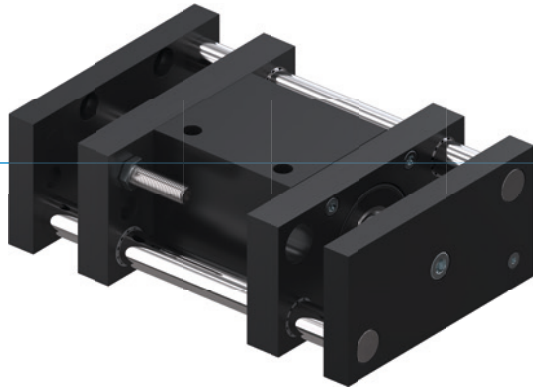


LINEAR CYLINDERS

SERIES LI

▶ PRODUCT ADVANTAGES



▶ Large locating flange

The large mounting surface simplifies your design and allows secure attachment of follow-on tools









▶ Dampened end position

By using PowerStop shock absorbers, you can gently move up to the end positions, increasing the process reliability and durability of your application

▶ Failure-free continuous operation

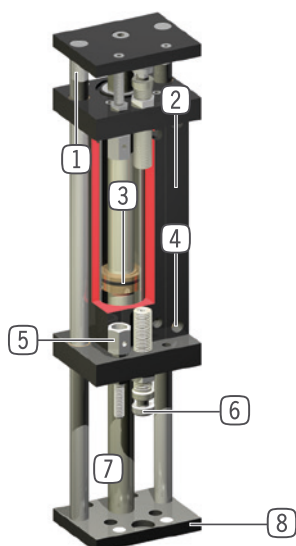
Our uncompromising "Made in Germany" quality guarantees up to 10 million maintenance-free cycles

▶ SERIES CHARACTERISTICS

Installation size		Version		
LIXX			D	S
	2 way guiding			•
	3 way guiding		•	
	Continuous piston rod		•	
	10 million maintenance-free cycles (max.)	•	•	•
	Inductive sensor	•	•	•
	Elastomer end position damping	•	•	•
	Powerstop end position damping	•	•	•
	IP 54	•	•	•



► BENEFITS IN DETAIL



- ① **Guide rod**
 - hardened, polished steel shaft
- ② **Mounting block**
 - mounting for inductive proximity switch
- ③ **Drive**
 - double-acting pneumatic cylinder
- ④ **Energy supply**
 - reducing exhaust air is recommended
- ⑤ **End stop confirmation screw**
 - direct flange position sensing
 - included in scope of delivery
- ⑥ **End position damping**
 - with elastomer absorber or patented hydraulic shock absorber
- ⑦ **Piston rod**
 - polished, hard chrome plated steel
 - continuous in design D
- ⑧ **Intake flange**
 - for connection to application-specific adapter plate (to be supplied by the customer)

► TECHNICAL DATA

Installation size	Stroke [mm]	Pressure force max. [N]	Retraction force [N]	Weight [kg]	IP class
LI16	20 - 50	80 - 100	80	0,05 - 0,1	IP54
LI30	15 - 90	200 - 270	200	0,05 - 0,1	IP54
LI40	40 - 300	270 - 450	270	0,05 - 0,3	IP54
LI50	50 - 300	950	950	0,03 - 0,2	IP54

► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

LINEAR CYLINDERS

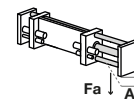
LI50-50S / LI50-90S

► PRODUCT SPECIFICATIONS



► Forces and moments

Max allowable static forces and moments.



► RECOMMENDED ACCESSORIES



ENERGY SUPPLY



DRV1-8X6
Flow Control Valves - with Swivel joint



SENSORS



NJ12-E2S
Inductive proximity switch, M12



CONNECTIONS / OTHER



AP50-S
Adapter plate



CONNECTIONS / OTHER



AI-M8X1-53
Stop Stroke Adjustment Screws



PHE20X15NSDE-A
Industrial shock absorbers PowerStop



KAG500
Plug-in connector Straight Cable 5m - Socket M8 (female)



KAW500
Plug-in connector Angled Cable 5m - Socket M8 (female)



ZE30H7X4
Centering Disc

Order no.	► Technical data	
	LI50-50S	LI50-90S
Stroke [mm]	50	90
Pressure force max. [N]	950	950
Retraction force [N]	950	950
Travel time without external load [s]	0.13	0.24
Nominal operating pressure [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	166	300
Approvals	LABS / REACH / RoHS	LABS / REACH / RoHS
Protection to IEC 60529	IP54	IP54
Weight [kg]	2.9	3.6
Load Fa max. [N]	300	200
Max. deflection A [mm]	0.03	0.05
Radial load Mr max. [Ncm]	1500	1100
Max. rotation D at 100 mm [mm]	0.08	0.08

- ① Fixing linear cylinder
- ② Energy supply
- ③ Fixing application
- ⑤ Stop screw for stroke limitation
- ⑧ Fixing for adapter plate
- ⑫ Intake for shock absorbers
- ⑬ Intake proximity switch
- Ⓐ Air connection (retract)
- Ⓑ Air connection (extend)

