LOCKED SLK

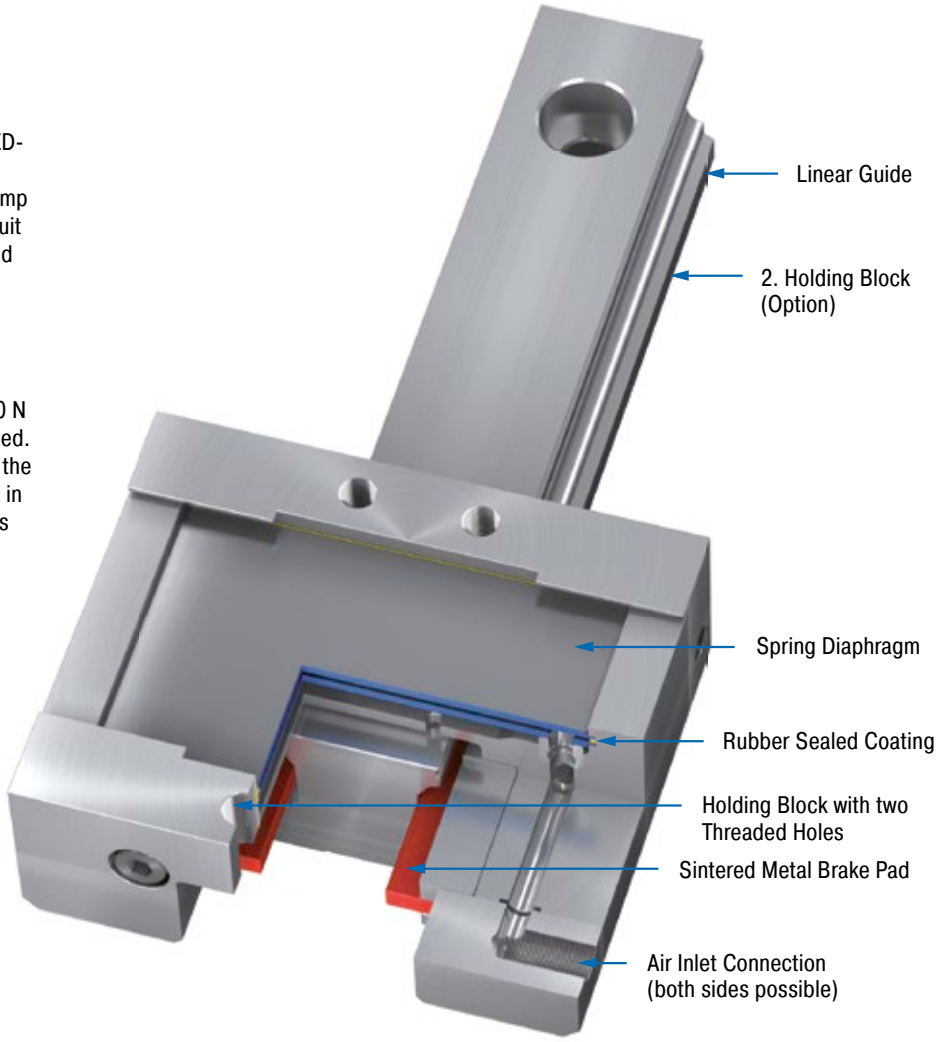
Combined compact design clamping and braking

Safety Clamping for Rail Systems, Compact
Holding forces 300 N to 2,100 N

Small can clamp perfectly too: The LOCKED-Family SLK clamping elements are more compact than the Series SL. They also clamp directly onto the respective linear guide, suit all standard rail sizes from 15 to 55 mm and profiles from the known suppliers and are extremely reliable and safe.

Thanks to the patented spring steel plate system, the product family SLK achieves clamping and holding forces of up to 2,100 N with the shortest reaction times when vented. Thanks to the sintered metal coatings and the clamping function in emergency stop (e.g. in case of a power failure), this range enables braking directly on the rail. All clamping elements offer the maximum holding and braking forces and achieve up to 1 million clamping cycles or up to a maximum of 500 emergency braking operations in the 4 and 6 bar version.

LOCKED SLK are used in mechanical engineering and customised mechanical engineering.



Technical Data

Holding forces: 300 N to 2,100 N

Rail sizes: 15 mm to 55 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

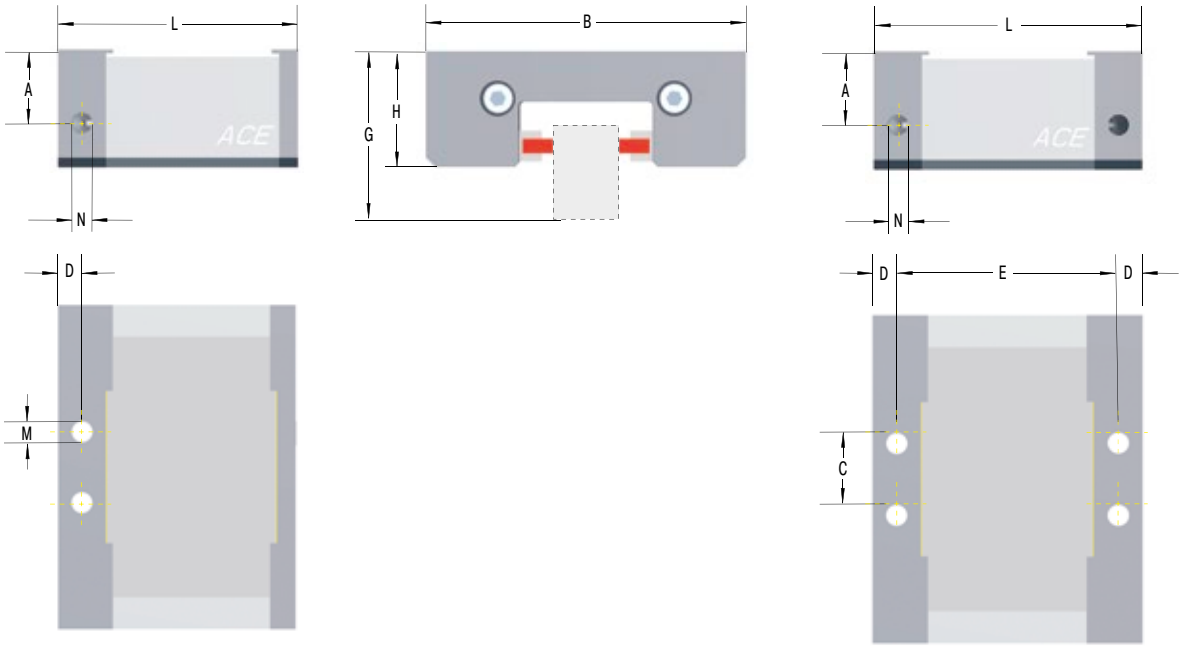
Application field: Tool machines, Transport systems, Feeder installations, Positioning tables, Assembly stations

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

On request: Special designs on request.

Issue 07.2017 – Specifications subject to change

SLK



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 **SLK45-1-4B-X**

Linear Safety Clamping Compact
Rail Nominal Size 45 mm
Number of Holding Blocks 1
4B = 4 bar Type
6B = 6 bar Type
Series Number assigned by ACE

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 mm	G mm	H mm	A mm	G mm	H mm	M	N	Weight kg
SLK15-1-4B	300	4	45	12	5	-	55.5	14.0	24	18	14.0	-	-	M5	M5	0.50
SLK15-1-6B	450	6	45	12	5	-	55.5	14.0	24	18	14.0	-	-	M5	M5	0.50
SLK20-1-4B	430	4	54	16	5	-	55.5	16.0	30	22	16.0	-	-	M6	M5	0.60
SLK20-1-6B	650	6	54	16	5	-	55.5	16.0	30	22	16.0	-	-	M6	M5	0.60
SLK25-1-4B	530	4	75	16	5	-	55.5	16.0	36	25.5	16.0	40	29.5	M6	M5	0.70
SLK25-1-6B	800	6	75	16	5	-	55.5	16.0	36	25.5	16.0	40	29.5	M6	M5	0.70
SLK30-1-4B	750	4	82	18	8.75	-	67	21.0	42	30	21.0	45	33	M8	M5	0.90
SLK30-1-6B	1,150	6	82	18	8.75	-	67	21.0	42	30	21.0	45	33	M8	M5	0.90
SLK35-1-4B	820	4	96	22	8.75	-	67	21.2	48	35	21.2	55	42	M10	G1/8	1.27
SLK35-1-6B	1,250	6	96	22	8.75	-	67	21.2	48	35	21.2	55	42	M10	G1/8	1.27
SLK45-1-4B	950	4	116	28	10	-	80	27.5	60	45	27.5	70	55	M10	G1/8	2.00
SLK45-1-6B	1,500	6	116	28	10	-	80	27.5	60	45	27.5	70	55	M10	G1/8	2.00
SLK45-2-4B	950	4	116	28	10	72	92	27.5	60	45	27.5	70	55	M10	G1/8	2.20
SLK45-2-6B	1,500	6	116	28	10	72	92	27.5	60	45	27.5	70	55	M10	G1/8	2.20
SLK55-1-4B	1,300	4	136	34	10	-	100	30.5	70	49	30.5	80	59	M10	G1/8	2.80
SLK55-1-6B	2,100	6	136	34	10	-	100	30.5	70	49	30.5	80	59	M10	G1/8	2.80
SLK55-2-4B	1,300	4	136	34	10	92	112	30.5	70	49	30.5	80	59	M10	G1/8	3.00
SLK55-2-6B	2,100	6	136	34	10	92	112	30.5	70	49	30.5	80	59	M10	G1/8	3.00

[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.

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