls made of stainless steel comparable to 1.4125
- Retaining rings for ball retainer made of stainless steel comparable to 1.4006
- Flange made of stainless steel comparable to 1.4006
- Integrated wiper seals



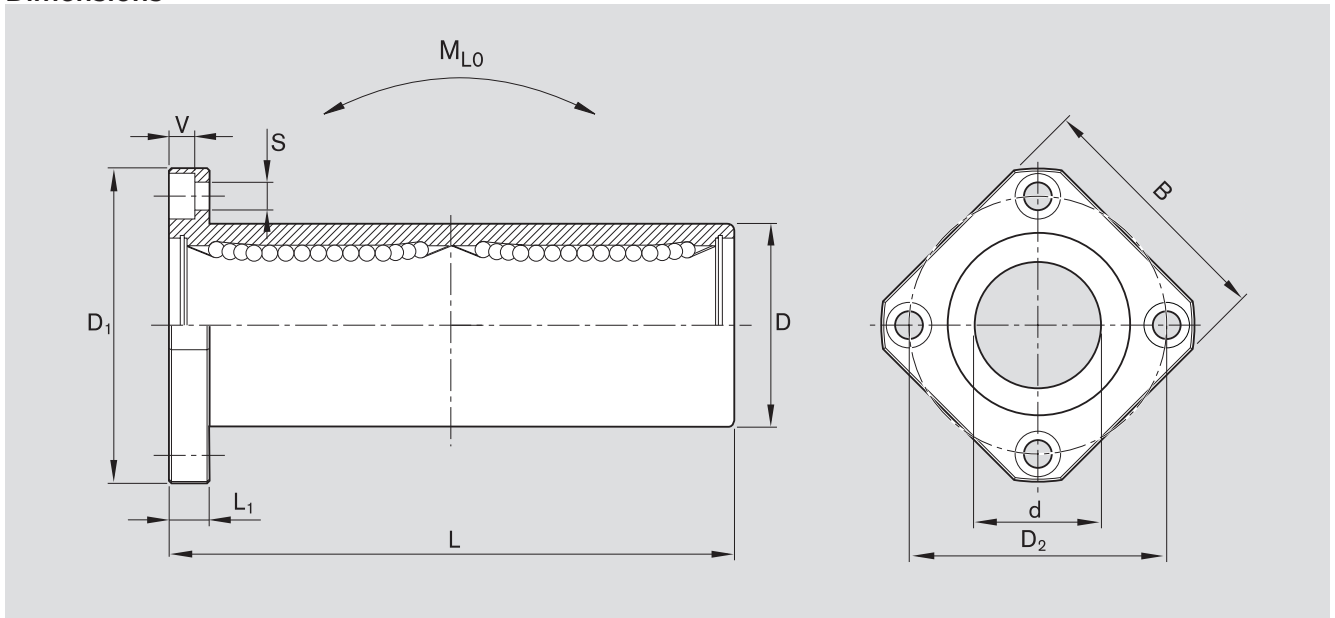
Shaft Ø d (mm)	Material number		Weight (kg)
	Normal KBMFT- ... -DD	Stainless KBMFT- ... -DD-NR	
8	R0741 508 00	R0741 208 30	0.05
12	R0741 512 00	R0741 212 30	0.09
16	R0741 516 00	R0741 216 30	0.14
20	R0741 520 00	R0741 220 30	0.23
25	R0741 525 00	R0741 225 30	0.50
30	R0741 530 00	R0741 230 30	0.72
40	R0741 540 00	R0741 240 30	1.60

### Explanation of sample short product name

KB	M	FT	12	DD	NR
Linear bushing	Standard (metal)	Flanged, tandem	Ø 12	With two seals	Stainless steel

See page 96 for more information on short product names.

Dimensions



Dimensions (mm)										Rows of balls	Working bore diameter tolerance (µm)	Radial clearance <sup>1)</sup> h6 shaft (µm)	Load ratings (N)				Linear torque M <sub>Lo</sub> (Nm)
Ø d	D	D <sub>1</sub>	D <sub>2</sub>	B	L	L <sub>1</sub>	V	S	dyn. C				stat. C <sub>0</sub>				
					±0.3							min.	max.	min.	max.		
8	16 <sub>-0.013</sub>	32	24	25	46	5	3.1	3.5	4	+9 -1	+15 +2	340	390	470	660	4.5	
12	22 <sub>-0.016</sub>	42	32	32	61	6	4.1	4.5	4	+9 -1	+17 +2	650	750	840	1,200	11	
16	26 <sub>-0.016</sub>	46	36	35	68	6	4.1	4.5	4	+11 -1	+19 +2	750	860	880	1,260	13	
20	32 <sub>-0.019</sub>	54	43	42	80	8	5.1	5.5	5	+11 -1	+20 +3	1,100	1,300	1,720	2,500	26	
25	40 <sub>-0.019</sub>	62	51	50	112	8	5.1	5.5	6	+13 -2	+22 +2	1,250	1,350	3,240	4,200	61	
30	47 <sub>-0.019</sub>	76	62	60	123	10	6.1	6.6	6	+13 -2	+22 +2	2,000	2,150	4,000	5,000	82	
40	62 <sub>-0.022</sub>	98	80	75	151	13	8.1	9.0	6	+16 -4	+27 +1	2,800	3,000	6,600	8,400	165	

1) Determined from working bore diameter and shaft tolerance statistics. Recommended housing bore tolerance: H6 or H7.

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.