



Linear sets with super linear bushings  or 

### Linear sets, R1071 Side opening



### Linear sets, R1072 Side opening, adjustable

#### Design



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

Load exerted on the direction of opening of open linear bushings usually results in a considerable reduction in load rating. In order to prevent this and facilitate the installation of specific open linear bushings, the lightweight linear set with side opening was developed.



Shaft Ø d (mm)	Material number		Weight (kg)
	Super linear bushing  Relubricatable With two wiper seals LSAS-A- ... -DD	Super linear bushing  Relubricatable With two wiper seals LSAS-B- ... -DD	
20	R1071 620 20	R1071 820 20	0.42
25	R1071 625 20	R1071 825 20	0.80
30	R1071 630 20	R1071 830 20	1.20
40	R1071 640 20	R1071 840 20	2.00
50	R1071 650 20	R1071 850 20	3.20



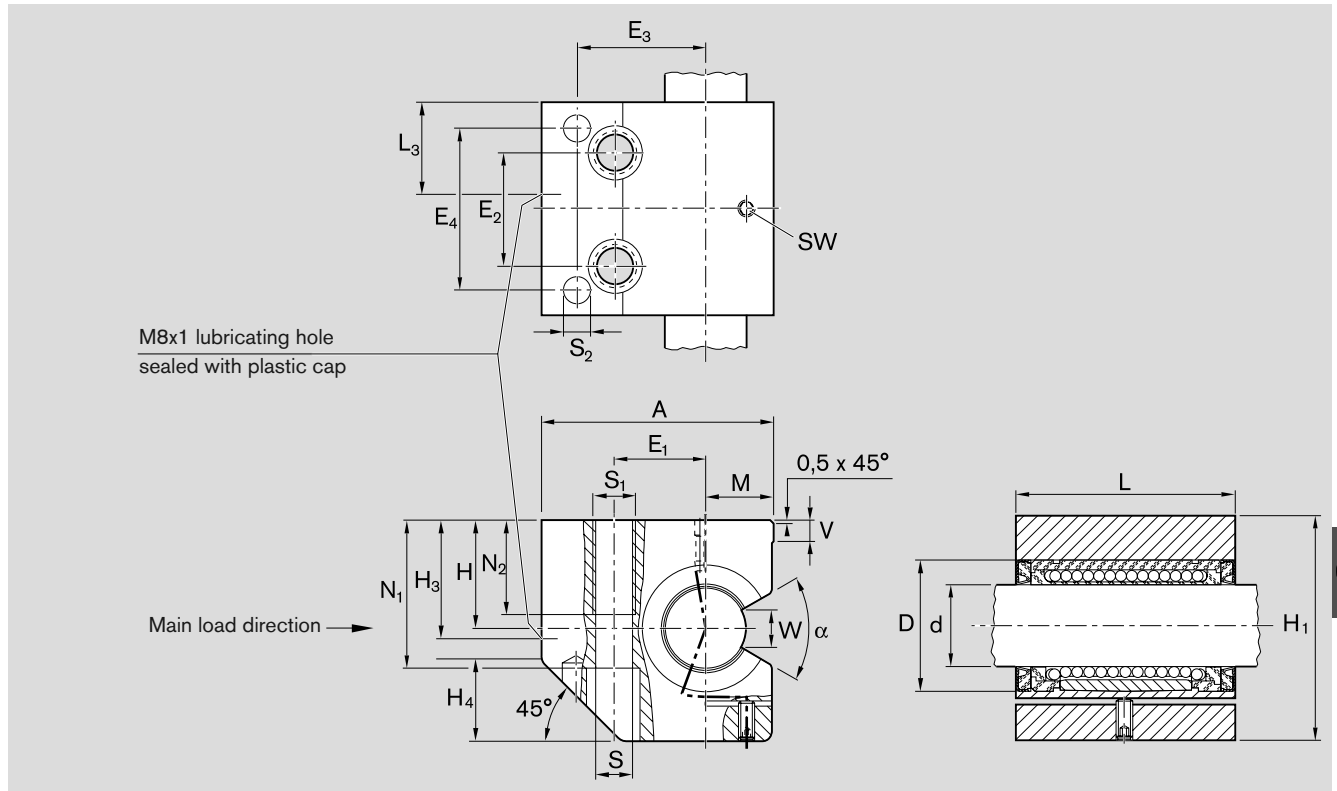
Shaft Ø d (mm)	Material number		Weight (kg)
	Super linear bushing  Relubricatable With two wiper seals LSASE-A- ... -DD	Super linear bushing  Relubricatable With two wiper seals LSASE-B- ... -DD	
20	R1072 620 20	R1072 820 20	0.42
25	R1072 625 20	R1072 825 20	0.80
30	R1072 630 20	R1072 830 20	1.20
40	R1072 640 20	R1072 840 20	2.00
50	R1072 650 20	R1072 850 20	3.20

#### Explanation of sample short product name

LS	A	S	E	B	20	DD
Linear set	Aluminum	Side opening	Adjustable	Super 	Ø 20	Two seals

See page 39 for more information on short product names.

Dimensions



Dimensions (mm)																					
Ø d	D	H <sup>1)</sup> +0.008 -0.016	H <sub>1</sub>	M <sup>1)</sup> ±0.01	A	L	E <sub>1</sub> ±0.15	E <sub>2</sub> ±0.15	E <sub>3</sub>	E <sub>4</sub>	S <sup>2)</sup>	S <sub>1</sub>	S <sub>2</sub> <sup>3)</sup>	N <sub>1</sub>	N <sub>2</sub>	V	SW	W <sup>4)</sup>	H <sub>3</sub>	L <sub>3</sub>	H <sub>4</sub>
20	32	30	60	17	60	54	22	30	33	42	8.4	M10	6	42	15	5.0	2.5	9.0	32	23.5	22
25	40	35	72	21	75	67	28	36	42	52	10.5	M12	8	50	18	6.5	3.0	11.5	38	29.0	26
30	47	40	82	25	86	79	34	42	48	60	13.5	M16	10	55	24	8.0	3.0	14.0	44	34.0	30
40	62	45	100	32	110	91	43	48	62	68	15.5	M20	12	67	30	10.0	4.0	19.5	50	40.0	38
50	75	50	115	38	127	113	50	62	70	85	17.5	M20	12	78	30	12.0	5.0	22.5	56	48.0	45

Shaft Ø d (mm)	Angle α (°)	Radial clearance <sup>5)</sup> (µm)		Load ratings <sup>6)</sup> (N)	
		R1071 h6 shaft	R1072	dyn. C	stat. C <sub>0</sub>
20	55	+31 -2	Comes clamped to h5 shaft (lower limit) and set to zero clearance	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.

See the notes on installing linear sets with side opening.

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