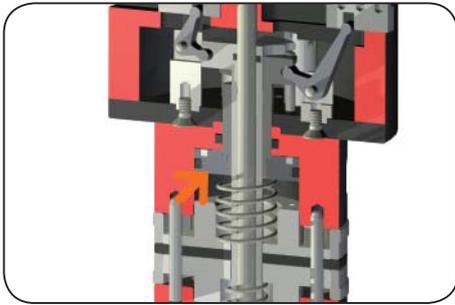


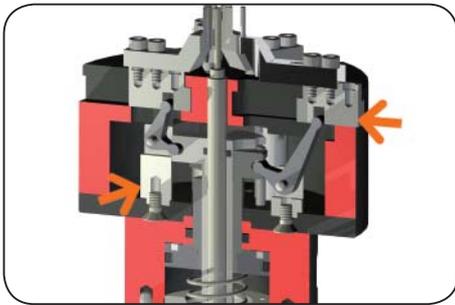
Highlights



Drive

three single-acting pneumatic cylinders

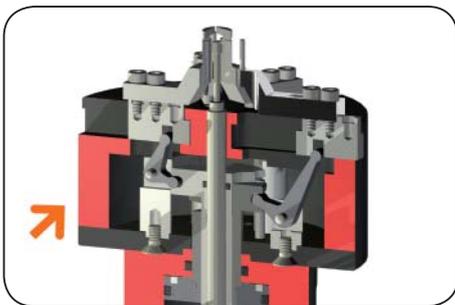
- every cylinder is driven via a 5/3 way valve
- retraction via spring



Guide

T-Slot guide for grabber and spread jaws

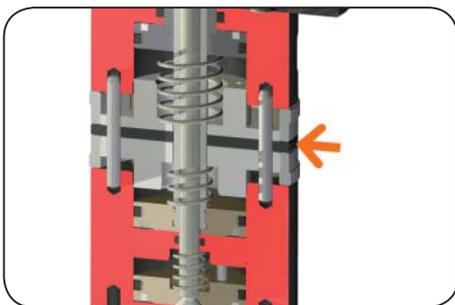
- robust T-Slot guidance for high force and moment capacity
- ground gripper jaws made from steel assure a high precision and long lifespan



Power transmission

of grabber and spread jaws via lever and crank

- Flachführung für hohe Kräfte- und Momentenaufnahme
- Greiferbacken aus geschliffenem sowie gehärtetem Stahl garantieren Präzision und Langlebigkeit



Stroke adjustment

of grabber and spread jaws

- adjusting the stroke of the grabber jaws prevents overstretching of the O-ring
- adjustment of the spread jaws according to the bore diameter of the workpiece

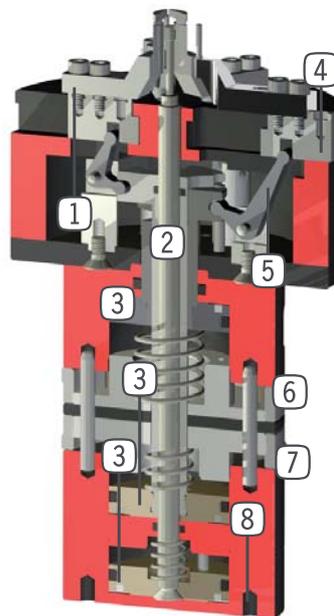


Terms

Gripping force:	arithmetic sum of the individual forces occurring at the jaws
Closing/opening time:	required time for the gripper jaws to cover the maximum stroke distance
Repeatability:	dispersion at end stop positions during 50/100 consecutive cycles
Cycle:	one complete movement of the piston forward and back
Maintenance:	recommended at 5 million cycles (please see the owner's manual for conditions, download from www.sommer-automatic.com) - long maintenance intervals keep costs down - long lifetime

Design

- ① **Spread jaws**
 - to position the O-ring in the groove of the workpiece
- ② **Ejector (piston rod)**
 - to remove the O-ring
- ⑤ **Force transfer**
 - via lever and connecting rod
- ⑥ **Stroke adjustment of grabber jaws**
 - prevents overstretching of O-ring during assembly



- ③ **Driven by three single-acting pneumatic cylinders**
 - drive for grabber jaws
 - drive for spread jaws
 - drive for ejector
- ④ **Grabber jaw**
 - to grab the O-ring
- ⑦ **Stroke adjustment on spread jaws**
 - adjustable to fit bore diameter of workpiece
- ⑧ **Fixing and positioning**
 - axial, on the gripper bottom

Grippers for Specific Tasks: O-Ring Assembly Grippers Internal Grippers



Picture shows GSI206

Included with purchase



Centering sleeve
Order no.: **BDST06510**

Accessory list



Pneumatic fittings
Order no.: **WVM5**



Pneumatic fittings
Order no.: **GVM5**



Magnetic field sensor
Order no.: **MFS103KHC**



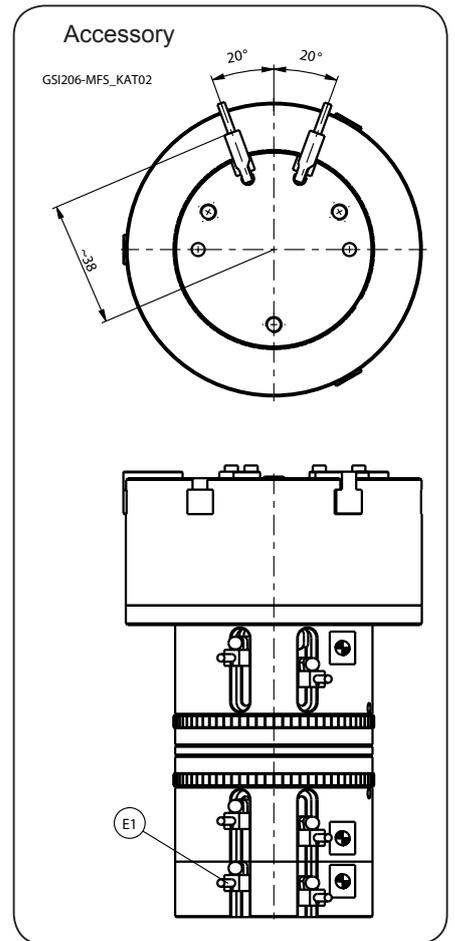
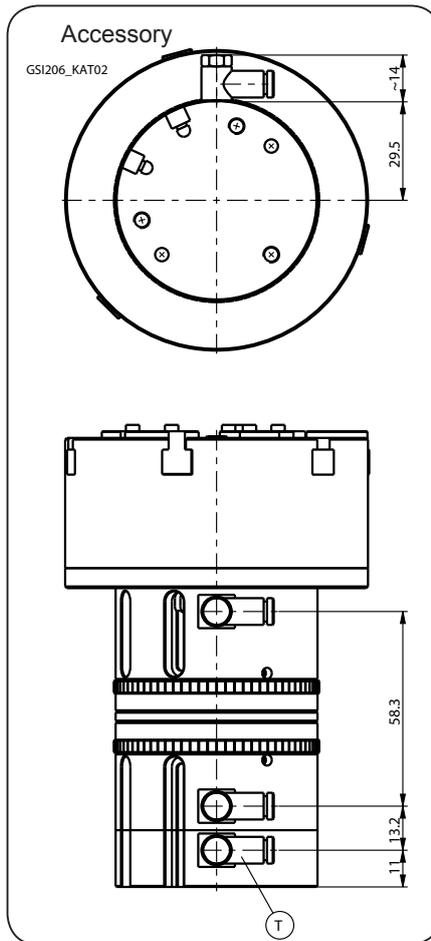
Magnetic field sensor
Order no.: **MFS103SKHC**



Cable angled plug
Order no.: **KAW500**



Plug 3- pole
Order no.: **S12-G-3**

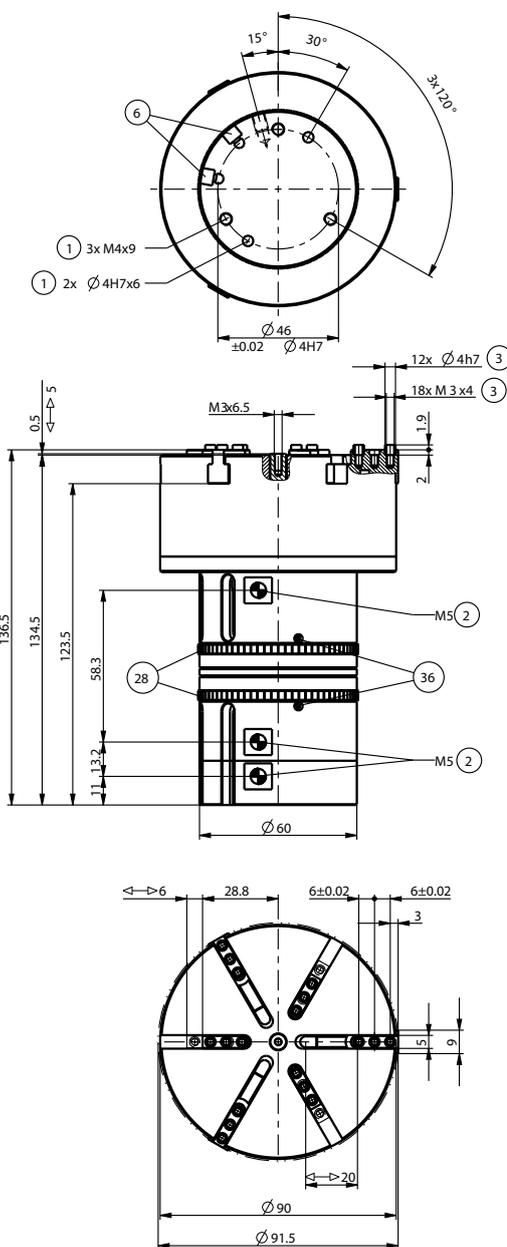


Subject to change without prior notice



Order no.:	GSI206
Stroke adjustable per jaw min. [mm]:	6
Stroke adjustable per jaw max. [mm]:	20
Opening stroke adjustable per jaw min. [mm]:	1
Opening stroke adjustable per jaw max. [mm]:	6
Stipping stroke [mm]:	5
Opening force [N]:	240
Possible O-ring diameter at string thickness of 1 mm [mm]:	11-45
Possible O-ring diameter at string thickness of 2 mm [mm]:	20-130
Possible O-ring diameter at string thickness of 3 mm [mm]:	32-130
Possible O-ring diameter at string thickness of 4 mm [mm]:	42-100
Gripper jaws [Piece]:	6
Operating pressure min. [bar]:	3
Operating pressure max. [bar]:	8
Operating temperature min./max. [°C]*:	5-80
Weight [kg]:	1.5

All data measured at 6 bar
 * High-temperature version (up to 150°C) add T to part number



- ① Gripper mounting
- ② Energy supply
- ③ gripper finger mounting
- ⑥ Slot for magnetic field sensor
- ②⑧ Adjustment ring
- ③⑥ locking for adjustment ring

Subject to change without prior notice

Schematic of an O-ring insertion with gripper GSI206

① spread jaws

② grabber jaws

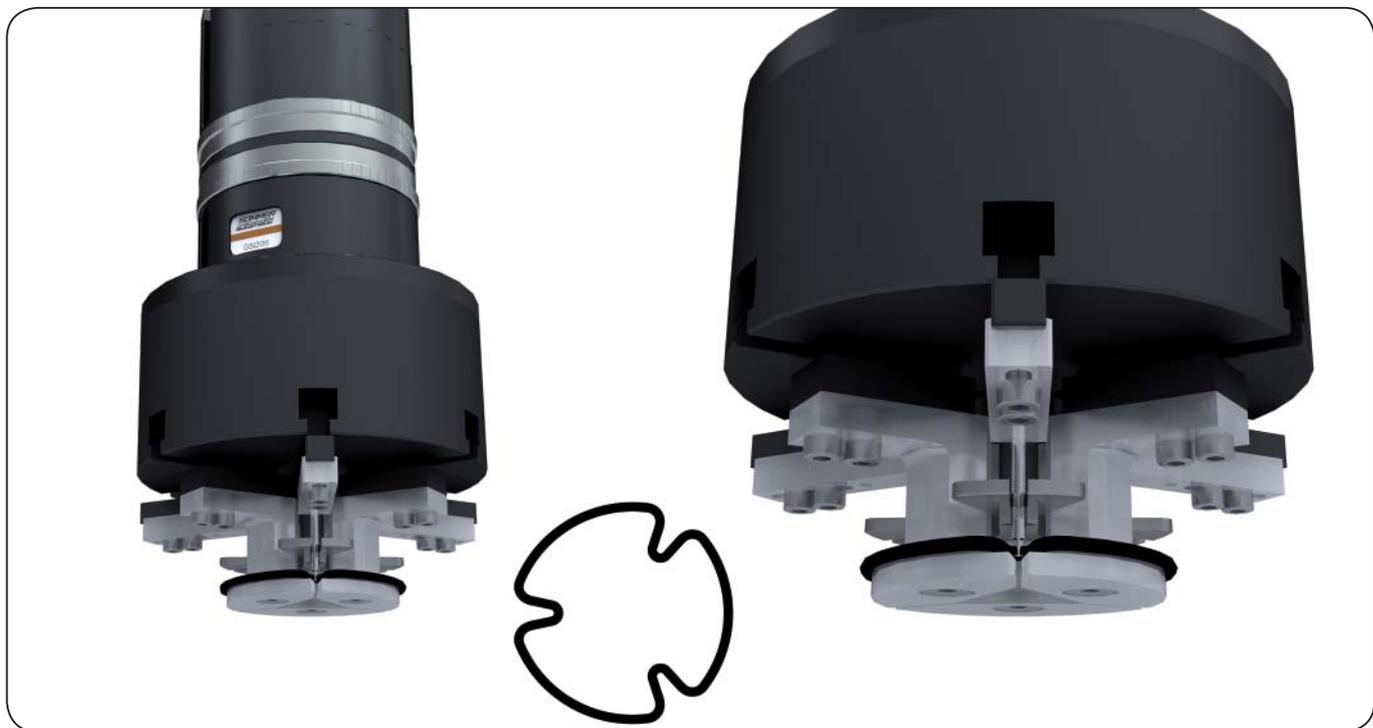
③ ejector



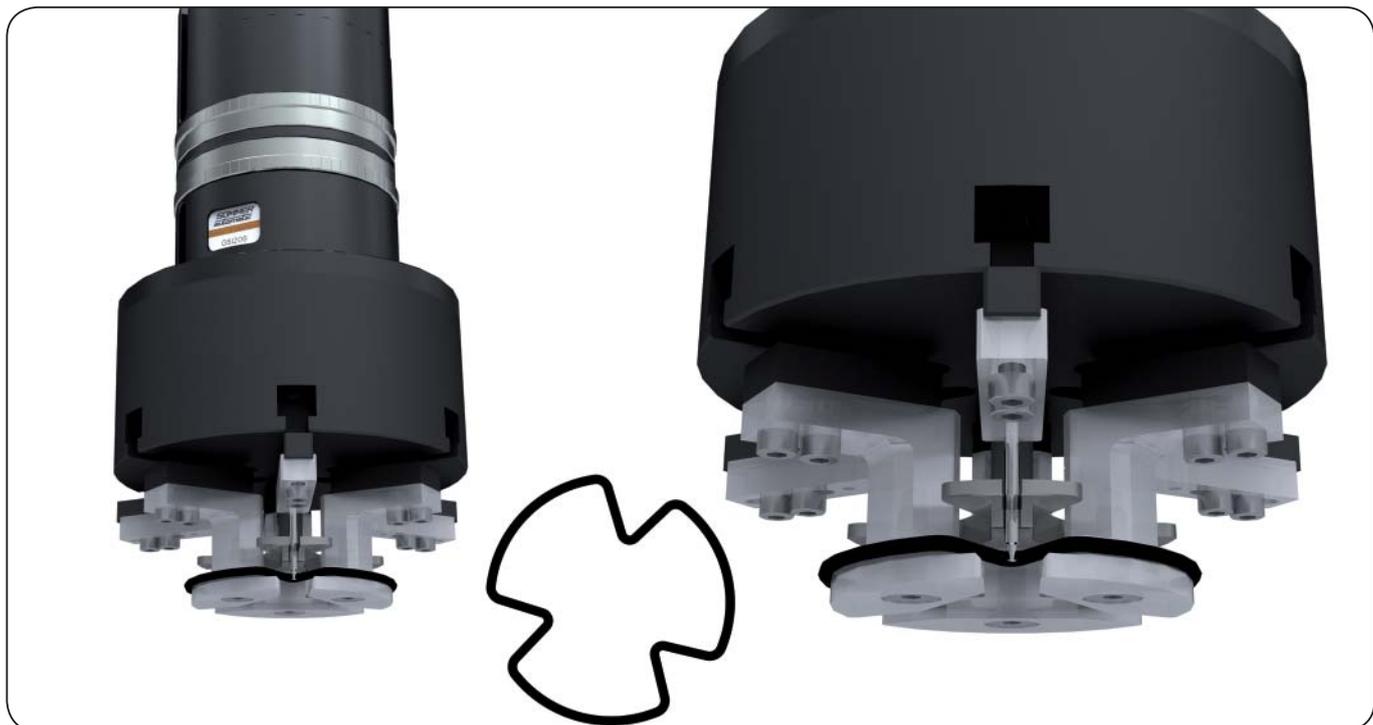
1. Basic position



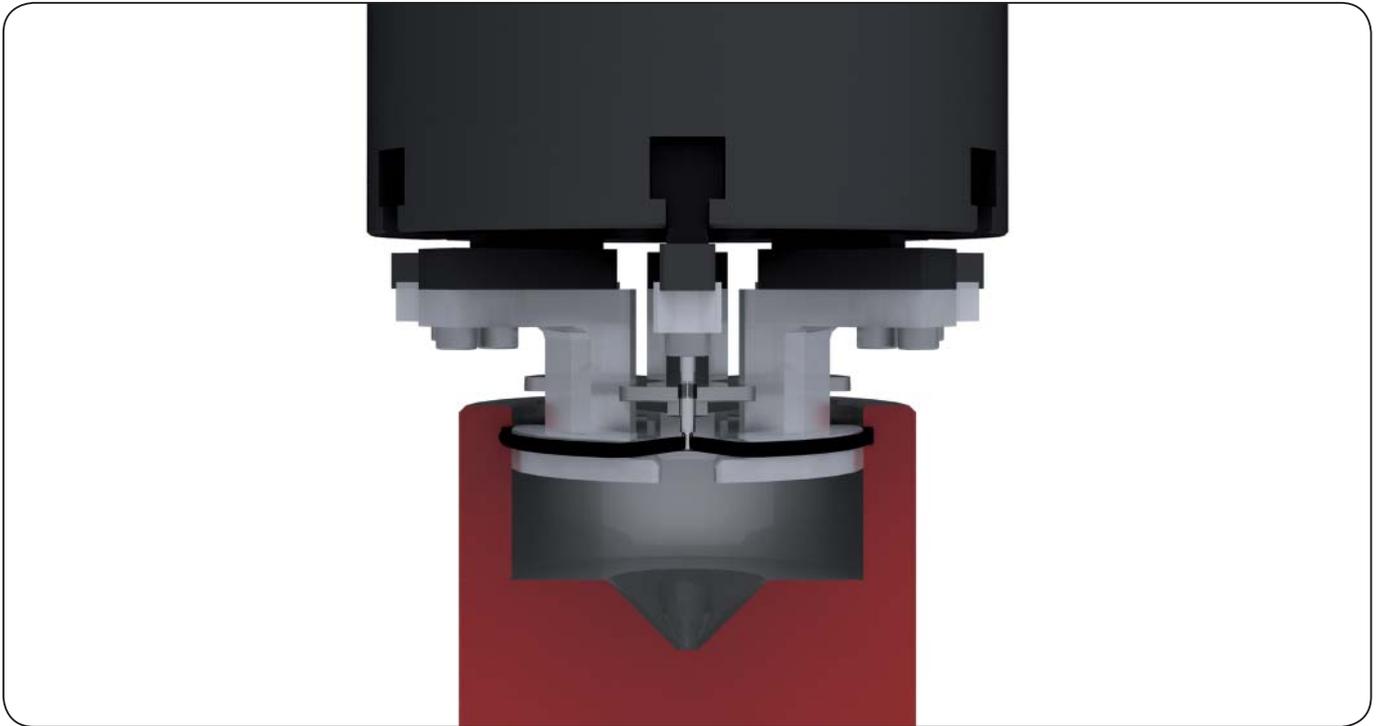
2. Retract of grabber jaws. As result, the O-ring is formed like a shamrock.



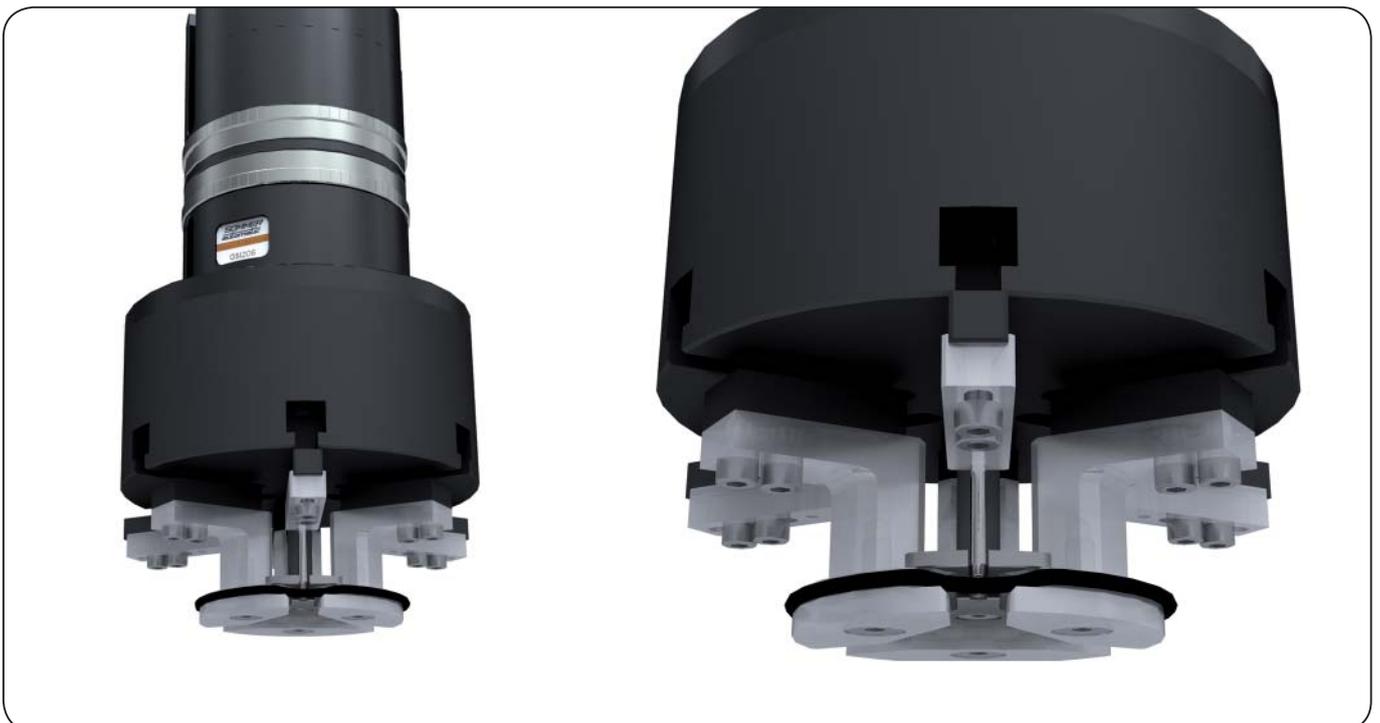
3. When moving to the mounting bore, the spread jaws retract and extend 3 times. So, a better positioning of the O-ring on the spread jaws is realized. Possible loops are removed.



4. Having reached the mounting position, the spread jaws extend and position the O-ring into the slot of the workpiece.



5. Stripping the O-ring from the holding pins by extending the ejector.



5. Spread jaws retract (basic position) and press O-ring on. Additionally, the grabber jaws are extended and push the O-ring into the slot completely.

