Assembly and Operating Manual GFS

Swivel finger

Translation of Original Operating Manual

Hand in hand for tomorrow

Imprint

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

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Dear Customer,

Thank you for trusting our products and our family-owned company, the leading technology supplier of robots and production machines.

Our team is always available to answer any questions on this product and other solutions. Ask us questions and challenge us. We will find a solution!

Best regards,

Your SCHUNK team

Customer Management
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Fax +49-7133-103-2189
cmg@de.schunk.com

Please read the operating manual in full and keep it close to the product.

Table of Contents

1 General

1.1 About this manual

This manual contains important information for a safe and appropriate use of the product.

This manual is an integral part of the product and must be kept accessible for the personnel at all times.

Before starting work, the personnel must have read and understood this operating manual. Prerequisite for safe working is the observance of all safety instructions in this manual.

In addition to these instructions, the documents listed under ▸ 1.1.4 [🗋 6] are applicable.

NOTE: The illustrations in this manual are intended to provide a basic understanding and may deviate from the actual version.

1.1.1 Presentation of Warning Labels

To make risks clear, the following signal words and symbols are used for safety notes.

⚠ DANGER

Dangers for persons!

Non-observance will inevitably cause irreversible injury or death.

⚠ WARNING

Dangers for persons!

Non-observance can lead to irreversible injury and even death.

⚠ CAUTION

Dangers for persons!

Non-observance can cause minor injuries.

NOTICE

Material damage!

Information about avoiding material damage.

1.1.2 Definition of Terms

The term "product" replaces the product name on the title page in this manual.

1.1.3 Symbol definition

The following symbols are used in this manual:

■ Prerequisite for an action

1. Action 1
2. Action 2
   ⇨ Intermediate results

⇨ Final results

▸ 1.1.3 [🗋 6]: chapter number and [page number] in hyperlinks

1.1.4 Applicable documents

- General terms of business *
- Catalog data sheet of the purchased product *

The documents labeled with an asterisk (*) can be downloaded from **schunk.com/downloads**.

1.1.5 Sizes

This operating manual applies to the following sizes:

- GFS 16
- GFS 25
- GFS 32
- GFS 40

1.2 Warranty

If the product is used as intended, the warranty is valid for 24 months from the ex-works delivery date under the following conditions:

- Observe the specified maintenance and lubrication intervals
- Observe the ambient conditions and operating conditions

Parts touching the workpiece and wear parts are not included in the warranty.

1.3 Scope of delivery

The scope of delivery includes

- Swivel finger GFS in the version ordered
- Assembly and Operating Manual
- Accessory pack

1.3.1 Accessories kit

Content of the accessory pack:

- Centering sleeve
- Screw
- O-ring
- Fitting screw
- Split washer

ID.-No. of the accessory pack

Size	ID number
16	5511459
25	5511460
32	5511461
40	5510235

Tab.: ID.-No. of the accessory pack

1.4 Accessories

A wide range of accessories are available for this product

For information regarding which accessory articles can be used with the corresponding product variants, see catalog data sheet.

1.4.1 Seal kit

ID.-No. of the seal kit

Size	ID number
16	0370882
25	0370883
32	0370884
40	0370885

contents of the sealing kit, ▶ 8 [🗋 28].

2 Basic safety notes

2.1 Intended use

The product may only be used for swiveling permissible attachment parts or workpieces.

- The product may only be used within the scope of its technical data, ▶ 3 [🗋 16].
- When implementing and operating components in safety-related parts of the control systems, the basic safety principles in accordance with DIN EN ISO 13849-2 apply. The proven safety principles in accordance with DIN EN ISO 13849-2 also apply to categories 1, 2, 3 and 4.
- The product is intended for installation in a machine/automated system. The applicable guidelines for the machine/automated system must be observed and complied with.
- The product is intended for industrial and industry-oriented use.
- Appropriate use of the product includes compliance with all instructions in this manual.

2.2 Not intended use

It is not intended use if the product is used, for example, as a pressing tool, stamping tool, lifting gear, guide for tools, cutting tool, clamping device or a drilling tool.

- Any utilization that exceeds or differs from the appropriate use is regarded as misuse.

2.3 Constructional changes

Implementation of structural changes

Modifications, changes or reworking, e.g. additional threads, holes, or safety devices, can damage the product or impair its functionality or safety.

- Structural changes should only be made with the written approval of SCHUNK.

2.4 Spare parts

Use of unauthorized spare parts

Using unauthorized spare parts can endanger personnel and damage the product or cause it to malfunction.

- Use only original spare parts or spares authorized by SCHUNK.

2.5 Ambient conditions and operating conditions

Required ambient conditions and operating conditions

Incorrect ambient and operating conditions can make the product unsafe, leading to the risk of serious injuries, considerable material damage and/or a significant reduction to the product's life span.

- Make sure that the product is used only in the context of its defined application parameters, ▶ 3 [🗋 16].

2.6 Personnel qualification

Inadequate qualifications of the personnel

If the personnel working with the product is not sufficiently qualified, the result may be serious injuries and significant property damage.

- All work may only be performed by qualified personnel.
- Before working with the product, the personnel must have read and understood the complete assembly and operating manual.
- Observe the national safety regulations and rules and general safety instructions.

The following personal qualifications are necessary for the various activities related to the product:

Trained electrician	Due to their technical training, knowledge and experience, trained electricians are able to work on electrical systems, recognize and avoid possible dangers and know the relevant standards and regulations.
Qualified personnel	Due to its technical training, knowledge and experience, qualified personnel is able to perform the delegated tasks, recognize and avoid possible dangers and knows the relevant standards and regulations.
Instructed person	Instructed persons were instructed by the operator about the delegated tasks and possible dangers due to improper behaviour.
Service personnel of the manufacturer	Due to its technical training, knowledge and experience, service personnel of the manufacturer is able to perform the delegated tasks and to recognize and avoid possible dangers.

2.7 Personal protective equipment

Use of personal protective equipment

Personal protective equipment serves to protect staff against danger which may interfere with their health or safety at work.

- When working on and with the product, observe the occupational health and safety regulations and wear the required personal protective equipment.
- Observe the valid safety and accident prevention regulations.
- Wear protective gloves to guard against sharp edges and corners or rough surfaces.
- Wear heat-resistant protective gloves when handling hot surfaces.
- Wear protective gloves and safety goggles when handling hazardous substances.
- Wear close-fitting protective clothing and also wear long hair in a hairnet when dealing with moving components.

2.8 Notes on safe operation

Incorrect handling of the personnel

Incorrect handling and assembly may impair the product's safety and cause serious injuries and considerable material damage.

- Avoid any manner of working that may interfere with the function and operational safety of the product.
- Use the product as intended.
- Observe the safety notes and assembly instructions.
- Do not expose the product to any corrosive media. This does not apply to products that are designed for special environments.
- Eliminate any malfunction immediately.
- Observe the care and maintenance instructions.
- Observe the current safety, accident prevention and environmental protection regulations regarding the product's application field.

2.9 Transport

Handling during transport

Incorrect handling during transport may impair the product's safety and cause serious injuries and considerable material damage.

- When handling heavy weights, use lifting equipment to lift the product and transport it by appropriate means.
- Secure the product against falling during transportation and handling.
- Stand clear of suspended loads.

2.10 Malfunctions

Behavior in case of malfunctions

- Immediately remove the product from operation and report the malfunction to the responsible departments/persons.
- Order appropriately trained personnel to rectify the malfunction.
- Do not recommission the product until the malfunction has been rectified.
- Test the product after a malfunction to establish whether it still functions properly and no increased risks have arisen.

2.11 Disposal

Handling of disposal

The incorrect handling of disposal may impair the product's safety and cause serious injuries as well as considerable material and environmental harm.

- Follow local regulations on dispatching product components for recycling or proper disposal.

2.12 Fundamental dangers

General

- Observe safety distances.
- Never deactivate safety devices.
- Before commissioning the product, take appropriate protective measures to secure the danger zone.
- Disconnect power sources before installation, modification, maintenance, or calibration. Ensure that no residual energy remains in the system.
- If the energy supply is connected, do not move any parts by hand.
- Do not reach into the open mechanism or movement area of the product during operation.

2.12.1 Protection during handling and assembly

Incorrect handling and assembly

Incorrect handling and assembly may impair the product's safety and cause serious injuries and considerable material damage.

- Have all work carried out by appropriately qualified personnel.
- For all work, secure the product against accidental operation.
- Observe the relevant accident prevention rules.
- Use suitable assembly and transport equipment and take precautions to prevent jamming and crushing.

Incorrect lifting of loads

Falling loads may cause serious injuries and even death.

- Stand clear of suspended loads and do not step into their swiveling range.
- Never move loads without supervision.
- Do not leave suspended loads unattended.

2.12.2 Protection during commissioning and operation

Falling or violently ejected components

Falling and violently ejected components can cause serious injuries and even death.

- Take appropriate protective measures to secure the danger zone.
- Never step into the danger zone during operation.

2.12.3 Protection against dangerous movements

Unexpected movements

Residual energy in the system may cause serious injuries while working with the product.

- Switch off the energy supply, ensure that no residual energy remains and secure against inadvertent reactivation.
- Never rely solely on the response of the monitoring function to avert danger. Until the installed monitors become effective, it must be assumed that the drive movement is faulty, with its action being dependent on the control unit and the current operating condition of the drive. Perform maintenance work, modifications, and attachments outside the danger zone defined by the movement range.
- To avoid accidents and/or material damage, human access to the movement range of the machine must be restricted. Limit/prevent accidental access for people in this area due through technical safety measures. The protective cover and protective fence must be rigid enough to withstand the maximum possible movement energy. EMERGENCY STOP switches must be easily and quickly accessible. Before starting up the machine or automated system, check that the EMERGENCY STOP system is working. Prevent operation of the machine if this protective equipment does not function correctly.

2.12.4 Protection against electric shock

Possible electrostatic energy

Components or assembly groups may become electrostatically charged. When the electrostatic charge is touched, the discharge may trigger a shock reaction leading to injuries.

- The operator must ensure that all components and assembly groups are included in the local potential equalisation in accordance with the applicable regulations.
- While paying attention to the actual conditions of the working environment, the potential equalisation must be implemented by a specialist electrician according to the applicable regulations.
- The effectiveness of the potential equalisation must be verified by executing regular safety measurements.

2.13 Notes on particular risks

⚠ WARNING

Risk of injury due to residual energy in the shock absorber

Uncontrolled movements of the rotational axis are possible.

⚠ WARNING

Risk of injury from objects falling and being ejected!

Falling and ejected objects during operation can lead to serious injury or death.

- Take appropriate protective measures to secure the danger zone.

Generally valid:

- Remove the energy supplies before installation, modification, maintenance, or adjustment work.
- Make sure that no residual energy remains in the system.
- Do not move parts by hand when the energy supply is connected.
- Do not reach into the open mechanism or the movement area of the unit.
- Perform maintenance, modifications, and additions outside the danger zone.
- Secure the product during all operations against uncontrolled activation.
- Take a precautionary approach by maintenance and disassembly.
- Only specially trained staff should disassemble the product.

⚠ WARNING

Risk of injury due to unexpected movements of the machine/ system!

Movements of the axes, rotating parts and moving the gripper jaws may cause serious injuries.

- Switch off the energy supply before starting with assembly and adjustment works.
- Make sure there is no residiual energy in the system.

3 Technical data

Connection data

Designation	Value
Pressure medium	Compressed air, compressed air quality according to ISO 8573-1:2010 [7:4:4]
Nominal operating pressure [bar]	6
Min. pressure [bar]	3
Max. pressure [bar]	8

Basic data

Size	Weight [kg]	Nominal torque [Nm]
16	0.69	0.64
25	1.6	2.35
32	3.0	5.0
40	5.0	10.0

Ambient conditions and operating conditions

Designation	Value
Ambient temperature [°C] Min. Max.	 +5 +60
Protection class IP	54
Noise emission [dB(A)]	≤70

More technical data is included in the catalog data sheet. Whichever is the latest version.

4 Assembly

4.1 Mechanical connection

Evenness of the mounting surface

The values apply to the whole mounting surface to which the product is mounted.

Edge length	Permissible unevenness
< 100	< 0.02
> 100	< 0.05

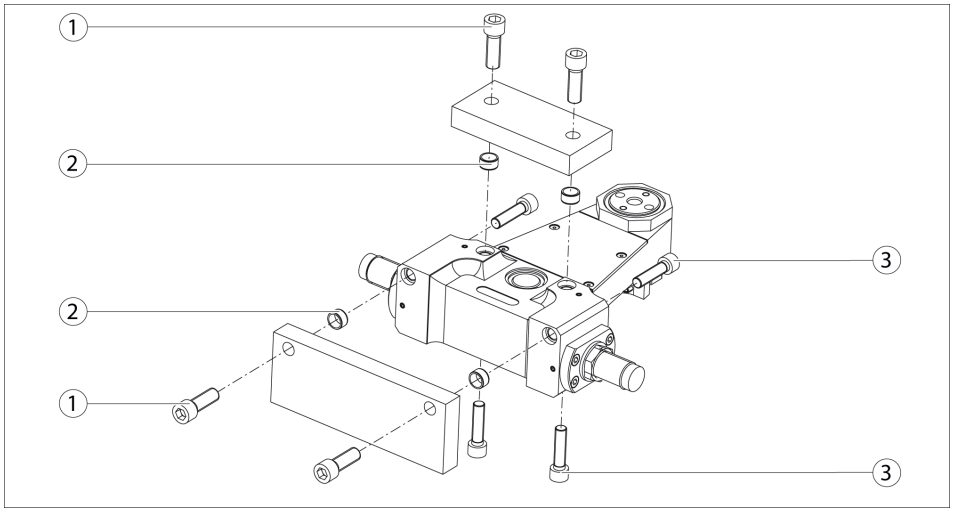
Tab.: Requirements for evenness of the mounting surface (Dimensions in mm)

NOTICE

Increased play and wear with off-center attachments.

- A counter bearing must be used with off-center attachments.

Mounting



Assembly options

Dimensions

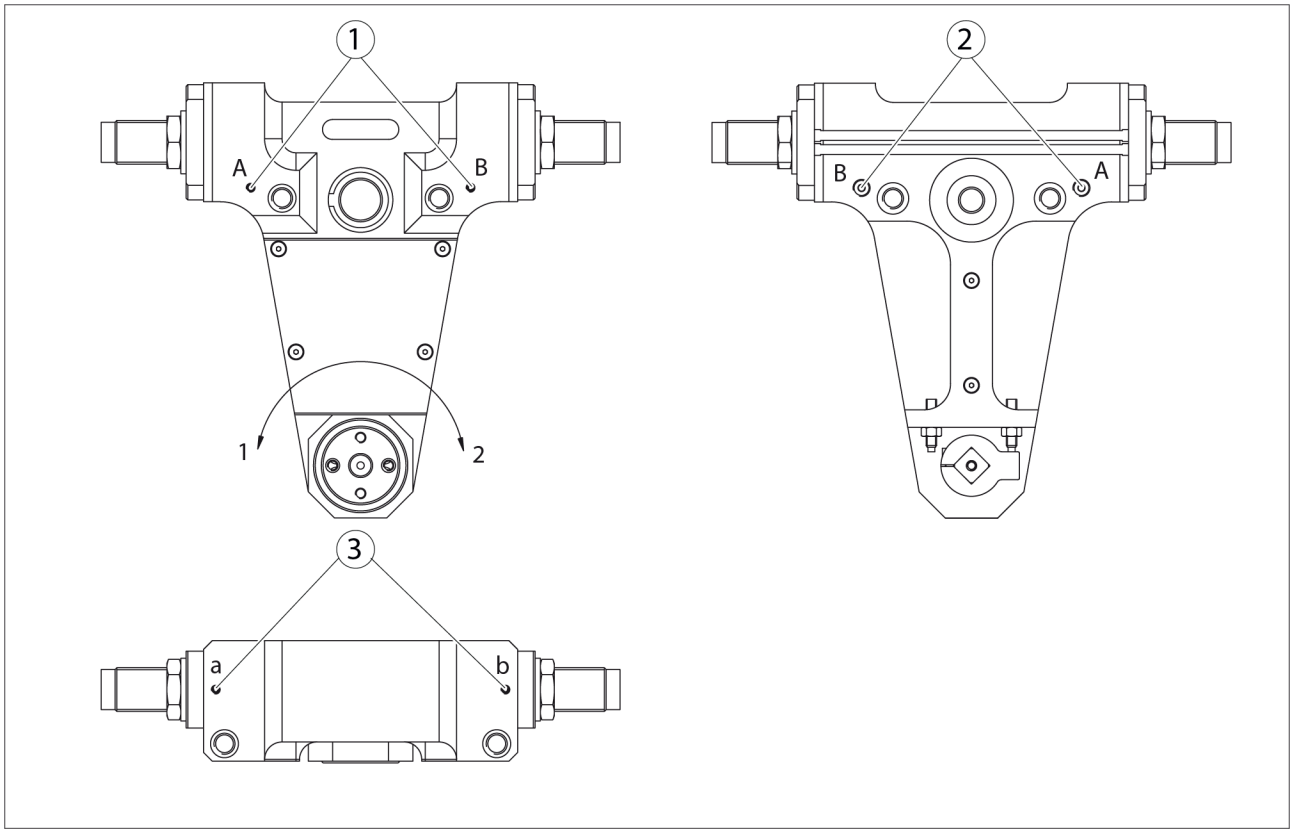
Size	① Screw	② Centering sleeve	③Screw
16	M5	Ø 8 x 5.2	M4 x 20
25	M8	Ø 12 x 6.6	M6 x 30
32	M10	Ø 14 x 8.6	M8 x 35
40	M12	Ø 16 x 8.6	M10 x 40

The swivel jaw or counter bearing can be fastened at each of the two internal threads or using screws (92) from the accessory kit. For centering, use the centering sleeves (91) from the accessory kit.

4.2 Pneumatic connection

NOTICE

Observe the requirements for the air supply, ▶ 3 [🗋 16].



Air connection

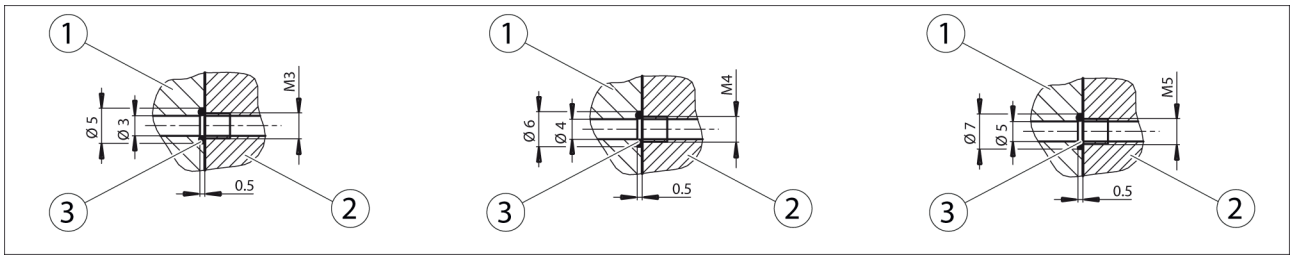
Swivel direction

- Air connection A for swivel direction "1"
- Air connection B for swivel direction "2"

Dimensions

Size	① Hose-free direct connection	② Main connections	③Hose-free direct connection
16	M3 (2x)	M5 (2x)	M3 (2x)
25	M4 (2x)	R1/8 (2x)	M4 (2x)
32	M5 (2x)	R1/8 (2x)	M5 (2x)
40	M5 (2x)	R1/8 (2x)	M5 (2x)

- Only open the required air connections.
- Seal those main air connections that are not needed using the locking screws from the accessory kit.
- For hose-free direct connections, use the O-rings from the accessory kit.
- For the connection, use the one-way flow control valves supplied (these are used for setting the swiveling speed on the fully assembled system).



Hose-free direct connection

Dimensions O-ring, Hose-free direct connection

Item	Designation	M3	M4	M5
1	Adapter			
2	Gripper finger			
3	O-ring	Ø3 x 1	Ø4 x 1	Ø5 x 1

NOTICE

The central air supply unit must be equipped with a maintenance unit that is positioned as near as possible to the consumer.

Further information on the hose-free direct connection contains the catalog data sheet.

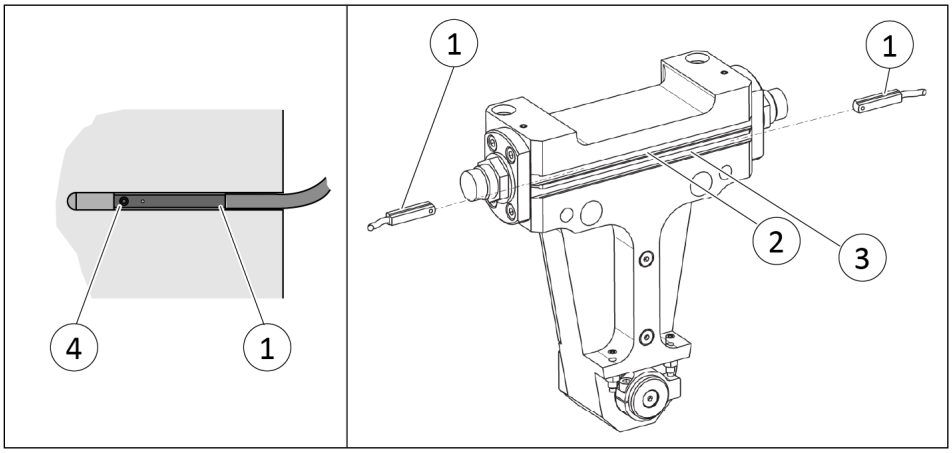
4.3 Mounting the MMS 30 magnetic switch

NOTICE

Risk of damage to the sensor during assembly!

- Observe the maximal tightening torque.

The magnetic switches can be mounted using two grooves in the housing.



1. Move the swivel finger to **the 0° end position** .
2. Insert sensor 1 (1) into the upper groove (2).
3. Move the sensor in the groove until it switches.
4. Fasten sensor with grub screw (4).
   Tightening torque: 10 Ncm
5. Check the switching position of the magnetic switch by swiveling the fingers several times.
6. Move the swivel finger to **the end position 180° or 90°**.
7. Insert sensor 2 (1) into the lower groove (3).
8. Move the sensor in the groove until it switches.
9. Fasten sensor with grub screw (4).
   Tightening torque: 10 Ncm
10. Check the switching position of the magnetic switch by swiveling the fingers several times.

5 Setting tasks

Functional principle

The piston, which is pressurized with compressed air, moves and transmits the driving force via pinions. Just before the end position, which is set using the set-screws at the lowest pinion, an industrial shock absorber intervenes and dampens the movement.

Throttle

The movement from start to finish is adjusted by an exhaust air throttle. Due to the delayed ventilation, the movement is slowed down somewhat.

Damping

The movement is dampened by hydraulic industrial shock absorbers. Make sure that the shock absorber is not overloaded; ▶ 3 [🗋 16].

If the impact velocity on a shock absorber is too high, this will lead to a pressure peak inside the absorber. The pressure peak can damage components and as a result cause premature failure of the shock absorber.

Too low impact velocity can mean that the movement energy may only be converted at the end of the damping over a short path. This can also result in pressure peaks which damage the shock absorber.

5.1 Rotating angle adjustment

Position of the item numbers ▶ 8 [🗋 28]

1. Actuate connection A until the swivel jaw has reached its end position.
2. Release the counter nut (37) for B and set the end position with the stop screw (32).
3. Retighten the counter nut (37) and check the end position.
4. For the second end stop, proceed analogously.

5.2 Shock absorber adjustment

Position of the item numbers ▶ 8 [🗋 28]

1. Actuate connection A until the swivel jaw has reached its end position.
2. Loosen the shock absorber nut (44) on the opposing side.
3. Screw in the shock absorber (15) until its external contour is on the piston.
4. Unscrew the shock absorber (15) by a half rotation out of the swivel jaw.
5. Retighten the shock absorber nut (44) and check whether the swivel jaw has reached its end position.
6. For the second end stop, proceed analogously.

5.3 Adjustments for GFS driven on both sides

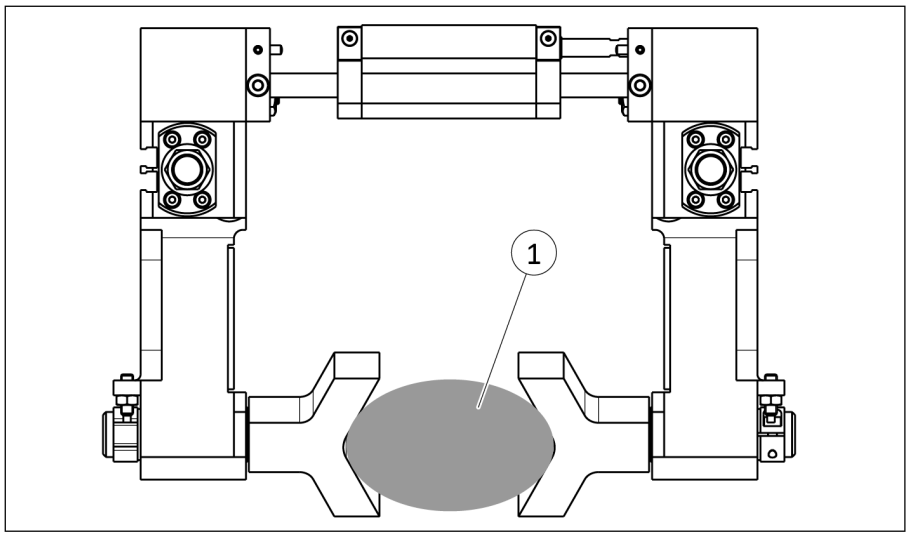
Adjusting the angle of rotation

Position of the item numbers ▸ 8 [🗋 28]

1. Pressurize connection A of both GFS until the swivel jaws have reached their end position.
2. Release the counter nut (37) for connection B and set the end position with the stop screw (32). Make sure that both GFS have the same end position.
3. Retighten the counter nut (37) and check the end position.
4. Adjust the second end stop analogously.

Adjusting the shock absorber and throttle

1. Adjust the absorber stroke and throttling so that both GFS run synchronously without a clamped-in workpiece.
   - ⇨ Visually inspect the rotating angle adjustment on both sides.
   - ⇨ Unscrew the shock absorbers far enough that no play can be felt on the gripper fingers in the end positions.
     Note: If the shock absorbers are screwed in too far, the pinion play will not be pushed out
2. Clamp the workpiece (1) with the highest weight.



3. Swivel product and adjust damper stroke/throttling to this workpiece weight.
   - ⇨ Always adjust both of the gripped shock absorbers and air connections in the same way.
4. Swivel product without workpiece and correct the damper stroke and throttle adjustments if necessary. Ensure that both GFS are running synchronously.
5. Clamp the workpiece again and observe the swiveling course. If necessary, readjust the damper stroke and throttling.

6 Troubleshooting

6.1 Does the swivel jaw not move?

Possible cause	Corrective action
Pressure drops below minimum.	Check air supply. ▶ 4.2 [🗋 18]
Compressed air lines switched.	Check compressed air lines.
Proximity switch defective or set incorrect.	Readjust or change sensor.
Unused air connections open.	Close unused air connections.
Flow control valve closed.	Open the flow control valve.
Component part defective.	Replace component or send it to SCHUNK for repair.

6.2 Does the swivel jaw not make a complete stroke?

Possible cause	Corrective action
Dirt deposits between cover and piston.	▶ 7 [🗋 24]
Pressure drops below minimum.	Check air supply. ▶ 4.2 [🗋 18]
Mounting surface is not sufficiently flat.	Check the evenness of the mounting surface. ▶ 4.1 [🗋 17]
Component part defective.	Send product with a SCHUNK repair order or dismantle product.

6.3 Loss of power?

Possible cause	Corrective action
Compressed air can escape.	Check seals, if necessary, disassemble the product and replace seals.
Too much grease in the mechanical movement space.	Clean and lubricate product. ▶ 7 [🗋 24]
Pressure drops below minimum.	Check air supply. ▶ 4.2 [🗋 18]

7 Maintenance

7.1 Notes

Original spare parts

Use only original spare parts of SCHUNK when replacing spare and wear parts.

7.2 Maintenance and care intervals

NOTICE

Material damage due to hardening lubricants!

Lubricants harden more quickly at temperatures above 60°C, leading to possible product damage.

- Reduce the lubricant intervals accordingly.

Interval (million cycles):	2

7.3 Lubricants/Lubrication points (basic lubrication)

During maintenance, treat all greased areas with lubricant. Thinly apply lubricant with a lint-free cloth.

SCHUNK recommends the lubricants listed.

Greasing area	Lubricant
Metallic sliding surfaces	SCHUNK grease 3
Seals and sealing surfaces	SCHUNK grease 1
The teeth and the pinion	SCHUNK grease 3
Rolling bearings	SCHUNK grease 10

Details regarding SCHUNK lubricant designations are available at **schunk.com/lubricants**.

The product contains food-compliant lubricants as standard. Components such as rolling bearings, linear guides, or shock absorbers are not provided with food-compliant lubricants. **The requirements of standard EN 1672-2:2020 are not fully met.**

NOTE

- Change contaminated food-compliant lubricant.
- Observe information in the safety data sheet from the lubricant manufacturer.

7.4 Disassembling the product

⚠ WARNING

Risk of injury due to unexpected movements!

If the power supply is switched on or residual energy remains in the system, components can move unexpectedly and cause serious injuries.

- Before starting any work on the product: Switch off the power supply and secure against restarting.
- Make sure, that no residual energy remains in the system.

7.4.1 Dismantling the swivel jaw

Position of the item numbers ▸ 8 [🗋 28]

1. Remove compressed air lines.
2. Remove the shock absorber (15), shock absorber nuts (44) and their seals (26).
3. Unscrew the screws (34) and remove the cover (9).
4. Mark the installation position of the pinion (4) and the pistons (3).
5. Unscrew the four screws (33) at the front side of the swivel jaw and take off the cover (2).
6. Unscrew the two screws (33) on the back of the swivel jaw and pull off the bolts (8) from the housing (1). The gears (6) with the bearing (20) (GFS 16: (19)) can now be pulled off of the bolts (8).
7. Unscrew the screw (31) and remove the safety washer (12).
8. Unscrew the screw (38) and pull off the stop (7 or 11).
9. Pull off the pinion (4).
10. Remove the safety ring (39) and press out the pinion (5) and the bearing (18 and 19) from the housing (1).
11. Push the piston (3) out of the housing (1).

NOTE

Note the information ▸ 7.1 [🗋 24] and tightening torques for screws ▸ 7.5.1 [🗋 27]!

7.4.2 Disassembling the idler unit

Position of the item numbers ▶ 8 [🗋 28]

1. Remove the safety ring (69).
2. Pull off the pinion (64).
3. Pull off the bearing (76).
4. Remove the safety ring (70) and press out the bearing (77).

7.4.3 Installing and removing a shock absorber

1. Screw out the shock absorber nut (44).
2. Remove the seal (26).
3. Unscrew the shock absorber (15).

7.5 Servicing and assembling the product

Maintenance

- Clean all parts thoroughly and check for damage and wear.
- Treat all greased areas with lubricant.
  ▸ 7.3 [🗋 24]
- Oil or grease bare external steel parts.
- Replace all wear parts / seals.
  - Position of the wearing parts ▸ 8 [🗋 28]
  - Seal kit ▸ 1.4.1 [🗋 7]

Assembly

Assembly takes place in the opposite order to disassembly. Observe the following:

- Unless otherwise specified, secure all screws and nuts with Loctite no. 243 and tighten with the appropriate tightening torque.▸ 7.5.1 [🗋 27]

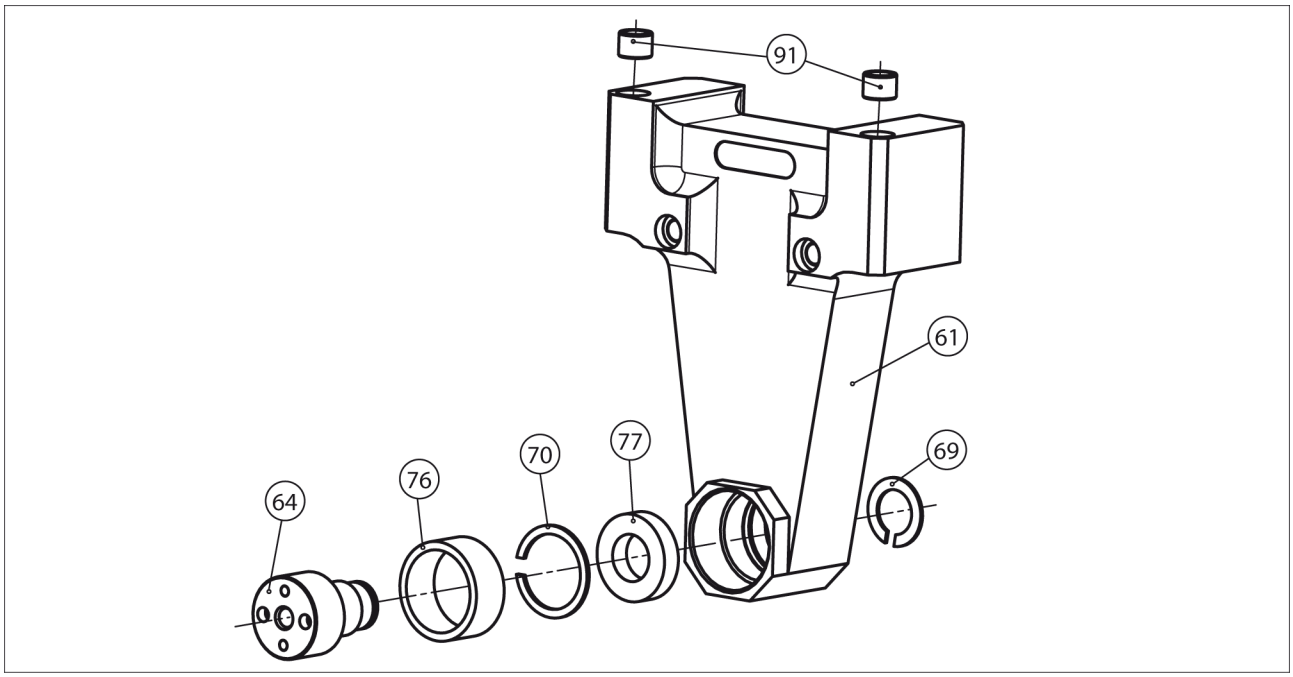
7.5.1 Screw tightening torques

Position of the item numbers ▸ 8 [🗋 28]

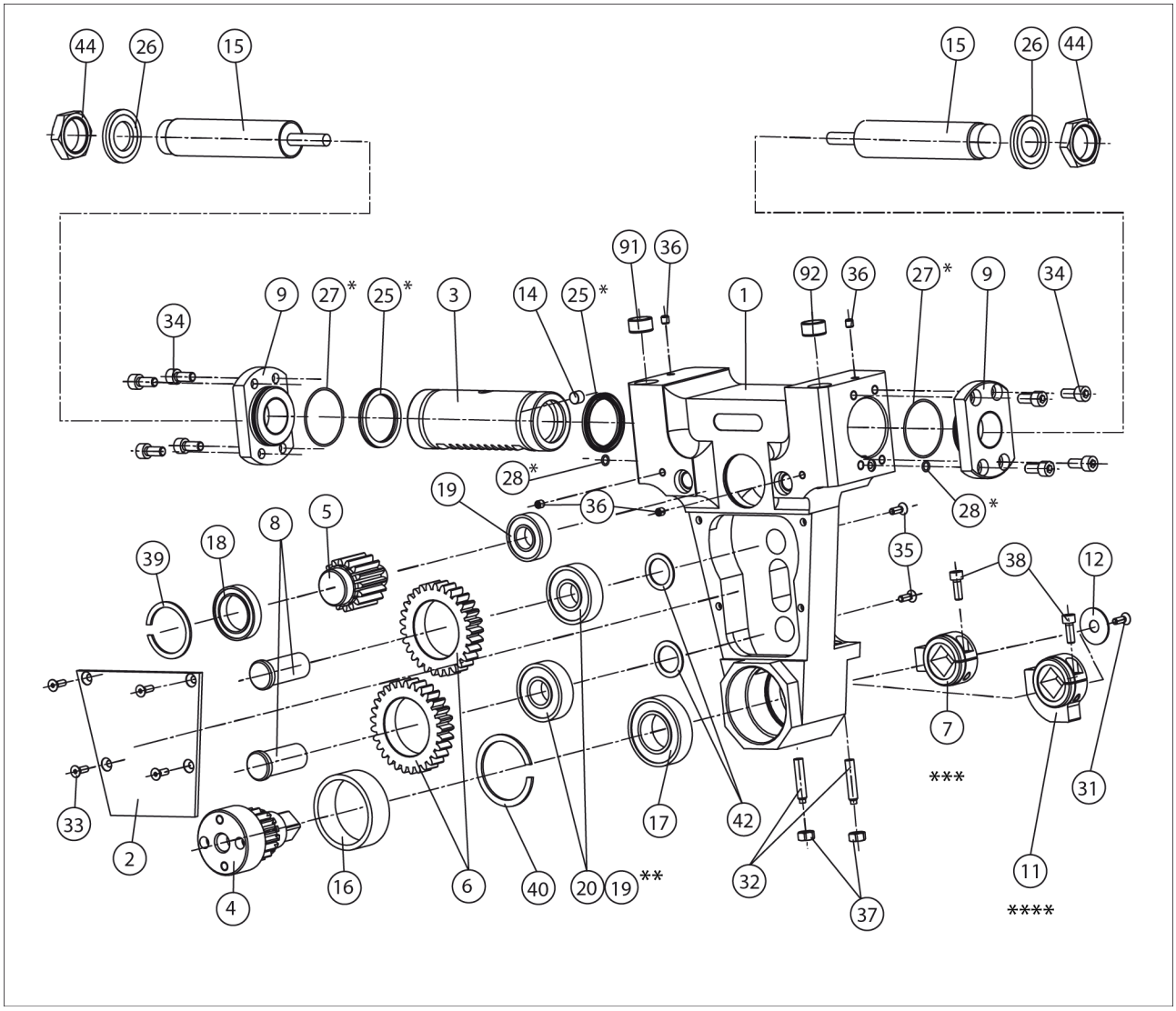
Item	Tightening torque [Nm]
31	2.2
33	1.3
34	0.75
37	5
38	2.7

8 Assembly drawings

8.1 Idler unit assembly drawing



8.2 Swiveling beam assembly drawing



* Wearing part, replace during maintenance.
Included in the seal kit. Seal kit can only be ordered completely.

** only for size 16

*** only for version with 180° rotating angle

**** only for version with 90° rotating angle

9 Translation of the original declaration of incorporation

in terms of the Directive 2006/42/EG, Annex II, Part 1 Section B.

Manufacturer/ Distributor	SCHUNK SE & Co. KG Spanntechnik | Greiftechnik | Automatisierungstechnik Bahnhofstr. 106 – 134 D–74348 Lauffen/Neckar

We hereby declare that the partly completed machine described below

Product designation:	Swivel finger / GFS /pneumatic
ID number	0355497 ... 0355533

meets the following basic occupational health and safety of the Machinery Directive 2006/42/EC:

No. 1.1.1, No. 1.1.2, No. 1.1.3, No. 1.1.5, No. 1.3.2, No. 1.5.3, No. 1.5.4, No. 1.5.6, No. 1.5.8, No. 1.5.10, No. 1.5.11, No. 1.5.13

The partly completed machinery may not be put into operation until it has been confirmed that the machine into which the partly completed machinery is to be installed complies with the provisions of the Machinery Directive (2006/42/EC). The declaration shall be rendered invalid if modifications are made to the product.

Applied harmonized standards, especially:

EN ISO 12100:2010	Safety of machinery – General principles for design – Risk assessment and risk reduction

The special technical documentation according to Annex VII, Part B, belonging to the partly completed machine, has been created.

Person authorized to compile the technical documentation:
Stefanie Walter, Address: see manufacturer's address

Signature: see original declaration

Lauffen/Neckar, January 2024

Dr.–Ing. Manuel Baumeister,
Head of Systems Engineering,
Technology & Innovation

10 UKCA declaration of incorporation

in accordance with the Supply of Machinery (Safety) Regulations 2008.

Manufacturer/ Distributor	SCHUNK Intec Limited Clamping and gripping technology 3 Drakes Mews, Crownhill MK8 0ER Milton Keynes

We hereby declare that on the date of the declaration the following partly completed machine complied with all basic safety and health regulations found in the
"Supply of Machinery (Safety) Regulations 2008".
The declaration shall be rendered invalid if modifications are made to the product.

Product designation:	Swivel finger / GFS / pneumatic
ID number	0355497 ... 0355533

The partly completed machine may not be put into operation until it has been confirmed that the machine into which the partly completed machine is to be installed complies with the provisions of the "Supply of Machinery (Safety) Regulations 2008".

Applied harmonized standards, especially:

EN ISO 12100:2010	Safety of machinery – General principles for design – Risk assessment and risk reduction

The special technical documentation according to Annex VII, Part B, belonging to the partly completed machine, has been created.

Person authorized to compile the technical documentation:
Marcel Machado, address: refer to manufacturer's address

Lauffen/Neckar, January 2024

Dr.-Ing. Manuel Baumeister,
Head of Systems Engineering,
Technology & Innovation

11 Information on the RoHS Directive, REACH Regulation and Substances of Very High Concern (SVHC)

RoHS Directive

SCHUNK products are classified as "large-scale stationary installations" or as "large-scale stationary industrial tools" within the meaning of Directive 2011/65/EU and its extension 2015/863/EU "on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)", or fulfill their intended function only as part of one. Therefore products from SCHUNK do not fall within the scope of the directive at this time.

REACH Regulation

Products from SCHUNK fully comply with the regulations of Regulation (EC) No. 1907/2006 "concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)" and its amendment 2022/477. SCHUNK attaches great importance to completely avoiding chemicals of concern to humans and the environment wherever possible.

Only in rare exceptional cases do SCHUNK products contain SVHC substances on the candidate list with a mass content above 0.1%. In accordance with Article. 33 (1) of Regulation (EC) No. 1907/2006, SCHUNK complies with its duty to "communicate information on substances in articles" and lists the components concerned and the substances used in an overview that can be viewed at **schunk.com\SVHC**.

Signature: see original declaration

Lauffen/Neckar, January 2024

Dr.-Ing. Manuel Baumeister,
Head of Systems Engineering,
Technology & Innovation

SCHUNK SE & Co. KG
Spanntechnik | Greiftechnik | Automatisierungstechnik

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10.00 | GFS | Assembly and Operating Manual | en | 389090