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.

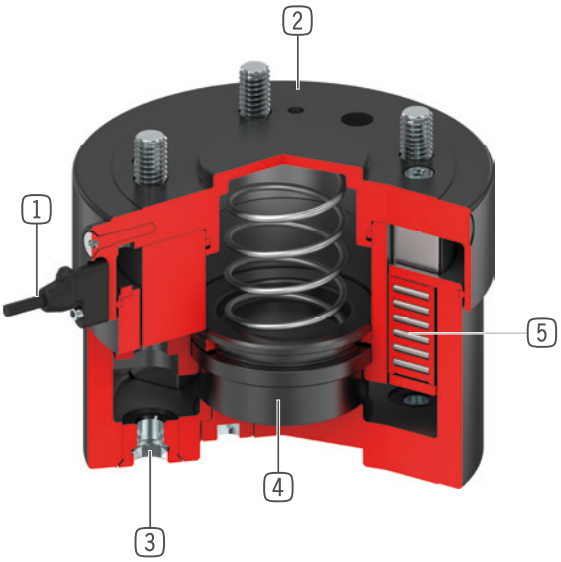
▶ Pneumatic locking

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	●
IP40	●

▶ 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 [mm]	Holding force [N]	Weight [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

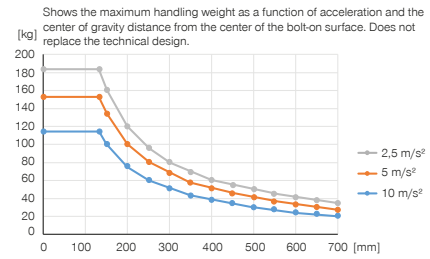
▶ FURTHER INFORMATION IS AVAILABLE ONLINE

All information just a click away at: www.zimmer-group.com. 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.

AXIS COMPENSATION MODULES
INSTALLATION SIZE ZR1200

▶ PRODUCT SPECIFICATIONS

▶ Variable installation position

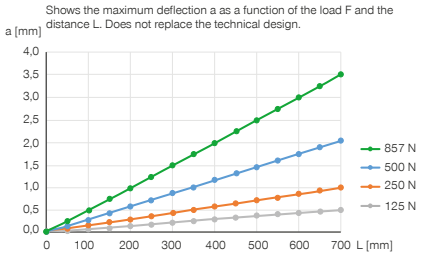


▶ Forces and moments

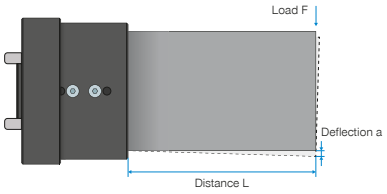
Shows the maximum forces and moments

	pressurized	depressurized
Mr [Nm]	1200	1200
My [Nm]	600	200
Fa [N]	8000	8000

▶ Variable installation position



▶ 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

SENSORS

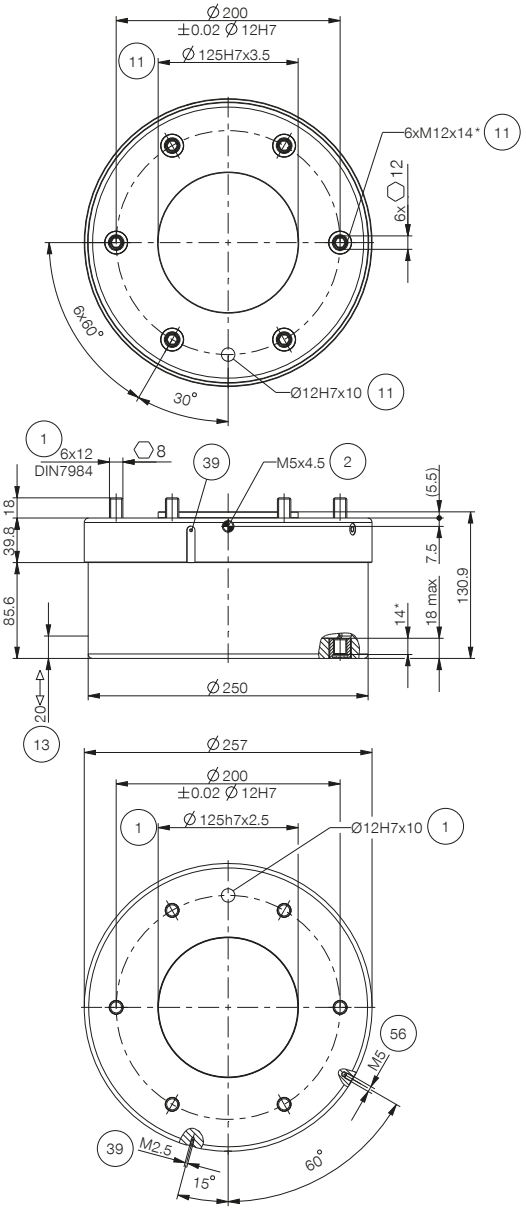
MFS01-S-KHC-P2-PNP
2-point sensor angled, cable 0.3 m - M8 connector

CONNECTIONS / OTHER

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

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

▶ Technical data	
Order no.	**ZR1200-A**
Connecting flange according EN ISO 9409-1	TK 200
Stroke in Z-axis [mm]	20
Holding force [N]	11500
Spring force [N]	250 ... 320
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]	1200
Moment of inertia around the Z-axis [kgcm²]	1240
Protection to IEC 60529	IP40
Weight [kg]	13



(1) Fixing (robot side)
(2) Energy supply
(11) Fixing (customer-side)
(13) Stroke Z
(39) Fixing sensor bracket
(56) Venting