

LOCKED PL

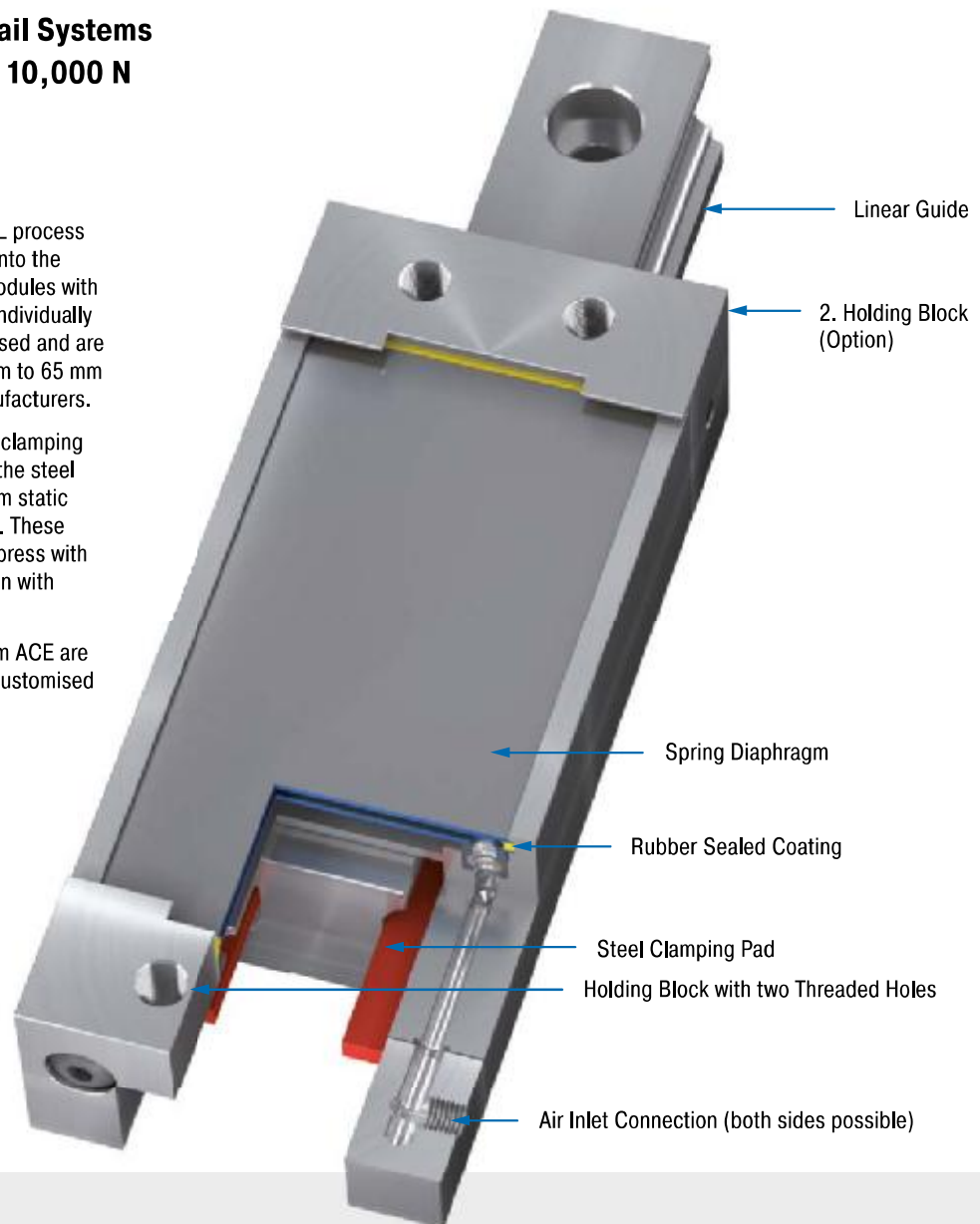
High clamping power for all rail profiles

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

Always on the safe side: LOCKED PL process clamping elements clamp directly onto 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 mm to 65 mm and profiles from all renowned manufacturers.

This product family achieves 100 % clamping force even on greased rails, due to the steel pads that are used. It offers optimum static clamping with up to 1 million cycles. These process clamping elements also impress with their low system costs in comparison with hydraulic and electric solutions.

The various LOCKED PL models from ACE are mainly used on machine tools and customised machines.



Technical Data

Holding forces: 540 N to 10,000 N

Rail sizes: 20 mm to 65 mm

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

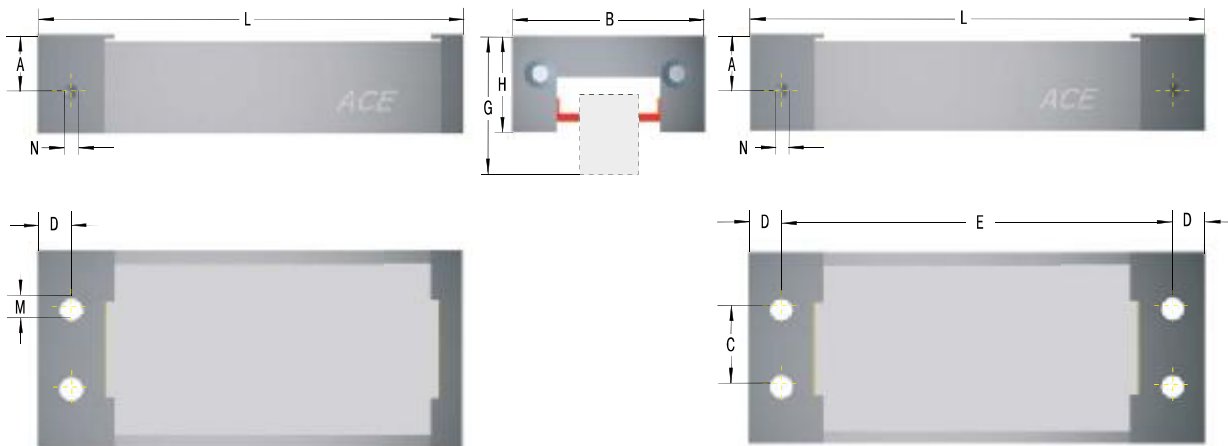
Operating temperature range: 15 °C to 45 °C

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.

PL



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 Process Clamping **PL45-2-6B-X**
 Rail Nominal Size 45 mm
 Number of Holding Blocks 2
 6B = 6 bar Type
 4B = 4 bar Type
 Series Number assigned by ACE

Performance and Dimensions

TYPES	Holding force N	Operating pressure bar	B mm	C mm	D mm	E mm	L mm	Low Carriage			High Carriage			M	N	Weight kg
								A mm	G mm	H mm	A mm	G mm	H mm			
PL20-1-4B	540	4	43	12	6	-	97.5	13.5	30	19.5	-	-	-	M5	M5	0.32
PL20-1-6B	900	6	43	12	6	-	97.5	13.5	30	19.5	-	-	-	M5	M5	0.32
PL25-1-4B	780	4	47	16	6	-	117.5	15.5	36	25	19.5	40	29	M6	M5	0.50
PL25-1-6B	1,200	6	47	16	6	-	117.5	15.5	36	25	19.5	40	29	M6	M5	0.50
PL30-1-4B	1,100	4	59	18	10	-	126.5	17.0	42	29.5	20.0	45	32.5	M8	M5	0.90
PL30-1-6B	1,800	6	59	18	10	-	126.5	17.0	42	29.5	20.0	45	32.5	M8	M5	0.90
PL35-1-4B	1,800	4	69	22	10	-	156.5	22.5	48	35	29.5	55	42	M10	G1/8	1.26
PL35-1-6B	2,800	6	69	22	10	-	156.5	22.5	48	35	29.5	55	42	M10	G1/8	1.26
PL45-1-4B	2,400	4	80	28	10	-	176.5	26.5	60	42	36.5	70	52	M10	G1/8	2.30
PL45-1-6B	4,000	6	80	28	10	-	176.5	26.5	60	42	36.5	70	52	M10	G1/8	2.30
PL45-2-4B	2,400	4	80	28	10	171.2	191.5	26.5	60	42	36.5	70	52	M10	G1/8	2.30
PL45-2-6B	4,000	6	80	28	10	171.2	191.5	26.5	60	42	36.5	70	52	M10	G1/8	2.30
PL55-1-4B	3,600	4	98	34	12.5	-	202.5	28.0	70	49	38.0	80	59	M10	G1/8	3.90
PL55-1-6B	6,000	6	98	34	12.5	-	202.5	28.0	70	49	38.0	80	59	M10	G1/8	3.90
PL55-2-4B	3,600	4	98	34	12.5	196.2	221.5	28.0	70	49	38.0	80	59	M10	G1/8	4.10
PL55-2-6B	6,000	6	98	34	12.5	196.2	221.5	28.0	70	49	38.0	80	59	M10	G1/8	4.10
PL65-1-4B	6,000	4	120	44	15	-	259.5	38.0	90	64	48.0	100	74	M12	G1/8	5.00
PL65-1-6B	10,000	6	120	44	15	-	259.5	38.0	90	64	48.0	100	74	M12	G1/8	5.00
PL65-2-4B	6,000	4	120	44	15	251.5	281.5	38.0	90	64	48.0	100	74	M12	G1/8	5.20
PL65-2-6B	10,000	6	120	44	15	251.5	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.

LOCKED PLK

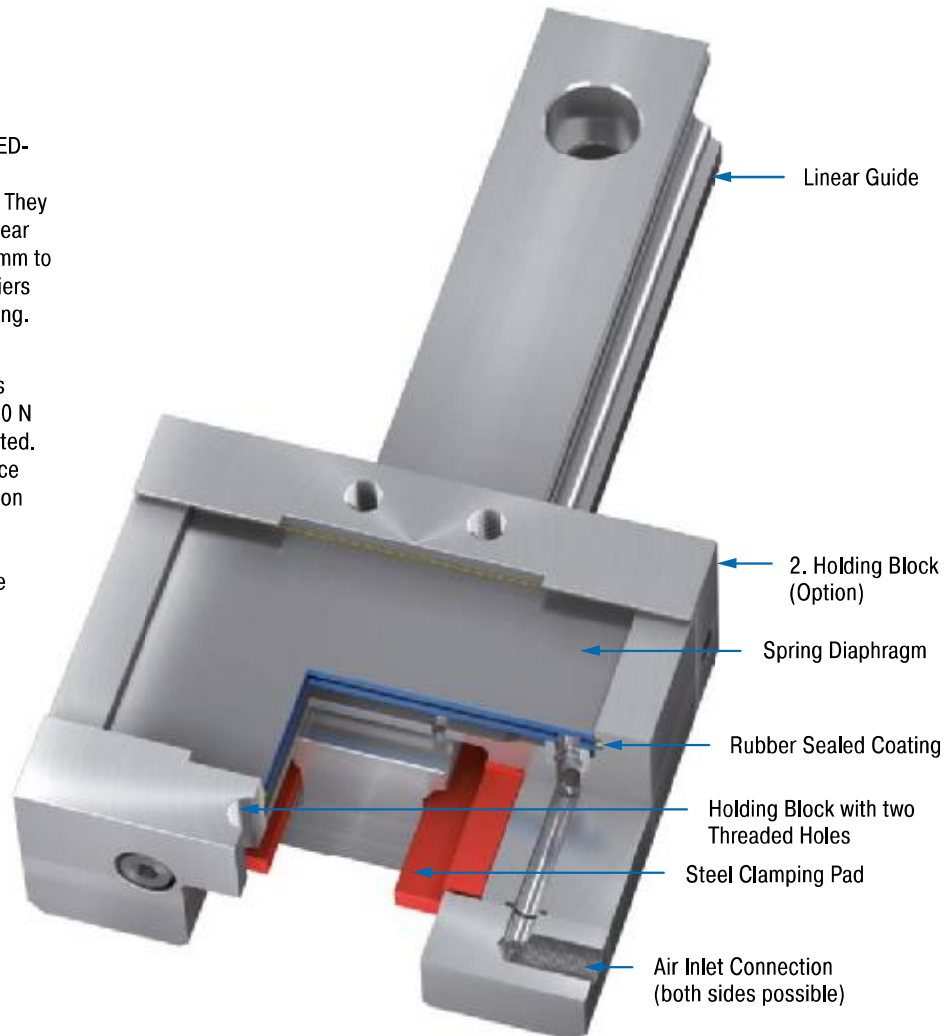
High clamping power for all compact design rail profiles

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

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

Thanks to the patented spring steel plate system, the LOCKED-Family PLK achieves clamping and holding forces of up to 2,100 N with the shortest reaction times when vented. LOCKED PLK achieve 100 % clamping force due to the steel pads that are used, even on greased rails. The clamping elements represent the maximum holding forces. Whether in the 4 or 6 bar version, they are good for up to 1 million cycles.

LOCKED PLK clamping elements from ACE are primarily used in mechanical engineering and customised machines.



Technical Data

Holding forces: 300 N to 2,100 N

Rail sizes: 15 mm to 55 mm

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

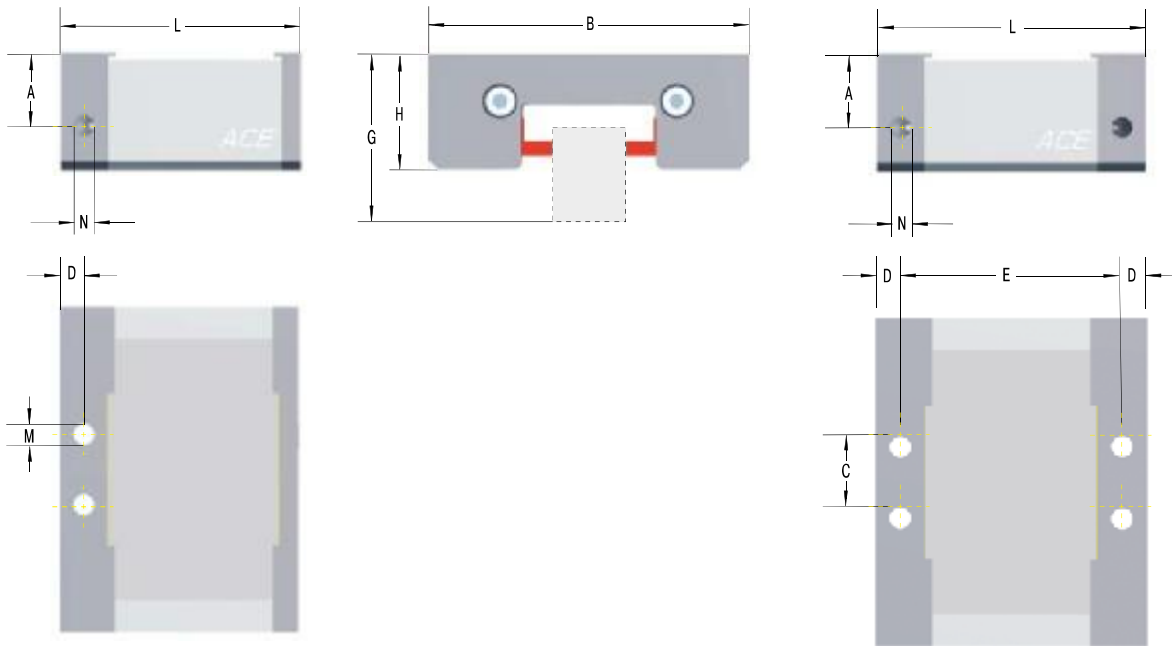
Operating temperature range: 15 °C to 45 °C

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.

PLK



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 Process Clamping Compact **PLK55-2-6B-X**
 Rail Nominal Size 55 mm
 Number of Holding Blocks 2
 6B = 6 bar Type
 4B = 4 bar Type
 Series Number assigned by ACE

Performance and Dimensions

TYPES	Holding force N	Operating pressure bar	Low Carriage					High Carriage			M	N	Weight kg			
			B mm	C mm	D mm	E mm	L mm	A mm	G mm	H mm						
PLK15-1-4B	300	4	45	12	5	-	55.5	14.0	24	18	14.0	-	-	M5	M5	0.50
PLK15-1-6B	450	6	45	12	5	-	55.5	14.0	24	18	14.0	-	-	M5	M5	0.50
PLK20-1-4B	430	4	54	16	5	-	55.5	16.0	30	22	16.0	-	-	M6	M5	0.60
PLK20-1-6B	650	6	54	16	5	-	55.5	16.0	30	22	16.0	-	-	M6	M5	0.60
PLK25-1-4B	530	4	75	16	5	-	55.5	16.0	36	25.5	16.0	40	29.5	M6	M5	0.70
PLK25-1-6B	800	6	75	16	5	-	55.5	16.0	36	25.5	16.0	40	29.5	M6	M5	0.70
PLK30-1-4B	750	4	89	18	8.75	-	67	21.0	42	30	21.0	45	33	M8	M5	0.90
PLK30-1-6B	1,150	6	89	18	8.75	-	67	21.0	42	30	21.0	45	33	M8	M5	0.90
PLK35-1-4B	820	4	96	22	8.75	-	67	21.2	48	35	21.2	55	42	M10	G1/8	1.27
PLK35-1-6B	1,250	6	96	22	8.75	-	67	21.2	48	35	21.2	55	42	M10	G1/8	1.27
PLK45-1-4B	950	4	116	28	10	-	80	27.5	60	45	27.5	70	55	M10	G1/8	2.00
PLK45-1-6B	1,500	6	116	28	10	-	80	27.5	60	45	27.5	70	55	M10	G1/8	2.00
PLK45-2-4B	950	4	116	28	10	72	92	27.5	60	45	27.5	70	55	M10	G1/8	2.20
PLK45-2-6B	1,500	6	116	28	10	72	92	27.5	60	45	27.5	70	55	M10	G1/8	2.20
PLK55-1-4B	1,300	4	136	34	10	-	100	30.5	70	49	30.5	80	59	M10	G1/8	2.80
PLK55-1-6B	2,100	6	136	34	10	-	100	30.5	70	49	30.5	80	59	M10	G1/8	2.80
PLK55-2-4B	1,300	4	136	34	10	92	112	30.5	70	49	30.5	80	59	M10	G1/8	3.00
PLK55-2-6B	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.

LOCKED SL

Combined clamping and braking

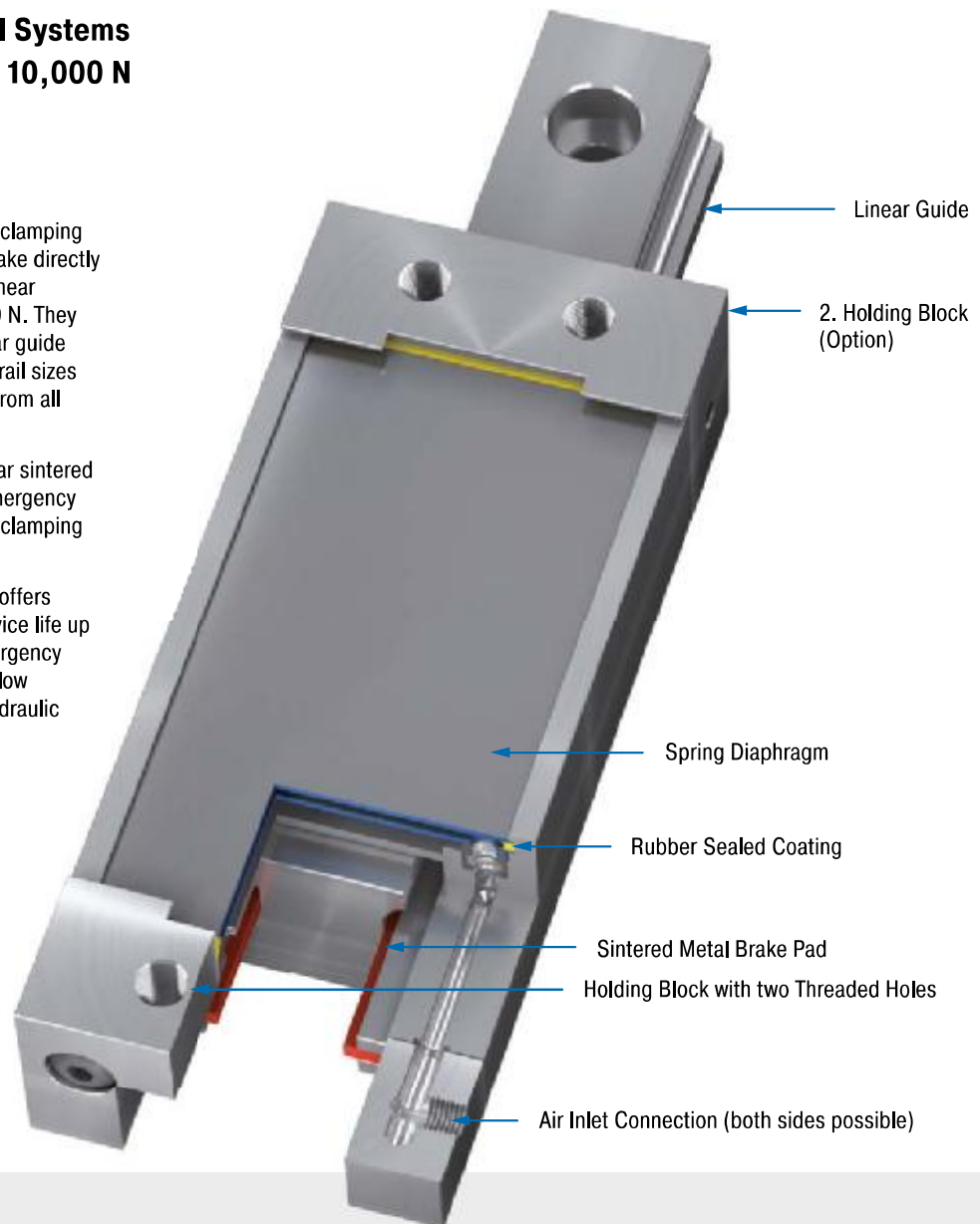
Safety Clamping for Rail Systems Holding forces 540 N to 10,000 N

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 mm 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

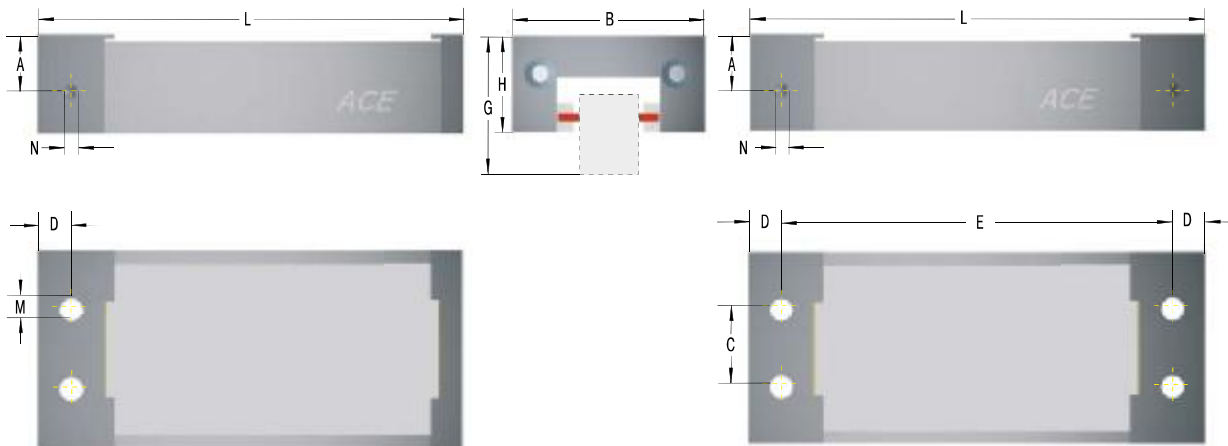
Material: Outer body: Tool steel; Brake components: Sintered graphite

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.

SL


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 _____ **SL55-1-4B-X**
 Rail Nominal Size 55 mm _____
 Number of Holding Blocks 1 _____
 4B = 4 bar Type _____
 6B = 6 bar Type _____
 Series Number assigned by ACE _____

Performance and Dimensions

TYPES	Holding force N	Operating pressure bar	B mm	C mm	D mm	E mm	L mm	Low Carriage			High Carriage			M	N	Weight kg
								A mm	G mm	H mm	A mm	G mm	H 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.

LOCKED SLK

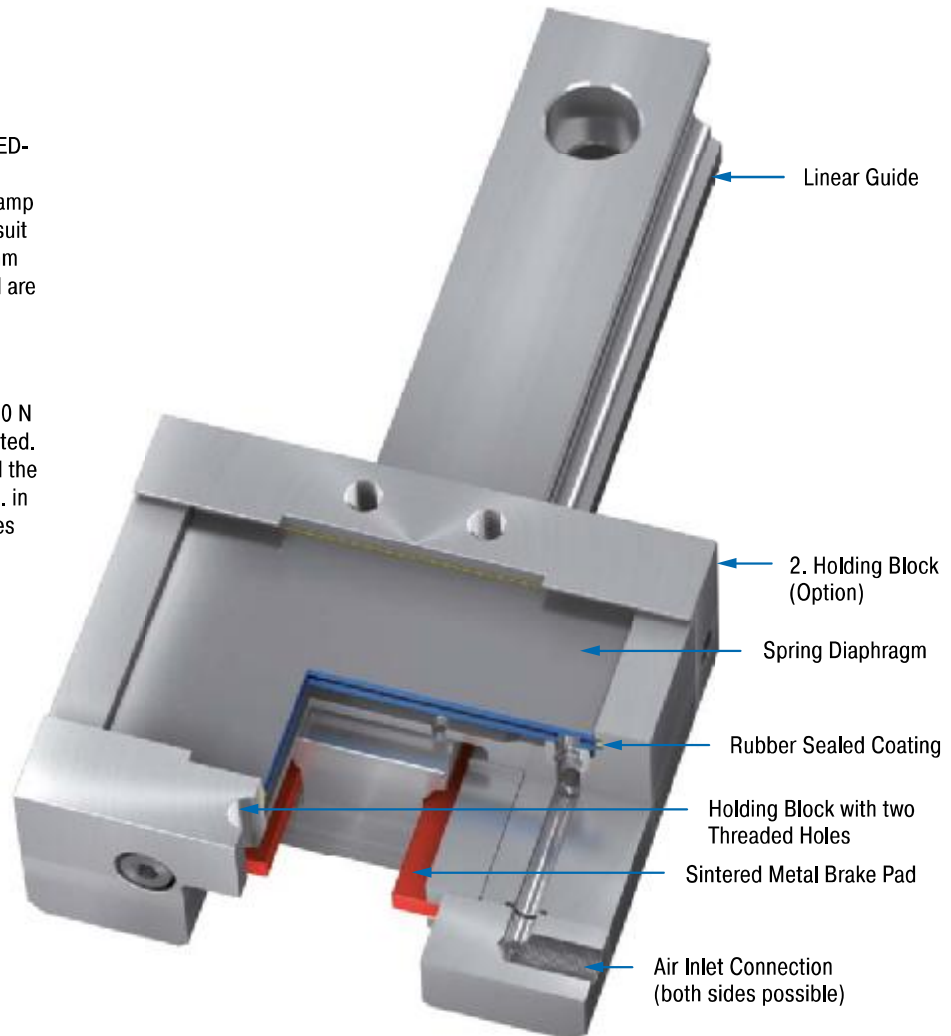
Combined compact design clamping and braking

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 mm 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; Brake components: Sintered graphite

Pneumatic medium: Dried, filtered air

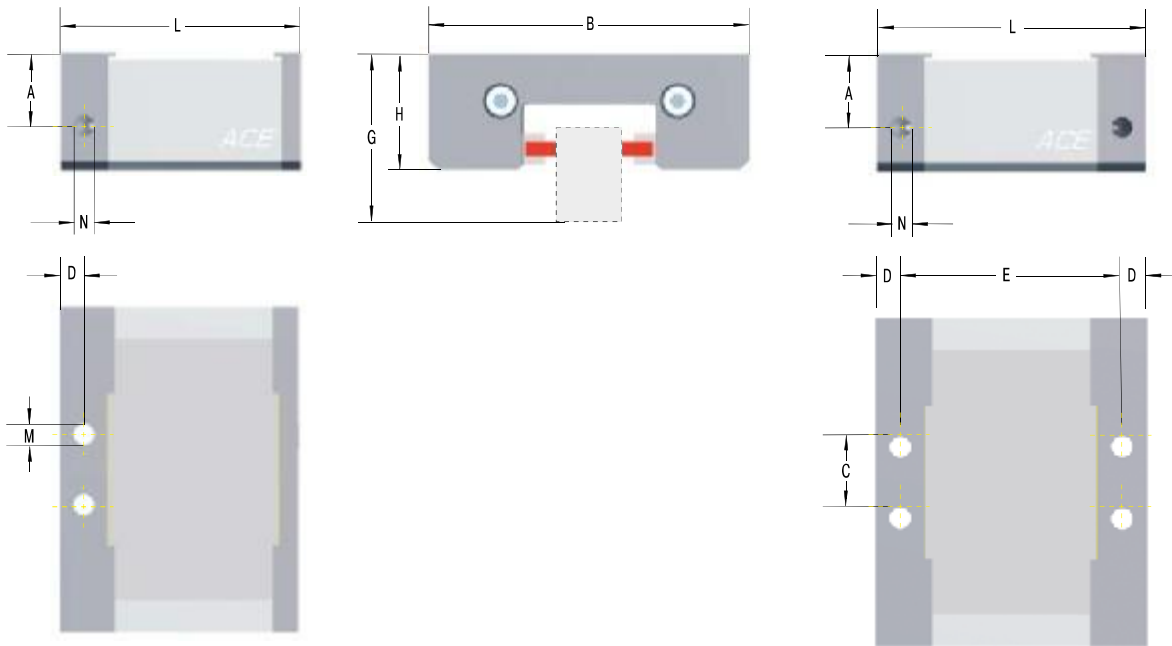
Operating temperature range: 15 °C to 45 °C

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.

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

Linear Safety Clamping Compact SLK45-1-4B-X
 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

TYPES	Holding force N	Operating pressure bar	Low Carriage					High Carriage			M	N	Weight kg			
			B mm	C mm	D mm	E mm	L mm	A mm	G mm	H mm						
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	89	18	8.75	-	67	21.0	42	30	21.0	45	33	M8	M5	0.90
SLK30-1-6B	1,150	6	89	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.

LOCKED LZ-P

Certified safety clamping

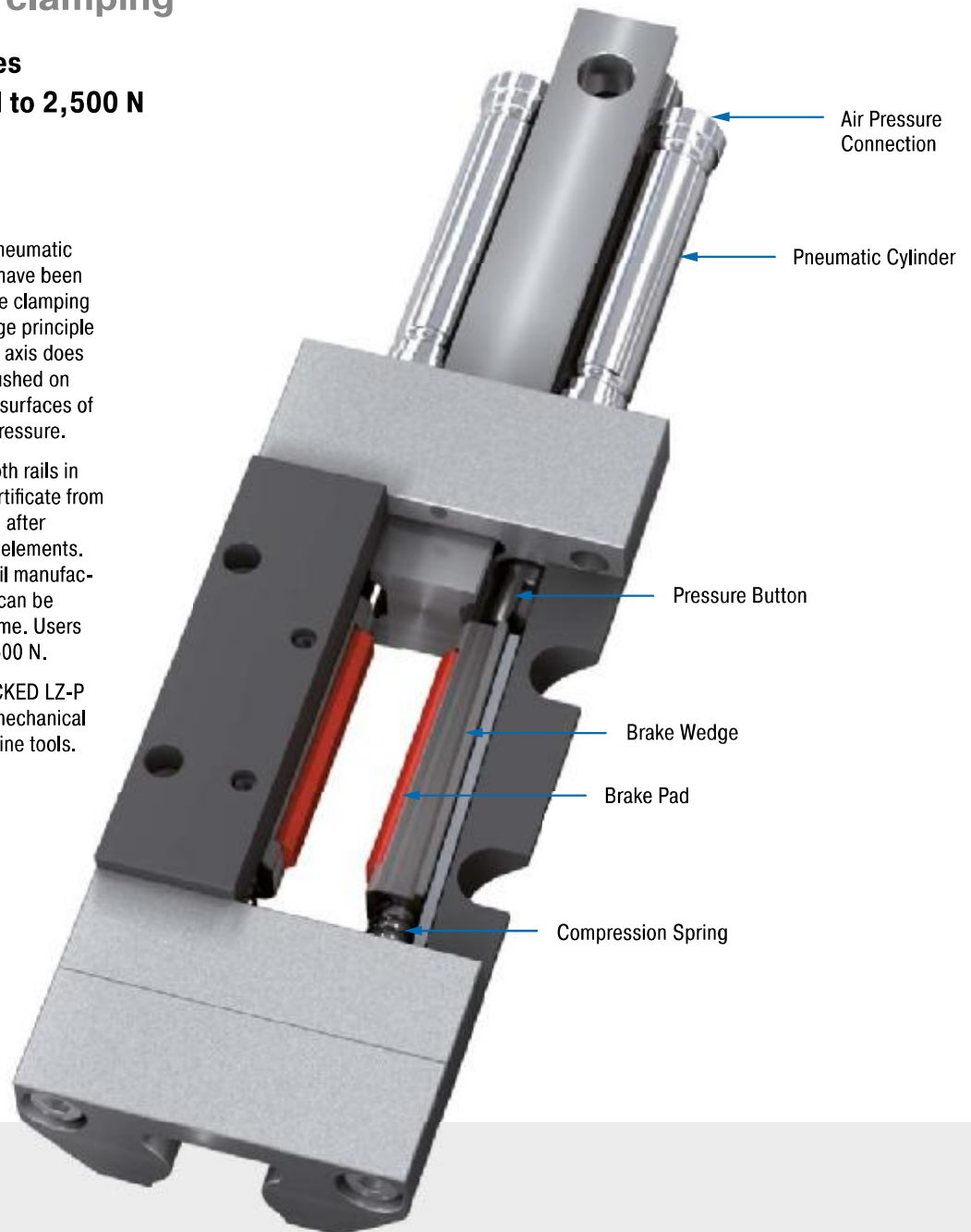
Rail Clamping for Z-Axes

Holding forces 1,500 N to 2,500 N

Innovative and BG certified: The pneumatic clamping elements LOCKED LZ-P have been specially designed for safe, reliable clamping on the vertical or Z-axes. The wedge principle makes sure that the gravity loaded axis does not drop. The brake wedges are pushed on both sides against the flat parallel surfaces of the guide rail in case of a loss of pressure.

Initially developed for Bosch Rexroth rails in sizes 15 mm and 25 mm, a test certificate from the trade association was awarded after extensive tests on these clamping elements. Further certifications from other rail manufacturers and sizes are prepared and can be implemented within the shortest time. Users achieve holding forces of up to 2,500 N.

Pneumatic clamping elements LOCKED LZ-P are used in all sectors of modern mechanical engineering and customised machine tools.



Technical Data

Holding forces: 1,500 N to 2,500 N

Rail sizes: 15 mm and 25 mm Bosch Rexroth

Clamping cycles: 1,000,000

Mounting: Vertical

Effective direction: Z-axes toward gravity

Operating pressure: 4.8 bar to 8 bar

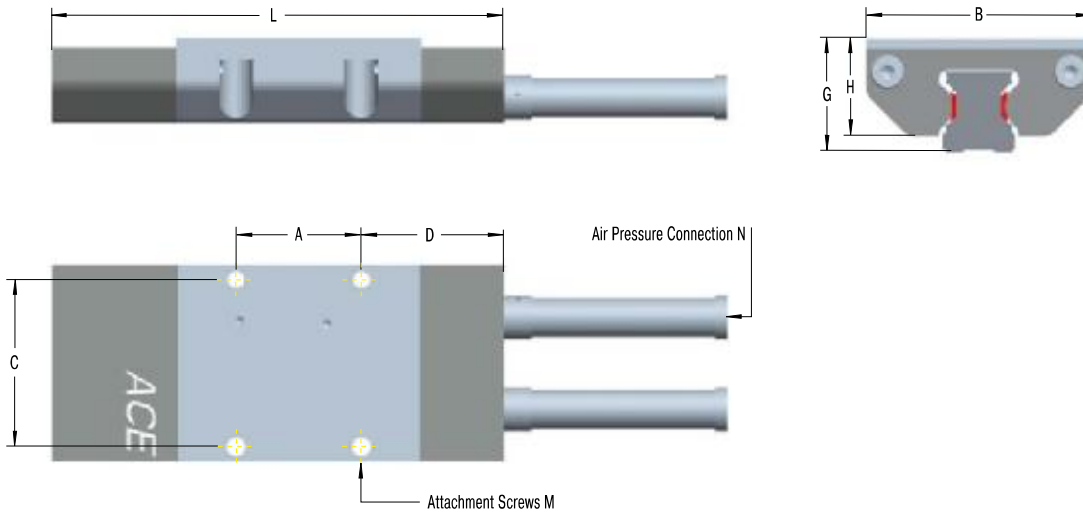
Material: Outer body: Tool steel; Brake components: Steel

Pneumatic medium: Dried, filtered air

Operating temperature range: 0 °C to 60 °C

Application field: Z-axes, Vertical conveyor systems, Jacking applications

LZ-P



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

Ordering Example

Process Clamping Z-Axis _____ **LZ-P15-X**
 Rail Nominal Size 15 mm _____
 Series Number assigned by ACE _____

Performance and Dimensions

TYPES	Holding force N	A mm	B mm	C mm	D mm	G mm	H mm	L mm	M	N	Weight kg
LZ-P15-X	1,500	30	47	40	34	24	20	108.5	M4	M3	0.40
LZ-P25-X	2,500	30	70	56	70	36	30	170.0	M6	M5	1.30