O-RING ASSEMBLY GRIPPERS, OUTER **SERIES GS**

▶ PRODUCT ADVANTAGES



Proven technology

We have more than 20 years of proven reliability, which ensures uninterrupted production for you

Adjustable expanding stroke

Prevents the O-ring from overexpanding and ensures consistent production quality

Query about magnetic field sensor technology

Detecting the end position allows you to have shorter cycle times and an integrated control system

SERIES CHARACTERISTICS Installation size GSXXXX 5 million maintenance-free cycles (max.) Inductive sensor Magnetic field sensor IP30



BENEFITS IN DETAIL



- 1 Ejector jaw
 - to shift off the O-ring
- 2 Stroke adjustment
 - for adjustment of the spread stroke
- 3 Energy supply
 - possible from several sides
- 4 Drive
 - two single-acting pneumatic cylinders
- 5 Force transfer
 - direct via taper
- 6 Mounting and positioning
 - axial, on the gripper bottom
- 7 Sensing slot
 - mounting and positioning of magnetic field sensors
- 8 Robust, lightweight housing
 - Hard-coated aluminum alloy
- 9 Gripper jaw
 - individual gripper finger mounting

TECHNICAL DATA

	Opening stroke adjustable per jaw	Recommended O-ring diameter	Weight	IP class
Installation size	[mm]	[mm]	[kg]	
GS65	3 - 6	4 - 60	0.53	IP30
GS810	4 - 8	30 - 120	2.5	IP30
GS1015	1.6 -10	40 - 150	6.2	IP30

► 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.

O-RING ASSEMBLY GRIPPERS, OUTER **INSTALLATION SIZE GS65**

PRODUCT SPECIFICATIONS



► INCLUDED IN DELIVERY



12 [piece] Centering Disc DST06510

► RECOMMENDED ACCESSORIES



GRIPPING COMPONENTS



Ejector jaw set aluminium 6 [piece]



SENSORS



NJ6.5-E2S

Inductive proximity switch - Connector M8





UB65-4

Expanding jaw set steel

6 [piece]



MFS01-K-KHC-P1-PNP

Magnetic field sensor angled, cable 5 m



ENERGY SUPPLY



MFS01-S-KHC-P1-PNP

Magnetic field sensor angled, cable 0.3 m - M8 connector





GVM5

Straight Fittings - Quick Connect Style



CONNECTIONS / OTHER





SENSORS



KB6.5-02

Mounting block



KAG500

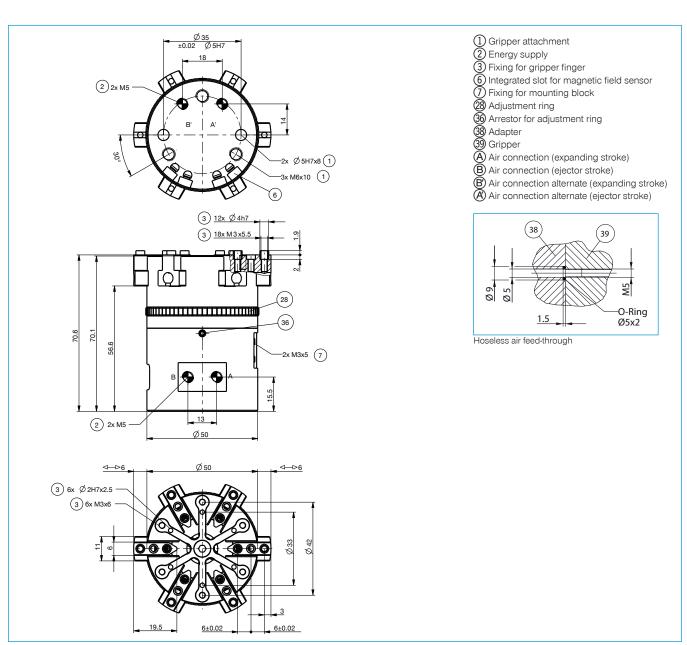
Plug-in connector Angled Cable 5m - Socket M8 (female)



NJ6.5-E2-01

Inductive proximity switch - Cable 5 m

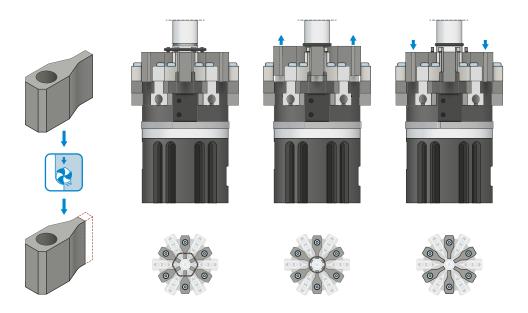
	► Technical data
Order no.	GS65-B
Opening stroke adjustable per jaw min. [mm]	3
Opening stroke adjustable per jaw max. [mm]	6
Stripping stroke [mm]	5
Opening force [N]	300
Recommended O-ring diameter min. [mm]	4
Recommended O-ring diameter max. [mm]	60
Number of gripping jaws [Quantity]	6
Closing time [s]	0.05
Opening time [s]	0.05
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Nominal operating pressure [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Protection to IEC 60529	IP30
Weight [kg]	0.53



O-RING ASSEMBLY GRIPPER, OUTER SERIES GS FUNCTIONAL DESCRIPTION

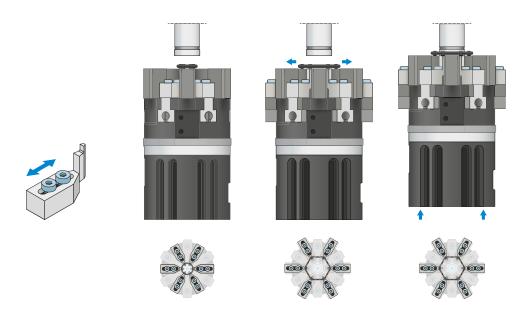


GRIPPING COMPONENTS



Removal jaws

The removal jaws remove the spread O-ring on the workpiece.

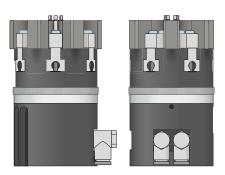


Clamping jaws

Using the clamping jaws, the O-ring is expanded to the expanding stroke set previously on the gripper via the adjustment ring.



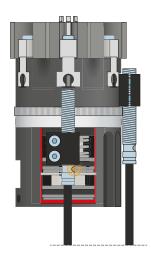


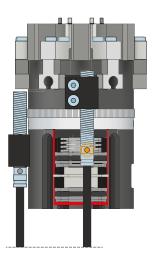


Pneumatic threaded connections

Available in straight and angled design. Can be chosen freely depending on the space conditions or installation situation.

SENSORS





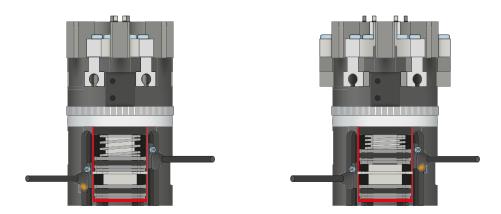
Inductive sensors - NJ

The expanding stroke can be sensed using an inductive sensor in combination with a mounting block. The cam switch must be manufactured on an application-specific basis.

O-RING ASSEMBLY GRIPPER, OUTER **SERIES GS FUNCTIONAL DESCRIPTION**



MFS01



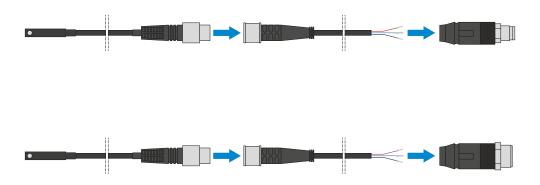
1-point magnetic field sensors - MFS

For non-contact sensing of the piston position

The sensor is clamped in the C-groove of the gripper and detects the magnet attached to the gripper jaws. The MFS01 is available in versions with 5 m cables with exposed leads and 0,3 m cable with connector.



CONNECTIONS / OTHER



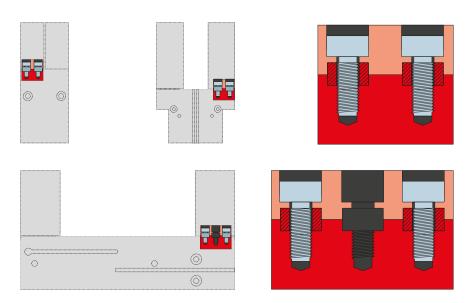
Plug-in connectors

For extending and fabricating the connection lines for the sensors

Cables with a length of 5 m with exposed leads are available. Depending on the specific needs, the cables can be shortened or fabricated with connectors in sizes M8 and M12.



CONNECTIONS / OTHER



Centering sleeves

For defined position measurement of the spread jaws

The centering sleeves are inserted into the fits of the gripper jaws to define the position of the spread jaws. The centering sleeves are comparable to a pin connection.