

Operation Manual



**Compressed-air Stapling Plier
Z 23 P**

IMPORTANT

Before the first commissioning read this manual thoroughly and completely and keep it in a safe place.

Observe and follow the safety instructions and only use the machine if you are sure that you have completely understood all the instructions.

Failure to comply can lead to injuries!

If you have any questions, contact

MEZGER Heftsysteme GmbH

Saganer Straße 24

90475 Nürnberg

Germany

Modell

Type/description:

See label

Preface

For a safe operation of the stapling machine it is necessary to acquire the knowledge conveyed by these **ORIGINAL OPERATING INSTRUCTIONS**. The information is presented in brief and clear form. The chapters are sorted by numbers.

Copyright

The copyright of this operation manual remains with **MEZGER Heftsysteme GmbH**.









Contents overview

1	Safety information	4
2	Design features.....	5
2.1	General design features	5
2.2	Features of hazard warnings.....	5
2.3	Features of warnings about damage to property or the environment	6
2.4	Safety	6
2.5	Avoid risk of fatal injuries	6
2.6	Avoid explosion hazards.....	6
2.7	Avoid injury hazards.....	6
2.8	Avoid damage to the stapling device	7
3	Intended use, general.....	7
3.1	Intended use.....	7
3.2	Use other than as intended	8
4	Warranty and liability	8
5	Ambient conditions/Emission	8
6	Operating Personnel	8
7	Initial commissioning.....	9
8	Basics of working technique and handling.....	9
9	Shutting down.....	10
10	Maintenance and care.....	10
11	Description.....	12
11.1	Overview of device and scope of delivery ZH 23 P	12
11.2	Functionality	12
11.3	Product features.....	13
11.4	Safety equipment	13
11.5	Warning labels on the stapling device	13
11.6	Information on the rating plate.....	14
12	Preparing the stapling device.....	14

12.1	Unpack the stapling device.....	14
12.2	Check condition.....	15
12.3	Connect stapling device to air supply	15
13	Stapling device operation.....	17
13.1	Open the magazin.....	17
13.2	Insert staples	18
13.3	Close magazine	19
13.4	Adjust vent.....	20
13.5	Check functionality.....	20
13.6	Contact triggering.....	21
13.7	Set drive depth	21
13.8	Controlling operating pressure	21
13.8.1	Set drive depth with bottom retaining clip	21
13.9	Check drive depth	22
13.10	Drive staples.....	22
13.11	Triggering the stapling device	23
13.12	Select carton thickness.....	23
14	After operation	24
14.1	Disconnect the air supply	24
14.2	Empty the magazine	24
15	Transporting and storing the stapling device	25
15.1	Packing.....	25
15.2	Transporting	25
15.2.1	Transporting over short distances	25
15.3	Trabsporting over long distances.....	26
15.4	Storage.....	26
16	Maintaining the stapling device	26
16.1	Clean the housing and outer surfaces.....	26
16.1.1	Light soiling.....	26
16.1.2	Heavy soiling.....	27
16.2	Oiling the stapling device.....	27
17	Faults.....	27
17.1	Removing jammed staples	28
17.2	Other faults.....	29
17.3	Fault overview	29
17.4	staples.....	30
18	Disposing of the stapling device	30
19	Technical data.....	31
20	Notice of residual risks	32
21	Technical documentation.....	33
21.1	Spare parts	33
21.2	Declaration of Conformity	34

1 Safety information

Safety instructions and important explanations are labelled with the following pictograms. The symbols used in the operating instructions have the following meaning:

Symbol	Signal word	Meaning
	Warning notice	Warning of possible injuries to persons or possible damage to property Warning of possible defects or destruction of the machine
	Prohibition	Indicates general prohibitions!
	Warning notice	Risk of fingers being crushed!
	Prohibition	Protect from moisture!
	Warning notice	Accidental activation when connecting to the compressed air supply could result in death or serious injury. □ Do not point the driving tool at yourself, other people or animals. Empty the magazine before connecting
	Warning notice	Damaged hose lines can burst and lead to injuries. □ Check the compressed air system and the driving tool for damage before connecting. Only connect the driving tool to a functioning compressed air system.
	Warning notice	Risk of injury from electric shock. Before triggering, make sure no power line is hit.
	Warning notice	During operation, damage to the eyes or other injuries from flying splinters is possible. Wear protective goggles and suitable protective clothing during operation. Observe the applicable occupational health and safety regulations.

Read all these instructions before using the stapling device and keep the safety instructions in a safe place.

The operating personnel must be trained in the handling of the stapling device and they must have fully read and understood the operating instruction.

To avoid injury or damage, the operator must additionally observe the company's internal safety guidelines!

In addition, we would like to refer to further national rules and safety provisions which are not contained in this manual.



Keep persons who are not instructed away from your work area!

If damage to the device is determined by the operator during production, the device may no longer be used and must be repaired by a professional!

The required personal protective equipment must be provided by the operator.

Only original parts may be used as spare parts!

2 Design features

2.1 General design features

Certain elements of the instructions for use have defined design features. This lets you easily see whether a passage is

- normal text,
- a list of items, or
- an action to be taken.



Tips provide additional information, such as special details about how to use the stapling device cost-effectively.

2.2 Features of hazard warnings

All hazard warnings in these instructions for use follow the same pattern. To the left is a symbol that indicates the type of hazard. To the right is a signal word that designates the severity of the hazard. Below this is a description of the source of the hazard and instructions on how to avoid the hazard.



DANGER

Notes with the word DANGER warn of hazards that lead directly to severe or fatal injuries.



WARNING

Notes with the word WARNING warn of hazards that can potentially cause severe or fatal injuries.



CAUTION

Notes with the word CAUTION warn of hazards that can potentially cause minor to moderate injuries.

2.3 Features of warnings about damage to property or the environment

ATTENTION

These notes warn of hazards that can lead to damage to property or the environment.

2.4 Safety

When using the stapling device, note and adhere to all warnings and instructions in these instructions for use and on the stapling device itself. The enclosed spare parts list is part of these instructions for use.

2.5 Avoid risk of fatal injuries

- Make sure that no part of the body is between the discharge opening and the anvil, and at any time the stapling device is connected to the air supply.
- Actuate the stapling device only when the tip of the tool is pressed against the workpiece. Make sure that the staples is not driven into a power line.

2.6 Avoid explosion hazards

- Do not use the stapling device in explosion hazard areas.
- Never operate the stapling device with oxygen or other flammable gases or gas mixtures.

2.7 Avoid injury hazards

- Keep the stapling device out of the reach of unauthorized persons.
- Disconnect the stapling device from the air supply before transport.
- Wear safety glasses, hearing protection, and sturdy work clothing when operating the stapling device.
- Hold the stapling device so that you cannot be injured by any possible recoil.
- Only use the stapling device when you are able to stand securely.

2.8 Avoid damage to the stapling device

- Never open the stapling device. Leave repair work to qualified technical personnel.
- Do not use the stapling device if it has been dropped or damaged. Have it checked by qualified technical personnel before resuming use.
- Do not connect the stapling device to an air supply that exceeds the maximum operating pressure of 8 bar.
- Install fixed stapling devices only in securely anchored mounting devices. The stapling device must not be able to rotate or shift. The mounting device must not damage the stapling device or its accessories.

3 Intended use, general

The stapler may only be used for its intended purpose. It must be used, operated, and maintained in accordance with the information in these operating instructions.

Only the materials and staples defined for the respective stapler are to be used, as otherwise malfunctions and damage to the stapler may occur. The stapler may only be used for the purpose specified in these operating instructions. Other applications are only permitted with the prior consent and written approval of the manufacturer.

Any other use is not intended and can lead to personal injury or property damage. In the event of improper use, the operator alone is liable for any resulting damage.

The operator must ensure that the stapler is only operated as intended and that all kinds of dangers to the life and health of the user or third parties are avoided. In addition, compliance with the accident prevention regulations and other safety rules and laws must be observed.



**Other usage can cause damage to tool and person.
This is in the responsibility of the operator.**

3.1 Intended use

Stapling devices are used to drive staples into paper and carton materials. Using the stapling device with other materials is permissible only after consulting with the manufacturer. The intended use also includes compliance with accident prevention rules and the regulations and standards in force at the place of use. Any other use is not as intended and can lead to property damage or even to personal injury.

3.2 Use other than as intended

Uses particularly contrary to the intended use include:

- Use by persons unfamiliar with the use of stapling devices and the materials in use.
- Use with safety devices bypassed.
- Use of stapling devices that have been modified without permission.
- Use of any accessories not indicated in these instructions for use.
- Use of compressed air sources not listed in these instructions for use.

MEZGER Heftsysteme GmbH GmbH does not accept any liability for damage caused by use other than as intended.

4 Warranty and liability

Our “General Terms of Sale and Delivery” shall generally apply.

These terms were made available to the operator by the time of contract award at the latest. Any warranty and liability claim in the case of personal and material damage shall be excluded, if such damage occurred as a result of:

- Improper use of the tool (not in compliance with intended use).
- Non-compliance with the specification provided in the operating instructions as regards transport, storage, assembly, commissioning, operation, maintenance and setup of the equipment.
- Operation of the tool with defective safety equipment or improperly installed or non-functional safety and protection facilities.
- Improper monitoring of tool parts which are subject to wear and improperly executed repair work.
- Any type of manipulation of the tool.

5 Ambient conditions/Emission

The device should be operated at room temperature, protected against environmental influences.

Use within an explosive atmosphere is permitted only with prior consent and written permission of the manufacturer.

The noise emission is less than 70 dB(A).

Non-atmospheric gases are not released during the stapling process.

6 Operating Personnel

Only trained, competent personnel are permitted to operate the stapler.

Note: Anyone who has sufficient knowledge in the field of staplers due to their training and experience and is familiar enough with the relevant state occupational safety regulations, accident prevention regulations, guidelines and generally recognized rules of technology (e.g.

DIN standards, VDE regulations) is competent can assess the safe condition of machines, especially stapling machines.

7 Initial commissioning

Before the stapling device is put into operation, please read all instructions in this manual. This stapling machine may only be put into operation by trained personnel.

To make the stapling device ready for operation after delivery, the following tasks must be carried out:

- Check the equipment for completeness
- Load the tool with staples
- Connect the compressed air

The air pressure is 5 - 8 bar overpressure.

It is necessary to connect a filter regulator consisting of a filter, water separator and pressure reducer upstream.

A hose with a clear width of 8 mm is required as the connection hose.



When the stapling machine is ready for operation, it is prohibited to touch the stapling ejection opening or the running stapler! DANGER OF INJURY!



Oxygen or combustible gases may not be used as a propulsion source for pressure driven machines.

8 Basics of working technique and handling

Before the operator uses the stapler, he must find out about the respective application and check whether the stapler is suitable for it. Follow all safety instructions exactly!



Make sure that the stapler is not damaged and that it can be operated safely!

The operationally safe condition of the stapler must be checked continuously before starting work!

Safety devices must not be bypassed or made ineffective!

Keep your work area tidy.

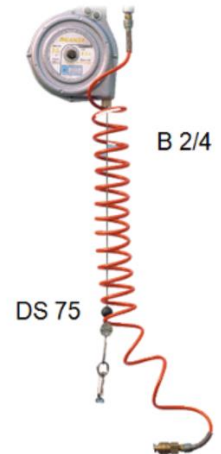
Clutter in the work area can lead to accidents.

- Use only ORIGINAL staples that are specially manufactured for this quality device. Foreign staples can lead to malfunctions and considerable damage.

- Never staple without stapling material. Do not remove the stapler until the stapling process is complete.

Do not staple in hard or brittle materials or on a hard surface

- If a stapling fault occurs, clear it immediately and do not initiate any further stapling
- Turn off the stapler after use
- If possible, the stapler should be hung above the packing station.



The following accessories are available:

- B 2/4 balancer (weight equalizer) with rotatable load hook
- DS DS 75 spiral hose with an extended length of 7.5 m
- Filter regulator
- W / UNIT maintenance unit consisting of pressure reducer, water separator, oil nebuliser

9 Shutting down

In case the tool will not be handled for some time, please disconnect the air pressure and remove all staples.

10 Maintenance and care



ATTENTION! Before every maintenance, the compressed air supply must be removed.
Only original spare parts from the manufacturer are to be used (see appendix "Spare parts list").



**Any kind of alteration to the device (e.g. drilling of holes) is only permitted with prior consent and written permission of the manufacturer.
Manipulation of the safety device(s) is prohibited.**

In order to maintain the operational readiness and function of the stapler, it must be regularly checked, serviced and cleaned by the operator or/and by qualified personnel.

Test area	Activity / examination	T	W	M	J	Area
Stapling device	Clean/check prüfen		•			Stapling area
Stapling device	Clean and lightly oil		•			
Stapling area	Clean/check		•			
Pneumatic hoses, tightness, Damage	check		•			Pneumatic
Check screw connections for tight fit	check			•		
Filter regulator	clean / drain				•	

T = daily / **W** = weekly / **M** = monthly (6M = alle 6 Monate) / **J** = yearly

- All friction points/movable parts should be lightly oiled from time to time.
- Do not use aggressive cleaning agents or solvents (damage seals) or abrasive media used for cleaning.
- Cleaning with compressed air is also to be avoided as there are dirt particles get into the sealing areas and damage them.
- Do not use foot wash for cleaning.
- Soiling must be removed directly from the operator after machining operations.

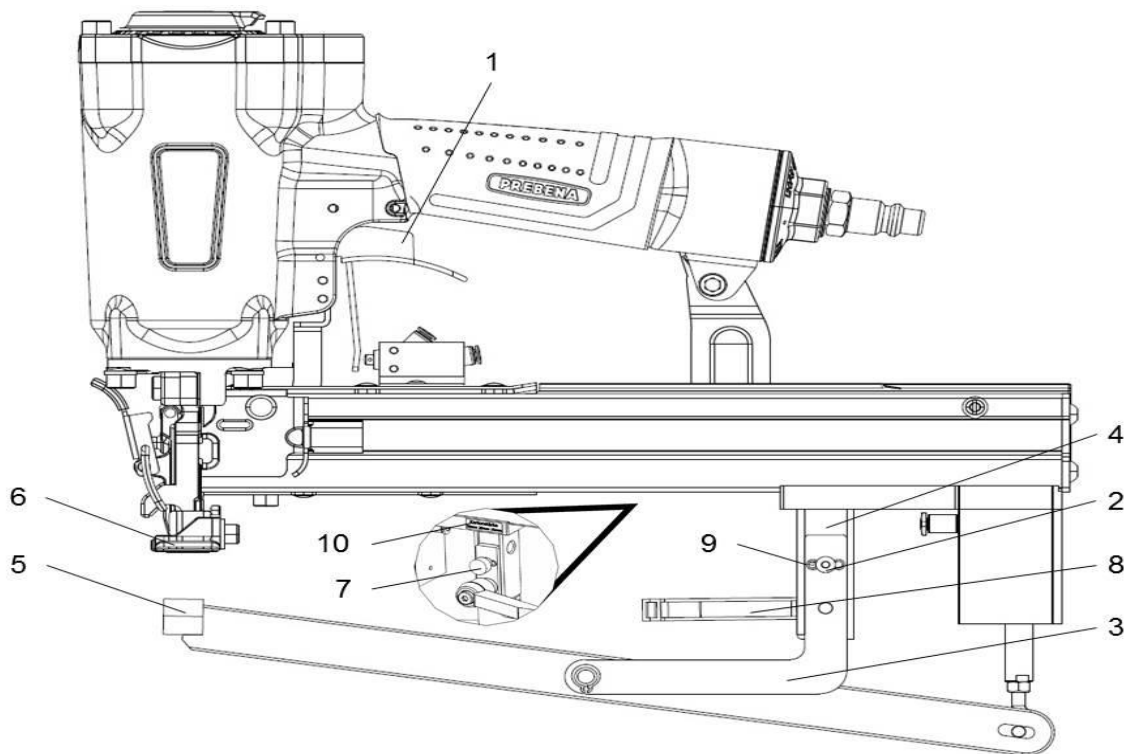
The following work / inspections should be carried out regularly by qualified personnel:

- Regularly oil the moving parts (no graphite oil!) (Weekly)
- Check the filter regulator for condensation. The condensation water may have to be removed.



Only ORIGINAL spare parts may be used. (see "spare parts list")
In case no ORIGINAL spare parts are used each warranty claim, or any liability is excluded!
All technical equipment, especially the safety equipment, must be checked regularly by specialists, especially after repairs.

11 Description



11.1 Overview of device and scope of delivery ZH 23 P

No.	Description
1	Trigger
2	Retaining ring (locking pin)
3	Clip
4	Spacer
5	anvil
6	Discharge opening
7	Locking pin
8	Clamp lever

11.2 Functionality

The stapling device drives and bends staples one at a time into carton materials using compressed air. Excess pressure is vented through pressure relief valves.

You can adjust the stapling device to the carton thickness being processed.

11.3 Product features

The stapling device has the following features:

- Trigger safety
- Contact trigger
- Magazine with top-loader system
- Adjustable air discharge 360°
- Adjustable drive depth with bottom retaining clip

11.4 Safety equipment

Trigger safety

The stapling device is equipped with a trigger safety at the discharge opening. The trigger is enabled only when the trigger safety is pressed.



WARNING

Severe injury if the stapling device is operated with a defective or bypassed trigger safety.

- Use the stapling device only with a functioning trigger safety.
- Actuate the stapling device only when the tip of the tool is pressed firmly against the workpiece.

Warning labels on the stapling device

For the trigger setting, "Trigger repeat," the following types of use are not permissible:

- Work that requires moving across scaffolding, stairs, ladders, or ladder-like structures.
- Use to close crates or boxes or to attach transport locks.



The appropriate warning symbol (see below) is applied to the front side of the stapling device.

- Rating plate
- Triangle pointing downward (This triangle indicates that you are only permitted to use the device if the trigger safety is functional)

11.5 Warning labels on the stapling device

- Rating plate
- Triangle pointing downward (This triangle indicates that you are only permitted to use the device if the trigger safety is functional.)

11.6 Information on the rating plate

The rating plate is applied to the magazine. It contains the following information:

- Company name and full address of the manufacturer
- Type designation of the stapling device
- Type designation of compatible mounting devices
- Maximum permissible operating pressure
- CE mark (The product complies with the standards listed in the enclosed Declaration of Conformity.)
- GS mark (The product has passed a safety inspection according to the Equipment and Product Safety Act.)
- Triangle pointing downward (This triangle indicates that you are only permitted to use the device if the trigger safety is functional.)
- Year built

12 Preparing the stapling device

12.1 Unpack the stapling device

- ▶ Remove the stapling device from the packaging.
- ▶ Remove all packaging material, such as film, filler material, and the packaging carton.



WARNING

Suffocation hazard playing with packaging film.

- Do not play with packaging film.

- ▶ Keep the packaging material for later use.
- ▶ Keep the transport case for transporting the stapling device.



Transporting the stapling device is only allowed in the transport case.

12.2 Check condition



WARNING

Risk of injury when operating a damaged stapling device or if accessories are not attached correctly.

- Check the condition of the stapling device before each use.
- Make sure the stapling device is not damaged.

- ▶ Check the following points in particular:
 - All parts of the stapling device and all accessories must be attached securely.
 - The safety equipment must not be blocked or otherwise hindered in function.
 - The spring on the trigger safety must not be damaged.
 - No part of the stapling device or accessories may show external damage such as scratches or dents.
 - The hose must be undamaged.



Scratches on the paint of the housing or the magazine are not damage.

- ▶ Do not connect a damaged stapling device to an air supply.
- ▶ If the stapling device is damaged, have it repaired by technical personnel before resuming use.

12.3 Connect stapling device to air supply

You can connect the stapling device to a compressor or a compressed air system.

Operation with a compressor or a compressed air system is permissible only under the following conditions

- The operating pressure of the compressor or the compressed air system must not be more than 10% greater than the maximum operating pressure of the stapling device. Information on the operating pressure of stapling devices can be found on page 23 in this section.
- For compressed air systems with higher pressure, a pressure regulating valve (pressure reducer) with a pressure relief valve connected downstream must be installed in the compressed air line.
- The compressed air must be filtered, dry, and oiled with special oil.
- A compressed air preparation unit must be installed on the coupling side at the outlets for the compressed air line to the stapling device. It must include
 - a filter
 - a water separator
 - an oiler

- If no oiler is installed, the length of the air line to the stapling device must not exceed 10 m. Otherwise, you must add three to five drops of special oil directly into the air inlet of the stapling device every day prior to starting operation.
- The compressed air system must be able to maintain operating pressure even when the desired amount of air is being used.
- The inner diameter of the air line must be at least 8 mm.
- The connector for the stapling device must be equipped with a quick-connect coupling with nominal diameter of 7.2 and at least 6.5 mm inner diameter.

**CAUTION**

Operation with compressed air systems that do not meet the above conditions can cause damage to the stapling device.

- Operate the stapling device only with a suitable compressed air system.
- Use the stapling device only if it is flawless condition.

- ▶ Check the condition of the stapling device.
- ▶ Remove the plug from the connector for the air hose.
- ▶ Check the connector for the air hose for foreign objects and dirt and clean it if needed.
- ▶ Set the operating pressure at the pressure regulator on the compressor to 5–8 bar.

**WARNING**

Accidentally triggering when connecting to the compressed air supply can cause severe or fatal injury.

- Do not point the stapling device at people or animals.
- Empty the magazine before connecting.

**CAUTION**

Damaged air lines can burst and cause injury.

- Check the compressed air system and the stapling device for damage before connecting.
- Connect the stapling device only to a functioning compressed air system.

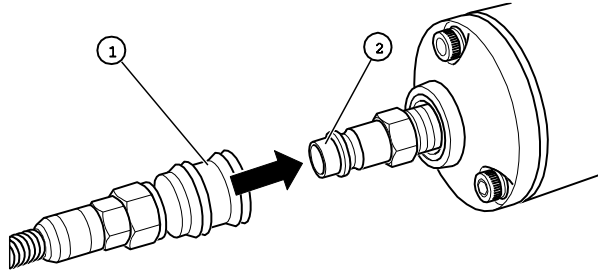
ATTENTION

Damaged hoses can burst and cause property damage due to escaping compressed air.

- Check the compressed air system and the stapling device for damage before connecting.
- Connect the stapling device only to a functioning compressed air system.

Set the operating pressure at the pressure regulator on the compressor to a maximum of 8 bar. Check the connector for the pressure hose and the quick-connect on the pressure hose for foreign objects and dirt and clean them if needed.

- ▶ Slide the quick-connect lock (1) on the compressed air hose onto the connector (2) until it audibly engages.



- ▶ Check the operating pressure at the pressure gage on the compressor. The maximum permissible operating pressure is 8 bar.



WARNING

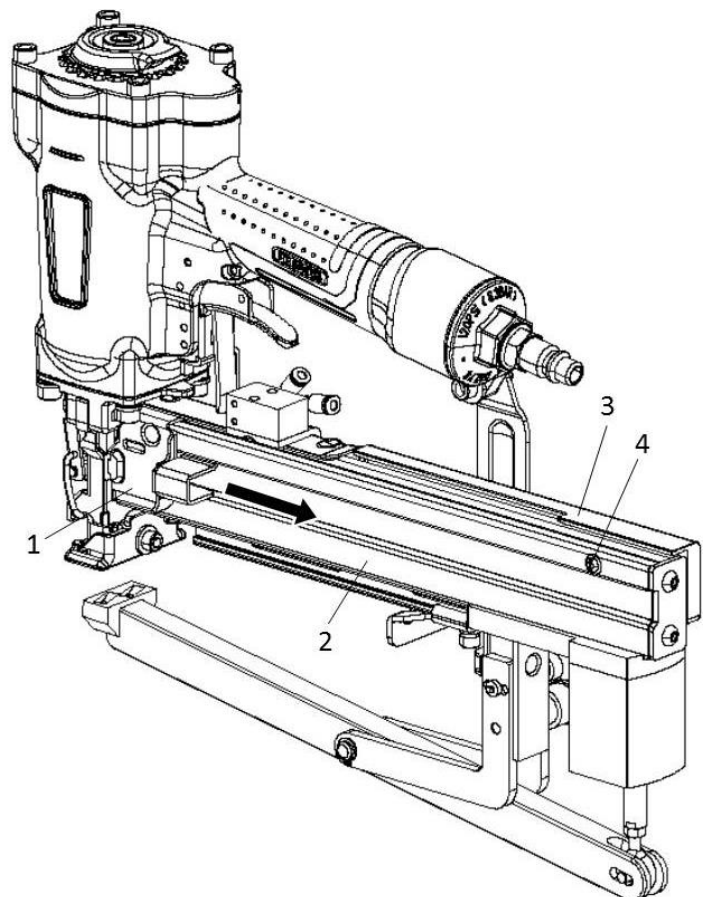
Risk of explosion if maximum operating pressure is exceeded.

- In this case, disconnect the air hose from the stapling device immediately.

13 Stapling device operation

13.1 Open the magazin

- ▶ To open the magazine, slide the slider (1) back in the direction of the arrow until it engages with the locking pin (4).



13.2 Insert staples



WARNING

Accidentally triggering when loading the magazine can cause severe or fatal injury.

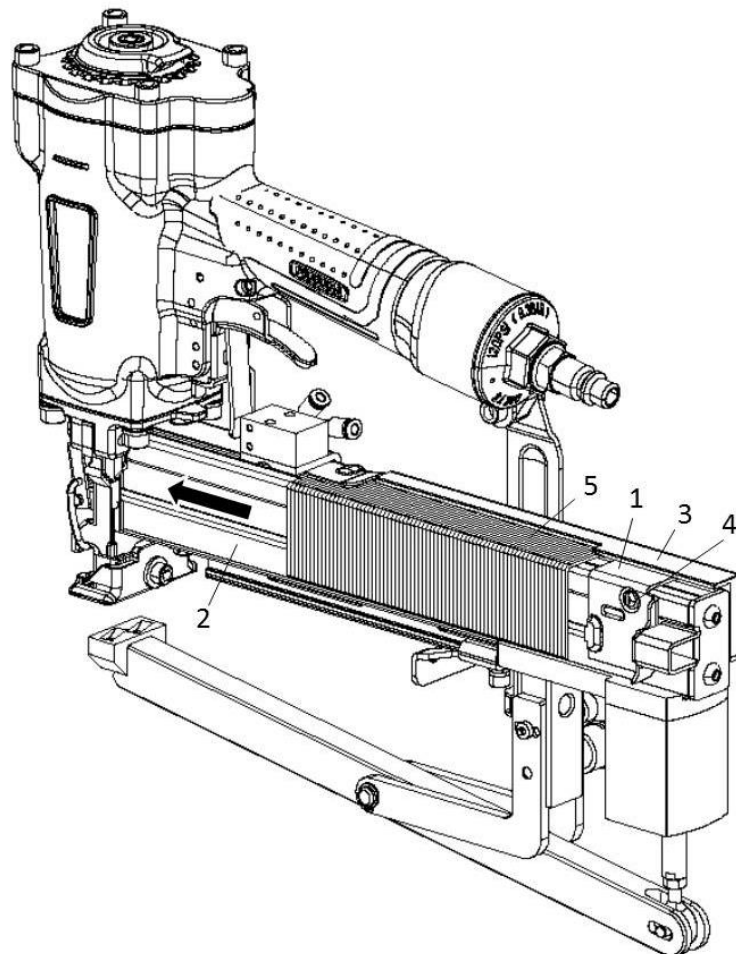
- Do not point the stapling device at yourself, people or animals.



CAUTION

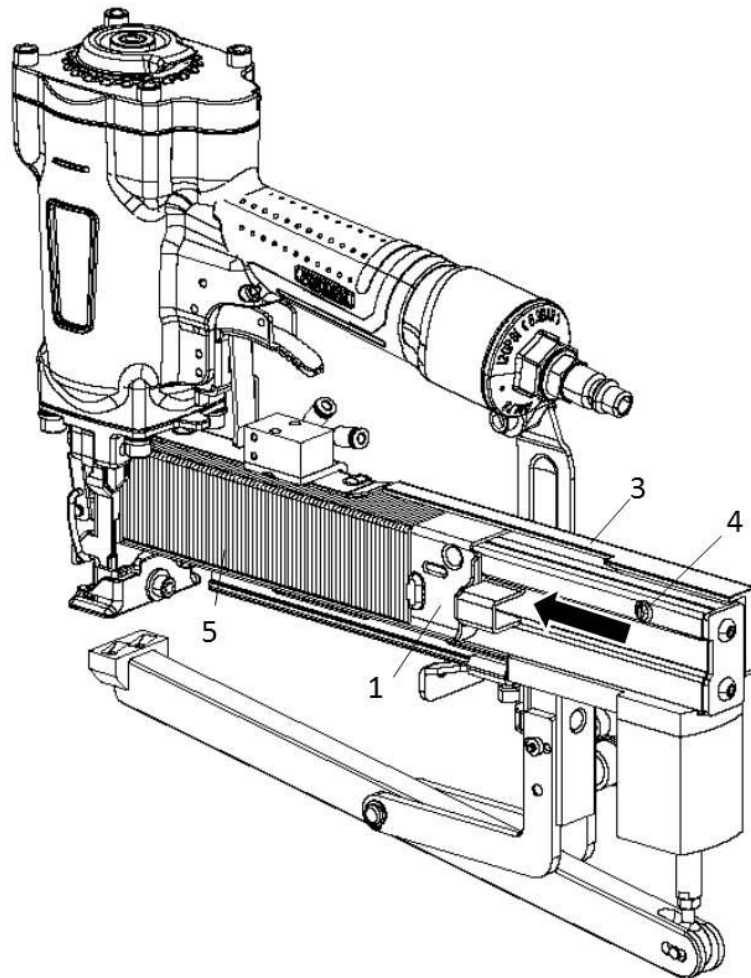
Incorrect staples can cause injury, interfere with proper functionality of the stapling device, or damage the stapling device.

- ▶ Hold the magazine cover (3) against the magazine holder to load a stack of staples into the magazine (2) with the points facing downward.
- ▶ Slide the staples as far as possible in the direction of the arrow toward the front of the intake.



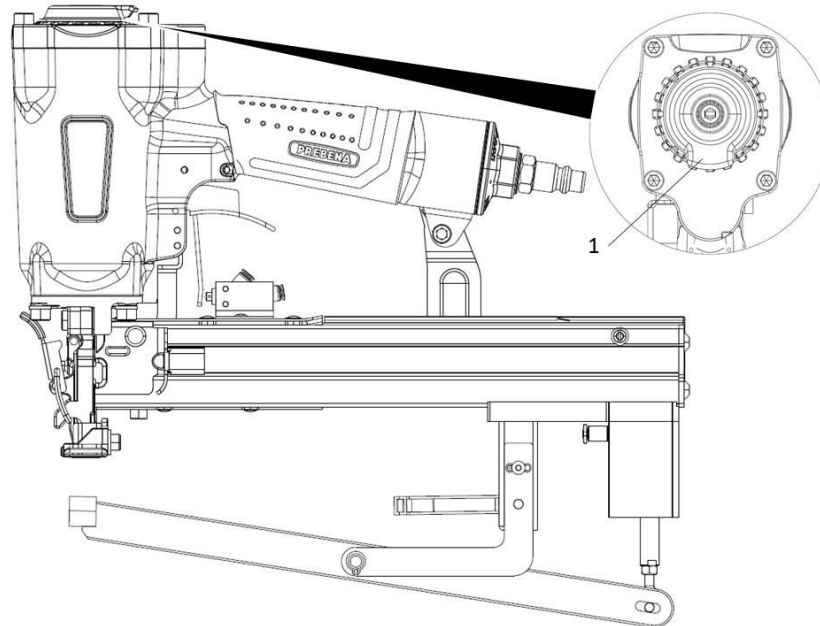
13.3 Close magazine

- ▶ To close the magazine, release the lock (4) and slide the slider (1) in the direction of the arrow against the staples (5).



13.4 *Adjust vent*

- ▶ To adjust the exhaust vent, turn the adjuster (1) in the desired direction.
- ▶ Turn the exhaust vent so that the exhaust air does not hit you or other persons.



13.5 *Check functionality*

To ensure trouble-free functionality of the stapling device, proceed as follows:

ATTENTION

Observe the Hazard Warnings in the "Safety" section,

- ▶ Position a carton at least 16 mm thick in the opening between the anvil and discharge opening.
- ▶ Trigger the stapling device.
- ▶ Check the following properties:
 - Triggering occurs only when the trigger safety is pressed.
 - One staples must be driven into the carton material for each pull of the trigger.
 - Exhaust air must not blow towards the face.
- ▶ To obtain the desired bending profile if needed, change the operating pressure, the bottom retaining clip, or the carton thickness setting (see page **Fehler! Textmarke nicht definiert.**).
- ▶ Repeat these steps as needed.

The stapling device is now ready for operation.

13.6 Contact triggering

The device is set for contact triggering. For repeated triggering, you do not need to press the trigger each time. Each trigger action drives one staple into the material.

The device must not be used in the following cases:

- For applications that require the stapling device to be moved across scaffolding, stairs, ladders, or ladder-like structures.
- For closing crates or boxes.
- For applying transport locks.

13.7 Set drive depth

You can set the drive depth of the staples into the carton material by adjusting the bottom retaining clip and by controlling the operating pressure.

13.8 Controlling operating pressure

You can set the drive depth of the staples into the material by controlling the operating pressure. At higher operating pressure, the staples are driven deeper, and at lower operating pressure they are driven less deep.

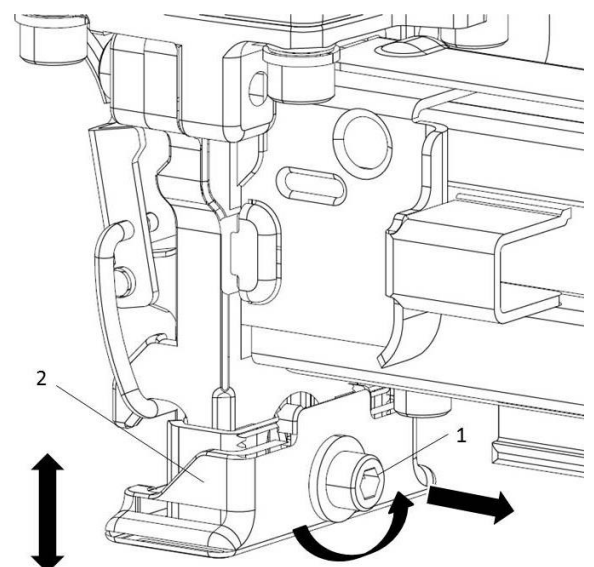


When operating with a compressed air hose, you can only turn up the operating pressure on the stapling device to a maximum of the output pressure of the compressor.

13.8.1 Set drive depth with bottom retaining clip

You can set the drive depth of the staples into the carton material by adjusting the bottom retaining clip.

- ▶ To reduce the drive depth, loosen the cap screw (1) and adjust the bottom retaining clip (2) downward.
- ▶ To increase the drive depth, loosen the cap screw (1) and adjust the bottom retaining clip (2) upward.



13.9 Check drive depth

- ▶ Set the stapling device so that the carton is between the discharge (6) and the anvil (5).
- ▶ Press the anvil (5) against the carton.
- ▶ Press the trigger (1) through the stroke.
- ▶ The discharge(6) contacts the carton.
- ▶ One staples is driven through the carton and bent at the anvil (5).
- ▶ Check the setting by triggering once on the sample.
- ▶ Repeat these steps until the desired drive depth has been set.

13.10 Drive staples



WARNING

- Risk of injury due to electrical shock.
- Before triggering, ensure that no electrical line will be hit.



WARNING

- Eye injury or other injury is possible during operation due to flying debris.
- Wear safety glasses and appropriate protective clothing during operation.
 - Observe the applicable worker safety regulations.



WARNING

- Loud operating noises can cause hearing damage.
- Wear suitable hearing protection.
 - Observe the applicable noise protection regulations.
 - Select the lowest possible operating pressure.



WARNING

- Risk of injury due to staple slippage or excess drive depth, or due to recoil.
- Use the stapling device only for carton materials.
 - Hold the stapling device securely during the driving process.

13.11 Triggering the stapling device

To trigger the stapling device, proceed as follows:

- ▶ Set the stapling device so that the carton is between the discharge (6) and the anvil (5)
- ▶ Press the anvil (5) against the carton
- ▶ Press the trigger (1) through the stroke
- ▶ The discharge (6) contacts the carton
- ▶ One staple is driven through the carton and bent at the anvil (5)
- ▶ Release the trigger (1)
- ▶ To drive additional staples, repeat these step



For optimal stapling of 30 mm thick carton, use ZH 16 38. Staples, for 20 mm carton, use ZH 16 30, and for 16 mm carton, use ZH 16 25 staples.

13.12 Select carton thickness

You can set the stapling device for 16 mm, 20 mm, or 30 mm carton thickness. This ensures optimal stapling with a clean closure shape.



WARNING

Accidentally triggering when selecting the carton thickness can cause severe or fatal injury.

Do not point the stapling device at yourself, people or animals.

To select the carton thickness, proceed as follows:

Carton thicknesses are marked on the clip on the unit (10).

- ▶ Open the clamp lever (8) by rotating the lever counterclockwise.
- ▶ Remove the retaining ring (2) on the locking pin (7).
- ▶ Pull out the locking pin (7).
- ▶ Set the two clips (3) so that the holes (9) in the clip (3) align with the hole in the spacer (4) below the desired carton thickness.
- ▶ Insert the locking pin (7) through the aligned holes (9) and install the retaining ring (2) on the locking pin (7).
- ▶ Close the clamp lever (8) by rotating the lever clockwise.

The desired carton thickness is now set.



Carton thickness is set to 30 mm when the holes on the left are aligned. The center holes are for 20 mm and the holes on the right are aligned for carton thickness of 16 mm.

14 After operation

After operation, or in case of longer interruptions in operation, perform the following steps.

14.1 Disconnect the air supply

Remove compressed air hose

- ▶ Pull the quick-connect on the compressed air hose away from the plug nipple.
The quick-connect is now unlocked.
- ▶ Pull the compressed air hose off of the stapling device connector.
The compressed air in the stapling device escapes audibly.

14.2 Empty the magazine

Remove the unused staples from the magazine when you are no longer using the stapling device.

To do so, proceed as follows:

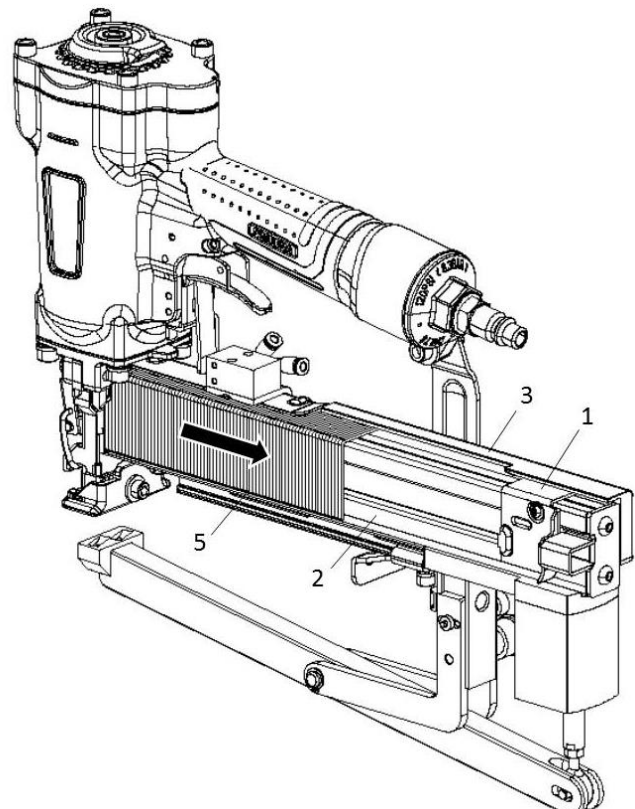


WARNING

Accidentally triggering when emptying the magazine can cause severe or fatal injury.

- ▶ Disconnect the stapling device from the compressed air supply.

- ▶ Open the magazine (see page 17)
- ▶ Slide the staples (5) remaining in the magazine back out of the inlet.
- ▶ Remove the staples remaining in the magazine (2).
- ▶ Close the magazine (see page 19).



15 Transporting and storing the stapling device

15.1 Packing

Package the stapling device before storing or transporting it over the following routes:

- Distances of greater than 10 m
- Routes over precarious ground
- Routes to be taken with unusual posture

To do so, perform the following steps:

- ▶ Disconnect the stapling device from the compressed air supply.
- ▶ Allow the pressure to escape fully from the stapling device.
- ▶ Empty the magazine.
- ▶ Clean the compressed air connectors of foreign objects and impurities if needed.
- ▶ Place the stapling device in the transport case.
- ▶ Close the transport case and lock the cover.

15.2 Transporting

The type of transport is different depending on whether the stapling device is transported over short or long distances.

15.2.1 Transporting over short distances

Short distances are distances of no greater than 10 meters in length.



WARNING

Accidentally triggering can cause severe or fatal injury.

- ▶ Disconnect the stapling device from the compressed air supply before transporting it
- ▶ Always use the handle to carry the stapling device
- ▶ Do not touch the trigger during transport

- ▶ Disconnect the stapling device from the compressed air.

ATTENTION

Bumps or impacts can cause damage to the stapling device.

- ▶ Do not drop the stapling device.
 - ▶ Protect the stapling device from bumping into obstacles.
-
- ▶ Carry the stapling device by the handle with the tip of the tool pointing toward the floor.
 - ▶ Connect the compressed air supply again at the new point of use.



15.3 Transporting over long distances

The following routes are considered to be “long distances” for transporting the stapling device:

- Distances of greater than 10 m
- Routes over precarious ground
- Routes to be taken with unusual posture

To transport the stapling device over long distances, proceed as follows:

- ▶ Pack the stapling device in the included transport case.
- ▶ Carry the transport case by the handle to the desired point of use.
- ▶ Always set the transport case down horizontally, with the cover facing up.

15.4 Storage

- ▶ Oil all metal parts of the stapling device with a thin layer of special oil.
- ▶ Pack the stapling device in the transport case.
- ▶ Store the stapling device in a dry location, protected against dust, at room temperature.

16 Maintaining the stapling device

Maintenance on the stapling device may be performed only by persons who have the necessary knowledge, skills, and experience. All work not described here may be performed only by the manufacturer’s customer service or at the manufacturer.



WARNING

Accidentally triggering while performing maintenance on the stapling device can cause severe or fatal injury.

- ▶ Disconnect the stapling device from the compressed air supply before performing maintenance
- ▶ Empty the magazine before performing.

16.1 Clean the housing and outer surfaces

ATTENTION

Damage to the stapling device or accessories from unsuitable cleaning agents.

- ▶ Use only a cloth that is dry, slightly damp, or dampened with a mild soap solution for cleaning.

16.1.1 Light soiling

- ▶ Wipe down the housing of the stapling device with a dry cloth.
- ▶ Oil all metal parts of the stapling device with a thin layer of special oil.

16.1.2 Heavy soiling

- ▶ Wipe down the housing of the stapling device with a cloth that has been slightly dampened with mild soap solution.
- ▶ Then wipe down the housing with a cloth that has been slightly dampened with tap water.
- ▶ Dry it off with a soft, dry cloth.
- ▶ Oil all metal parts of the stapling device with a thin layer of special oil.

16.2 Oiling the stapling device

ATTENTION

Insufficient lubrication, or use of incorrect lubricants, can cause damage to the stapling device.

- ▶ Use only special oil.



If there is no oiler installed, and the length of the air line to the stapling device is over 10 m, sufficient lubrication is not guaranteed.

- ▶ In these two cases, add two to five drops of special oil directly into the compressed air connector every day before starting operation.

ATTENTION

If the oil spills, there is a risk of environmental damage.

- ▶ Bind the spilled oil with a binding agent.
- ▶ Wipe up bound oil with rags.
- ▶ Dispose of the rags in accordance with the applicable legal regulations at the site.

17 Faults



In the event of a fault that goes beyond jammed brackets, please contact us. The stapler is carefully examined by our specialists and the malfunction is rectified.



WARNING

Operating a damaged or faulted stapling device can cause severe or fatal injury.

- ▶ Disconnect the stapling device from the compressed air supply in case of fault.
- ▶ Empty the magazine.
- ▶ Do not use the stapling device until the fault has been corrected.

ATTENTION

The stapling device can be damaged by repairs performed by unauthorized persons.

- ▶ Make sure that repairs to the stapling device are performed only by the manufacturer.

Remove any staples from inside the stapler and clean the stapler.

- Use a suitable tool to remove any visible staples in the staple exit opening. Do not overload or damage the device! In difficult cases, open the magazine and pull the clips upwards.
- Make sure that the staple exit opening is not damaged.
- Replace damaged or worn stapler.
- Reconnect compressed air
- Make sure the air pressure is set correctly

17.1 Removing jammed staples

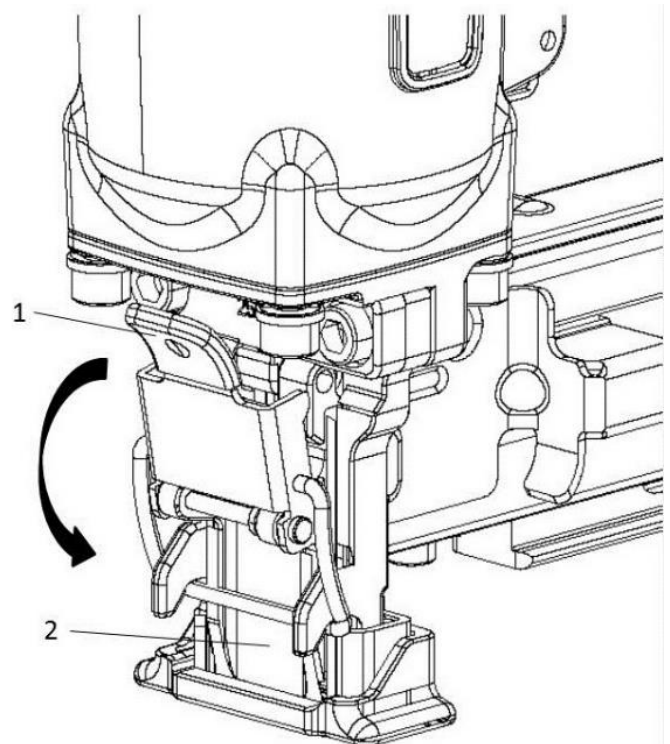
The stapling device has a removable cover plate at the tip of the tool. This can be used to remove jammed or deformed staples from the tip of the tool.

To remove a jammed staples, proceed as follows:

- ▶ Disconnect the stapling device from the compressed air supply.
- ▶ Empty the magazine.

Unlock the clamp closure (1) and lift up the cover plate (2).

- ▶ Remove the jammed or deformed staples.
- ▶ Return the cover plate (2) to the starting position and latch the clamp closure (1).
- ▶ Load the magazine as described starting on page 17.
- ▶ Connect the compressed air supply (see page **Fehler! Textmarke nicht definiert.**).
- ▶ Check the condition of the stapling device (see page 20).



If the fault cannot be corrected, contact your dealer or the manufacturer.

17.2 Other faults

If a fault has occurred with the stapling device that you cannot correct by oiling and cleaning, then you must inform Service.

- ▶ Do not perform any repairs on the stapling device.
- ▶ Make sure that all faults on the stapling device have been corrected by Service.

17.3 Fault overview

Potential faults and the necessary corrective measures are listed in the following overview:

Symptom	Potential cause	Remedy
Stapling device is losing air.	Attachment screws are loose.	▶ Tighten attachment screws.
	A seal is defective.	▶ Inform customer service.
Staples are not driven in fully.	Operating pressure is too low.	▶ Increase operating pressure (see page 21).
	The driver tip on the stapling device is worn down.	▶ Inform customer service.
Triggering is not possible.	Operating pressure is too low.	<ul style="list-style-type: none"> ▶ Increase the operating pressure of the compressed air system to the maximum permissible operating pressure. ▶ Increase the operating pressure at the stapling device to the maximum permissible operating pressure. ▶ Then trigger several times. ▶ If triggering works, set to the desired operating pressure (see page 21).
	Moving parts are stuck with lubricant after a long period of storage.	<ul style="list-style-type: none"> ▶ Clean the stapling device and apply oil. ▶ Set maximum operating pressure. ▶ Then trigger several times. ▶ If triggering works, set to the desired operating pressure (see page 21). ▶ Otherwise, inform customer service.
Triggers without driving a staples (blank shot).	The pusher spring is defective.	▶ Inform customer service.
	The magazine is dirty.	▶ Clean the magazine.
	Incorrect staples loaded in the magazine.	<ul style="list-style-type: none"> ▶ Empty the magazine. ▶ Fill the magazine with staples (starting on page 17).

Symptom	Potential cause	Remedy
	The stapling device is not being sufficiently lubricated.	<ul style="list-style-type: none"> ▶ Add special oil to the compressed air connection in use. ▶ Trigger several times.
	Operating pressure is too low.	<ul style="list-style-type: none"> ▶ Increase operating pressure (see page 21).
	The piston with the driver does not return to the initial position after the driving process.	<ul style="list-style-type: none"> ▶ Inform customer service.
	The triggering process is not completed.	<ul style="list-style-type: none"> ▶ Inform customer service.
	The driver is bent.	<ul style="list-style-type: none"> ▶ Inform customer service.
	A staples is jammed.	<ul style="list-style-type: none"> ▶ Remove jammed staples. ▶ Otherwise, inform customer service.

If the fault cannot be corrected, contact your dealer or the manufacturer.

17.4 staples

Only the Original MEZGER staples ZH 16 may be used with the stapling device.

Type	Wire	Crown size	Leg length
ZH 16 25	2,2 mm	23 mm	25 mm
ZH 16 30	2,2 mm	23 mm	30 mm
ZH 16 38	2,2 mm	23 mm	38 mm

18 Disposing of the stapling device

ATTENTION

Environmental damage can occur if the unit is not disposed of in an environmentally friendly manner.

- ▶ Clean the stapling device before disposal (see page 26).
- ▶ Observe the applicable regulations on the disposal of oil.



Do not throw away the stapling device or parts thereof with normal household trash. If you want to dispose of the stapling device, send it back to us. MEZGER will handle disposal of the stapling device, as well.

19 Technical data

Dimensions (L x W x H)	360 x 90 x 300 mm
Weight of stapling device:	3,6 kg
Working pressure:	5–8 bar
Air consumption:	1.45 liter / drive cycle
Type of magazine:	Top loader
Triggering system	Contact trigger
Staples	staple Type ZH 16
Temperature	-5 °C to +45 °C
Storage & transport temperature	Room temperature

Bezeichnung der Maschine:

**Eintreibgerät
schweres Klammergerät**

Description of machine:

**Fastener Driving Tool
heavy duty stapler**

Dénomination de la machine:

**Machine à enfoncer la fixation
agrafeuse lourde**

Maschinen Typ:

Machine type

Z 23 P

Modèle de la machine:

TECHNISCHE DATEN

Maße L x B x H

360 x 98 x 312 mm

Gewicht

3.60 kg

Arbeitsdruck

5 - 8 bar

max. Betriebsdruck 8.3 bar

Luftverbrauch

1.49 l/Eintreibvorgang bei 7 bar

Geräuschkennwerte

(nach EN 12549)

LWA, 1s = 93.7 dB

LpA, 1s = 80.7 dB

LpC, peak = <130 dB

Vibrationskennwert 2.88 m/s²

Unsicherheit 1.44 m/s²

(nach ISO 8662-11)

Auslösesystem

Kontaktauslösung

TECHNICAL DESCRIPTION

Dimensions L x W x H

360 x 98 x 312 mm

Weight

3.60 kg

Working pressure

72.5 – 116 psi

max. Operating pressure 120 psi

Air consumption

1.49 l/driving procedure at 101.5 psi

Noise characteristics

(according to EN 12549)

LWA, 1s = 93.7 dB

LpA, 1s = 80.7 dB

LpC, peak = <130 dB

Vibration value 2.88 m/s²

Uncertainty 1.44 m/s²

(according to ISO 8662-11)

Triggering system

Contact trigger

DONNÉES TECHNIQUES

Dimensions L x L x H

360 x 98 x 312 mm

Poids

3.60 kg

Pression d'utilisation

5 – 8 bar

Pression de service max. 8.3 bar

Consommation d'air

1.49 l/processus d'opération à 7 bar

Caractéristiques Acoustiques

(selon EN 12549)

LWA, 1s = 93.7 dB

LpA, 1s = 80.7 dB

LpC, peak = <130 dB

Caractéristique de Vibration 2.88 m/s²

Incertitude 1.44 m/s²

(selon ISO 8662-11)

Système de déclenchement

Déclenchement à contact

20 Notice of residual risks



Compressed air connections must be checked regularly.



Bei betriebsfähigem Heftgerät darf nicht in den Heftbereich, bzw. an die Klammernautrittsöffnung, gefasst werden! VERLETZUNGSGEFAHR!



The stapler must be depressurized when working on the compressed air connections and hoses.



Never point the stapler at yourself or at anyone else



**Protect the stapler from moisture!
Do not operate in a wet or damp environment!
Only operate inside buildings!**

21 Technical documentation

Repairs performed by:
MEZGER Heftsysteme GmbH
or
authorized professional companies

Damages which are caused in particular by natural wear and tear, overloading, misuse or damage caused by the user or other use contrary to the operating instructions will be excluded from the warranty.

Keep the operating instructions, safety instructions, parts list and proof of purchase in a safe place.

Order form for spare and wear parts

MEZGER Heftsysteme GmbH

Staples, staplers and stapling machines

Saganer Strasse 24, 90475 Nuremberg

Tel.: 0049 (0)911 / 984 94 0

Fax: 0049 (0)911 / 984 94 30

e-Mail: info@mezger.eu

Spare Parts Ordering

Customer - order - No:

Name of the system / tool:

Spare parts lists - No.:

Current as of:

Pos. - No.	Description / Dimension Type / DIN	Order ID - No.:	Order quantity	Delivery date

Shipping address: / Attn. _____

21.1 Spare parts

s. separate list

21.2 Declaration of Conformity



EG-Konformitätserklärung
EC-Declaration of Conformity
CE-Déclaration de Conformité

de Originalbetriebsanleitung
en Original instructions
fr Notice original

Hersteller: PREBENA GmbH & Co. KG
Manufacturer's name: Seestraße 20 – 26
Fabricant: 63679 – Schotten, Germany

Hiermit erklären wir, dass die nachfolgend bezeichnete Maschine in ihrer Konzipierung und Bauart sowie in der von uns in Verkehr gebrachten Ausführung den nachfolgend genannten maßgebenden EG-Richtlinien, harmonisierten Normen und anderen einschlägigen technischen Standards entspricht:

Angewandte Richtlinien: Maschinenrichtlinie 2006/42/EG

Angewandte harmonisierte Normen: EN ISO 12100:2010, EN ISO 11148-13:2018,
EN 12549:1999+A1:2008, ISO 8662-11:1999/Amd.1:2001

Bei einer nicht mit uns abgestimmten Änderung der Maschine verliert diese Erklärung ihre Gültigkeit.

We hereby declare that the design and construction of the following described machines in their original factory configuration are in full conformity with the following list of EU guidelines, harmonized standards as well as other relevant technical standards:

Applied directives: Machine directive: 2006/42/EC

Applied harmonized standards: EN ISO 12100:2010, EN ISO 11148-13:2018,
EN 12549:1999+A1:2008, ISO 8662-11:1999/Amd.1:2001

Any unauthorised modifications to the machine nullify the validity of this declaration.

Nous déclarons par la présente que la machine ci-après désignée, par sa conception, sa construction et sa configuration, telle que mise en circulation par nos usines, est conforme aux Directives CEE, normes harmonies, es et autres normes techniques y afférentes ci-dessous mentionnées:

Directives appliquées: Directive aux machines 2006/42/CE

Normes harmonisées appliquées: EN ISO 12100:2010, EN ISO 11148-13:2018,
EN 12549:1999+A1:2008, ISO 8662-11:1999/Amd.1:2001

Toute modification de la machine, si elle n'est pas convenue avec nous, donne lieu à la nullité de la présente déclaration.

Bezeichnung der Maschine: Druckluftbetriebenes Eintreibgerät
Description of machine: PNEUMATIC FASTENER DRIVING TOOL
Dénomination de la machine: APPAREILS DE POSE PNEUMATIQUE

Maschinen Typ:
Machine type: **Z 23 P**
Modèle de la machine:

Maschinen-Nr.:
Machine Number:
Numéro de la machine:

Bevollmächtigter für die Zusammenstellung der technischen Dokumentation:
Authorized person to compile the technical documentation:
Mandataire pour la composition de la documentation technique:

Herr K.-H. Vierheller
Seestraße 20 – 26
63679 – Schotten, Germany



Schotten, Germany

Ort / Place / Lieu

Datum / Date / Date

Unterschrift / Signature / Signature CE-Officer