

LOCKED SL

Combined clamping and braking

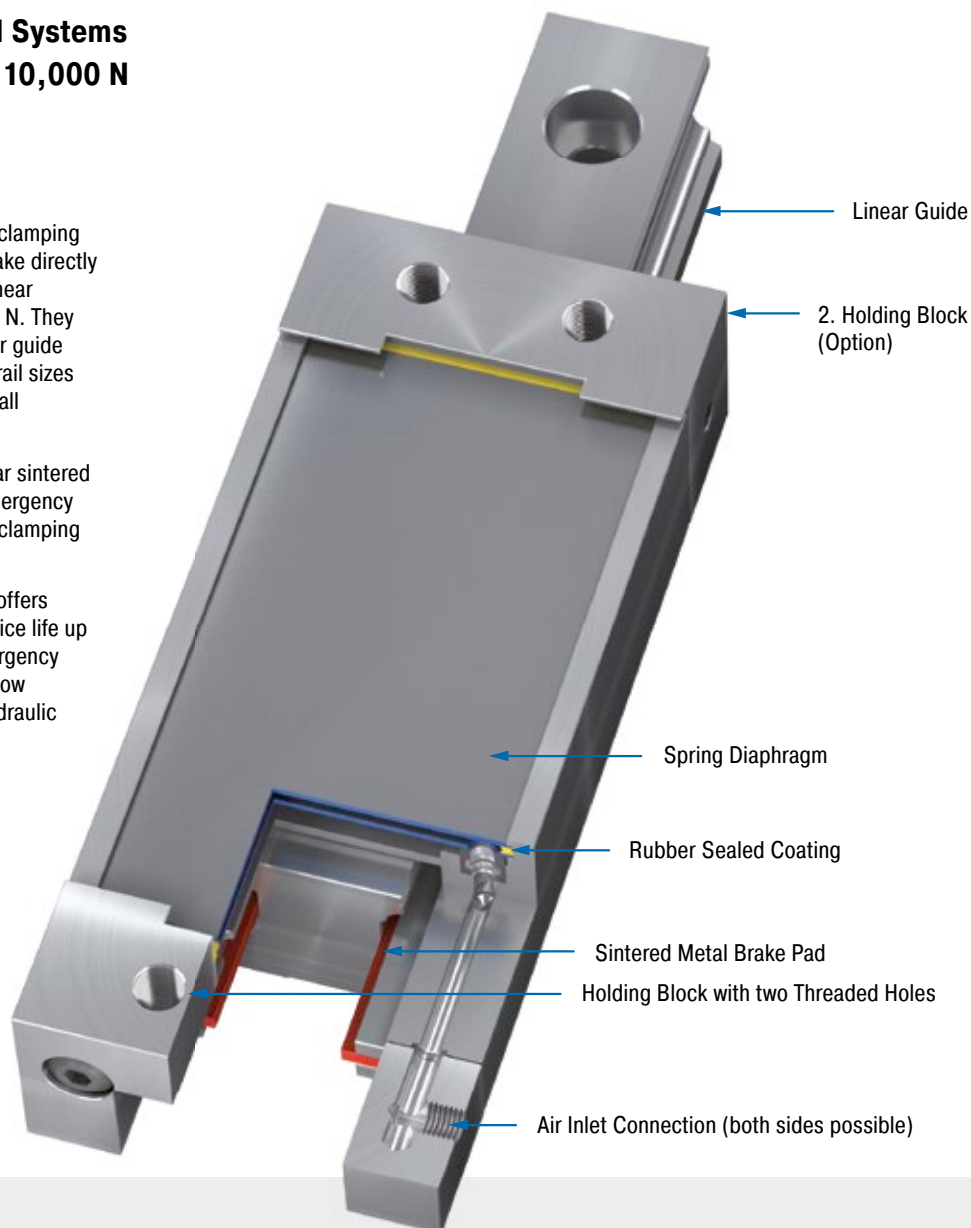
Safety Clamping for Rail Systems Holding forces 540 N to 10,000 N

Always on the safe side: The safety clamping elements LOCKED SL clamp and brake directly on the clear area of guide rails on linear modules with forces of up to 10,000 N. They are individually adjusted to the linear guide being used and are available for all rail sizes from 20 to 65 mm and profiles from all renowned manufacturers.

Special brake pads made of low wear sintered metal are used for the additional emergency stop braking functions in the safety clamping elements

LOCKED SL. The SL product family offers optimum static clamping with a service life up to 1 million cycles or up to 500 emergency braking operations. They also offer low system costs in comparison with hydraulic and electric solutions.

Anwender nutzen die LOCKED SL besonders im Maschinen- und Sondermaschinenbau.



Technical Data

Holding forces: 540 N to 10,000 N

Rail sizes: 20 mm to 65 mm

Clamping cycles/emergency use: 500

Clamping cycles: 1,000,000

Mounting: In any position

Operating pressure: 4 bar (automotive) or 6 bar

Material: Outer body: Tool steel

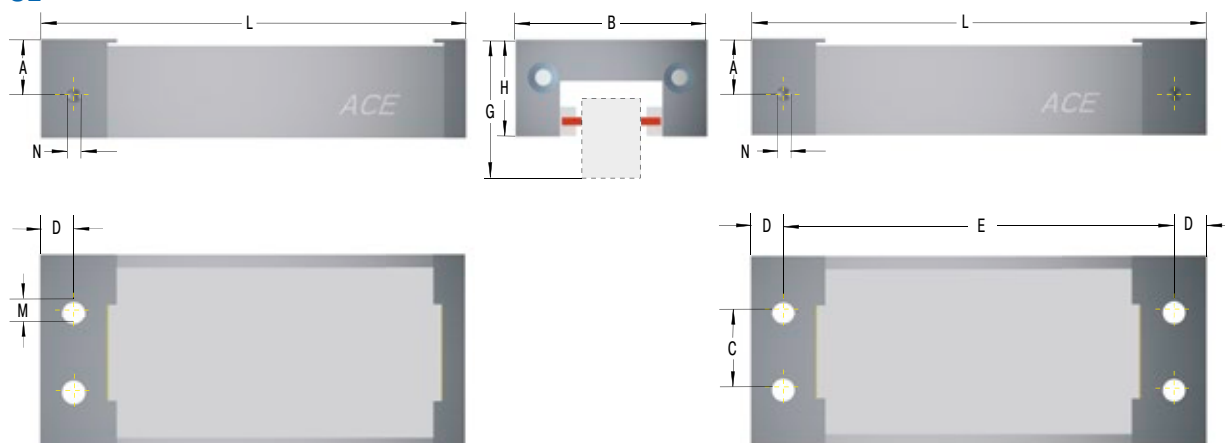
Pneumatic medium: Dried, filtered air

Operating temperature range: 15 °C to 45 °C

Application field: Tool machines, Transport systems, Feeder installations, Positioning tables, Assembly stations

Note: If requested installation drawings of the respective types are provided.

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The calculation and selection of the most suitable clamping element should be carried out or be approved by ACE.

Complete details required when ordering

Operating pressure: 4 bar or 6 bar
Number of holding blocks
Rail manufacturer, rail type, rail size
Carriage type name
Number of clamping cycles per hour

Ordering Example

Linear Safety Clamping _____
Rail Nominal Size 55 mm _____
Number of Holding Blocks 1 _____
4B = 4 bar Type _____
6B = 6 bar Type _____
Series Number assigned by ACE _____

SL55-1-4B-X

Performance and Dimensions

								Low Carriage			High Carriage					
TYPES	¹ Holding force N	Operating pressure bar	B mm	C mm	D mm	E mm	L mm	A	G	H	A	G	H	M	N	Weight kg
								mm	mm	mm	mm	mm	mm			
SL20-1-4B	540	4	43	12	6	-	97.5	13.5	30	19.5	-	-	-	M5	M5	0.32
SL20-1-6B	900	6	43	12	6	-	97.5	13.5	30	19.5	-	-	-	M5	M5	0.32
SL25-1-4B	780	4	47	16	6	-	117.5	15.5	36	25	19.5	40	29	M6	M5	0.50
SL25-1-6B	1,200	6	47	16	6	-	117.5	15.5	36	25	19.5	40	29	M6	M5	0.50
SL30-1-4B	1,100	4	59	18	10	-	126.5	17.0	42	29.5	20.0	45	32.5	M8	M5	0.90
SL30-1-6B	1,800	6	59	18	10	-	126.5	17.0	42	29.5	20.0	45	32.5	M8	M5	0.90
SL35-1-4B	1,800	4	69	22	10	-	156.5	22.5	48	35	29.5	55	42	M10	G1/8	1.26
SL35-1-6B	2,800	6	69	22	10	-	156.5	22.5	48	35	29.5	55	42	M10	G1/8	1.26
SL45-1-4B	2,400	4	80	28	10	-	176.5	26.5	60	42	36.5	70	52	M10	G1/8	2.30
SL45-1-6B	4,000	6	80	28	10	-	176.5	26.5	60	42	36.5	70	52	M10	G1/8	2.30
SL45-2-4B	2,400	4	80	28	10	171.2	191.5	26.5	60	42	36.5	70	52	M10	G1/8	2.30
SL45-2-6B	4,000	6	80	28	10	171.2	191.5	26.5	60	42	36.5	70	52	M10	G1/8	2.30
SL55-1-4B	3,600	4	98	34	12.5	-	202.5	28.0	70	49	38.0	80	59	M10	G1/8	3.90
SL55-1-6B	6,000	6	98	34	12.5	-	202.5	28.0	70	49	38.0	80	59	M10	G1/8	3.90
SL55-2-4B	3,600	4	98	34	12.5	196.2	221.5	28.0	70	49	38.0	80	59	M10	G1/8	3.90
SL55-2-6B	6,000	6	98	34	12.5	196.2	221.5	28.0	70	49	38.0	80	59	M10	G1/8	3.90
SL65-1-4B	6,000	4	120	44	15	-	259.5	38.0	90	64	48.0	100	74	M12	G1/8	5.00
SL65-1-6B	10,000	6	120	44	15	-	259.5	38.0	90	64	48.0	100	74	M12	G1/8	5.00
SL65-2-4B	6,000	4	120	44	15	251.2	281.5	38.0	90	64	48.0	100	74	M12	G1/8	5.20
SL65-2-6B	10,000	6	120	44	15	251.2	281.5	38.0	90	64	48.0	100	74	M12	G1/8	5.20

¹ The holding forces as shown in the capacity chart were determined on dry rails for roller systems (STAR, INA). Different holding forces may occur for other rails.