



Linear sets with super linear bushings  or 



Linear sets, R1037 Open

Linear sets, R1038 Open



Design

- Lightweight precision housing (aluminum)
- Secured by grooved taper pin
- Super linear bushing with or without misalignment compensation
- Top wiper seals
- Relubricatable



Shaft Ø d (mm)	Material number		Weight (kg)
	Super linear bushing 	Super linear bushing 	
	Relubricatable With two wiper seals LSAO-A- ... -DD	Relubricatable With two wiper seals LSAO-B- ... -DD	
12	R1037 612 20	R1037 812 20	0.11
16	R1037 616 20	R1037 816 20	0.17
20	R1037 620 20	R1037 820 20	0.30
25	R1037 625 20	R1037 825 20	0.57
30	R1037 630 20	R1037 830 20	0.86
40	R1037 640 20	R1037 840 20	1.60
50	R1037 650 20	R1037 850 20	2.60



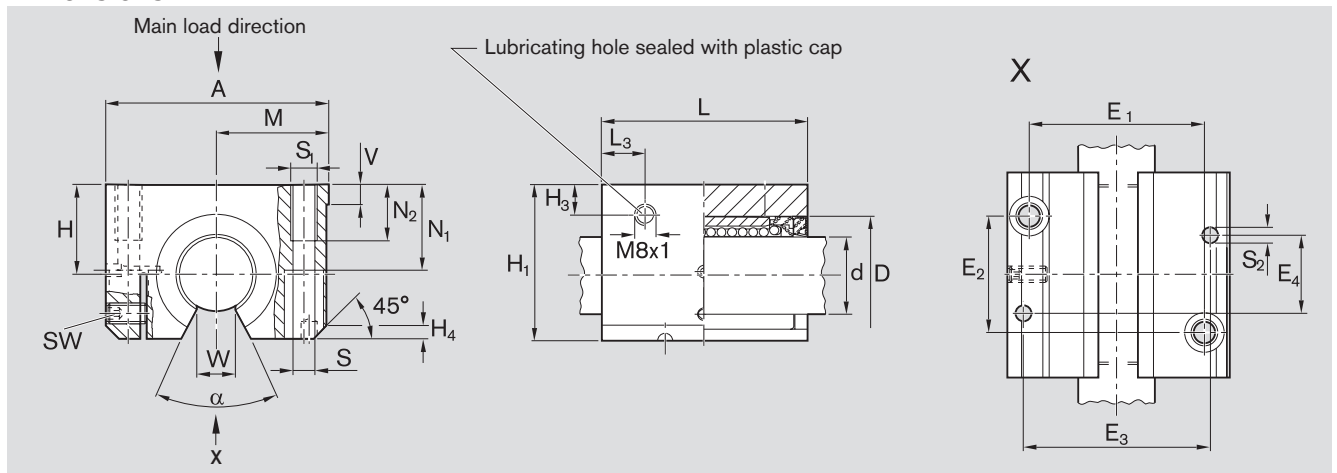
Shaft Ø d (mm)	Material number		Weight (kg)
	Super linear bushing 	Super linear bushing 	
	Relubricatable With two wiper seals LSAOE-A- ... -DD	Relubricatable With two wiper seals LSAOE-B- ... -DD	
12	R1038 612 20	R1038 812 20	0.11
16	R1038 616 20	R1038 816 20	0.17
20	R1038 620 20	R1038 820 20	0.30
25	R1038 625 20	R1038 825 20	0.57
30	R1038 630 20	R1038 830 20	0.86
40	R1038 640 20	R1038 840 20	1.60
50	R1038 650 20	R1038 850 20	2.60

Explanation of sample short product name

LS	A	O	E	B	20	DD
Linear set	Aluminum	Open	Adjustable	Super 	Ø 20	Two seals

See page 39 for more information on short product names.

Dimensions



Dimensions (mm)

Ø d	D	H ¹⁾ +0.008 -0.016	H ₁	M ¹⁾ ±0.01	A	L	E ₁	E ₂	E ₃	E ₄	S ²⁾	S ₁	S ₂ ³⁾	N ₁	N ₂	H ₃	L ₃	V	SW	W ⁴⁾	H ₄
12	22	18	28	21.5	43	39	32±0.15	23±0.15	34	32	4.3	M5	4	16.5	11	10.0	10.5	5.0	2.5	6.5	1.5
16	26	22	35	26.5	53	43	40±0.15	26±0.15	42	35	5.3	M6	4	21.0	13	10.0	11.5	5.0	2.5	9.0	2.5
20	32	25	42	30.0	60	54	45±0.15	32±0.15	50	45	6.6	M8	5	24.0	18	10.0	13.5	5.0	2.5	9.0	3.5
25	40	30	51	39.0	78	67	60±0.15	40±0.15	64	20	8.4	M10	6	29.0	22	10.0	15.0	6.5	3.0	11.5	4.0
30	47	35	60	43.5	87	79	68±0.15	45±0.15	72	30	8.4	M10	6	34.0	22	11.5	16.0	8.0	3.0	14.0	6.0
40	62	45	77	54.0	108	91	86±0.15	58±0.15	90	35	10.5	M12	8	44.0	26	14.0	18.0	10.0	4.0	19.5	6.0
50	75	50	88	66.0	132	113	108±0.20	50±0.20	108	42	13.5	M16	10	49.0	34	12.5	22.0	12.0	5.0	22.5	6.0

Ø d (mm)	Angle α (°)	Radial clearance ⁵⁾ (µm)		Load ratings ⁶⁾ (N)	
		R1037 h6 shaft	R1038	dyn. C	stat. C ₀
12	66	+28 -1	Comes clamped to h5 shaft (lower limit) and set to zero clearance	1,060	510
16	68	+28 -1		1,500	830
20	55	+31 -2		2,570	1,180
25	57	+31 -2		5,040	2,470
30	57	+31 -2		5,020	2,880
40	56	+35 -3		8,620	4,480
50	54	+35 -3		12,500	6,620

- 1) Clamped (fastened) in relation to Ø d.
- 2) ISO 4762-8.8 fastening bolts.
- 3) Pin centering.
- 4) Minimum size in relation to Ø d.
- 5) Clamped (fastened).
- 6) 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 41 for load in the direction of opening.