

Compliant finger gripper

GZ8 up to GZ65

things worth knowing

Advantages and uses

... high-grip force ... also available with grip force safety device ...



- ▶ continuously adjustable stroke
 - ▶ compact design and minimal weight
 - ▶ any desired installation position
 - ▶ position sensing possible through inductive proximity switch
 - ▶ high reliability and long service life

... simple construction,
The best functionality, with a great price! ...

Characteristics

Function

Drive:
(depending upon model) two unsynchronized, single-action cylinders with direct drive
single-action cylinder with integrated spring for grip force safety devices

Transfer: lever principle

Piece-positioning: via dominant gripper jaw with adjustment screw

Material

Housing: hard-anodized aluminum

Functional parts: hard nicked steel

Maintenance

Recommended at: 1.5 million cycles

Actuation: filtered high-pressure air (10 µm), dry or oiled

Maintenance of the mechanics: – see owners' manual –

Sommer-automatic

Grippers

Separators

Swivel units

Rotating jaws

Axial compensators

Tool changers

Linear cylinders

Shock absorbers

Rotary cylinders

Air vane motors

Vacuum components

Accessories

Quick finder

Basic explanations

Terms and illustrations

Grip force safety device: required during pressure loss for maintaining position of workpiece

- pneumatic: through pressure retention (one-way valve required DSV 1/8)
- mechanical: through spring pre-tension
- spring power: specifications based on minimum spring pre-tension

Total power: arithmetic sum of the individual elements on the gripper jaws

Closing and opening times: required time for the gripper jaws to cover the maximum stroke length

Schematic: displays static forces and momenta that can additionally affect grip force

Models

GZ...	Cylinder	Spring recoil	Integrated grip force safety device
...E	1x effective	•	
...D	2x effective		•

Accessories

Accessory recommendations:

- ▶ Inductive proximity switch Page 428
- ▶ Bracket for inductive proximity switch Page 432
- ▶ Pneumatic fittings Page 442
- ▶ Tubing Page 444
- ▶ Control valves Page 445
- ▶ Pressure safety valves Page 447

