

GWB 100

Piston rod spare parts package

Repair Instructions

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Superior Clamping and Gripping



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Technical changes

We reserve the right to make alterations for the purpose of technical improvement.

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1 Intended use

If the product can no longer be fully opened or closed, a component part may be damaged. The cause for this defect is often a collision. After a collision, the gripper fingers and base jaw may also be damaged.

2 Scope of Delivery

Designation	GWB 100
Piston rod with screw and nut [pcs.]	1
ETP finger [pcs.]	1
Complete sealing kit [pcs.]	1

3 Applicable documents

- Catalog data sheet of the product *
- Assembly and operating manual of the product *

The documents marked with an asterisk (*) can be downloaded on our homepage www.schunk.com.

4 Notes on particular risks



WARNING

Risk of injury due to sudden movements!

If the energy supply is switched on or if residual energy is still present in the system, this can cause components to move unexpectedly, which may result in serious injuries.

- Switch off energy supply and secure against re-connection.
- Ensure that no residual energy remains in the system.



WARNING

Risk of injury due to spring forces!

In the case of a defect, parts may be under spring tension and could be ejected during dismantling and cause injury.

- Before dismantling, clamp the gripper between position "A" and "B" into a clamping device. Make sure that the cover (2) is also clamped.
- Carefully dismantle the grippers.

5 Tools/auxiliary tools

- Hexagon socket wrench
- Safety ring pliers
- Clamping device

6 Recommended lubricants

Lubricant point	Lubricant
Metallic sliding surfaces	Molykote BR 2 plus
All seals	Renolit HLT 2
Bores on the piston	Renolit HLT 2

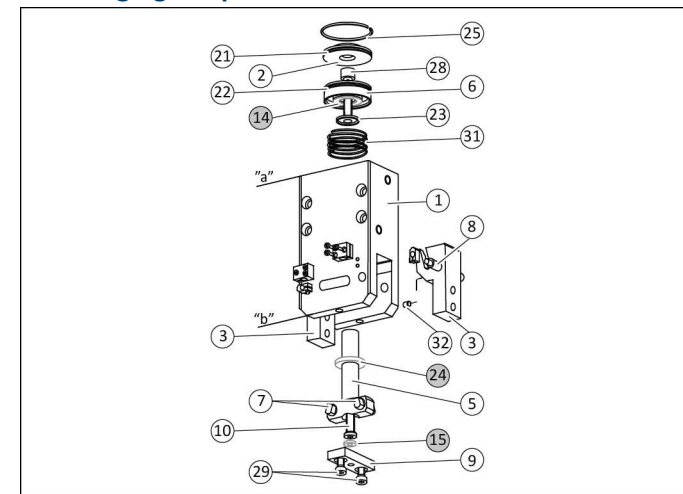
7 Tightening torque

Item	Designation	GWB 100
28	Screw [Nm]	49
29	Screw [Nm]	25

8 Threadlocker

If not stated otherwise, screws can be secured using Loctite 243 or a similar adhesive.

9 Changing the piston rod



Dismantling

- Remove all compressed air lines.
- Disassemble gripper from the machine/automated system.
- Remove screws (29) and lift off the strip (9).
- Clamp grippers between position "a" and "b" into a clamping device.

NOTE

The cover (2) may get stuck in the housing (1). To loosen the cover (2), carefully apply compressed air to the gripper.

- Remove safety ring (25) and take the cover (2) out of the housing (1).

NOTE

To slowly relieve the tension around the springs (31), loosen the screw (28) bit by bit. If the cylinder piston gets stuck (6), carefully loosen it by hitting it gently with, for example, a pin punch.

- **WARNING! The parts are under spring tension, (F = 500 N).** Loosen screw (28) and carefully relieve the pressure on the gripper.
- Remove cylinder piston (6), ring (14) and spring (31) from the housing (1).
- Unscrew the set-screws (32) from the gripper fingers (3).
- Push the axes (8) out of the housing (1).
- Remove the gripper finger (3) and piston rod (5) from the housing (1).

Assembly

When assembling, use the parts from the spare part package.

- Clean all parts thoroughly, check for damage and wear and grease with a lint-free cloth or brush.
- If necessary, replace seals, illustrated in gray in the graphic.
- Insert the gripper finger (3) and piston rod (5) into the housing (1).
- **NOTICE! Make sure the installation position of the axes (8) is correct.** Insert the axes (8) into the housing (1) in such a way that the groove is over the bore hole for the set-screw (32).
- Screw the set-screws (32) into the gripper finger (3).
- Insert cylinder piston (6), ring (14) and spring (31) into the housing (1).
- Clamp grippers between position "a" and "b" into a clamping device.
- Tighten screw (28).
- Insert cover (2) into the housing (1) and secure with safety ring (25).
- Secure the bar (9) with the screws (29).
- Assemble gripper on the machine/automated system.
- Secure all compressed air lines.