



Assembly and Operating Manual

GWM-S

Gripper Change Magazine (Rigid Version)

Translation of Original Operating
Manual

Imprint

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

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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 ▶ 1.1.2 [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.

CAUTION

Material damage!

Information about avoiding material damage.

1.1.2 Applicable documents

- General terms of business *
- Catalog data sheet of the purchased product *
- Assembly and operating manuals of the accessories *

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

1.2 Warranty

If the product is used as intended, the warranty is valid for 12 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

- Gripper Change Magazine (Rigid Version) GWM-S in the version ordered
- Assembly and Operating Manual

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 Sensors

Designation	Type
Inductive proximity switches	IN

- Exact type designation of the compatible sensors see catalog.
- Information on handling sensors is available at schunk.com or from SCHUNK contact persons.

2 Basic safety notes

2.1 Intended use

The gripper change magazine may only be used to store gripper change adapters.

- The product may only be used within the scope of its technical data, ▶ 3 [14].
- The product is intended for industrial and industry-oriented use.
- 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.
- Appropriate use of the product includes compliance with all instructions in this manual.
- 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.

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

By conversions, changes, and reworking, e.g. additional threads, holes, or safety devices can impair the functioning or safety of the product or damage it.

- 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 [14].
- Make sure that the product is a sufficient size for the application.
- Make sure that the environment is free from splash water and vapors as well as from abrasion or processing dust. Exceptions are products that are designed especially for contaminated environments.

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 can make the product unsafe and risk the danger of serious injuries and considerable material damage.

- During transport and handling, secure the product to prevent it from falling.
- Do not walk under 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



⚠ DANGER

Risk of fatal injury from suspended loads!

Falling loads can cause serious injuries and even death.

- Stand clear of suspended loads and do not step within their swiveling range.
- Never move loads without supervision.
- Do not leave suspended loads unattended.
- Wear suitable protective equipment.



⚠ 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.



⚠ 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.



⚠ WARNING

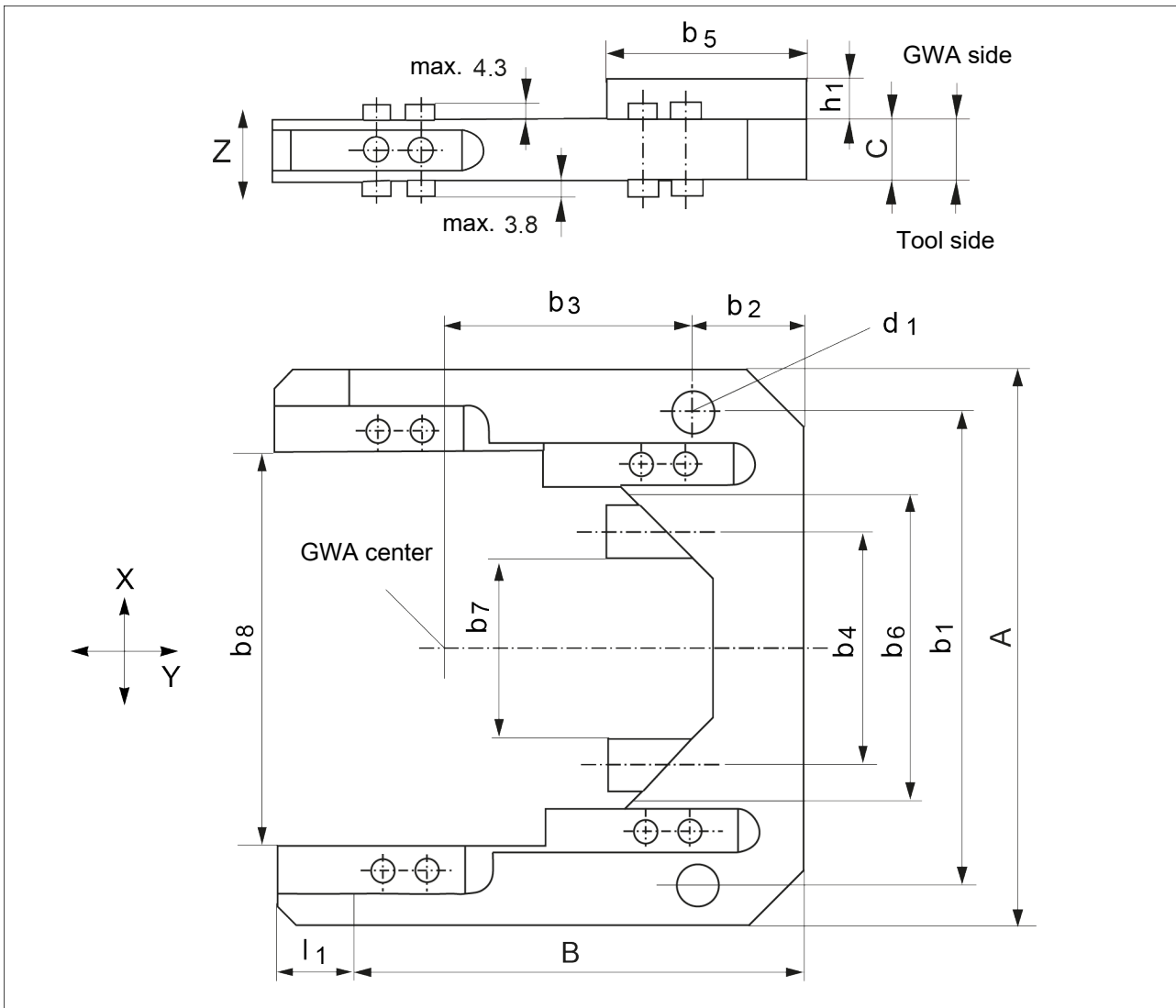
Risk of injury from sharp edges and corners!

Sharp edges and corners can cause cuts.

- Use suitable protective equipment.

3 Technical data

Position compensation in X and Y axes	$\pm 0.5\text{mm}$
Position compensation in Z axis	$\pm 0.25\text{mm}$
Noise emission [dB(A)]	≤ 70

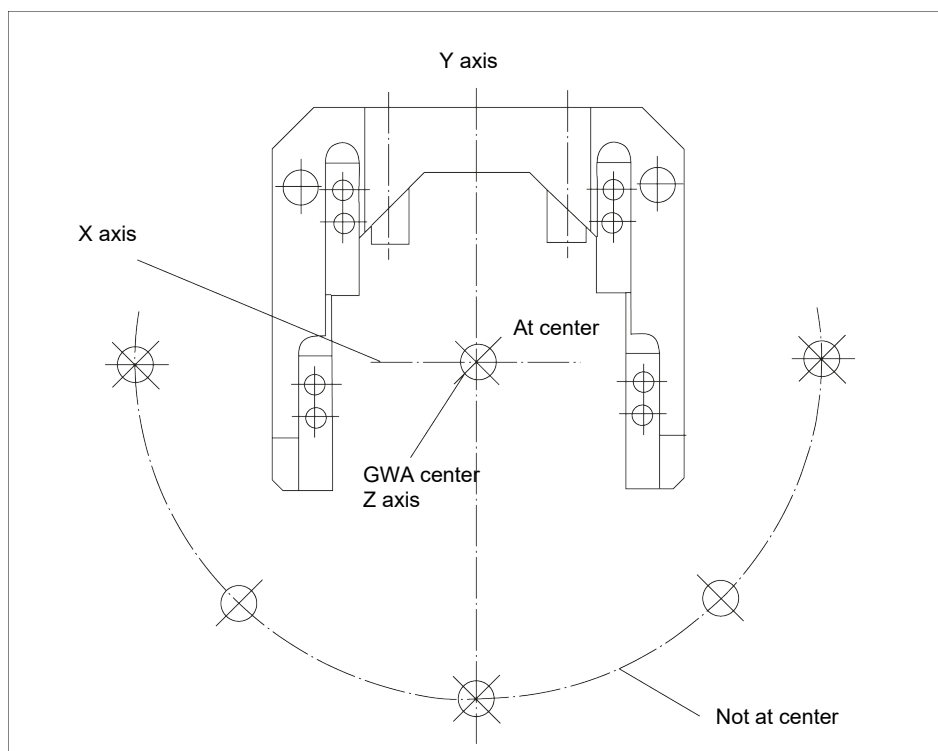


Type	GWM-S 64	GWM-S 80	GWM-S 125
A [mm]	130.00	146.0	210.0
B [mm]	103.5	118.5	165.0
C [mm]	15.0	15.0	20.0
b ₁ [mm]	112.0	125.0	180.0
b ₂ [mm]	35.0	29.0	40.0
b ₃ [mm]	50.0	64.0	80.0
b ₄ [mm]	54.0	60.0	90.0
b ₅ [mm]	36.0	35.0	45.0
b ₆ [mm]	68.0	84.0	108.0
∅ d ₁ H8	∅10	12.0	16.0
h ₁ [mm]	9.0	9.0	12.5
l ₁ approx. [mm]	18.5	18.5	21.0
Mass [kg]	0.9	1.1	2.9

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

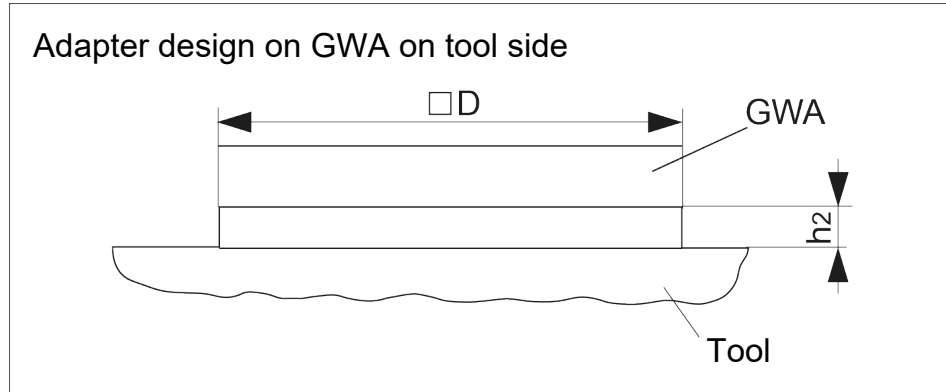
3.1 Load values

Top view (GWK side):



Type	GWM-S 64	GWM-S 80	GWM-S 125
Horizontal installation			
Load at center	420 N	600 N	1500 N
Load not at center	23 Nm	30 Nm	70 Nm
Vertical installation			
Load at center	6 Nm	8 Nm	30 Nm

3.2 Prerequisites for attaching tools



Adapter design on GWA on tool side

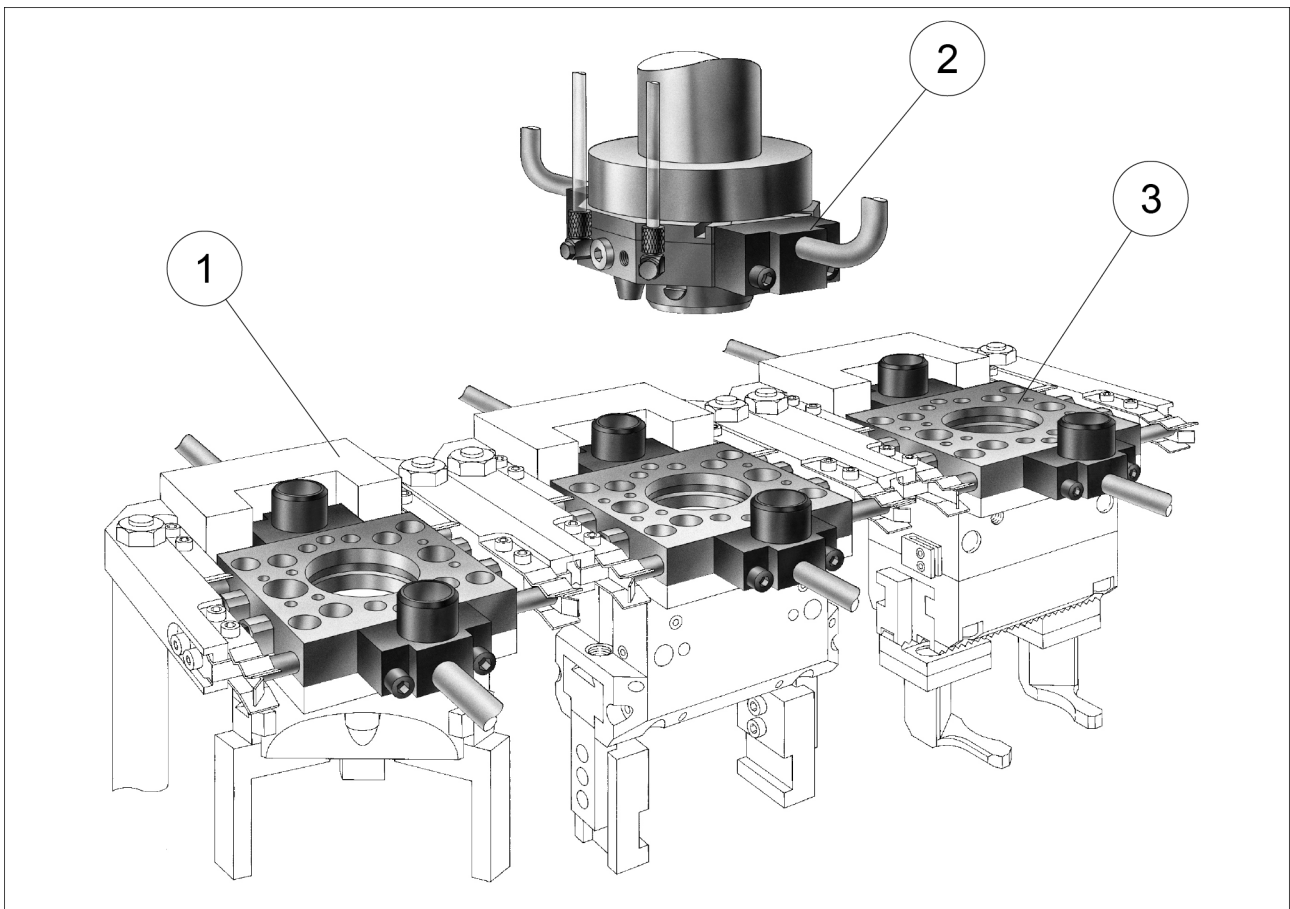
Type	□ D	h ₂
GWM-S 64	64	5.0
GWM-S 80	80	6.0
GWM-S 125	125	7.0

1. When tools are attached to the GWA adapter plates, the external dimensions marked "□ D" must not be exceeded in height "h₂".
2. When fastening the GWM-S, make sure that the cable exit for the GWA's electrical plug connector is not obstructed.

3.3 Loading and unloading forces

Type	
GWM-S 64	60 N
GWM-S 80	60 N
GWM-S 125	90 N

4 Application Example



- | | |
|---|--|
| 1 | GWM gripper change magazine (GWM type) |
| 2 | GWK gripper changing head (GWM type) |
| 3 | GWA gripper change adapter (GWM type) |

5 Assembly

5.1 Mechanical connection

Evenness of the mounting surface

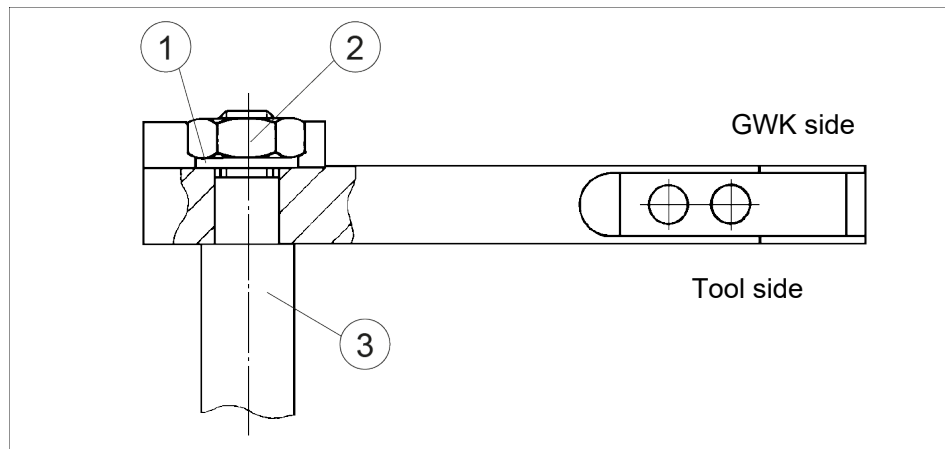
The values apply to the whole mounting surface to which the product is mounted.

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

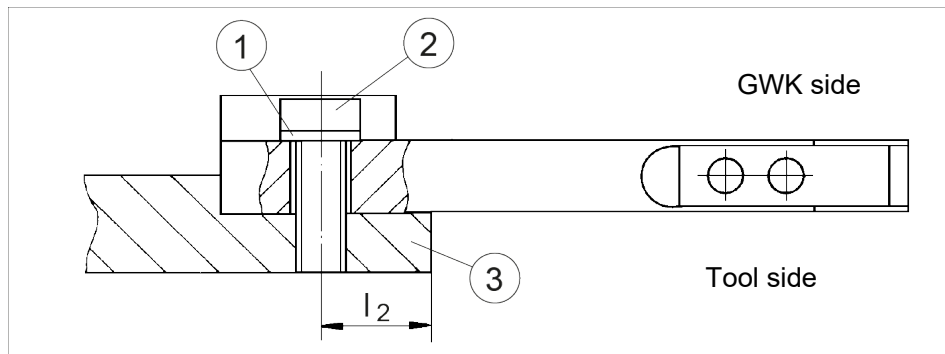
Tab.: Requirements for evenness of the mounting surface (Dimensions in mm)

Fasten the GWM-S to bore holes d_1 H8 ▶ 3 [14].

Mounting on pillars



Mounting with angles or strips



Item	Designation	GWM-S 64	GWM-S 80	GWM-S 125
d_1 H8	Fixing bore	Ø10	Ø12	Ø16
1	Washer, DIN 433			
2	Screw, DIN 4762	M8	M10	M14
3	Max. diameter/width	Ø16	Ø18	Ø26
l_2	1/2 x max. diameter/width			

5.2 Mounting the sensor

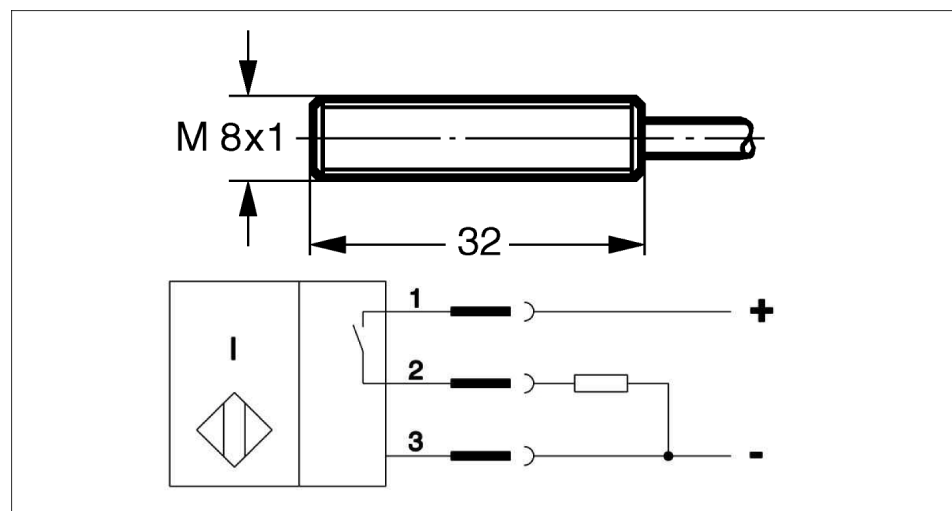
NOTE

Observe the assembly and operating manual of the sensor for mounting and connecting.

The product is equipped for the use of sensors.

- For the exact type designations of suitable sensors, please see the catalog data sheet.
- For technical data for the suitable sensors, see Assembly and Operating Manual and catalog data sheet.
 - The Assembly and Operating Manual and catalog data sheet are included in the scope of delivery for the sensors and are available at schunk.com.
- Information on handling sensors is available at schunk.com or from SCHUNK contact persons.

5.2.1 Inductive proximity switch IN 80



Connection example for IN 80

1	brown	2	black	3	blue
---	-------	---	-------	---	------

The inductive proximity switches used are equipped with reverse polarity protection and are short-circuit-proof.

Make sure that you handle the proximity switches properly:

- Do not pull on the cable.
- Do not allow the sensor to dangle from the cable.
- Do not overtighten the mounting screw or mounting clip.
- Please adhere to a permitted bend radius of the cable. (→ catalog)

- Avoid contact of the proximity switches with hard objects and with chemicals, in particular nitric acid, chromic acid and sulphuric acid.

The inductive proximity switches are electronic components, which can react sensitively to high-frequency interference or electromagnetic fields.

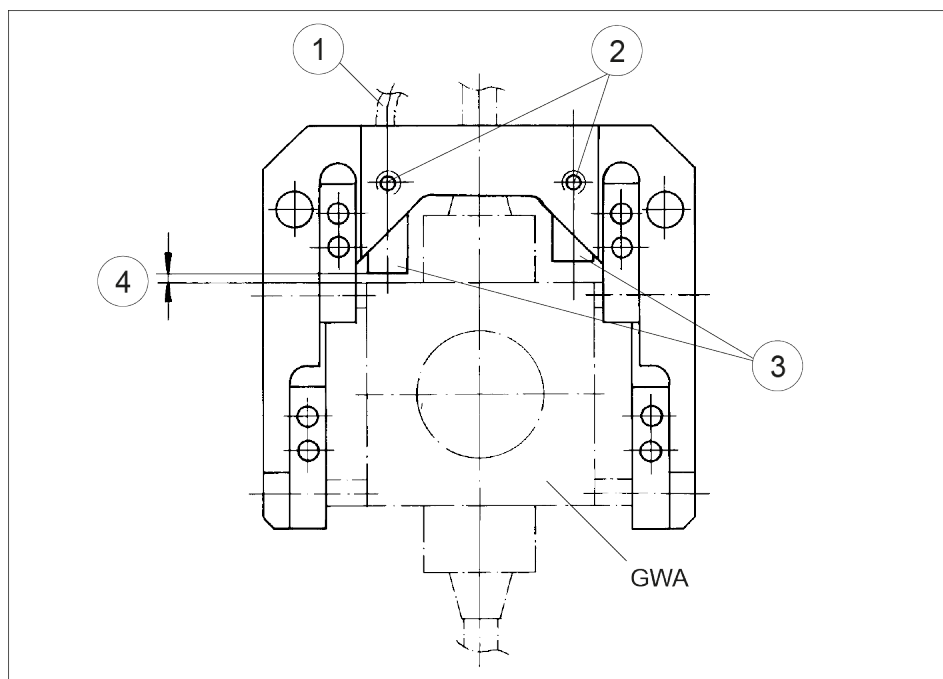
- Check to make sure that the cable is fastened and installed correctly. Provide for sufficient clearance to sources of high-frequency interference and their supply cables.
- Parallel switching of several sensor outputs of the same type (npn, pnp) is permissible, but does not increase the permissible load current.
- Note that the leakage current of the individual sensors (ca. 2 mA) is cumulative.

NOTE

The proximity switch is an accessory and must be ordered separately.

The proximity switch is used for presence monitoring of the GWA.

Assembly of the proximity switch



1	Proximity switch	3	Clamping sleeve
2	Set screw	4	approx. 2mm

1. Load GWM-S with a GWA.
2. Slide proximity switch (1) into one of the bore holes with the clamping sleeves (3).
3. Slide the proximity switch (1) and clamping sleeve (3) until there is a distance of about 2mm to the GWA (proximity switch and clamping sleeve must be flush with one another).
4. Secure proximity switch (1) with set-screw (2).
5. Connect proximity switch.
6. Load and unload GWM-S to test its function.

6 Troubleshooting

Errors	Possible cause /Corrective action
The stored GWA cannot be gripped.	<ul style="list-style-type: none"> • Check loading of GWM-S.
The GWA cannot be stored in GWM-S.	<ul style="list-style-type: none"> • Observe the direction of travel of the GWA. • Check loading tolerances. • Check cable exit for electrical plug connector on GWA. • Adapter not placed on GWA.
The GWA does not lock in the GWM-S.	<ul style="list-style-type: none"> • Check spring-loaded thrust bolt. • Loading tolerances exceeded. • Load values exceeded.
No signal from presence monitoring	<ul style="list-style-type: none"> • Check setting of proximity switch. • Check switching function of proximity switch.

7 Maintenance

7.1 Maintenance intervals

Size	64 - 125
Interval [Mio. cycles]	monthly

7.2 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	Rivolta F.L.G. GT-2
All seals	Rivolta F.L.G. GT-2
Bore hole at the piston	Rivolta F.L.G. GT-2

The product contains food-compliant lubricants as standard.

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.

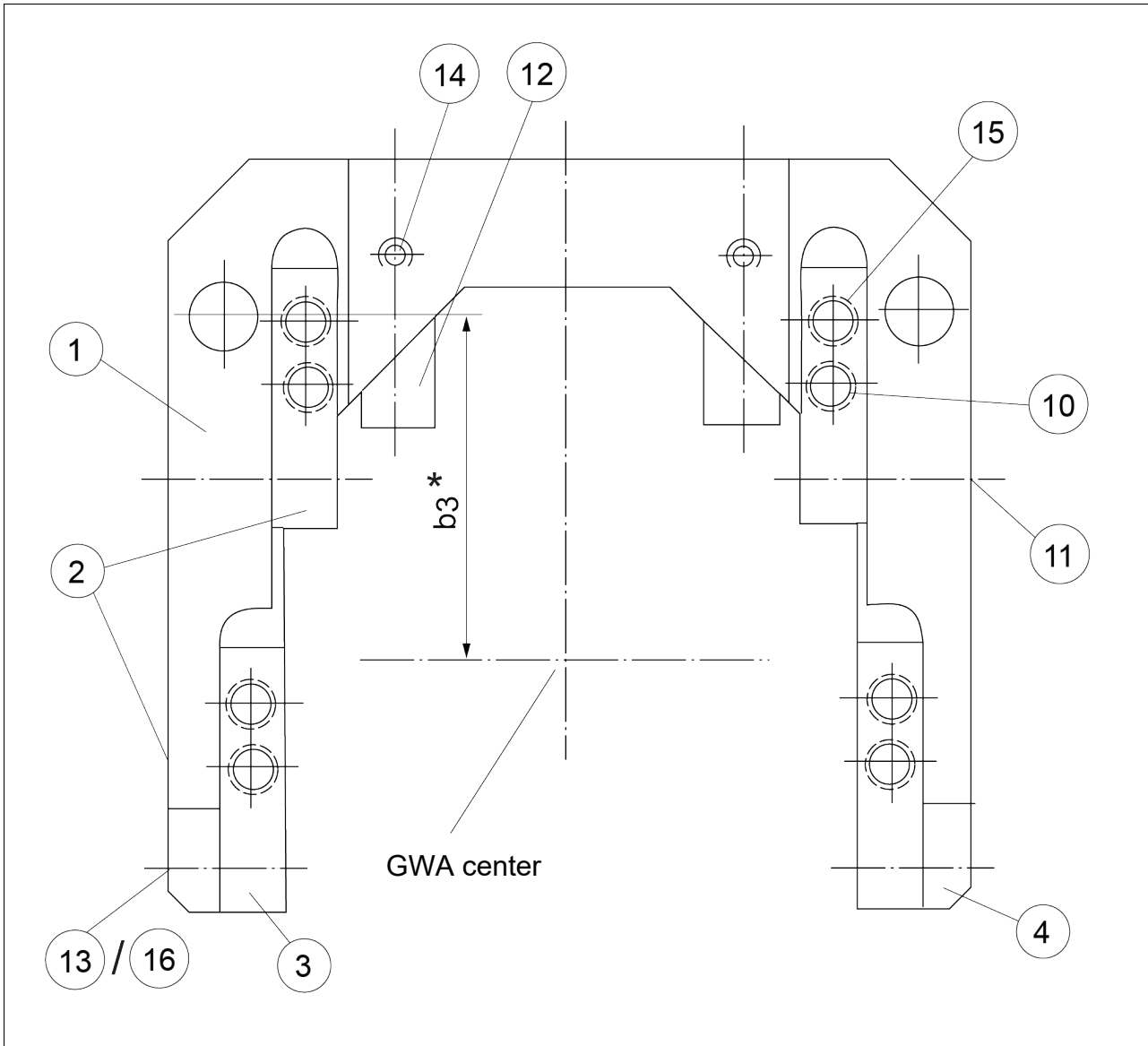
7.3 Servicing the product

Maintenance

- Clean all parts thoroughly and check for damage and wear.
- Oil or grease bare external steel parts.
- Check monthly that the loading tolerances have not been exceeded.
- Unless otherwise specified, secure all screws and nuts with Loctite no. 243 and tighten with the appropriate tightening torque.

7.4 Assembly drawing

The following figure is an example image.
 It serves for illustration and assignment of the spare parts.
 Variations are possible depending on size and variant.



Assembly

* Value for b_3 : ▶ 3 [14].

8 Spare parts

Position of the item numbers ► 7.4 [24]

GWM-S 64

Item	ID number	Quantity	Designation
1	5506436	1	Plate GWM 64
2	5508871	6	Strip 1 GWM-S 64/80/125
3	5508872	2	Strip 2 GWM-S 64/80
4	5508873	2	Guide GWM-S 64/80
10	9662012	20	Screws DIN 7984/8.8 – M4x8
11	9662901	2	Ball pressure screw without head AM 6x16.8
12	9626041	2	Clamping sleeve ISO 13337 Ø10x36
13	9600020	2	Spring-loaded pressure pieces BN6x14
14	9670009	2	Set-screw DIN 913 – M4x8
15	9650002	1	Fitting disk DIN 988/A2 6x12x0.5
16	9691007	2	Nut DIN 439 – M6

GWM-S 80

Item	ID number	Quantity	Designation
1	5506437	1	Plate GWM 80
2	5508871	6	Strip 1 GWM-S 64/80/125
3	5508872	2	Strip 2 GWM-S 64/80
4	5508873	2	Guide GWM-S 64/80
10	9662012	20	Screws DIN 7984/8.8 – M4x8
11	9662901	2	Ball pressure screw without head AM 6x16.8
12	9626041	2	Clamping sleeve ISO 13337 Ø10x36
13	9600020	2	Spring-loaded pressure pieces BN6x14
14	9670009	2	Set-screw DIN 913 – M4x8
15	9650002	1	Fitting disk DIN 988/A2 6x12x0.5
16	9691007	2	Nut DIN 439 – M6

GWM-S 125

Item	ID number	Quantity	Designation
1	5506438	1	Plate GWM 125
2	5508871	6	Strip 1 GWM-S 64/80/125
3	5508880	2	Strip 2 GWM-S 125
4	5508881	2	Guide GWM-S 125
10	9662019	20	Screws DIN 7984/8.8 – M4x10
11	9662901	2	Ball pressure screw without head AM 6x16.8

Spare parts

Item	ID number	Quantity	Designation
12	9626041	2	Clamping sleeve ISO 13337 Ø10x36
13	9600021	2	Spring-loaded pressure pieces BN8x16
14	9670009	2	Set-screw DIN 913 – M4x8
15	9650002	1	Fitting disk DIN 988/A2 6x12x0.5
16	9691008	2	Nut DIN 439 – M8

9 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:	Gripper Change Magazine (Rigid Version) / GWM-S / pneumatic
ID number	0302506 ... 0302536

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, August 2023

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

10 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
Toolholding and workholding | Gripping technology | Automation
technology
Bahnhofstr. 106 – 134
D-74348 Lauffen/Neckar

We hereby declare that the partly completed machine described below

Product designation: Gripper Change Magazine (Rigid Version) / GWM-S /pneumatic
ID number 0302506 ... 0302536

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, August 2023

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

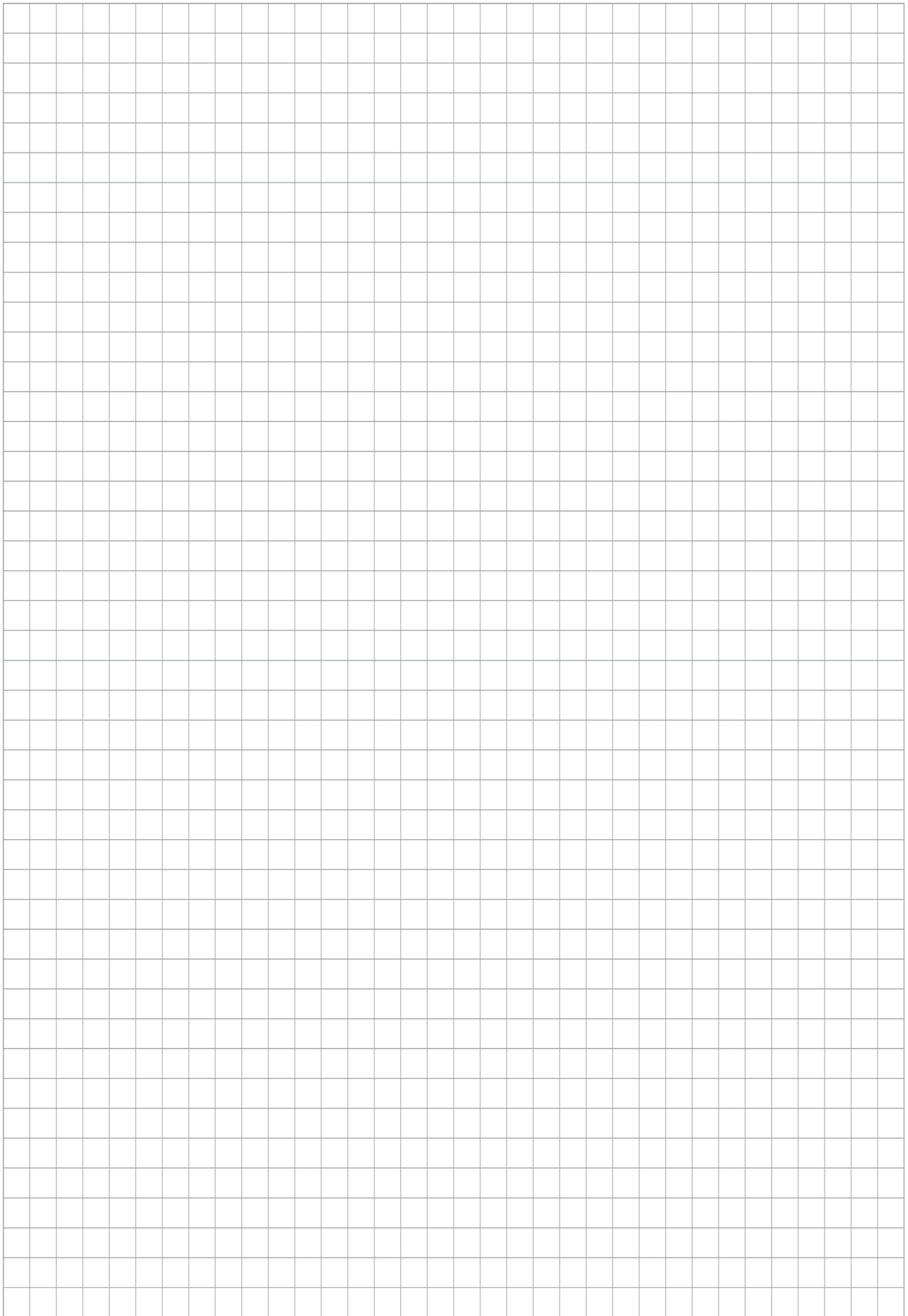
Products from SCHUNK fully comply with the regulations of Regulation (EC) No. 1907/2006 "concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)" and its amendment 2022/477. SCHUNK attaches great importance to completely avoiding chemicals of concern to humans and 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, August 2023

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







SCHUNK SE & Co. KG
Toolholding and workholding | Gripping technology |
Automation technology

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