



INSTALLATION AND OPERATING INSTRUCTIONS

Adjustment jaws
EB5000

DDOC00206

THE KNOW-HOW FACTORY

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1 Introduction

1.1 Supporting documents

NOTICE



Read through the instructions before installing or working with the product.

The instructions contain important notes for your personal safety. They must be read and understood by all persons who work with or handle the product during any phase of the product lifetime.



The documents listed below are available for download on our website www.zimmer-group.com.

- Instructions
 - Catalogs, drawings, CAD data, performance data
 - Information on accessories
 - Technical data sheets
 - General Terms and Conditions, including warranty information.
- ⇒ Only those documents currently available on the website are valid.

In these instructions, "product" refers to the product designation on the title page!

1.2 Notices and graphics in the instructions

DANGER



This notice warns of an imminent danger to the life and health of people. Ignoring these notices can lead to serious injury or even death.

- ▶ You absolutely must comply with the described measures for avoiding these dangers!
- ⇒ The warning symbols are assigned according to the type of danger.

WARNING



This notice warns of a situation that is potentially hazardous to personal health. Ignoring these notices can cause serious injury or damage to health.

- ▶ You absolutely must comply with the described measures for avoiding these dangers!
- ⇒ The warning symbols are assigned according to the type of danger.

CAUTION



This notice warns of a situation that is potentially hazardous to persons. Ignoring these notices can cause minor, reversible injuries.

- ▶ You absolutely must comply with the described measures for avoiding these dangers!
- ⇒ The warning symbols are assigned according to the type of danger.

NOTICE



This notice warns of possible material and environmental damage. Ignoring these notices can result in damage to the product or the environment.

- ▶ You absolutely must comply with the described measures for avoiding these dangers!
- ⇒ The warning symbols are assigned according to the type of danger.

INFORMATION



This category contains useful tips for handling the product efficiently. Failure to observe these tips will not result in damage to the product. This information does not include any information relevant to health or workplace safety.

2 Safety notices

CAUTION



Risk of injury and material damage in case of non-compliance

The product is state-of-the-art.

The following are examples of situations in which the product may cause a hazard:

- The product is not properly installed, used or maintained.
- The product is not used for its designated purpose.
- The locally applicable regulations, laws, directives or guidelines are not observed.
- ▶ The product may only be used in accordance with these instructions and the product's technical data. Any changes or additions to the intended use of the product, as well as modifications to the product, such as those in the following examples, require the written permission of the manufacturer:
 - Use of the product under extreme conditions, such as aggressive fluids or abrasive dusts
 - Additional drilled holes or threads
- ⇒ Zimmer Group GmbH shall accept no liability for any damage caused by improper use. The operator bears sole responsibility.
- ▶ Make sure that the power supply is disconnected before you mount, adjust, modify, maintain or repair the product.
- ▶ Whenever work is carried out on the product, make sure that the product cannot be actuated by mistake.
- ▶ Perform maintenance tasks, renovation work or attachment work outside of the machine's danger zone when possible.
- ▶ Do not reach into the operational range of the product.
- ▶ Note that, due to the spring tension, you should exercise increased caution when uninstalling products with integrated springs.
- ▶ Always adhere to the required maintenance intervals.
- ▶ When using the product under extreme conditions, adjust the maintenance interval according to the degree of contamination.
- ▶ Check the completeness and tightening torques of all mounting screws.

3 Proper use

NOTICE



Material damage and malfunction in case of non-compliance

The product is only to be used in its original state with its original accessories, with no unauthorized changes and within the stipulated parameter limits and operating conditions.

Any other or secondary use is deemed improper.

- ▶ Operate the product only in compliance with the associated instructions.
- ▶ Operate the product only when it is in a technical condition that corresponds to the guaranteed parameters and operating conditions.
- ⇒ Zimmer Group GmbH shall accept no liability for any damage caused by improper use. The operator bears sole responsibility.

- The product is to be used as intended in enclosed rooms for temporary gripping, handling and holding.
- Direct contact with perishable goods/food is not permitted.
- The product is not suitable for clamping workpieces during a machining process.
- The product is designed exclusively in combination with series GEP5000, GED5000, GPP5000, GPD5000 and GPW5000.

4 Personnel qualification

WARNING



Inadequate qualification can cause injury and material damage

If inadequately qualified personnel perform work on the product, this can cause serious injuries and significant material damage.

- ▶ All work on the product must be performed by qualified personnel.
- ▶ Before working with the product, read the document in its entirety and make sure that you have understood everything.
- ▶ Observe country-specific accident prevention regulations and the general safety notices.

The following qualifications are a prerequisite for performing various work on the product.

4.1 Electricians

Electricians are able to perform work on electrical systems, can recognize and avoid possible dangers and know the relevant standards and provisions due to their technical training, knowledge and experience.

4.2 Specialists

Specialists are able to perform the assigned work, can recognize and avoid possible dangers and know the relevant standards and provisions due to their technical training, knowledge and experience.

4.3 Instructed personnel

Instructed personnel have been trained by the operating company on the tasks and possible dangers of improper behavior.

4.4 Service personnel

Service personnel are able to perform the assigned work and can recognize and avoid possible dangers due to their technical training, knowledge and experience.

4.5 Additional qualifications

Persons who work with the product must be familiar with the valid safety regulations and laws as well as the standards, guidelines and laws listed in this document.

Personnel who work with the product must have facility-issued authorization to commission, program, configure, operate, maintain and also decommission this product.

5 Product description

CAUTION



Reduction of the gripping force can cause injury and material damage

When flexible components are gripped, the gripping force of the product is reduced.

Reduced gripping force can cause injuries or material damage because the components can no longer be securely gripped and transported.

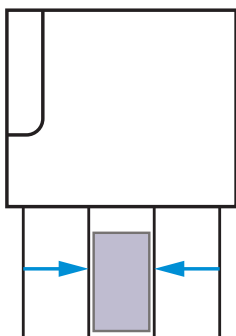
► Always keep an adequate safety distance from suspended loads.

5.1 Possible applications

Outside gripping

The product can be used for outside gripping.

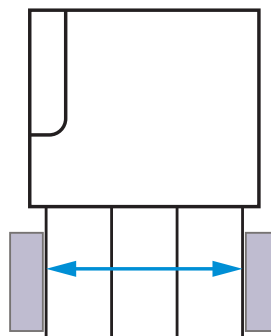
MoveToWork command



Inside gripping

The product can be used for inside gripping.

MoveToBase command

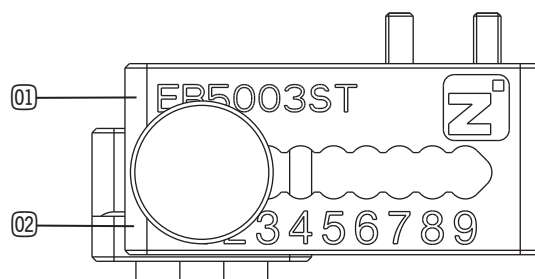


5.2 Type plate

A type plate, as a laser engraving, is affixed to the housing of the product.

01 Article number

02 Confirmation number



INFORMATION



The product can be installed on series GEP5000, GED5000, GPP5000, GPD5000 and GPW5000 and combined with the respective accessories.

The product is available in steel ST and aluminum AL versions.

6 Functional description

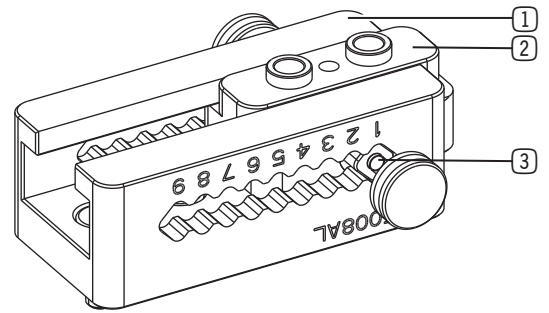
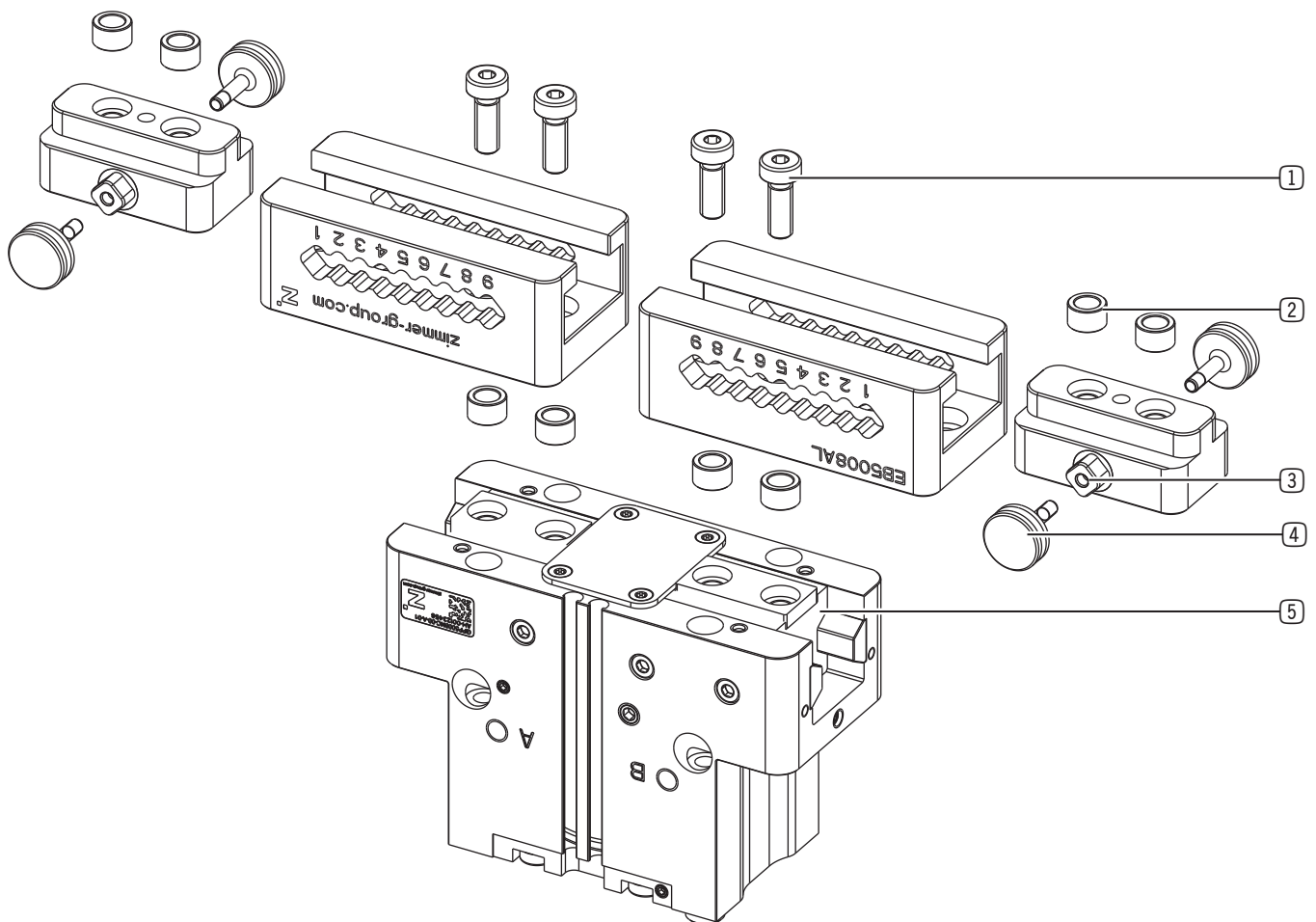
The product consists of two opposite guide rails with one manually adjustable slide each.

The rails are installed on the gripper jaws using centering sleeves and screws.

Workpiece-specific gripper fingers are mounted to the slide using screws and centering sleeves.

The movable slides can be unlocked, shifted and locked again into the designated positions by pushing the spring-loaded pins together.

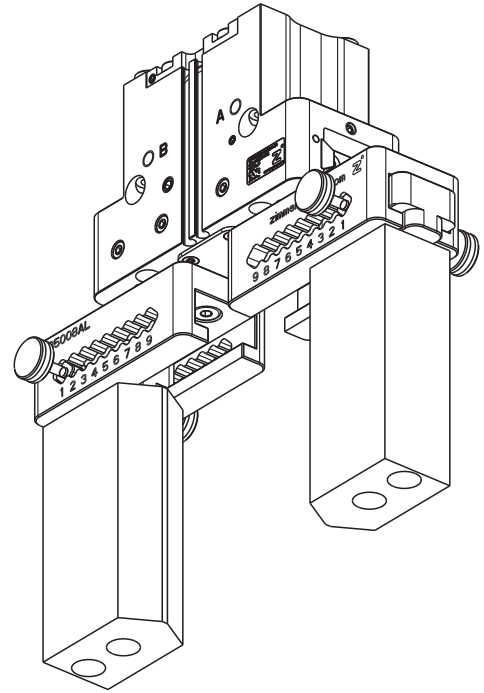
- ① Guide rail
- ② Slides
- ③ Pin



- ① Mounting screw
- ② Centering Disc
- ③ Pin
- ④ Operating element
- ⑤ Gripper jaw

Workpiece-specific gripper fingers can be mounted to the adjustment jaws.

The illustration shows an example of installed gripper fingers on the GPP5000.



7 Technical data

INFORMATION



- You can find the information in the technical data sheet on our website.
- This data varies within the series, depending on the specific design.

8 Accessories/scope of delivery

INFORMATION



- If any accessories not sold or authorized by Zimmer Group GmbH are used, the function of the product cannot be guaranteed. Zimmer Group GmbH accessories are specifically tailored to the individual products.
- For optional accessories and those included in the scope of delivery, refer to our website.

9 Transportation/storage/preservation

- Transport and storage of the product must be done only with the original packaging.
- If the product has already been installed on the superordinate machine unit, care must be taken during transport to ensure that no unexpected movements can occur.
 - Before commissioning the product and after transport, check all power and communication connections as well as all mechanical connections.
- If the product is stored for an extended period, the following points are to be observed:
 - Keep the storage location as dust-free and dry as possible.
 - Avoid temperature fluctuations.
 - Avoid wind/drafts/water condensation formation.
 - Pack the product and do not expose it to direct sunlight during storage.
- Clean all components. There must be no soiling left on the components.
- Visually inspect all components.
- Remove all foreign substances.
- Properly remove potential corrosion spots.

10 Installation

WARNING

**Risk of injury due to uncontrolled movements**

Risk of injury in case of unexpected movement of the machine or system into which the product is to be installed.

- ▶ Switch off the energy supply of the machine before any work.
- ▶ Secure the power supply against being switched on unintentionally.
- ▶ Check the machine for any residual energy that may be present.

WARNING

**Risk of injury from crushing**

For the 3-jaw gripper, a crushing hazard point can result during the gripping movement between the vertical edges of the gripper fingers.

- ▶ Ensure that no persons are within the movement range of the product.
- ▶ Do installation, maintenance and servicing work in jog mode only.

CAUTION

**Risk of injury due to uncontrolled movements**

Risk of injury in the event of uncontrolled movement of the product when the power supply is connected.

- ▶ Switch off the power supply to the machine before carrying out any work.
- ▶ Secure the power supply against being switched on unintentionally.
- ▶ Check the machine for any residual energy that may be present.

CAUTION

**Risk of injury due to objects being ejected**

Spring-loaded components can jump out when installing or uninstalling.

- ▶ Unscrew the mounting screws on spring-loaded components slowly and carefully.

INFORMATION



The operating elements can be removed once the slides have been positioned. This helps to avoid interference contours.

- ▶ Ensure the cleanliness of the connection surfaces.
- ▶ Please note the permitted tightening torques of the mounting screws at www.zimmer-group.com/en/td.
- ▶ Ensure the cleanliness of the connection surfaces.
- ▶ Please note the permitted tightening torques of the mounting screws at www.zimmer-group.com/en/td.

The product can be installed flexibly and quickly. The numbering of the detent notches enables the gripper finger position to be configured securely.

10.1 Installing the rail

CAUTION

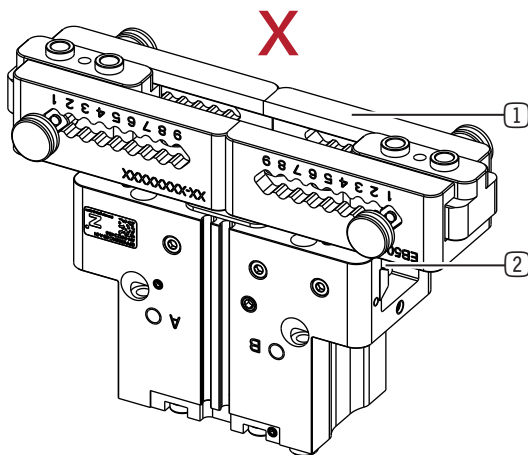
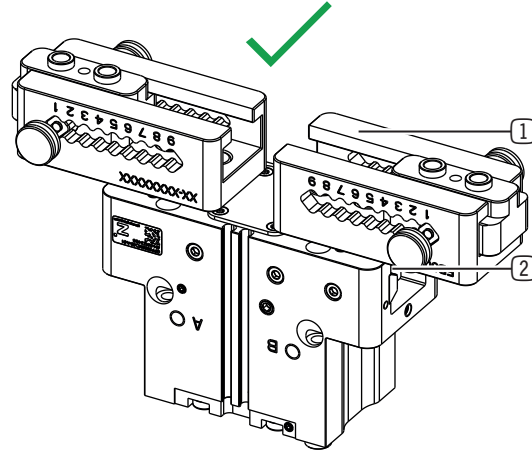


Risk of injury due to loss of gripping force

If the pin is not engaged, a sudden loss of gripping force may result.

- Rotate the operating elements in the screw-in direction if the pin does not engage by itself.
- Make sure that all pins are engaged.

- Make sure that the rails are not touching when the gripper opening is at the minimum.



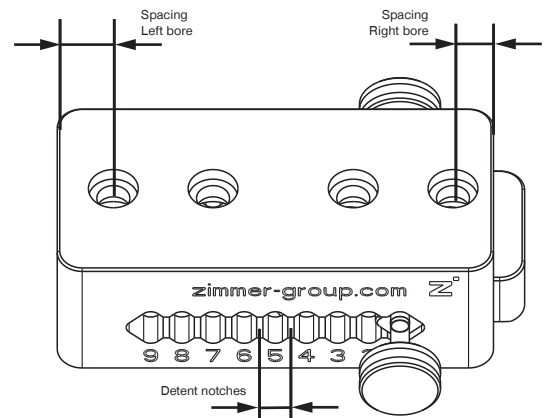
- ① Guide rail
- ② Gripper jaw

The distance of the individual adjustment positions (detent notches) depends on the installation size of the product.

The bores on the rails for installation on the gripper jaws are arranged asymmetrically.

Depending on the direction in which the rail is installed, the notch can either be moved half of the dimension inward or outward.

- Install the rails on the gripper jaws in the same direction.



10.2 Installing the adjustment jaw

The installation holes are freely accessible in the two outer positions of the slide. The slide does not have to be removed from the rail.

- ▶ Unlock the slide and push it to the end of the row of holes.
- ▶ Pay attention to the installation direction.

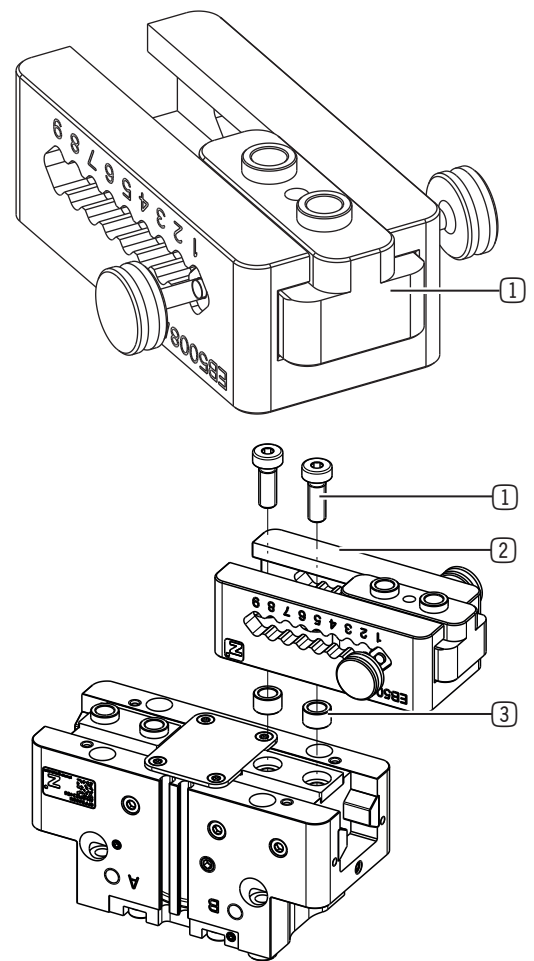
① Slides

- ▶ Fit the centering sleeves into the bores of the gripper jaws.
- ▶ Set the rail such that the centering sleeves slide into the bores on the bottom of the rail.
- ▶ Mount the product on the gripper jaws using the screws.

① Mounting screw

② Guide rail

③ Centering Disc



INFORMATION

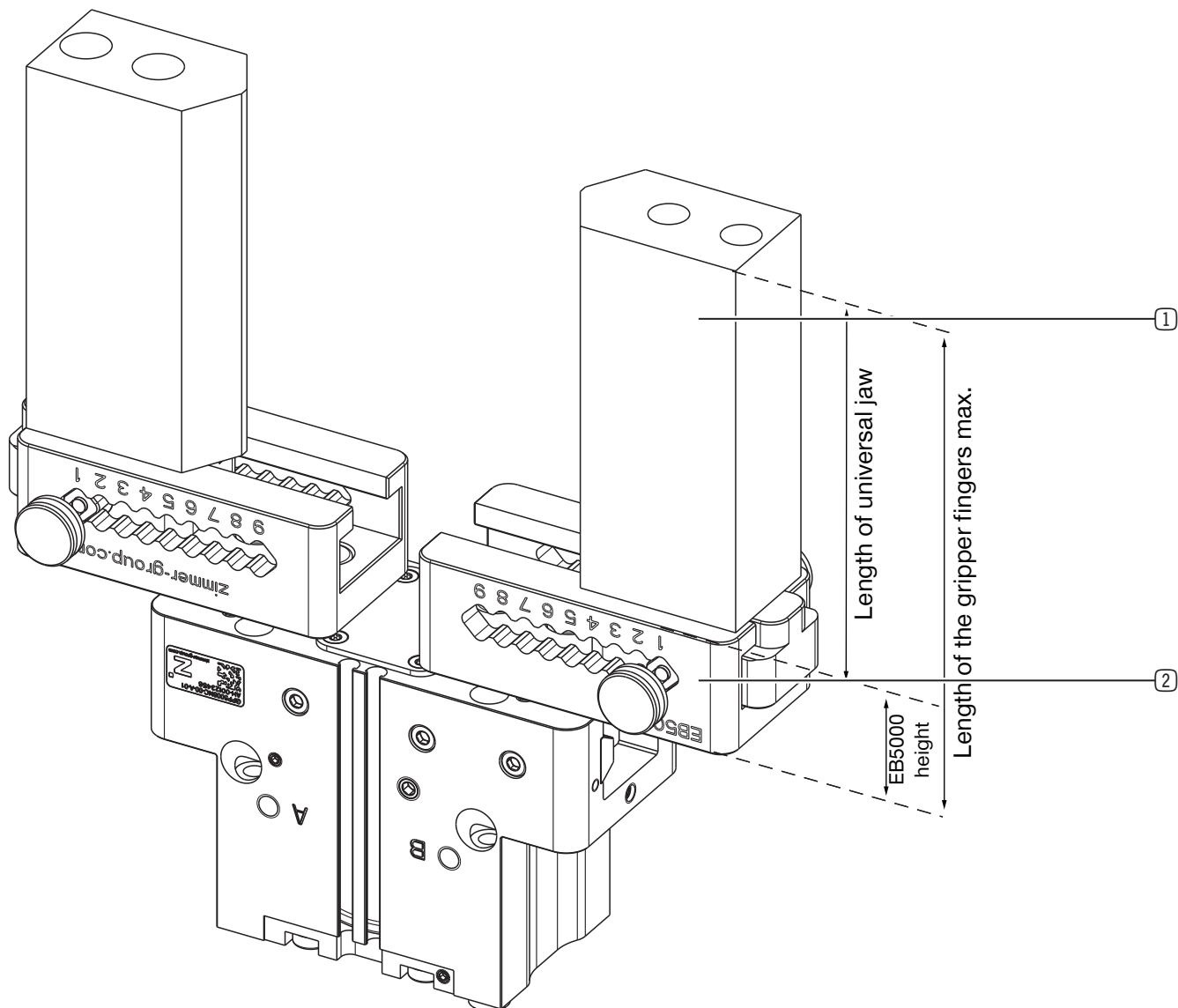


In the data sheet, a maximum length of the gripper fingers is specified for series GEP5000, GED5000, GPP5000, GPD5000 and GPW5000, depending on the installation size.

► Note that this dimension contains the respective height of the adjustment jaws.

In the data sheet, a maximum weight per jaw set is specified for series GEP5000, GED5000, GPP5000, GPD5000 and GPW5000, depending on the installation size.

► Note that the weight of a jaw set includes the weights of the gripper finger and the adjustment jaw.



- ① Gripper finger
- ② Adjustment jaw

10.3 Installing the gripper finger from above

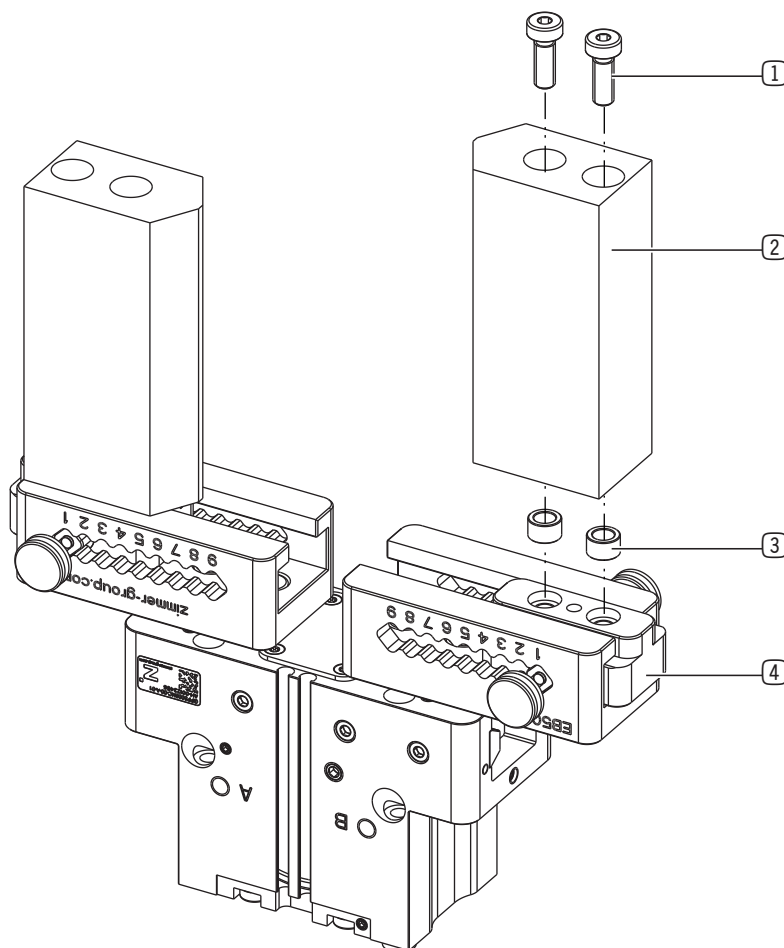
CAUTION



Risk of injury due to loss of gripping force

Note that the product is not compatible with the quick-change units available for the GEP5000, GED5000, GPP5000, GPD5000 and GPW5000.

- ▶ Insert the centering sleeves into the bores on the slide.
- ▶ Set the gripper finger on the slide.
- ▶ Install the gripper finger from above with the supplied screws.



- ① Mounting screw
- ② Gripper finger
- ③ Centering Disc
- ④ Slides

10.4 Installing the gripper finger from below

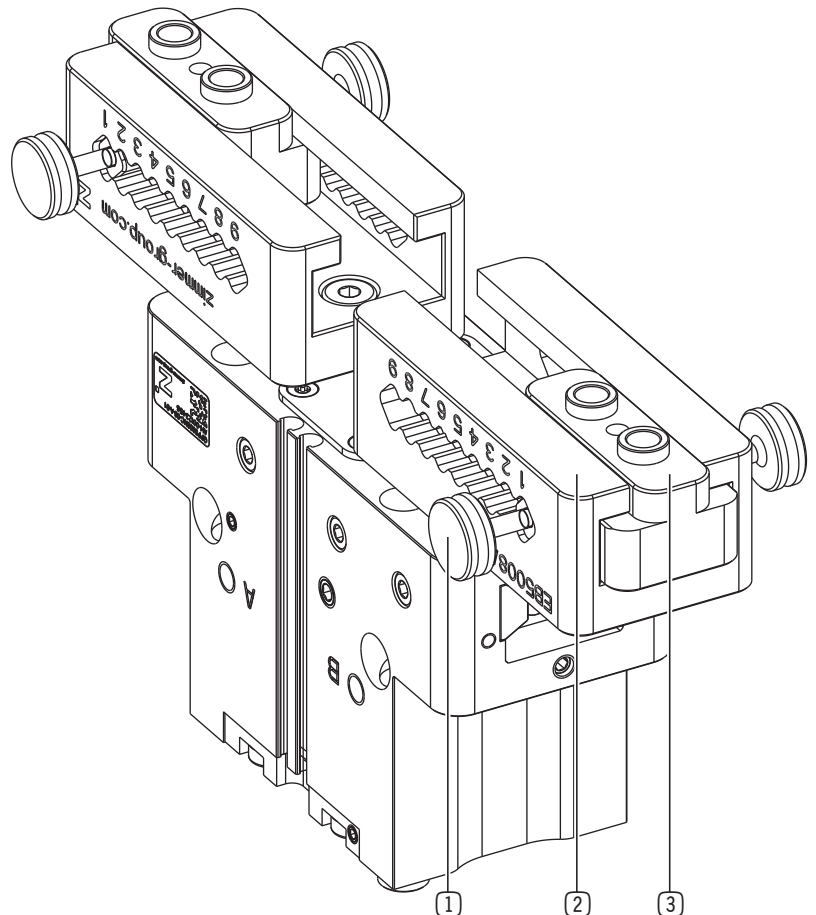
CAUTION



Risk of injury due to loss of gripping force

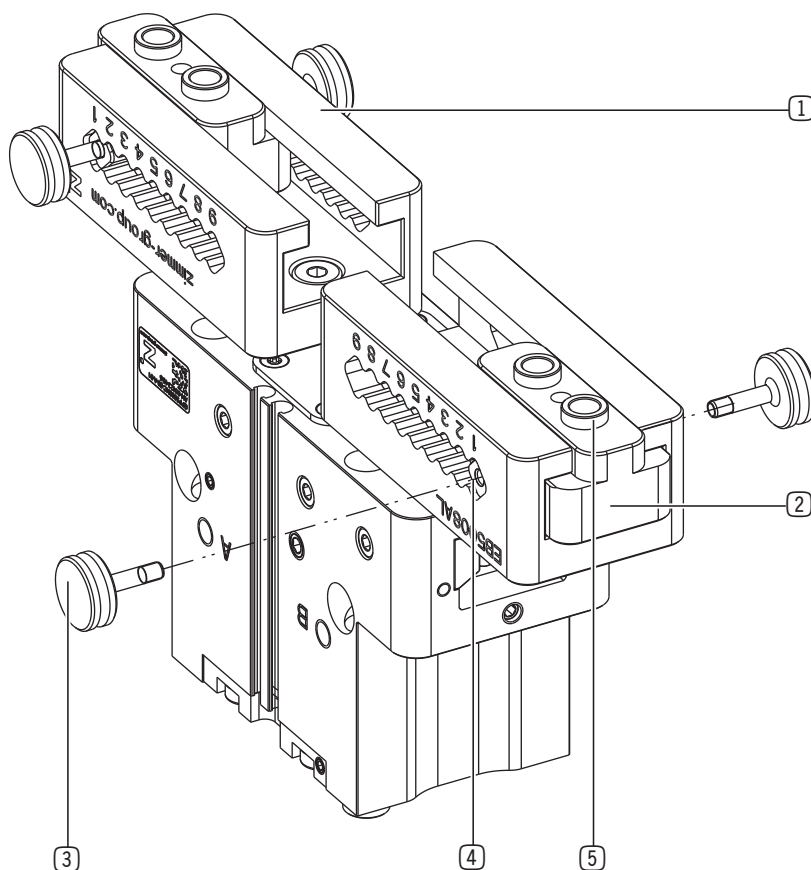
Note that the product is not compatible with the quick-change units available for the GEP5000, GED5000, GPP5000, GPD5000 and GPW5000.

- Push the slide to the end of the rail.
- Push in the operating element until the pin is blocked at the last position behind the rail.



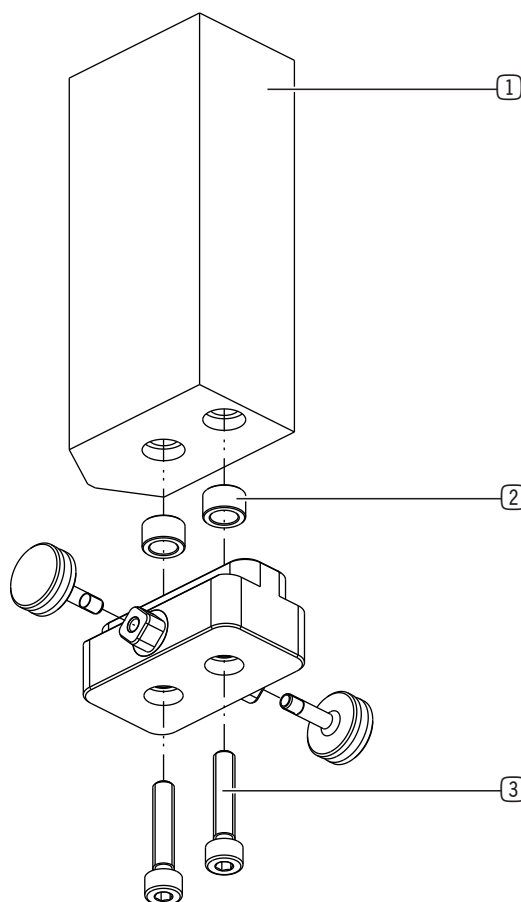
- ① Operating element
- ② Guide rail
- ③ Slides

- ▶ Rotate the operating elements out of the pins.
- ▶ Move the slide forward until the pins of the lock are visible on the outside of the rails.
- ▶ Surround the pin on both sides and press it together.
- ▶ Pull the slide out of the guide rail.



- ① Guide rail
- ② Slides
- ③ Operating element
- ④ Pin
- ⑤ Centering sleeve

- ▶ Insert the centering sleeves into the bores on the slide.
- ▶ Set the gripper finger on the slide.
- ▶ Surround the pin on both sides and press it together.
- ▶ Slide the slide into the rail again until the lock engages in the first position.
- ▶ Screw the operating elements into the pins again.



- ① Gripper finger
- ② Centering sleeve
- ③ Mounting screw

10.5 Alignment of the adjustment jaws

NOTICE

**Malfunction in case of non-compliance**

- ▶ Make sure that the adjustment jaws are aligned symmetrically.
- ⇒ If the adjustment jaws are not aligned symmetrically, the gripper cannot apply the optimal gripping force. It can lead to a malfunction.

10.6 Installing accessories

NOTICE

**Non-compliance may result in material damage.**

- ▶ Before installing an accessory, make sure it is suitable for use with the selected variant.
- ▶ You can find information on our website.
- ▶ Please contact Customer Service if you have any questions.

11 Gripping force charts

INFORMATION



- ▶ You can find the information in the technical data sheet on our website.
- ▶ Please contact Customer Service if you have any questions.

12 Maintenance

WARNING



Risk of injury due to objects being ejected

When disassembling the slide, there is the danger that the spring will jump out of the guide rail, ejecting the pin by centrifugal force.

- ▶ Push out the pins only halfway and attach a securing device, e.g. a screw clamp, or disassemble the slide in a safety container.
- ▶ Then push the slide entirely out of the guide rail.

CAUTION



Risk of injury due to improper maintenance

- ▶ Do not perform maintenance on the product when it is installed on the gripper.
- ▶ Switch off the power supply before any assembly, installation or maintenance work.
- ▶ Secure the power supply against being switched on unintentionally.
- ▶ Check the energy supply for residual pressure.

INFORMATION



- ▶ Comply with a maintenance interval of 6 months.

INFORMATION

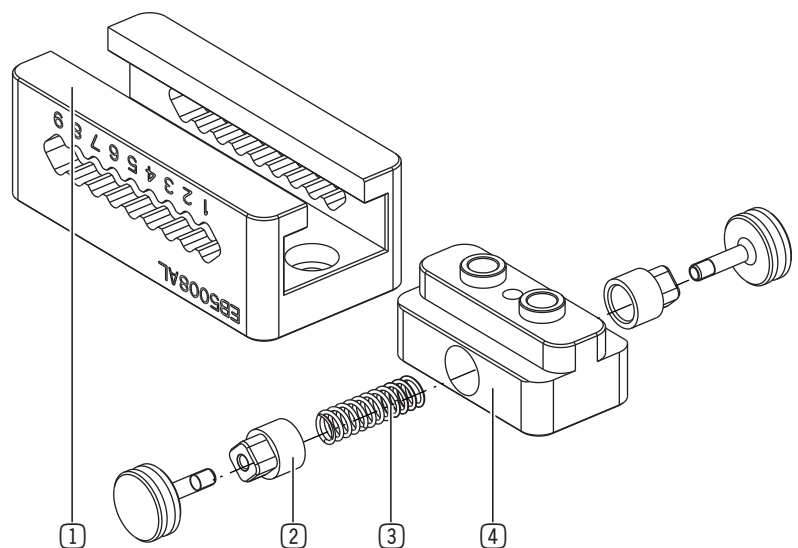


- The two pins and springs of the lock are not connected to each other and can therefore be lost during removal.
- ▶ During uninstallation, ensure that the individual parts are stored safely.

For maintenance, the product must be disassembled into its individual parts.

- ▶ Clean the guide surfaces of the rails and slide.
- ▶ Oil the guide surfaces and move the slide back and forth multiple times. Wipe off the excess oil.
- ▶ Check the springs of the lock and replace them if necessary.
- ▶ Check the pin in the lock for ease of movement.
- ▶ Check the bores for dirt. If necessary, wipe them clean using a cloth or brush.
- ▶ Apply a light coat of oil to the bores.

- ① Guide rail
- ② Pin
- ③ Spring
- ④ Slides



13 Declaration of Incorporation (Machinery Directive)

In terms of the EU Machinery Directive 2006/42/EC (Annex II 1 B)

Name and address of the manufacturer:

Zimmer Group GmbH



Am Glockenloch 2

77866 Rheinau, Germany



+49 7844 9138 0



info@zimmer-group.com



www.zimmer-group.com

We hereby declare that the incomplete machine described below

Product designation: Adjustment jaws

Type designation: EB5000

conforms to the requirements of the Machinery Directive, 2006/42/EC, Article 2g, Annex VII, b – Annex II, b, in its design and the version we put on the market.

We hereby confirm that all the relevant basic health and safety requirements for the product have been observed and implemented.

A full list of applied standards can be obtained from the manufacturer.

We also declare that the specific technical documents were produced in accordance with Annex VII Part B of this Directive. We undertake to provide the market supervisory bodies with electronic versions of special documents for the incomplete machine through our documentation department, should they have reason to request them.

The incomplete machine may only be commissioned if it has been ascertained, if applicable, that the machine or system in which the incomplete machine is to be installed satisfies the requirements of Directive 2006/42/EC on Machinery and an EC Declaration of Conformity has been drawn up in accordance with Annex II 1 A.

Kurt Ross

Authorized representative for
compiling the relevant technical
documents

Rheinau, Germany, 2020-08-31

(Place and date of issuance)

Martin Zimmer
(Legally binding signature)
Managing Partner

14 Declaration of Incorporation

In terms of the EU Machinery Regulation 2023/1230, Annex V, Part B

Name and address of the manufacturer:

Zimmer Group GmbH

📍 Am Glockenloch 2
77866 Rheinau, Germany

☎ +49 7844 9138 0

✉ info@zimmer-group.com

🌐 www.zimmer-group.com

We hereby declare that the incomplete machine described below

Product designation: Adjustment jaws

Type designation: EB5000

in their design and in the version we have placed on the market comply with the requirements of Regulation 2023/1230, Article 3.10, Annex III, Annex IV, Part B and Annex V, Part B.

A complete list of the standards applied and the essential health and safety requirements is available from the manufacturer.

The incomplete machine must not be commissioned until it has been determined that - where applicable - the machine into which the incomplete machine is to be incorporated complies with the provisions of EU Machinery Regulation 2023/1230 and the EC Declaration of Conformity has been issued in accordance with Annex V, Part A.

Kurt Ross

Authorized representative for
compiling the relevant technical
documents

Rheinau, Germany, 2027-01-20

(Place and date of issuance)



Martin Zimmer
(Legally binding signature)
Managing Partner