

# AXIS COMPENSATION MODULES

## SERIES ZR1000

### ▶ PRODUCT ADVANTAGES



#### ▶ Adjustable trigger sensitivity

By controlling the air pressure, you can optimally adjust the sensitivity to your application.






#### ▶ Integrated sensors

When deflection occurs in the Z direction, the optionally available sensor sends two teachable signals to the controller.

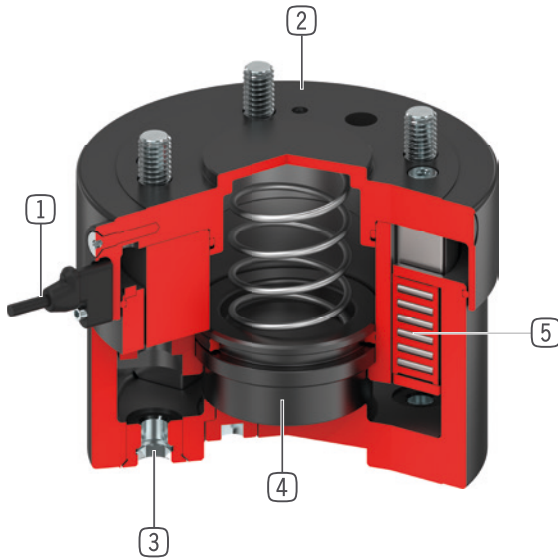
#### ▶ Pneumatic locking

After pneumatic actuation, the axis compensation is locked in a defined end position and can be subjected to high dynamic loads.

### ▶ SERIES CHARACTERISTICS

| Installation size  | Version |  |
|--|---------|--|
| ZR1XXX   | -A      |  |
|  1 million maintenance-free cycles (max.) | ●       |  |
|  Magnetic field sensor                    | ●       |  |
|  Protected against corrosion              | ●       |  |
|  Purged air                               | ●       |  |
|  IP 40                                    | ●       |  |

## ► BENEFITS IN DETAIL



- ① **Piston position sensing**
  - via magnetic field sensor
  - optionally available as accessories
- ② **Robust, lightweight housing**
  - Hard-coated aluminum alloy
  - lowest overall height
  - IP40 protection class in standard
- ③ **Connecting flange**
  - partial mounting circle in accordance with EN ISO 9409-1
- ④ **Locking piston**
  - single-acting pneumatic cylinder
  - with integrated spring
  - locks the Z-axis
- ⑤ **Linear guide**
  - for highest force and moments capacity
  - Steel/steel guide stands for lasting precision

## ► TECHNICAL DATA

| Installation size | Connecting flange according EN ISO 9409-1 | Stroke in Z-axis<br>[mm] | Holding force<br>[N] | Weight<br>[kg] |
|-------------------|---|--------------------------|----------------------|----------------|
| ZR1040            | TK 40                                     | 8                        | 250                  | 0.52           |
| ZR1050            | TK 50                                     | 8                        | 500                  | 0.67           |
| ZR1063            | TK 63                                     | 10                       | 1000                 | 1.1            |
| ZR1080            | TK 80                                     | 10                       | 1500                 | 1.8            |
| ZR1100            | TK 100                                    | 15                       | 3000                 | 3.1            |
| ZR1125            | TK 125                                    | 15                       | 4500                 | 5.1            |
| ZR1160            | TK 160                                    | 20                       | 6500                 | 8.9            |
| ZR1200            | TK 200                                    | 20                       | 11500                | 13             |

## ► 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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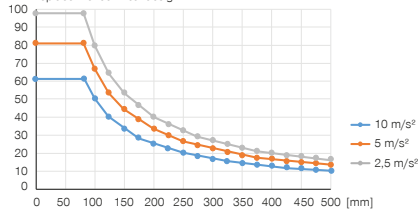
## INSTALLATION SIZE ZR1125

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Variable installation position

Shows the maximum handling weight as a function of acceleration and the center of gravity distance from the center of the bolt-on surface. Does not replace the technical design.



#### ▶ Forces and moments

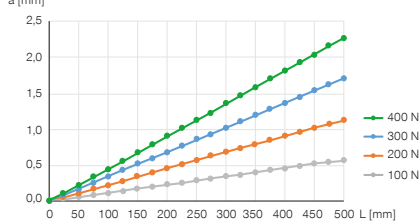
Shows the maximum forces and moments



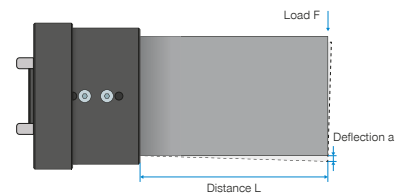
|         | pressurized | depressurized |
|---------|-------------|---------------|
| Mr [Nm] | 400         | 400           |
| My [Nm] | 200         | 100           |
| Fa [N]  | 4350        | 4350          |

#### ▶ Variable installation position

Shows the maximum deflection a as a function of the load F and the distance L. Does not replace the technical design.



#### ▶ Deflection



### ▶ INCLUDED IN DELIVERY



1 [piece]  
Sensor holder  
**ZUB000036**

### ▶ RECOMMENDED ACCESSORIES



#### ENERGY SUPPLY



**GVM5**  
Straight Fittings - Quick Connect Style



**WVM5**  
Angled Fittings - Quick Connect Style



#### CONNECTIONS / OTHER



**KAG500B4**  
Plug-in connector Straight Cable 5m - Socket M8 (female)



**KAW500B4**  
Plug-in connector Angled Cable 5m - Socket M8 (female)



#### SENSORS



**MFS01-S-KHC-P2-PNP**  
2-point sensor angled, cable 0.3 m - M8 connector



| ► Technical data                            |                 |
|---|-----------------|
| <b>Order no.</b>                            | <b>ZR1125-A</b> |
| Connecting flange according EN ISO 9409-1   | TK 125          |
| Stroke in Z-axis [mm]                       | 15              |
| Holding force [N]                           | 4500            |
| Spring force [N]                            | 125 ... 160     |
| Repetition accuracy +/- [mm]                | 0.01            |
| Operating pressure [bar]                    | 1 ... 8         |
| Nominal operating pressure [bar]            | 6               |
| Operating temperature [°C]                  | 5 ... +80       |
| Air volume per cycle [cm³]                  | 265             |
| Moment of inertia around the Z-axis [kgcm²] | 205             |
| Protection to IEC 60529                     | IP40            |
| Weight [kg]                                 | 5.1             |

