

DWG 44-100

Gripper finger spare parts package

Repair Instructions

SCHUNK GmbH & Co. KG | Spann- und Greiftechnik
D-74348 Lauffen/Neckar | Bahnhofstr. 106 – 134
Tel. +49-7133-103-0 | Fax +49-7133-103-2399
info@de.schunk.com | www.schunk.com

Superior Clamping and Gripping



Copyright

This manual remains the copyrighted property of SCHUNK GmbH & Co. KG. It is solely supplied to our customers and operators of our products and forms part of the product. This documentation may not be duplicated or made accessible to third parties, in particular competitive companies, without our prior permission.

Technical changes

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

Document number:1005267

Edition:01.00 | 23/01/2017 | de - en

© SCHUNK GmbH & Co. KG
All rights reserved.



1 Intended use

If the gripper finger has some clearance, if the positioning is incorrect or if movement is asymmetrical, the gripper finger will need to be changed. Expansion cracks or enlargement of the guide groove are the most frequent indicators of a defective gripper finger. The cause for this defect is often a collision. After a collision, the piston rod may also be damaged.

2 Scope of Delivery

Designation	DWG				
	44	54	64	80	100
Clamping piece [pcs.]	2	2	2	2	2
Screw [pcs.]	7	7	7	7	7
Gripper fingers [pcs.]	1	1	1	1	1
Switching lug [pcs.]	1	1	1	1	1
Bracket for NHS [pcs.]	1	1	1	1	1
Safety washer [pcs.]	1	1	1	1	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.

5 Tools/auxiliary tools

- Hexagon socket wrench

6 Recommended lubricants

Lubricant point	Lubricant
Metallic sliding surfaces	LINOMAX
All seals	Renolit HLT 2
Bores on the piston	Renolit HLT 2

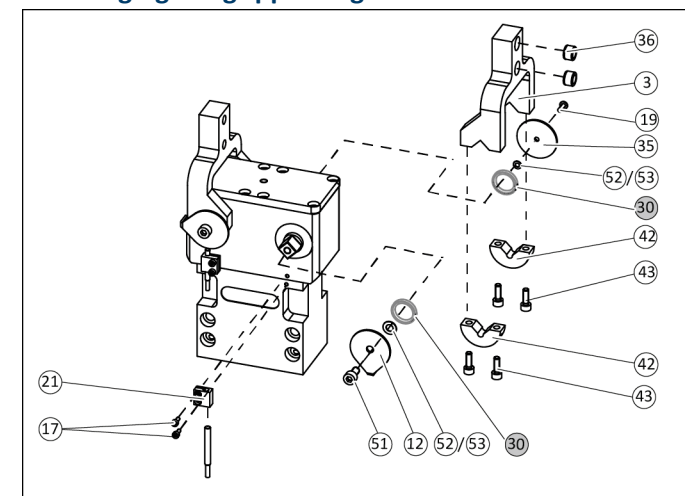
7 Tightening torque

Item	Designation	DWG				
		44	54	64	80	100
43	Screw [Nm]	1.2	1.2	1.2	3.1	3.1
51	Screw [Nm]	1.2	1.2	3.1	6.1	6.1

8 Threadlocker

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

9 Changing the gripper finger



Dismantling

- Remove all compressed air lines.
- Disassemble gripper from the machine/automated system.
- Loosen screws (17) and remove holder (21). Pull proximity switch out of the holder.
- Loosen screw (51) and remove switching lug (12).
- **From size 64 only:** Remove safety washer (52).
- Loosen screw (19), remove washer (35) and safety washer (53).
- Loosen screws (43), lift off clamping components (42) and remove gripper fingers (3).

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 shown in gray in the picture.
- Secure gripper finger (3) with the clamping devices (42) and screws (43).
- Secure safety washer (53) and washer (35) with screw (19).
- **From size 64 only:** Position safety washer (52) between switching lug (12) and bolt.
- Secure switching lug (12) with screw (51). Tighten screw only slightly.
- Fasten the bracket (21) with the screws (17). Tighten screws only slightly. Slide proximity switches into the holder.
- Bring gripper into the desired "open" or "closed" position. Align switching lug and proximity switch with each other. Tighten screws (17) and (51).
- Open and then close gripper and test the function.
- Assemble gripper on the machine/automated system.
- Secure all compressed air lines.