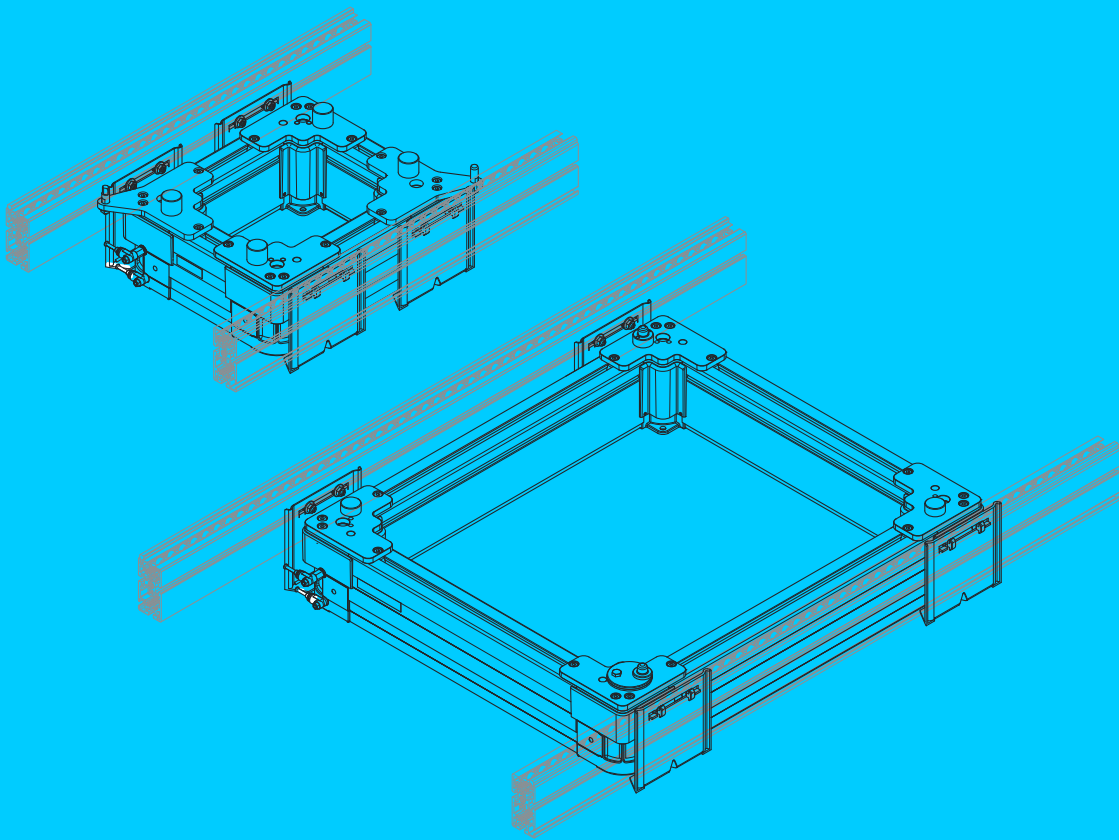


PE 2/X, PE 2/H

Positioning unit



Copyright

© Bosch Rexroth AG Copyright

All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.

Disclaimer

The data specified above only serve to describe the product. As our products are constantly being further developed, no statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

EN

Table of contents

1	About this documentation	5
1.1	Validity of the documentation	5
1.2	Required and supplementary documentation	5
1.3	Presentation of information	5
1.3.1	Warnings and safety instructions	5
1.3.2	Symbols	6
1.3.3	Designations	6
2	Safety	7
2.1	About this chapter	7
2.2	Intended use	7
2.3	Improper use	7
2.4	Personnel qualifications	7
2.5	Safety instructions	8
2.6	Personal protective equipment	9
2.7	Residual risks	9
3	General notes on property and product damage	10
4	Scope of delivery	10
4.1	Condition on delivery	10
5	About this product	11
5.1	Product description	11
6	Transport and storage	12
6.1	Transporting the product	12
6.2	Storing the product	12
7	Installation	13
7.1	Unpacking	13
7.2	Installation requirements	13
7.2.1	Installation position	13
7.3	Tools	13
7.4	Symbols for assembly	13
7.5	Assembling the positioning unit	15
7.5.1	Pre-assembling the mounting bracket	15
7.5.2	PE 2/X, PE 2/H - Assembling the position sensor kit	17
7.5.3	Assembling WT 2 control parts	18
7.5.4	Connecting the pneumatics	19
8	Commissioning	20
8.1	Setting the lifting speeds	20
8.2	Example of protective equipment provided by the customer	21
9	Operation	21
9.1	Information on operation	21
9.1.1	Wear	21
9.1.2	Measures to reduce wear	21

9.1.3	Loading the workpiece pallet	22
9.1.4	Environmental factors	22
10	Maintenance and repair	22
10.1	Cleaning and care	22
10.2	Inspection	22
10.2.1	Lift unit	22
10.3	Maintenance	23
10.3.1	Bearings	23
10.3.2	Positioning pins	23
10.4	Spare parts	23
10.5	Replacement of wear parts	24
10.5.1	PE 2/X - Replacing the positioning pins	24
10.5.2	PE 2/H - Replacing the positioning pins	25
11	Disassembly and replacement	25
11.1	Preparing the product for storage/later use	25
12	Disposal	26
12.1	Disposal of electrical components	26
13	Upgrading and modification	26
14	Troubleshooting	26
15	Technical data	26
15.1	Pneumatics	26
15.2	Ambient conditions	27

1 About this documentation

1.1 Validity of the documentation

This documentation applies to the following products:

- Positioning unit PE 2/X (3842998324)
- Positioning unit PE 2/H (3842999000)

This documentation is intended for fitters, operators, service engineers and system owners. This documentation contains important information relating to the safe and proper assembly, transportation, commissioning, operation, use, maintenance and disassembly of the product, and on how to rectify simple faults yourself.

- ▶ Read this documentation in full prior to working with the product, particularly chapter 2 "Safety instructions" and chapter 3 "General notes on property and product damage".

1.2 Required and supplementary documentation

- ▶ Only commission the product if the documentation marked with the book symbol  is available and you have understood and followed the instructions in it.
- ▶ The declaration of conformity is part of the operating instructions.
The declaration of incorporation is part of the assembly instructions.

Table 1: Required documentation

	Title	Document number	Document type
	Declaration of incorporation	3842574029	
	MTpro	➔ www.boschrexroth.com/mtpro	With spare parts list

All documents can be found in the download center at ➔ www.boschrexroth.com/mediadirectory

1.3 Presentation of information

Standardized safety instructions, symbols, terms and abbreviations are used so that you can use this documentation to work quickly and safely with this product. These are explained in the following sections to help you understand them better.

1.3.1 Warnings and safety instructions

Information on safety can be found in ➔ [Chapter 2 Safety on page 7](#) as well as before a sequence of actions or before instructions whenever there is a risk of injury or damage to property. Be sure to observe all safety precautions.

Warnings are structured as follows:

⚠ CAUTION	Type and source of danger Consequences of non-compliance – Measures to prevent danger ...
------------------	---

- **Warning sign:** Points out the danger
- **Signal word:** Indicates the severity of the danger
- **Type and source of danger:** Indicates the type and source of the danger
- **Consequences:** Describes the consequences of non-compliance
- **Prevention:** States how the danger can be avoided

Risk classes according to ANSI Z535.6-2006

 DANGER	Indicates a hazardous situation that will result in serious injury or death if not avoided.
 WARNING	Indicates a hazardous situation that may result in serious injury or death if not avoided.
 CAUTION	Indicates a hazardous situation that may result in minor to moderate injury if not avoided.
NOTICE	Property damage: The product or the surrounding area could be damaged.

1.3.2 Symbols

The following symbols indicate important information that is not safety-relevant but increases the comprehensibility of the documentation.

Table 2: Meaning of the symbols

Symbol	Meaning
 Information symbol	If this information is not observed, the product cannot be used and/or operated as designed.
► Action step	Single, independent action
1. Step 1 2. Step 2	Numbered steps The numbers indicate that the action steps are sequential.

1.3.3 Designations

This document uses the following designations:

Designations	Meaning
PE 2/X, PE 2/H	Positioning unit from the Rexroth transfer system TS 2plus.
WT 2, WT 2/H	Workpiece pallet from the Rexroth transfer system TS 2plus
BG	Size

2 Safety

2.1 About this chapter

The product has been manufactured in accordance with the generally accepted rules of current technology. Nevertheless, there is a risk of personal injury and property damage if you do not read this chapter and follow the safety instructions in this documentation.

- ▶ Read this documentation before you start working with the product.
- ▶ Keep the documentation accessible to all users at all times.
- ▶ Always include the documentation when giving the product to a third party.

2.2 Intended use

The product is an incomplete machine.

The product is intended for the following applications:

- For installation in a Rexroth transfer system TS 2plus
- For positioning of Rexroth workpiece pallets WT 2, WT 2/H
- Maximum load/section load: See [Chapter 15 Technical data on page 26](#)
- Ambient conditions see [Chapter 15.2 Ambient conditions on page 27](#)

This product is intended for commercial use only.

The intended use also includes having read and understood these instructions, especially .

2.3 Improper use

Any use other than that described in the section "Intended use" is considered improper and is not permitted.

Bosch Rexroth AG does not accept any liability for any damage resulting from improper use. The user alone bears any risks associated with improper use.

The following foreseeable misuses also constitute improper use:

- Transporting goods other than those specified.
- Using the product without protective case or other contact protection provided by the customer.
- Using the product in accumulation operation.
- Transporting people on the product or on transported material.
- Persons climbing onto the product – Do not climb on the product.
- Use in the private sector.

2.4 Personnel qualifications

The activities described in this document require basic knowledge in the following fields:

- Mechanics
- Electrics
- Pneumatics

These activities must only be performed by a specialist or personnel under the direction of a specialist.

Specialists...

- ... have received specialist training and have the necessary expertise.
- ... comply with applicable regulations.
- ... have knowledge and experience regarding applicable regulations.
- ... can properly assess the work to be carried out.
- ... identify dangers and take suitable safety measures.
- ... have expertise in handling lifting equipment and suspension gear.



Training: ➔ [Bosch Rexroth Academy](#)

2.5 Safety instructions

General

- Please observe:
 - The applicable accident prevention and environmental protection regulations.
 - The safety rules and regulations of the country in which the product is being used.
 - All the notices on the product.
- Only use Rexroth products that are in proper working order.
- Observe the technical data and ambient conditions.
- Rexroth products must only be installed in systems and machinery that comply with national regulations, safety requirements and standards.
- Do not modify the structure of the product.
- Please note ➔ [Chapter 15 Technical data on page 26](#).
- Safe handling of Rexroth products is compromised while under the influence of drugs and medication.
- Products must only be used in safety-relevant applications that are expressly specified and approved in the product documentation, such as in explosion protection areas or in safety-related parts of a controller (functional safety).

During transport

- Observe the transport instructions on the packaging.

During installation

- Inspect the product for transport damage.
- Secure the product against tipping over at all times.
- Before installation, depressurize and de-energize the respective system components.
- Secure against being switched back on.
- Route the cables and lines protected to prevent mechanical damage and ensure that no one can trip over them.
- Check all seals and locks for completeness and undamaged condition.

During commissioning

- To prevent condensation, allow the product to acclimatize for a few hours before commissioning.
- Have the product approved by a specialist electrician on the basis of national standards and requirements.
- Only commission a product that has been completely installed.
- Make sure that all the electrical and pneumatic connections are either in use or covered.

During operation

- Make sure that only authorized and qualified personnel:
 - Start or operate the system, or interfere with its operation.
 - Operating component or part adjusters.
- Following an EMERGENCY STOP or in the event of a fault or other irregularity, turn the product off and secure it against being switched back on.

During maintenance and servicing, disassembly and replacement

- Perform the prescribed maintenance work at the intervals prescribed in .
- Make sure that no line connectors, connections or components are disconnected while the system is supplied with pressure and voltage. Secure the system against being switched back on.
- Use only original accessories and spare parts from Rexroth in order to prevent hazards to people due to unsuitable spare parts → [Chapter 10.4 Spare parts on page 23](#).

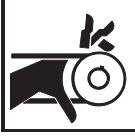
2.6 Personal protective equipment

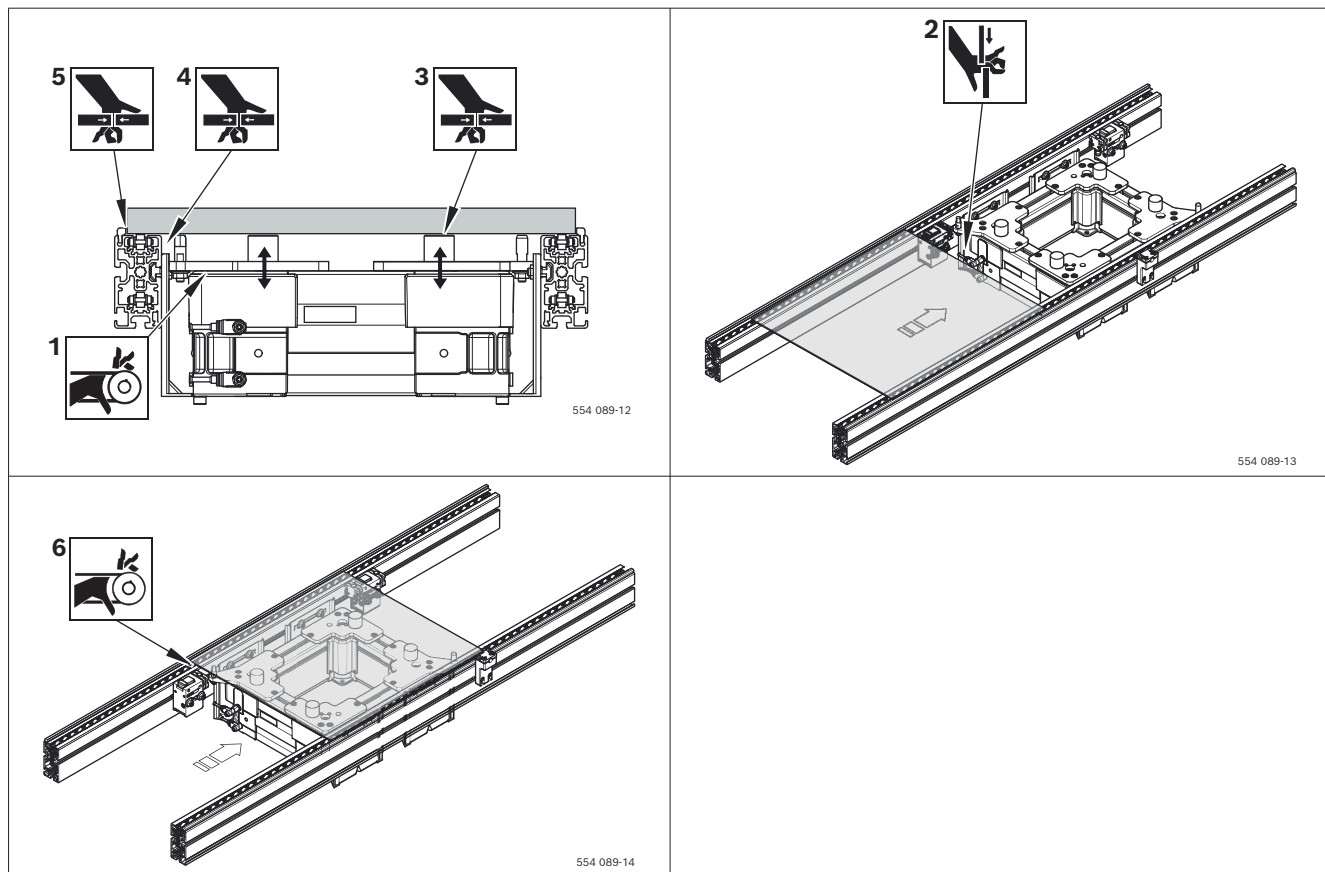
- Wear suitable protective equipment such as safety shoes, close-fitting clothing, hair nets, etc.

2.7 Residual risks



At workstations, crush and shear points on roller conveyors, suspension chain conveyors or multiple belt conveyors between rollers, drive shafts, cross struts or fixed parts and moving bulk goods must be secured.

	Location	Situation	Hazard		Action
1	Lift frame; housing: Between fixed and moving product parts.	Trapping of body parts		Crushing	Do not reach into the system while it is running. Wear protective clothing.
2	Lift frame: Between component and workpiece pallet	Body parts can be caught when retracting the workpiece pallet		Shearing	Do not reach into the system while it is running. Wear protective clothing. Crushing and shearing may be deemed avoided if the static force for stopping the load is less than 150 N.
3	Lift frame: Between component and workpiece pallet	Body parts can be caught during lifting		Crushing	
4	Conveyor medium: In between conveyor medium and workpiece pallet	Body parts can be caught during lowering		Crushing	
5	Conveyor medium: Between running conveyor medium and stationary workpiece pallet.	Body parts can be caught during lowering		Crushing	
6	Conveyor medium: Between running conveyor medium and stationary workpiece pallet	Pieces of clothing or long hair can be pulled in		Crushing	



3 General notes on property and product damage

The warranty only applies to the delivered configuration.

- The warranty is void in the event of incorrect assembly, commissioning and operation, as well as improper use and/or improper handling.

4 Scope of delivery

The scope of delivery includes the following:

- 1x positioning unit PE 2/X or PE 2/H
- Fastening material
- Pneumatic components such as fittings, throttle check valves, etc.
- 1x assembly instructions "PE 2/X, PE 2/H positioning unit"

4.1 Condition on delivery

Positioning unit PE 2/X or PE 2/H ready-to-install.

5 About this product

5.1 Product description

- A Positioning pins
- B Lift frame
- C Supporting bolt
- D Mounting bracket

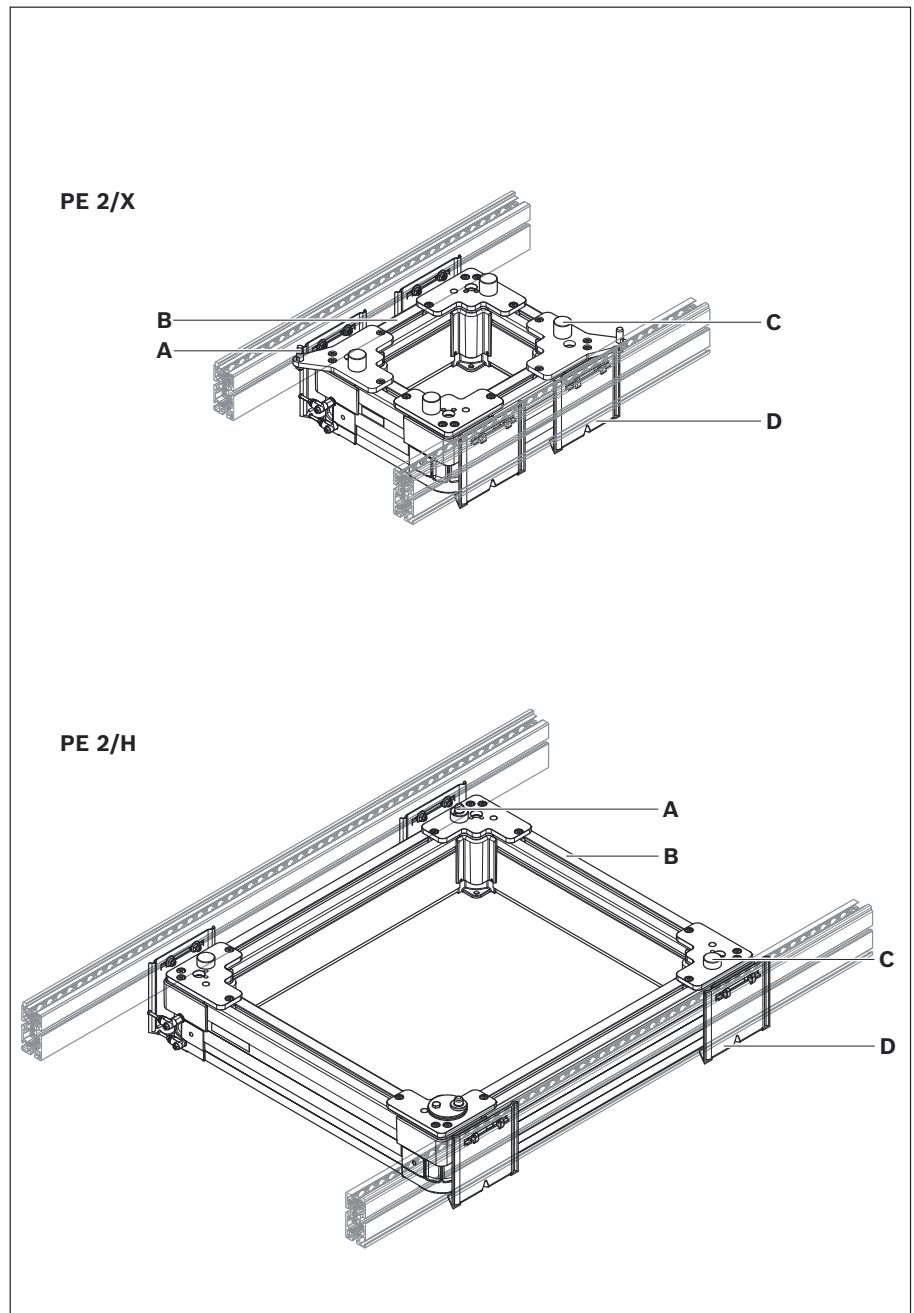
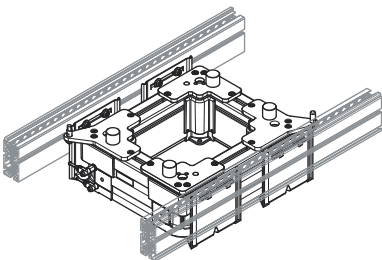
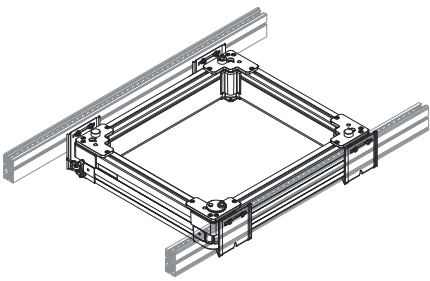


Fig. 1: Positioning unit PE 2/X_PE 2/H

554 089-02

Positioning unit	Applicable belt sections and section profiles	Applicable workpiece pallets
PE 2/X 3 842 998 324 	BS 2... ST 2...	WT 2 WT 2/F
Load up to 100 kg *		
PE 2/H 3 842 999 000 	BS 2... ST 2...	WT 2/H WT 2F/H
Load up to 250 kg *		

*) Observe the conveyor section's maximum section load (see [Chapter 15 Technical data on page 26](#))

6 Transport and storage

- Observe the transport instructions on the packaging.
- Transport weight: see delivery documents.
- Please note [Chapter 15 Technical data on page 26](#).

6.1 Transporting the product

⚠ WARNING

Suspended loads may fall!

Falling objects can result in severe injury.

- Use only slings with sufficiently high bearing loads (for weight, see delivery documents).
- Make sure the lifting straps are correctly fastened before lifting the product!
- Secure the product to prevent toppling over!
- Make sure that no one but the operator is in the danger area!

6.2 Storing the product

- Only set the product down on a flat surface.
- Protect the product from mechanical stress and environmental influences such as dirt and humidity.

- Always observe ambient conditions when storing and transporting the product, see chapter [Chapter 15 Technical data on page 26](#).
- Support the product so that suspended motors/accumulators/cylinders are not placed under strain.

7 Installation

7.1 Unpacking



Use a lift aid to lift. For attachment points, see [Chapter 7.5.1 Pre-assembling the mounting bracket on page 15](#)

7.2 Installation requirements

► [Chapter 15 Technical data on page 26](#).

7.2.1 Installation position



Install the product level and plumb, at right angles, and axially parallel.

7.3 Tools

- Commercially available standard tools (metric) are required.

7.4 Symbols for assembly

Table 3: Symbols used

	• Connection with T-bolt and flange nut. • Make sure the T-bolt is in the correct position when inserting it into the slot and tightening it. The notch at the head of the screw indicates the orientation of the T-bolt. • 1 = T-bolt insertion position in the slot • 2 = T-bolt clamping position in the slot • Tightening torque: ... Nm
SW13 M_D = ... Nm	• Hex wrench • SW = wrench size ... mm • M_D = required tightening torque ... Nm
SW5 M_D = ... Nm	• Hex socket wrench • SW = wrench size ... mm • M_D = required tightening torque ... Nm
PZ2 PH3	• Cross-head screwdriver • PZ ... = Pozidriv, size ... • PH ... = Phillips, size ...
GLEITMO 585 K Anti-Seize	Lubricate with specific grease: • GLEITMO 585 K: GLEITMO 585 K, www.fuchs-lubritech.com • Anti-Seize: Food Grade Anti-Seize/Loctite 8014, www.henkel.com
Loctite 243 Loctite 601	Screw protection: • Loctite 243: medium strength (detachable), www.loctite.de • Loctite 601: high strength (non-detachable), www.loctite.de

  	Oil/oil with specific mineral oil: • GHD: Structovis GHD, www.klueber.com • V 68: Mineral oil with viscosity 68 acc. to DIN
	• The marked parts are not required for the described assembly.
	• Suitable for ESD applications
	• Warning of dangerous electrical voltage
	• Disconnect the mains plug before opening and secure it against reinsertion/reconnection.
	• Assembly steps
	• Designation of components
	• Detailed view from a different direction, for example, the back or the bottom side of the product.

7.5 Assembling the positioning unit

7.5.1 Pre-assembling the mounting bracket

1. Mark the installation position of the four mounting brackets.
2. Hook the mounting bracket into the section profile.
3. Insert the T-bolts into the section profiles and tighten the flange nuts by hand.

l_T = Length of the work-piece pallet in direction of transport

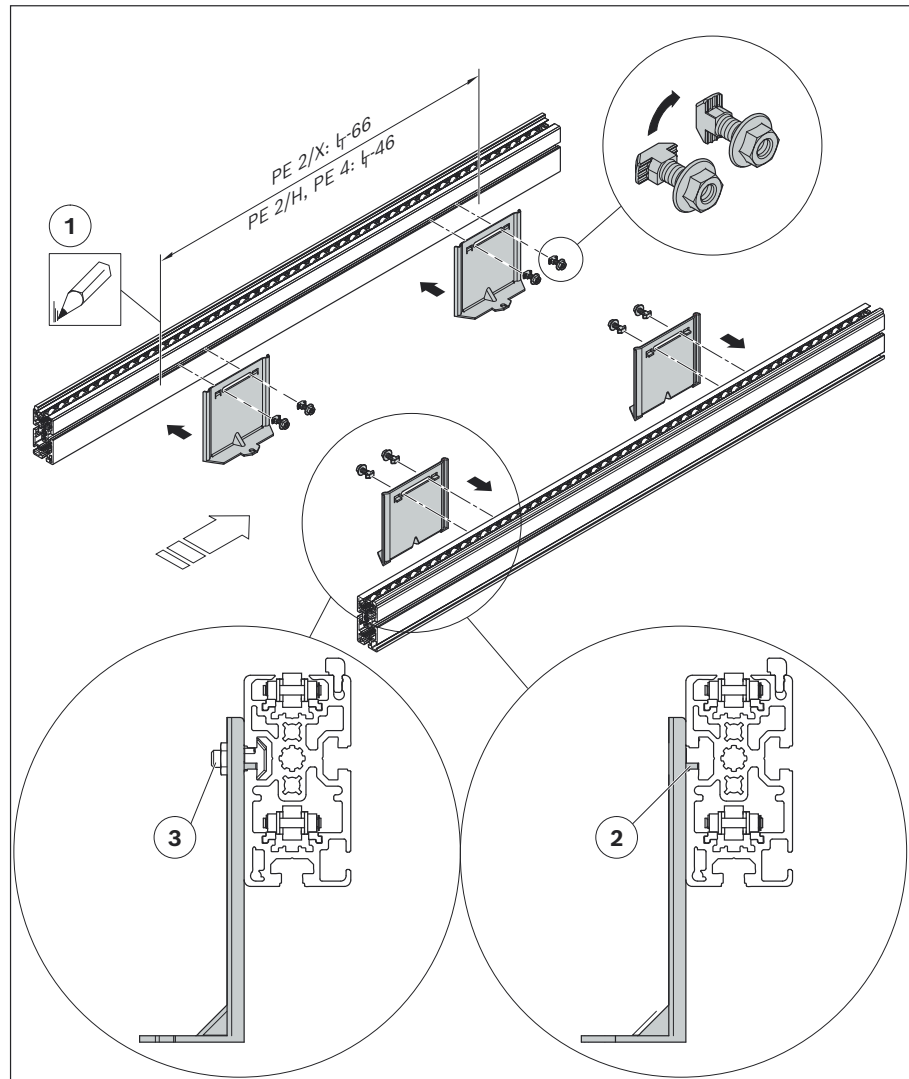


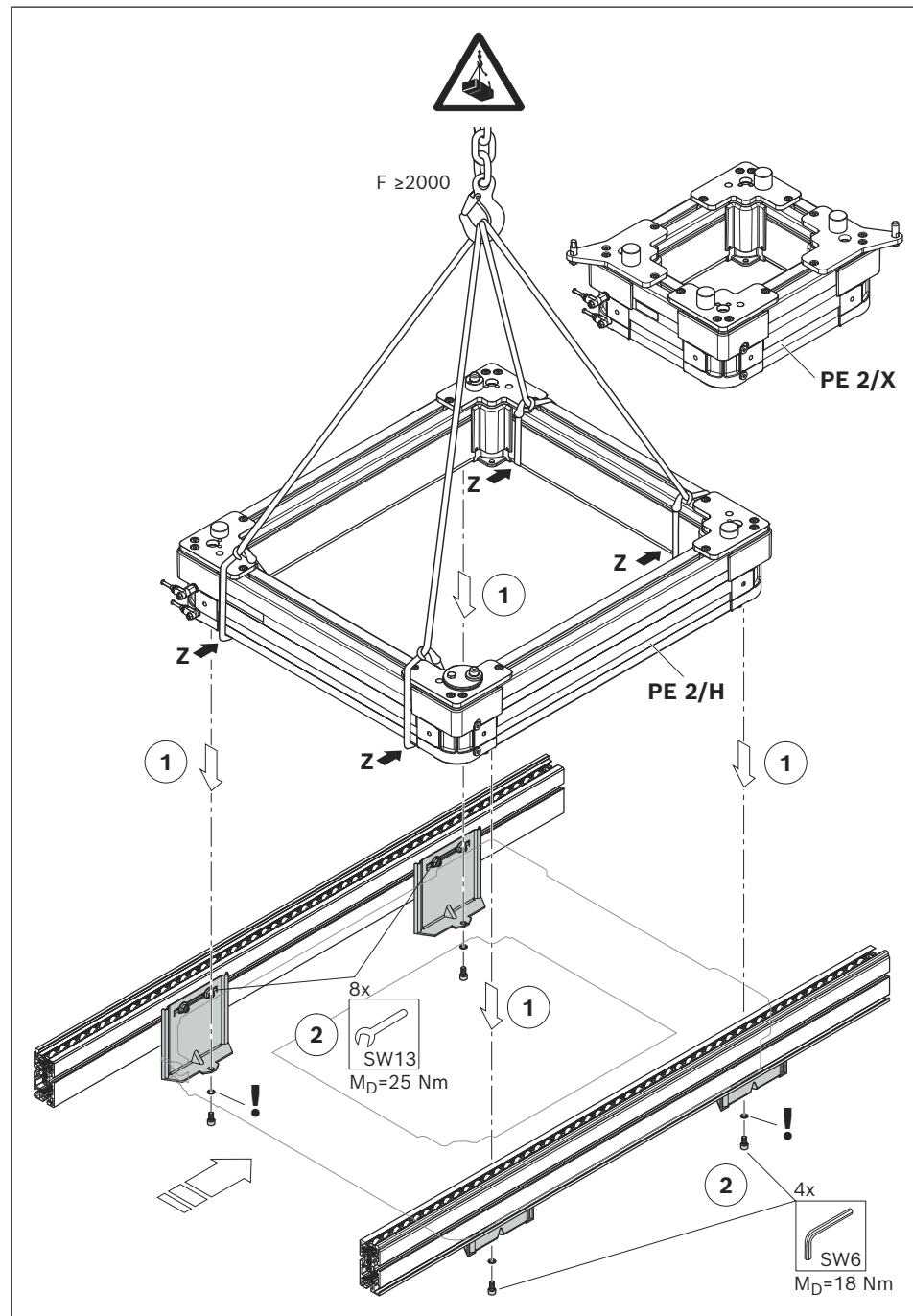
Fig. 2: Pre-assembling the mounting bracket



Please note

Use stop points (Z).

1. Insert the positioning unit into the section profile.
2. After adjustment, tighten all screws.



554 089-07

Fig. 3: Assembling the positioning unit (here example PE 2/H and PE 2/X)

Accessories

- 

The profile heights are marked in mm at the switching elements at the metal bracket (A).

- B:** Detects lower end position
- C:** Detects upper end position

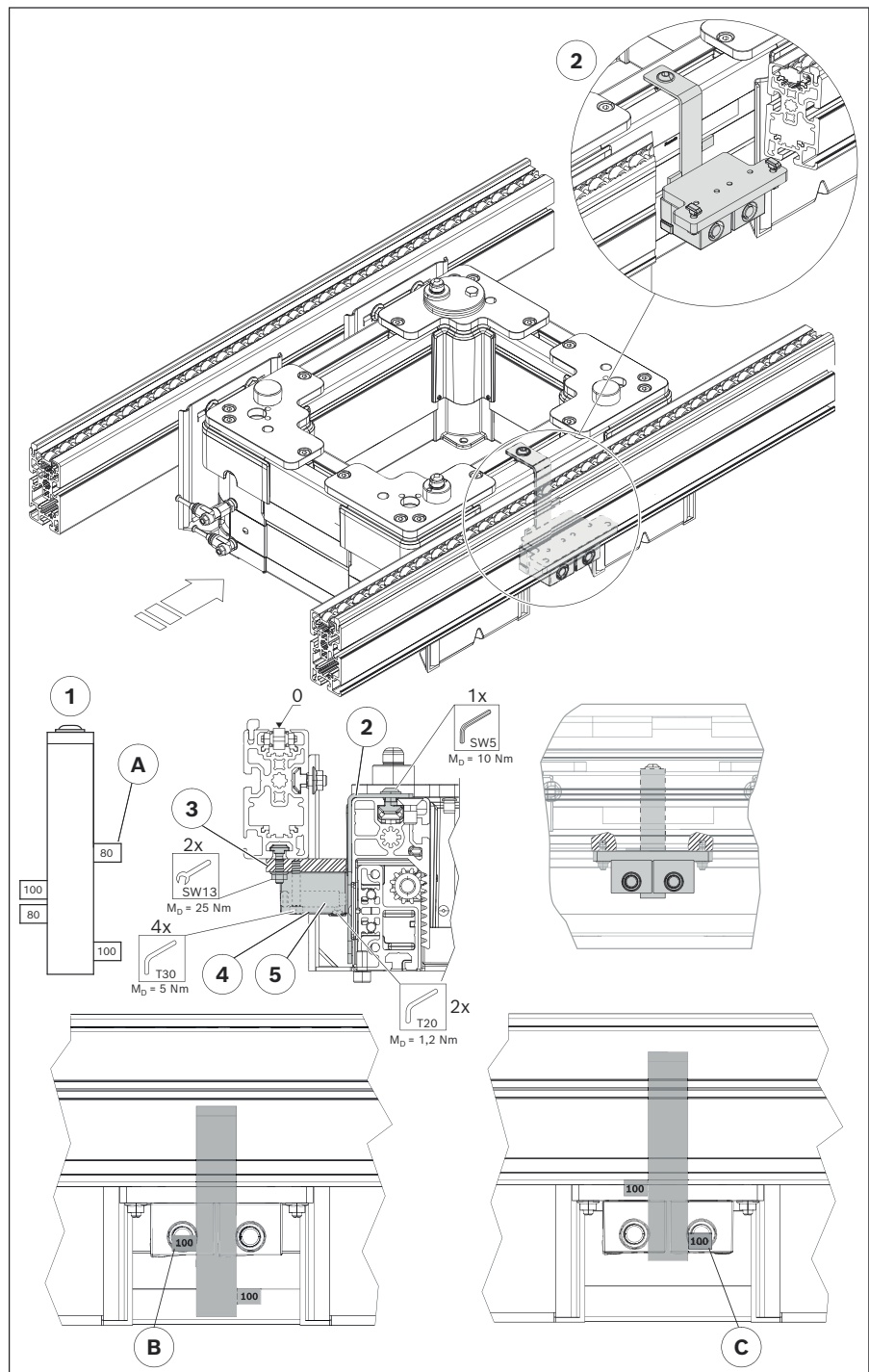


Fig. 4: Assembling the position sensor kit (example PE 2/H)

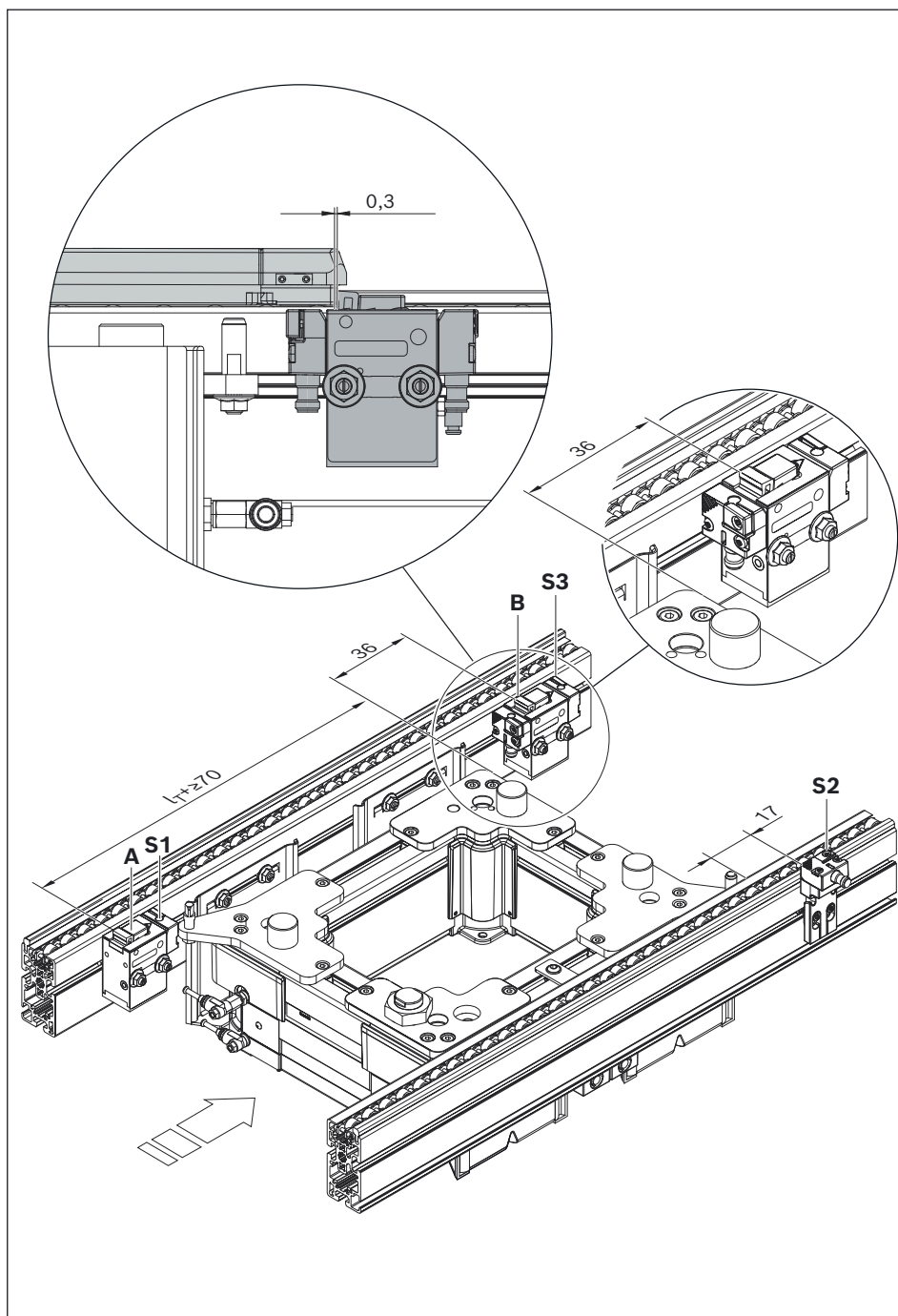
7.5.3 Assembling WT 2 control parts

Accessories

- Stop gate VE 2,
see catalog TS 2plus
3842531138
- Proximity switch M12-
M12 SN=8MM L=45
(3842557633)
 - Install the stop gates
(2 x VE 2) and the
proximity switches (S
1, S 2, S 3) on the
section profile.

Testing functionality

1. Starting position: Pre-
separator (A) open,
main separator (B)
closed; position unit
in lower end position.
2. S 1 actuated by
passing WT: VE (A)
closes.
3. S 2 actuated by WT:
Positioning unit moves
to upper end position,
WT is lifted.
4. Switch upper end
position actuated:
Start operation.
5. Complete operation,
external signal: Posi-
tioning unit moves to
lower end position,
WT is lowered.
6. Switch lower end
position actuated:
Main stop gate (B)
opens.
7. S 3 actuated by WT:
Main stop gate (B)
closes, pre-stop gate
(A) opens (starting
position).



554 089-10

Fig. 5: Assembly of stop gate and proximity switch (example PE 2/X)

7.5.4 Connecting the pneumatics

⚠ WARNING

Pneumatic pressure!

Risk of sudden movements.

- Switch off the compressed air supply before assembling, repairing, disassembling or connecting the product to the pneumatic system.
- Secure the system against being unintentionally switched on again.

A



Please note

Use connections X and Y. This charges the system more quickly and evenly.

Requirements:

- Oiled or non-oiled, filtered, dry compressed air.
- Operating pressure: 4 to 6 bar.
- The pneumatic hoses on all 4 ports should be the same length!
 - ▶ Connect the positioning unit to the directional valve.

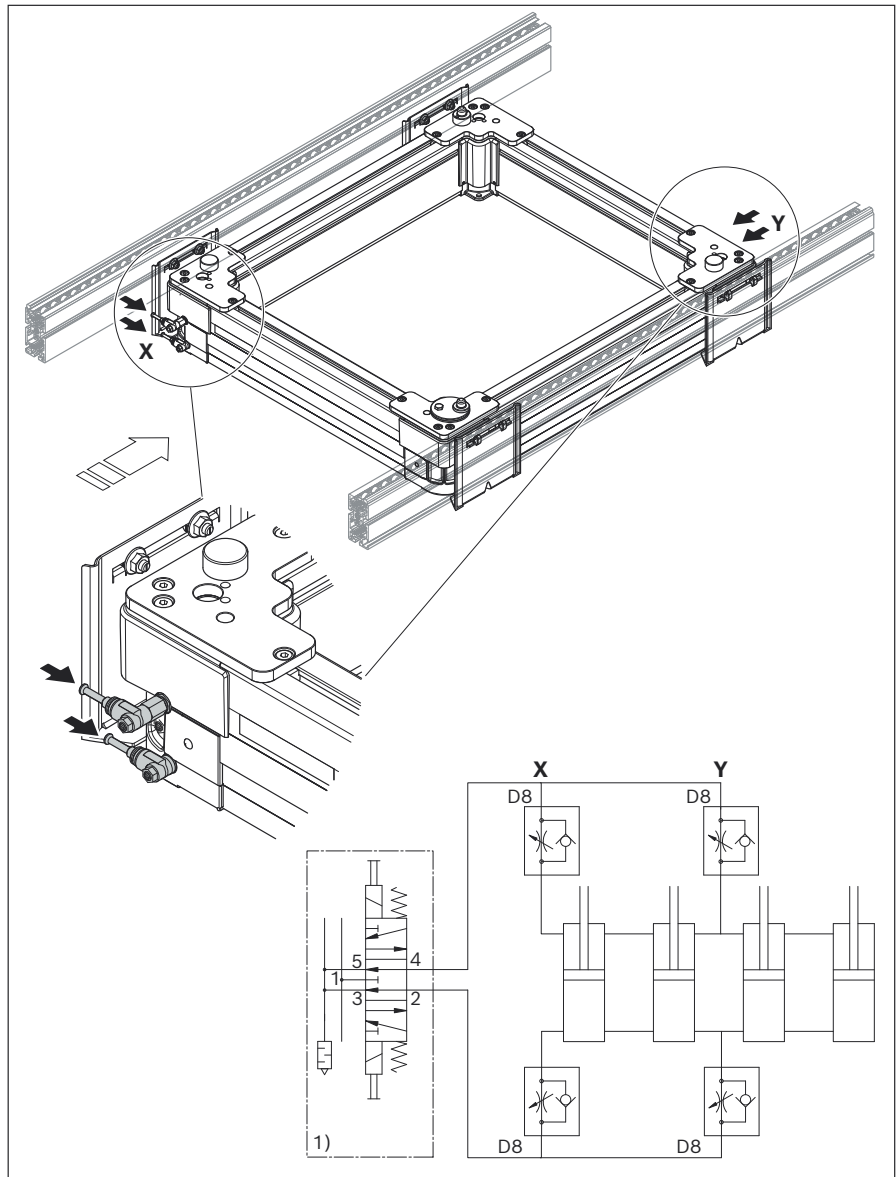


Fig. 6: Pneumatic connection (here example PE 2/H) and pneumatic diagram

1) Not included in the scope of delivery

8 Commissioning

8.1 Setting the lifting speeds



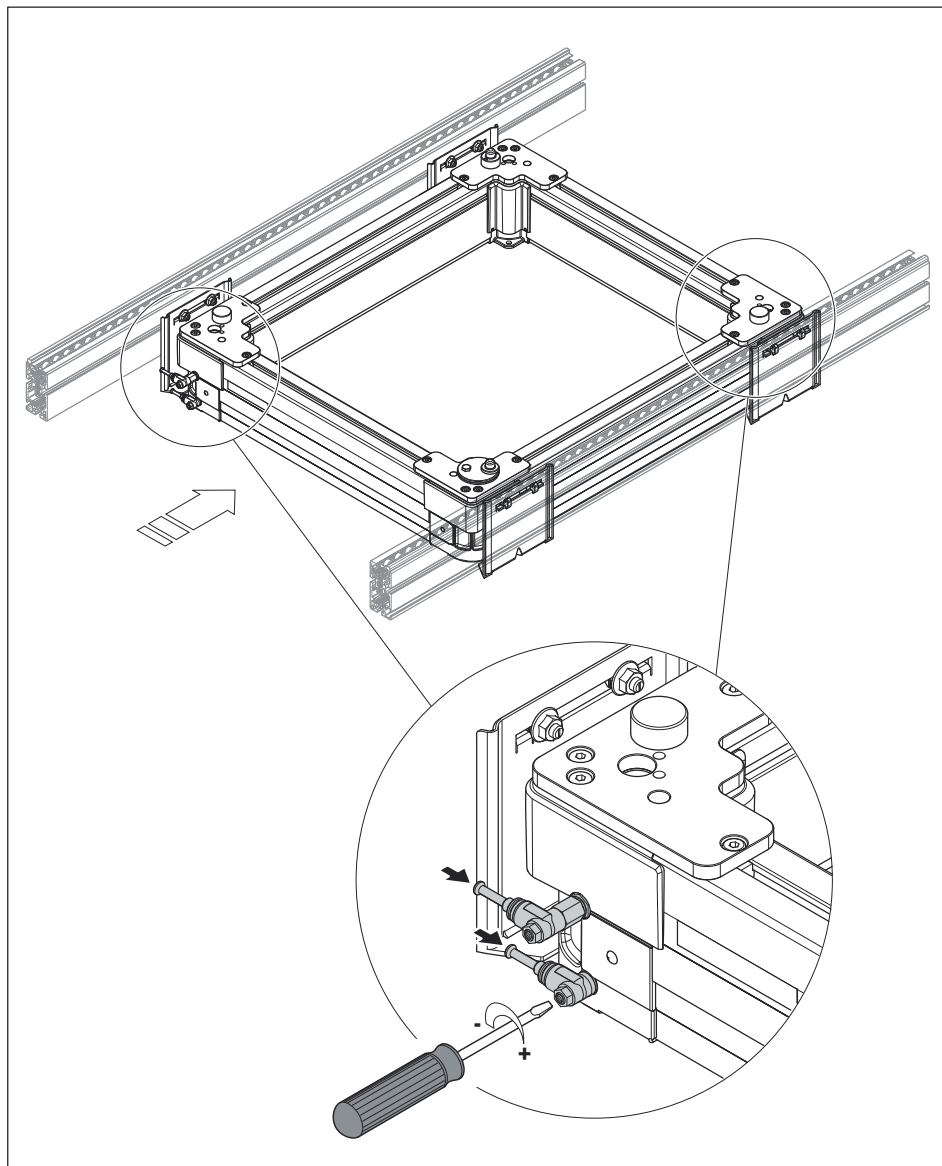
Please note

On delivery, the speed of the lifting movement is preset.

1. Operating pressure setting: 4 – 6 bar.
2. Apply the related workpiece pallet (operating load).
3. Move the cylinder.
4. Adjust the lifting speed at the throttle check valves.

Rotate in the "+" direction: The lift becomes slower.

Rotate in the "-" direction: The lift becomes faster.

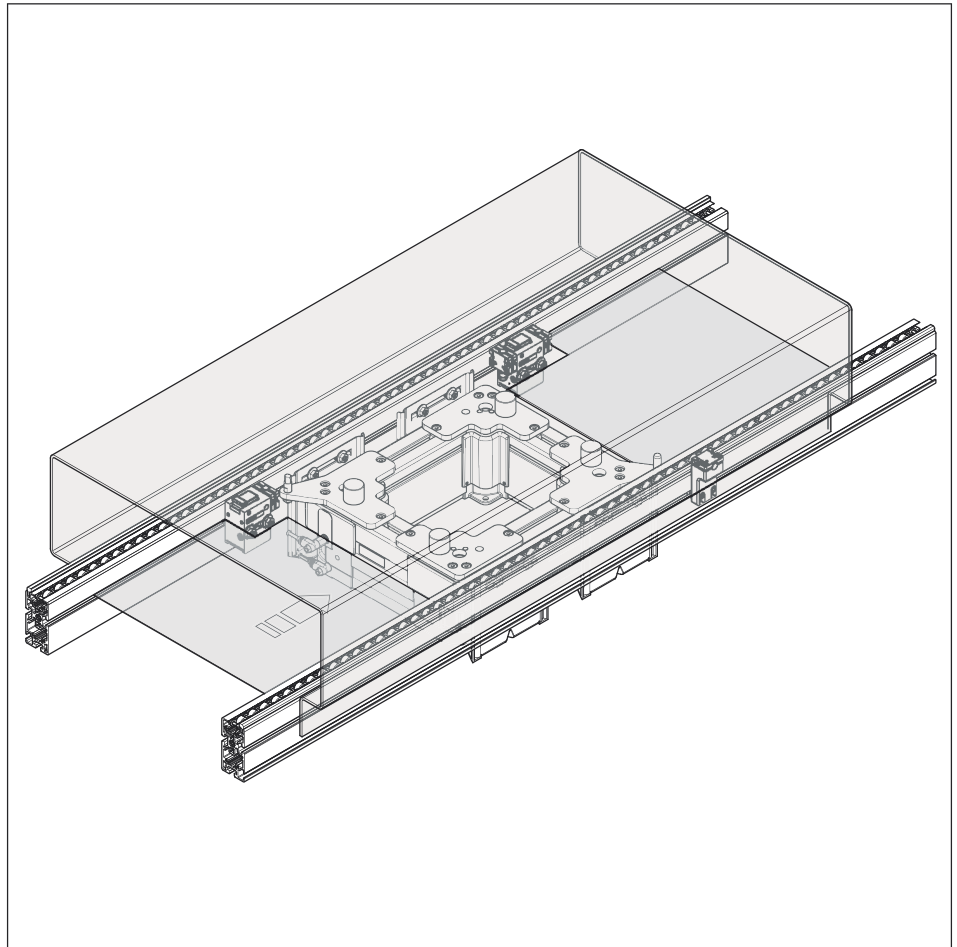


554 089-15

Fig. 7: Setting the lifting speed (example PE 2/H)

8.2 Example of protective equipment provided by the customer

Operation only with protective cover.



554 089-16

Fig. 8: Example of protective cover provided by the customer

9 Operation

9.1 Information on operation

9.1.1 Wear

- Individual components are subject to unavoidable wear by their very nature. However, wear is also dependent on the operating, maintenance and ambient conditions at the place of use.
- Overloading the conveyor sections can cause the conveyor medium to malfunction and lead to the premature breakdown of motors and gears.
- If pneumatically activated components are overloaded, their function cannot be guaranteed.

9.1.2 Measures to reduce wear

The following obvious measures will reduce wear:

- Switch off the conveyor section in case of line downtime.
- Do not select a higher speed for the conveyor section than that required for the corresponding function.
- Abrasive media increase wear to a considerable extent. Clean the system regularly.

9.1.3 Loading the workpiece pallet

The modular units are designed and tested under the assumption that the workpiece pallets will not all have the same weight during one cycle on one conveyor section. Workpiece pallets are both loaded and unloaded. Significantly different weights may require special measures to avoid malfunctions.

This applies to:

- Permitted congestion length before stop gates
- Damper functionality
- Dampened stop gates

9.1.4 Environmental factors

Avoid contact with highly acidic or alkaline substances.

Resistance to common media in the assembly area is provided. These include:

- Water
- Mineral oil
- Lubricating greases
- Detergent

If in doubt about the resistance to certain chemicals, we recommend contacting your Rexroth specialist. These include:

- Test oil
- Doped oils
- Aggressive cleaning agents
- Solvents
- Brake fluid

Liquids that thicken on evaporation and are highly viscous or sticky can lead to malfunctions. In such instances, special care must be taken when planning the system and the maintenance and cleaning intervals must be shortened.

10 Maintenance and repair

10.1 Cleaning and care

NOTICE

Lubrication failure at bearings

Grease-dissolving substances lead to failure of the bearing lubrication.

- Keep grease-dissolving cleaners away from bearings.
- Clean only with a slightly damp cloth.

- Prevent cleaning agents from getting into the system.
- Never use solvents or corrosive cleaning agents. Only clean the product with a damp, lint-free cloth. Only use water and, if necessary, a mild cleaning agent.
- Do not use a pressure washer for cleaning.

10.2 Inspection

10.2.1 Lift unit

Check the pneumatic connections regularly for leaks.

10.3 Maintenance

10.3.1 Bearings

The bearings have lifelong lubrication and are maintenance-free under normal conditions of use.

10.3.2 Positioning pins

NOTICE

Wear of positioning pins

Malfunctions and possible damage to the positioning unit

- Replace the positioning pins every 2 mio. cycles.

10.4 Spare parts

Spare parts can be found in the spare parts catalog in the MTpro software → www.boschrexroth.com/mtpro.

10.5 Replacement of wear parts

10.5.1 PE 2/X - Replacing the positioning pins

Accessories

- Positioning pin (A)
Positioning pin, round
PE 2/X (3842536995)
- Positioning pin (B)
Positioning pin, flat
PE 2/X (3842536996)

Tools

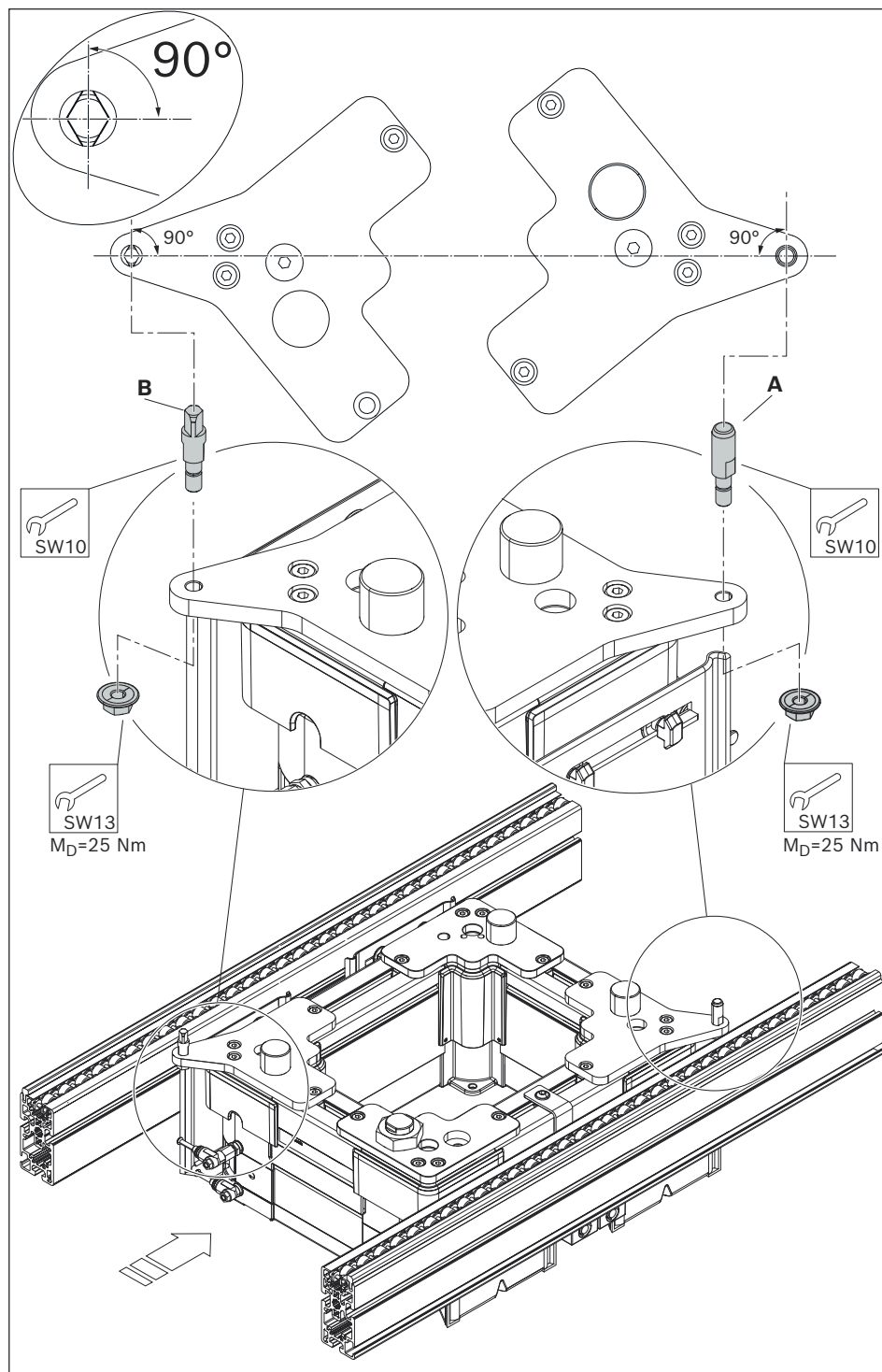
- Hex wrenches SW13,
SW10



Please note

Observe the correct position of the chamfer at the positioning unit (B)!

1. Remove the positioning pins.
2. Install the new positioning pins.



554 089-17

Fig. 9: Replacing the positioning pins (PE 2/X)

10.5.2 PE 2/H - Replacing the positioning pins

Required accessories

- Positioning pin (C)
Positioning pin
PE2 / PE4 / PE5
(3842529929)
- Positioning pin (D)
Positioning pin 38X32
(3842529926)

Optional accessories

- Fitting screw (A)
3842529930
- Spacer washer (B)
3842529928



Please note

Do not damage the fittings of the spacer washer and fitting screw.

The base plate (F) is pre-adjusted and should **not** be loosened!

1. Remove the spacer washer (B).
2. Replace the positioning pin (C).
3. Install the spacer washer (B).
4. Replace the positioning pin (C).

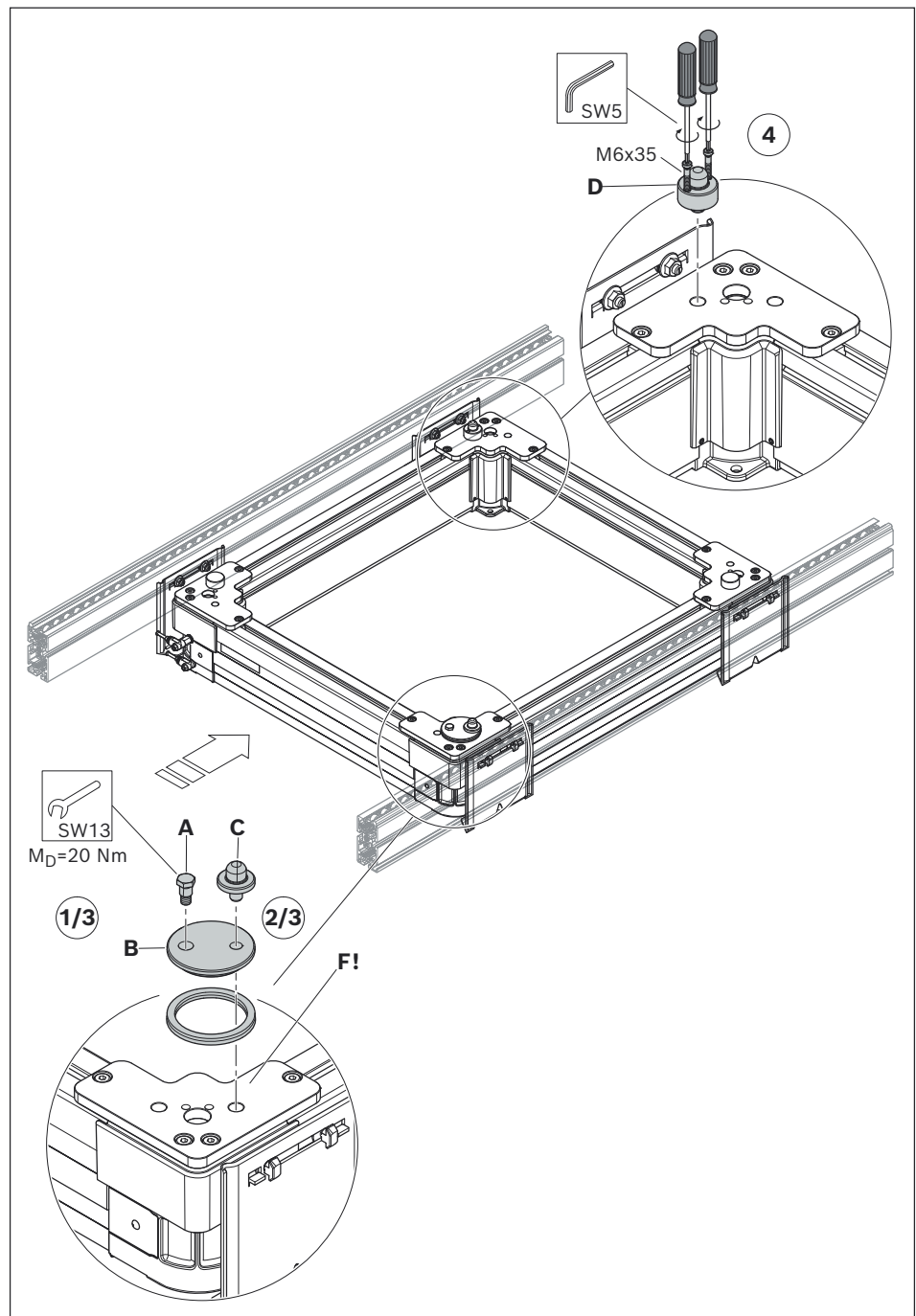


Fig. 10: Replacing the positioning pins (PE 2/H)

554 089-18

11 Disassembly and replacement

11.1 Preparing the product for storage/later use

- ▶ Only set the product down on a flat surface.
- ▶ Protect the product from mechanical stress, dirt and humidity.
- ▶ Observe the ambient conditions (see [Chapter 15.2 Ambient conditions on page 27](#)).
- ▶ Do not subject the assembled motor to mechanical stress.

12 Disposal



Dispose of the product in accordance with the regulations in your country.

12.1 Disposal of electrical components



- ▶ Do not dispose of electrical equipment and accumulators/batteries with household waste.
- ▶ You are legally obligated to dispose of electrical equipment and accumulators/batteries properly. You can do this free of charge at a local collection point or via Bosch Rexroth.

13 Upgrading and modification

- ▶ Do not alter the design or structure of the product.
- ▶ The Bosch Rexroth warranty only applies to the configuration as delivered, and to approved upgrades. The manufacturer will not accept any warranty claims for systems with unapproved modifications or upgrades.

14 Troubleshooting

If you cannot correct a fault, please contact one of the addresses provided at

➔ www.boschrexroth.com .

15 Technical data



More technical data:

➔ [Rexroth Store](#) | [Downloads](#) | [TS 2plus catalog](#) (<https://www.boschrexroth.com>)

- For dimensions, see sales catalog TS 2plus, 3842531138
- Maximum section load: Up to 2.0 kg/cm support surface length
- Lift above conveyor medium:
PE 2/X, PE 2/H: 3 mm
- Positioning accuracy: ± 0.1 mm
- Permissible vertical process force with center load: 3500 N incl. WT
- Maximum load:
PE 2/X: 100 kg
PE 2/H: 250 kg
- Noise emissions: < 70 dB (A)

15.1 Pneumatics

- Oiled or non-oiled, filtered, dry compressed air
- Operating pressure: 4 to 6 bar
- Solids
 - Particle size $\leq 5 \mu\text{m}$ (class 6 as per ISO 8573-1:2010)
 - Particle quantity $\leq 5 \text{ mg/m}^3$ (class 6 as per ISO 8573-1:2010)
- Humidity – water content
 - Pressure dew point¹⁾ $\leq +3 \text{ }^\circ\text{C}$ (class 4 as per ISO 8573-1:2010)

- Oil content
 - Oil quantity $\leq 1 \text{ mg/m}^3$ (class 3 as per ISO 8573-1:2010)

¹⁾ The pressure dew point should be at least 15 °C below the ambient temperature.

15.2 Ambient conditions

Data	Value	Unit
Operating temperature ¹⁾	+5 ... +40	°C
Storage temperature	-25 ... +70	°C
Relative humidity	5 ... 85	% (non-condensing)
Air pressure ²⁾	> 84	kPa
Max. load capacity of floor	1,000	kg/m ²

1) –5 °C ... +60 °C at 20% reduced load

2) Corresponds to an installation altitude < 1400 m above sea level (NN) At installation altitudes > 1400 m, the load values of the electric drives are reduced by 15%.

- The products have been designed for stationary use in a location that is protected from the elements.
- The area should be kept free of mold, fungus, rodents and other vermin.
- Do not install or operate:
 - Near industrial systems with chemical emissions
 - Near sources of sand or dust
 - In areas that are regularly subjected to high-energy forces caused, for example, by presses or heavy machinery.
- Resistance to common media is ensured. In case of doubt, please contact your Rexroth representative.
- Avoid contact with highly acidic or alkaline substances.

Bosch Rexroth AG
Asperger Straße 24
74321 Bietigheim
info@boschrexroth.de
www.boschrexroth.com



3842574003