

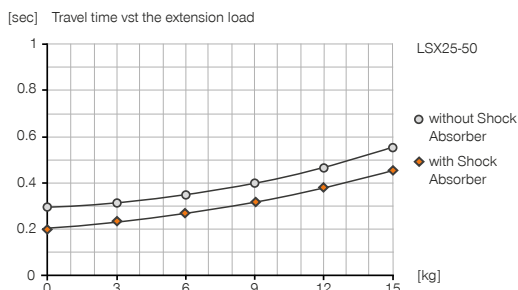
# LINEAR RAIL SLIDES

## LSX25-50

### PRODUCT SPECIFICATIONS

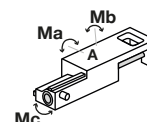


#### Time diagram



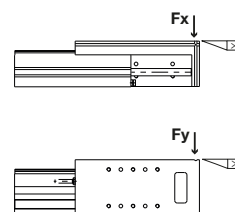
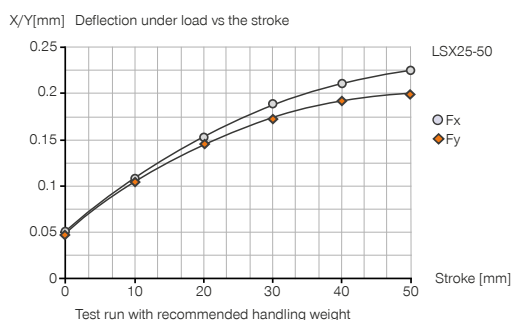
#### Forces and moments

Max allowable static forces and moments on face A.



|         |    |
|---------|----|
| Ma [Nm] | 55 |
| Mb [Nm] | 55 |
| Mc [Nm] | 55 |

#### Load diagram



### RECOMMENDED ACCESSORIES



#### ENERGY SUPPLY



**DRV1-8X6**  
Flow Control Valves - with Swivel joint



#### SENSORS



**MFS02-K-KHC-P1-PNP**  
Magnetic field sensor straight, cable 5 m



**MFS02-S-KHC-P1-PNP**  
Magnetic field sensor straight, cable 0.3 m - M8 connector



#### CONNECTIONS / OTHER



**APLSX25G**  
Adapter plate



#### CONNECTIONS / OTHER



**APLSX25V**  
Adapter plate



**PHE12X10NSDE-A**  
Industrial shock absorbers PowerStop



**KAG500**  
Plug-in connector Straight Cable 5m - female connector M8



**KAW500**  
Plug-in connector Angled Cable 5m - female connector M8

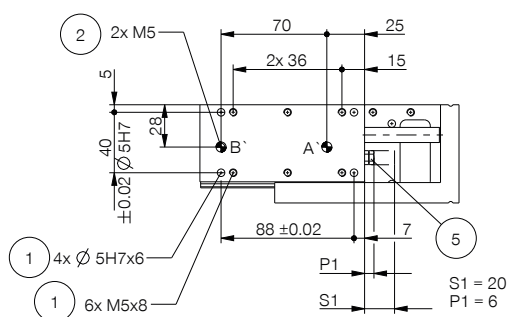


**S8-G-3**  
Plug-in connector customizable Straight - male connector M8

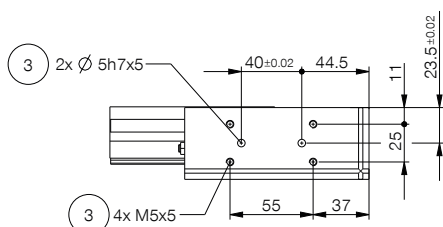
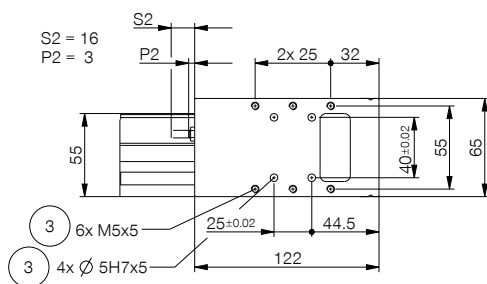
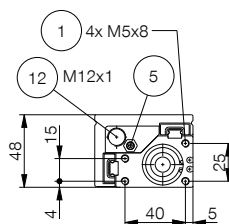
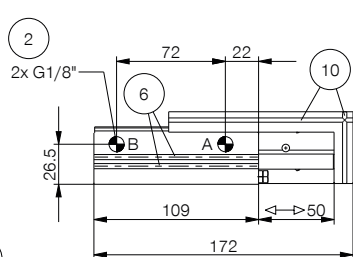
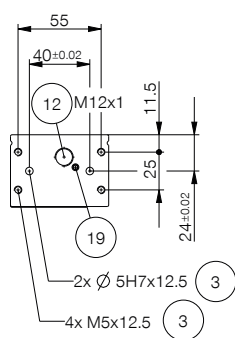


**S12-G-3**  
Plug-in connector customizable Straight - male connector M12

| Order no.                        | Technical data      |
|----------------------------------|---------------------|
|                                  | <b>LSX25-50</b>     |
| Stroke [mm]                      | 50                  |
| Pressure force max. [N]          | 265                 |
| Retraction force [N]             | 220                 |
| Recommended handling weight [kg] | 15                  |
| Piston diameter [mm]             | 25                  |
| Guide rail size [mm]             | 18                  |
| Nominal operating pressure [bar] | 6                   |
| Operating temperature min. [°C]  | 5                   |
| Operating temperature max. [°C]  | +80                 |
| Air volume per cycle [cm³]       | 45                  |
| Certifications                   | LABS / REACH / RoHS |
| Protection to IEC 60529          | IP40                |
| Weight [kg]                      | 0.9                 |



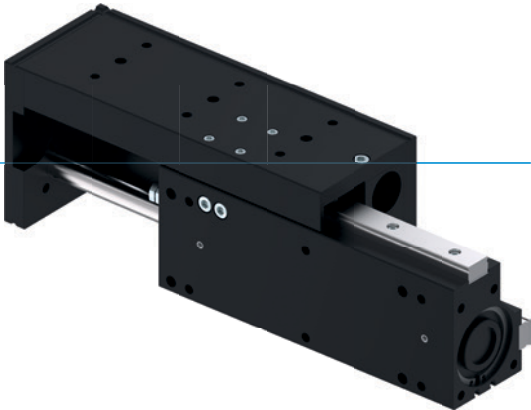
- ① Fixing linear cylinder
- ② Energy supply
- ③ Fixing application
- ⑤ Stop screw for stroke limitation
- ⑥ Mounting groove for magnetic field sensor
- ⑩ Groove for base plate
- ⑫ Intake for shock absorbers
- ⑰ Through hole for shock absorber clamping
- A Air connection (retract)
- B Air connection (extend)
- A Air connection, alternative (retract)
- B Air connection, alternative (extend)



# LINEAR RAIL SLIDES

## SERIES LSX

### ▶ PRODUCT ADVANTAGES



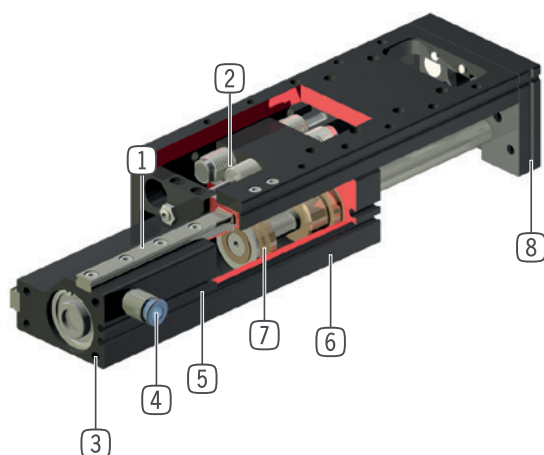
- ▶ **Precise double rail profile guide**  
The linear guide with ball bearing circulation and scrapers provides high precision and rigidity
- ▶ **Dampened end position**  
By using PowerStop shock absorbers, you can gently move up to the end positions, increasing the process reliability and durability 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                                                                                                                                     |  |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|
| LSXYY-YY                                                                                                                                              |  |   |
| <div>  <div>10 million maintenance-free cycles (max.)</div> </div> |  | ● |
| <div>  <div>Magnetic field sensor</div> </div>                     |  | ● |
| <div>  <div>Powerstop end position damping</div> </div>            |  | ● |
| <div>  <div>IP40</div> </div>                                      |  | ● |



## ► BENEFITS IN DETAIL



- 1 Linear guide with recirculating ball and wiper**
  - two way linear guide for forces and moments capacity
- 2 Patented, hydraulic shock absorber**
  - adjustable end position damping
  - available as an accessory
- 3 Mounting and positioning**
  - mounting possible from several sides for versatile positioning
- 4 Energy supply**
  - possible from several sides
- 5 Mounting groove for magnetic field sensor**
  - integrated, space saving position sensing
- 6 Robust, lightweight housing**
  - Hard-coated aluminum alloy
- 7 Drive**
  - double-acting pneumatic cylinder
- 8 Intake flange**
  - quick and cost-effective positioning of adapter plates: Accessory, Art. No. AP...G and AP...V

## ► TECHNICAL DATA

|                   | Stroke    | Pressure force max. | Retraction force | Weight    | IP class |
|-------------------|-----------|---------------------|------------------|-----------|----------|
| Installation size | [mm]      | [N]                 | [N]              | [kg]      |          |
| LSX25             | 50 - 200  | 265                 | 220              | 1 - 1,9   | IP40     |
| LSX40             | 100 - 200 | 750                 | 680              | 3,2 - 4,4 | IP40     |

## ► 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.