

# 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

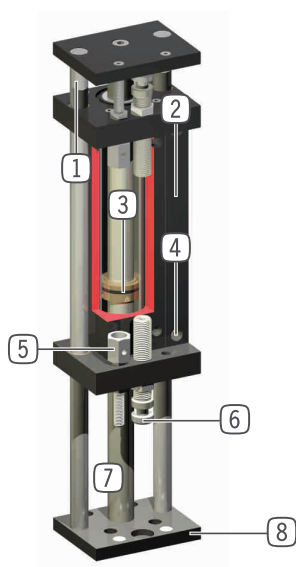
Our uncompromising "Made in Germany" quality guarantees up to 10 million maintenance-free cycles

### ▶ SERIES CHARACTERISTICS

Installation size	Version		
L1XX		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	•	•	•
 IP54	•	•	•



## ► 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
L116	20 - 50	80 - 100	80	0,05 - 0,1	IP54
L130	15 - 90	200 - 270	200	0,05 - 0,1	IP54
L140	40 - 300	270 - 450	270	0,05 - 0,3	IP54
L150	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](http://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.

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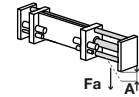
## LI50-250S / LI50-300S

### ▶ 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 - Connector M8



#### CONNECTIONS / OTHER



**AP50-S**  
Adapter plate



#### CONNECTIONS / OTHER



**AI-M8X1-53**  
Stop Stroke Adjustment Screws



**M20X1.5S**  
Shock Absorbers



**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	
	LI50-250S	LI50-300S
Stroke [mm]	250	300
Pressure force max. [N]	950	950
Retraction force [N]	950	950
Travel time without external load [s]	0.63	0.84
Nominal operating pressure [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	833	1000
Weight [kg]	6.4	7.2
Load Fa max. [N]	75	55
Max. deflection A [mm]	0.15	0.2
Radial load Mr max. [Ncm]	250	200
Max. rotation D at 100 mm [mm]	0.1	0.1

