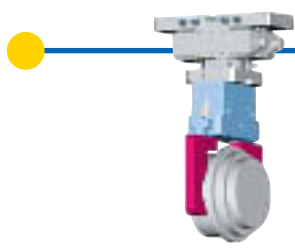
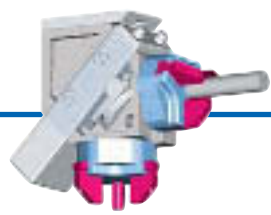


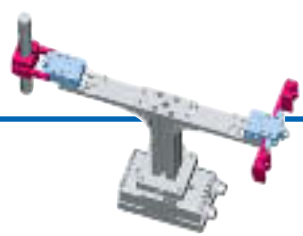
# Gripper: quick to grip



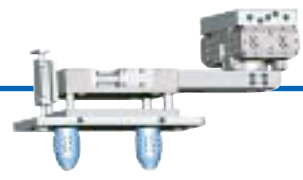
**Parallel grippers**  
from page 15



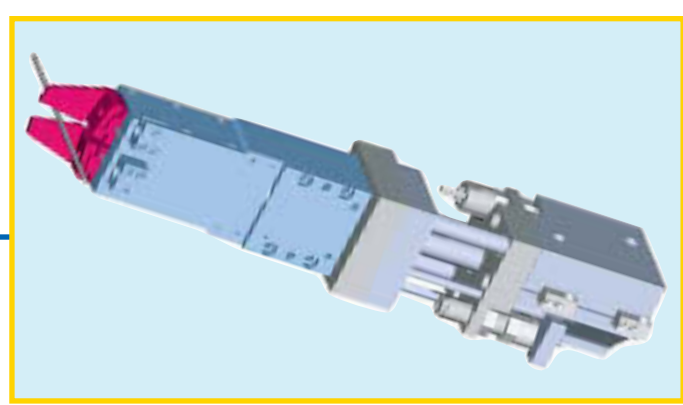
**Three-jaw grippers**  
from page 101



**Angle grippers**  
from page 141



**Internal-hole grippers**  
from page 163



**Other grippers**  
from page 169

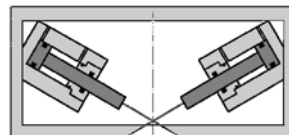


**Electric grippers**  
Parallel grippers from page 183  
Three-jaw grippers from page 189

## Other grippers

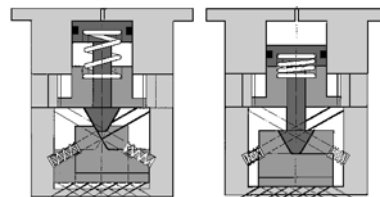
### Needle grippers

|       |     |
|-------|-----|
| SCH20 | 172 |
| SCH23 | 172 |
| ST36  | 173 |
| ST40  | 173 |



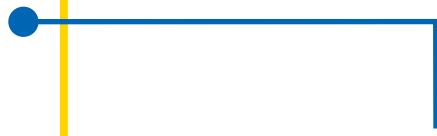
### Cutting/toggle tongs

|      |     |
|------|-----|
| ZK22 | 174 |
| ZK33 | 175 |



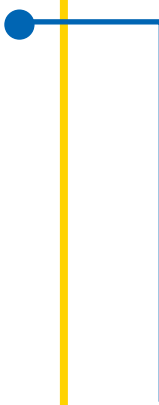
### 6-point gripper for O-ring assembly

|      |     |
|------|-----|
| GS65 | 176 |
|------|-----|



### Tube grippers

|         |     |
|---------|-----|
| RG0-30  | 177 |
| RG10-60 | 177 |



### Rubber-finger gripper

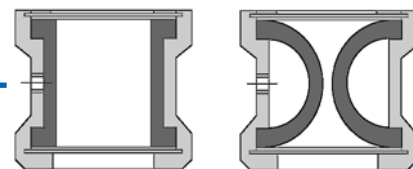
|          |     |
|----------|-----|
| SPG30-95 | 178 |
|----------|-----|

### Rubber-finger gripper

|      |     |
|------|-----|
| GF40 | 179 |
| GF41 | 179 |

### Magnetic grippers

|      |     |
|------|-----|
| HM31 | 180 |
| HM34 | 180 |
| HM43 | 180 |
| HM54 | 180 |



## Other grippers



### useful information

#### Advantages and uses

|           |  |
|-----------|--|
| GS65:     | O-ring assembly on shafts  |
| HM...:    | Simple handling of magnetic pieces                                 |
| SPG30-95: | Simple external gripping of sensitive or unusually-shaped pieces   |
| RG...:    | Simple external gripping of cylindrical pieces                     |
| GF40:     | Simple external gripping of sensitive or unusually-shaped pieces   |
| ST...:    | Handling of textiles, soft, or porous materials                    |
| SCH...:   | Handling of soft or porous materials, for example, foams or fleece |
| ZK...:    | Cutting through or removing spouts, wires, or cables, for example  |

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

#### Characteristics

Product function

|            |                 |  |
|------------|-----------------|--|
| GS65:      | Drive:          | single-action pneumatic cylinder for stretching the O-ring<br>single-action pneumatic cylinder for stripping off O-rings |
|            | Power transfer: | expand: wedge principle; stripping: linear   |
|            | Guide:          | T-groove guide   |
|            | Material:       | Housing: hard-anodized aluminum, functional parts: nitrided steel  |
| HM...:     | Drive:          | ring magnet  |
|            | Material:       | steel with electric magnet   |
| SPG 30-95: | Drive:          | membrane   |
|            | Material:       | housing: hard-anodized aluminum, functional parts: NBR membrane  |
| RG...:     | Drive:          | membrane   |
|            | Material:       | housing: hard-anodized aluminum, functional parts: NBR membrane  |
| GF40:      | Drive:          | membrane   |
|            | Material:       | housing: hard-anodized aluminum, functional parts: NBR membrane  |
| ST...:     | Drive:          | double-action pneumatic cylinder   |
|            | Power transfer: | synchronized, forced rocker gear   |
|            | Gripper jaws:   | two or four pin holders arranged at a 30° angle  |
|            | Material:       | housing: hard-anodized aluminum, needles: hardened steel   |
| SCH...:    | Drive:          | two pneumatic pin holders arranged at a 30° angle  |
|            | Power transfer: | direct   |
|            | Gripper jaws:   | pin holder integrated into cylinder  |
|            | Material:       | hard-anodized aluminum, needles: hardened steel  |
| ZK...:     | Drive:          | double-action pneumatic cylinder   |
|            | Power transfer: | toggle linkage   |
|            | Guide:          | high capacity slide bearing  |
|            | Material:       | Housing: hard-anodized aluminum functional parts: nitrided steel   |

#### Maintenance

|                         |   |
|-------------------------|---|
| Recommended at:         | 1.5 million cycles                                      |
| Actuation:              | clean – filtered high-pressure air (10µm), dry or oiled |
| Mechanical maintenance: | – see owners' manual –                                  |

#### Basic explanations

##### Terms and illustrations

|                            |   |
|----------------------------|---|
| Grip force safety device:  | required during pressure loss for maintaining position of workpiece   |
| - pneumatic:               | through pressure retention  |
| 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 |

### Accessories

#### Accessory recommendation:

|  |          |                          |          |
|--|----------|--------------------------|----------|
| ▶ Inductive proximity switch             | Page 428 | ▶ Tube                   | Page 444 |
| ▶ Bracket for inductive proximity switch | Page 432 | ▶ Control valves         | Page 445 |
| ▶ Pneumatic fittings and screw joint     | Page 442 | ▶ Pressure safety valves | Page 447 |