

EFA bung dropper



EFA 202

EFA 203

EFA 204



Translation of the original operating instructions

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Any changes or amendments to these operating instructions are only allowed to be made by us; otherwise any warranty claim against us will be void.

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1 Introduction and general information

Important!

**Operating instructions
cannot prevent misuse in
every case!**

1.1 Information on the operating instructions

These operating instructions are part of the technical documentation of the machine and comply with the Machinery Directive.

The machine has been designed and built according to the careful selection of the harmonising standards to be observed as well as other technical specifications.

The operating instructions are intended to describe the operation and handling of the **EFA bung dropper** and provide the necessary safety instructions.

These operating instructions are intended for the machine operator and contain the details of the intended use and important information:

- for safe handling of the machine,
- for maintenance,
- for cleaning.

If the instructions are followed, the EFA bung dropper will be operated safely, properly and economically and its operational capability will be maintained.

Observance of these instructions helps to avoid dangers, minimise repair costs and downtimes, and increase the reliability and service life of the machine.

A prerequisite for safe handling and trouble-free operation of the machine is observance of the following:

- the operating instructions,
- the company directives (safety signs and danger warnings),
- the legal provisions on occupational safety,
- the applicable laws and regulations.

These operating instructions must always be kept accessible at the machine for all work to be carried out.

Note!

If the existing operating instructions have been damaged or lost, you can request a replacement by stating: machine designation, part number, serial number and year of production, see *section 3.2 Nameplate*.

If you have any questions, or if you cannot solve a problem with the help of these operating instructions, please contact our Service department.

1.2 User group

Only instructed and/or trained personnel over 16 years of age are allowed to set up or operate the **EFA bung dropper**. Furthermore, it is imperative that everyone working with and on the machine has read and understood the operating instructions, and observes them.

The operation of the blade by persons who are under the influence of alcohol, medication, or drugs is strictly prohibited.

Instructed person

Persons over 16 years of age who have been instructed and trained by a qualified person (specialist) in the tasks assigned to them and about possible dangers in the event of improper behaviour, as well as in the handling of the necessary protective devices and protective measures, are considered to be instructed persons.

Trained person (specialist personnel)

Persons who have obtained a professional qualification and have demonstrated this by checking the results or passing an examination are considered to be trained persons.

1.3 Scope of supply

Upon receipt of the delivery, check immediately whether the scope of supply corresponds to the accompanying documents.

Submit a complaint in the event of:

- apparent transport damage immediately to the supplier,
- apparent defects/missing items, to **Schmid & Wezel GmbH**.

These operating instructions describe the **EFA bung dropper** with all possible options.

Options are not necessarily included in the scope of supply and can only be retrofitted to a limited extent.

1.4 Intended use

Danger!



Never point the device at people!

Danger!



Never reach into the cutting area of the blade, you could injure yourself!



Wear eye protection such as protective goggles when working!

Areas of application

The **EFA 202**, **EFA 203** and **EFA 204** bung droppers are operated with compressed air and are suitable for freeing of the bung of pigs, sheep and hogs.

These machines are not equipped for a different type of use. Should the user desire to use the equipment for a different purpose than intended, please contact **Schmid & Wezel GmbH (S&W)**. For all other types of use, the user must be advised of the inherent accident hazard and increased wear. **In the event of non-compliance, the liability shall be borne by the user alone.**

The bung dropper is only allowed to be used:

- in a fully functional and perfect technical state, in line with the intended use, in consideration of all of the safety- and hazard-relevant aspects,
- with properly functioning safety devices,
- with the equipment approved by the manufacturer.

Do not use materials harmful to health.

If, contrary to the intended use, materials harmful to health are to be processed then **Schmid & Wezel GmbH** must be informed in writing about the planned use and the protective measures taken by the customer/operating company.

The customer/operating company is solely responsible for suitable protective measures (e.g. extraction devices, respiratory protection, protective suits, etc.) and company directives.

If the **EFA bung dropper** is not used as intended or is modified without the approval of **Schmid & Wezel GmbH**, persons could be injured and the machine damaged.

The operating permit is invalidated.

The intended use includes in particular that you:

- Observe the operating instructions and company directives,
- Observe maintenance instructions and intervals,
- Immediately rectify any faults that impair safety,
- Do not operate the blade if safe working with it is not possible,
- Do not make any structural changes to the blade without authorisation.

Danger!



The blade can be hazardous if it is used by untrained persons, in an improper manner, or for purposes that are not in line with the intended use.

Residual hazards

There is a risk of injury from the rotating blade. Remain focused and act with caution when working. Wear personal protective equipment

As the bung dropper is intended for industrial use on carcasses, there is a possibility of injury or, in case of gross misuse, of fatal injury due to blood loss.

1.5 Claims for defects, liability, warranty

Warranty and liability claims for personal injury and damage to property are excluded in particular in the following cases:

- Improper use or unsuitable use,
- Improper transport or storage,
- Improper assembly and/or initial start-up,
- Improper operation (operating errors),
- Disregarding of operating instructions/company directives,
- Faulty or negligent handling,
- Improper maintenance/repair,
- Unsuitable equipment or spare parts that are not approved by **Schmid & Wezel GmbH** Maschinenfabrik,
- Natural wear and tear,
- Improper or unprofessional rectification of defects by the customer/operating company or third parties,
- Unauthorised structural changes to the machine without written permission from **Schmid & Wezel GmbH**,
- Chemical, electrochemical or electrical influences – unless they are the responsibility of **Schmid & Wezel GmbH**.

Liability

The manufacturer accepts no liability for accidents, machine damage and consequences of machine failure resulting from failure to observe the operating instructions. In addition, the local accident prevention regulations and general safety regulations for the area of application of the machine apply.

Limitation of liability

All technical information, data and instructions for the operation of the machine contained in the operating instructions are up to date at the time of delivery. They are provided to the best of the manufacturer's knowledge, taking into account previous experience and knowledge. The manufacturer reserves the right to make technical modifications in the course of further development of the machine described in these operating instructions. No claims can therefore be derived from the information, figures and descriptions in these operating instructions. The manufacturer shall be liable for any errors or omissions within the scope of the warranty obligations entered into in the contract, to the exclusion of further claims.

Claims for damages are excluded, irrespective of the legal basis on which such claims are derived. Only the text of the **original operating instructions** is authoritative.

The textual and graphical representation in the operating instructions does not necessarily correspond to the scope of supply or a spare parts order. Illustrations in these instructions are not to scale.

Technical changes

The manufacturer **Schmid & Wezel GmbH** reserves the right to make technical changes within the scope of improving the usage properties and further development without prior notice. Figures are for basic understanding and could differ from the actual design of the system.

Copyright

The manufacturer reserves the copyright to these operating instructions. These operating instructions are intended for assembly, operating, maintenance and monitoring personnel.

Transferring the operating instructions to third parties without the written consent of the manufacturer **Schmid & Wezel GmbH** is not permitted. Duplication in any kind and form – in whole or in part – as well as the use and/or communication of the contents are not permitted without written declaration of the manufacturer.

Note!



All content, texts, drawings, pictures and other representations are protected by copyright and are subject to industrial property rights.
Any improper use may be punishable!

2 Safety

Everyone who is involved in the installation, start-up, operation, set-up, equipping and maintenance of the machine in the operating company must have read and understood the operating instructions, in particular the "Safety" chapter.

Safe operation of the machine is only guaranteed if:

- Unauthorised persons are kept away from the working area of the machine,
- Safe working with awareness of the dangers involved is regularly checked in accordance with the operating instructions,
- No working methods are employed that could compromise safety,
- Malfunctions in the machine are eliminated immediately,
- Maintenance work is carried out regularly.

Important!



The operating instructions must be accessible at all times during the entire period of use of the machine for the operating, maintenance and cleaning personnel. Therefore, always keep these operating instructions close to the machine.

First aid!

Important!



In the event of an accident, provide **FIRST AID!**






- Keep calm!
- Remove injured persons from the danger area without endangering yourself!
- Inform other employees (first-aiders, paramedics) or request help!

2.1 Safety instructions



During the use of the machine, dangers could arise in certain situations or through certain behaviour.

The measures described to protect against dangers must be observed.

The safety instructions are identified as shown in the following tables (pictograms).






Symbol/ pictogram	Signal word	Damage/ injury to . . .	Definition	Possible consequences of disregarding the safety instructions
	Danger	Persons	Imminent danger	Death, serious bodily injury or substantial damage to property
	Warning	Persons	Potentially dangerous situation	Death or serious bodily injury could occur
	Caution	Persons	Less dangerous situation	Slight or minor injuries
	Attention	Property	Potentially harmful situation	Damage to the product or its environment
	Information	-	Application tips and other important/useful information and notes	No dangerous/harmful situation

2.1.1 Other safety signs








Symbol	Meaning
	Mark of conformity! The machine complies with the applicable regulations of the EC Machinery Directive
	Recyclable materials! Ensure that the materials are recycled properly!

2.1.2 Warning signs


Warnings and symbols used in the operating instructions and documentation are intended to help you to recognise and assess the dangers more easily.

Symbol	Meaning
	Warning: Dangerous electrical voltage! Touching live parts can result in immediate death. Covers or cabinets marked with this sign are only allowed to be opened by qualified electricians after the machine has been switched off.
	Warning: Sharp cutting tool! Contact with the running cutting tool will lead to extremely severe cutting injuries involving permanent or even fatal injury. Ensure that a sufficient safety distance is maintained. Contact with the stationary cutting tool could lead to severe cutting injuries involving permanent injury. Wear safety gloves. Ensure that a safety distance is maintained.
	Warning: Hand injuries! There is a danger of hands being pinched, pulled in or otherwise injured. Keep your hands away from places that bear this warning sign!
	Warning: Noise with high sound pressure level! If the sound pressure level at the workplace is above 85 dB(A). Remaining for a relatively long period can cause permanent hearing damage. Only enter the area if wearing the correct hearing protection.
	Warning of hot surface! It is not always possible to notice the presence of hot machine parts, containers or materials, as well as hot liquids. If such a safety sign is affixed to a component, care must be taken. Do not touch hot surfaces without protective gloves.

2.1.3 Mandatory instruction signs

Symbol	Meaning
	General mandatory instruction sign! Observe company directives, notes in operating instructions and generally applicable safety regulations.
	Wear cut-resistant gloves! Cutting injuries possible. Provide information about suitable cut-resistant gloves.
	Use safety shoes! Safety shoes form part of the personal protective equipment and provide protection for the health of the worker. They prevent accidents and injuries such as crushing by heavy objects.
	Wear a protective helmet! Head injuries are possible due to objects falling, tipping over or being thrown out, or due to swinging loads; bumping into obstacles also represents a danger. A suitable protective helmet must always be worn on the head when in the indicated area.
	Wear protective goggles! Eye injuries (loss of vision) possible when working due to flying solid objects.
	Wear hearing protection! If the continuous sound pressure level of the machine/system is above 85 dB(A), hearing protection must be worn to prevent permanent hearing damage.
	Wear protective clothing! Protection against contact with auxiliary or working equipment. Find out about suitable protective clothing.

2.1.4 Prohibition sign

Symbol	Meaning
	General prohibition sign! The red signal border/prohibition stripe indicates an immediate danger and is overlaid diagonally over the self-explanatory symbol. The general prohibition sign must always be used in conjunction with another sign.

2.2 Personal protective equipment

Some work requires protective equipment.

This protective equipment must be made available to the operator.

Lifecycle phase	Protective equipment
Transport	<ul style="list-style-type: none"> Protective gloves Safety shoes
Assembly, start-up and maintenance	<ul style="list-style-type: none"> Protective gloves or cut-resistant gloves Safety shoes Protective goggles Hearing protection Hairnet (for long hair)
Operation	<ul style="list-style-type: none"> Hairnet (for long hair) Protective gloves or cut-resistant gloves Safety shoes Protective goggles Hearing protection Hairnet (for long hair) Protective clothing
Storage	<ul style="list-style-type: none"> Protective gloves Safety shoes
Disposal	<ul style="list-style-type: none"> Protective gloves Safety shoes

2.3 Conduct at the workplace

The workplaces must be designed in such a way that each employee has at least 1.5 m² of freedom of movement. Ensure proper lighting of the workplace (at least 500 lux).

No other workplace should protrude into this area, otherwise there is an injury hazard due to the actions carried out with the bung dropper.

The floor must minimise the danger of slipping on wet, greasy or dirty surfaces.

The workplace must comply with local hygiene and workplace regulations.

- Keep your workplace tidy and in good working condition. A cluttered or messy workplace can lead to accidents.
- Take environmental influences into account.
- Keep other persons away from your workplace. Focus on the job in hand when working.
- Do not use the EFA bung dropper when you are tired and/or unfocused.
- Store the bung dropper in a safe manner. Store unused devices in a dry place.
- Avoid wearing loosely fitting items of clothing and jewellery that can be caught by moving parts. Wear sturdy shoes during your work. Always wear a hairnet!
- Ensure that your workplace has a correct, ergonomic set-up and make sure that you are standing securely.
- Look after your tools with care. Use only a sharp and undamaged EFA blade so that you can work better and more safely.
- Only use genuine EFA accessories/spare parts.
- Changes and modifications to the machine are not permitted and, if any such changes are made, **S&W's** guarantee and liability shall be invalidated.

The use of other equipment, accessories or spare parts can endanger you and other persons.





Non-compliance will void the warranty.

3 Technical description

Tab. 3.1 – Technical data

Description	EFA bung dropper						
	EFA 202 008010248		EFA 203 008010249		EFA 204 008011806		
Operating pressure	bar	6					
Air consumption	l/min	520					
Blade rotations	rpm	1400					
Power	W	480					
Sound pressure level	dB(A)	L _{pA} = 77	K _{pA} = 3	L _{pA} = 76	K _{pA} = 3	L _{pA} = 77	K _{pA} = 3
Sound power level	dB(A)	L _{WA} = 88	K _{WA} = 3	L _{WA} = 87	K _{WA} = 3	L _{WA} = 88	K _{WA} = 3
Peak sound pressure level	dB(A)	L _{pCpeak} = 93.7	K _{pCpeak} = 3	L _{pCpeak} = 94.9	K _{pCpeak} = 3	L _{pCpeak} = 94.2	K _{pCpeak} = 3
Hand-arm vibration	m/s²	a _{hd} = 1.3	K = 0.16	a _{hd} = 0.9	K = 0.08	a _{hd} = 1.24	K = 0.19
Weight	kg	4.0					

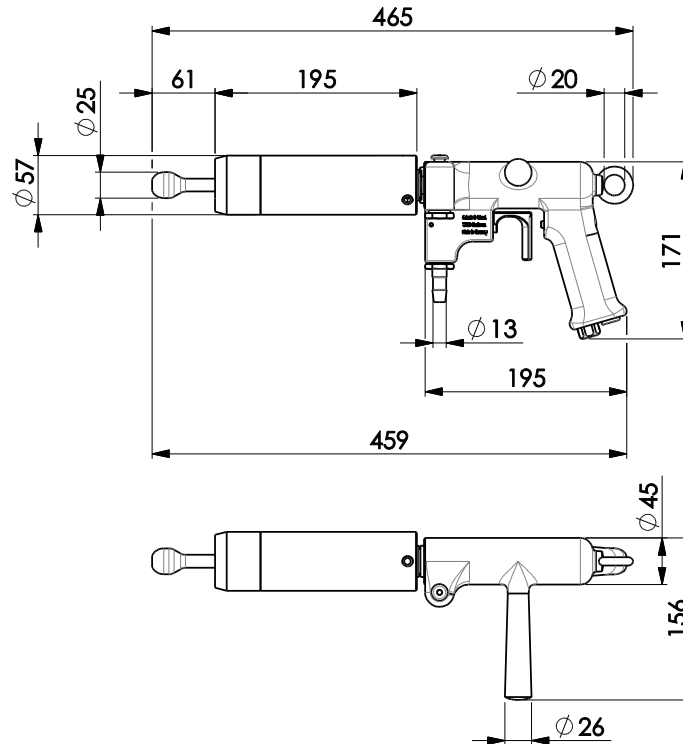
Tab. 3.2 – EFA bung dropper

EFA bung dropper	Usage	Application
EFA 202 / EFA 203 008010248 / 008010249 		Bung dropper The bung droppers described here are suitable for freeing of the bung with an hourly output of up to 500 pigs (hogs) when used with the appropriate blade.
EFA 204 008011806 		Bung dropper The bung dropper described here is suitable for freeing of the bung with an hourly output of up to 500 sheep when used with the appropriate blade.

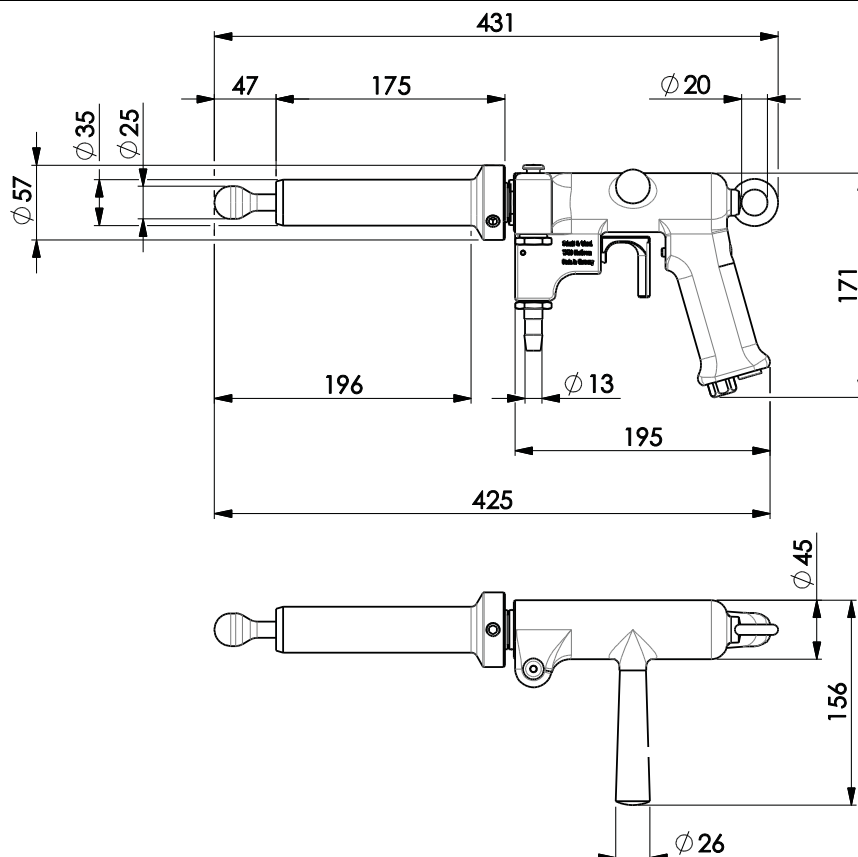
3.1 Dimensions

The following figures give you an overview of the dimensions of the machine.

Bung dropper EFA 202 – part no. 008010248
Bung dropper EFA 203 – part no. 008010249



Bung dropper EFA 204 – part no. 008011806



3.2 Nameplate

The nameplate is attached to the machine and contains information on the machine performance.
 The following figure shows an example of the nameplate for the EFA machines.

Machine designation		Masch.-Bez.: XXXX		Bj.: XXXX		Year of production	
Part number		Art.-Nr.: XXXX		Typ: XXXX			
Serial number		S/N: XXX		min ⁻¹		V	
		A		W		Hz	
		kg		IP		CE	

4 Transport and storage

The machine has been tested and carefully checked in our factory before shipment.

The test ensures that the machine is working properly.

Despite all care taken, there is a possibility that the machine could be damaged during transport.

Therefore, check the machine for possible transport damage when unpacking it.

Warning!



Safety instruction!

Do not remove the cutting edge guard for the blade until just before start-up.

Unpacking the machine

- Remove all packaging materials and dispose of them in a professional and environmentally friendly manner.
- Check the machine for possible transport damage.
- Information on *disposal and recycling* can be found in *chapter 11*.

Storage of the machine

For safe storage of the machine, it is essential to observe the following instructions:

- Only store the machine in a dry, ventilated room.
- Only store the machine in a clean and dry condition.
- Protect the machine from corrosion.

5 Connection and start-up

5.1 Initial start-up

Danger!



Ensure that the bung dropper is switched off prior to connecting it to the plant network.

Caution!



Installation work is only allowed to be carried out by authorised specialist personnel.

Danger!



Do not come in contact with the blade, you could cut off limbs!

Danger!



Depressurise the air hose before carrying out assembly work.

Warning!



Wear eye protection or protective goggles when working!



Also wear protective gloves during your work!

5.1.1 Spring balancer

The bung dropper must always be operated in combination with a weight relief device (spring balancer).

The spring balancer is secured with a safety chain (2), see Fig. 5.2, which must be secured in a fixed position irrespective of how the spring balancer is suspended.

The bung dropper should be positioned above the workplace on the spring balancer.

Use a trolley to attach the spring balancer to a higher element above the workplace or to the ceiling.

Hang the bung dropper with the head uppermost if possible.

The height can be readjusted if necessary.

Danger!



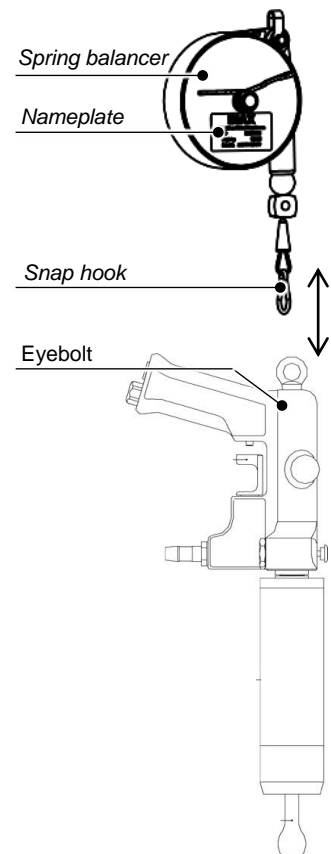
Due to the weight of about 4 kg, there could be a hazard due to the machine slipping or falling when the weight relief device is attached or detached.

Danger!



Please note that if the rope rebounds when unloaded, it is very dangerous for people and the return spring of the spring balancer will also be irreparably damaged. The maximum load specified on the nameplate must not be exceeded.

For complete information about the spring balancer, read the corresponding operating instructions for it.



Setting the load

The fine-tuning (load setting) of the spring balancer is carried out by turning the hexagon head screw in direction plus/minus (+/-) (1) see. Fig. 5.2.

- To do this, turn the screw with the 17 mm socket wrench (1) in the direction of minus (-) until the device is freely suspended and balanced at working height.

If it is not possible to pull out, the spring balancer is blocked and readjustment is necessary.

- Turn the screw with the socket wrench in the direction of plus (+) until pulling out is possible and start the fine adjustment again.

When the bung dropper is not in use, place it in such a way that there is no accidental contact with the blade.

Fig. 5.1 – Weight relief system (spring balancer)

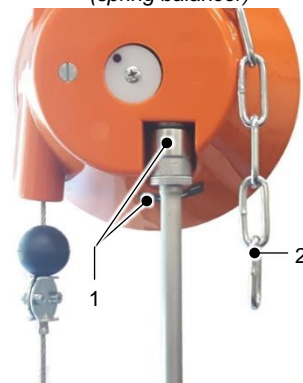


Fig. 5.2 – Fine-tuning of the spring balancer

5.1.2 Oil mist lubricator

The bung dropper is operated with compressed air.

The connection must be made via an oil mist lubricator R 3/8", see Fig. 5.3.

The supply line for the connection of a bung dropper must have a minimum clear width of 13 mm.

Caution!



Tripping hazard!

We recommend that the lines are led away upwards.
 Lines that run along the floor can be a tripping hazard for the worker!

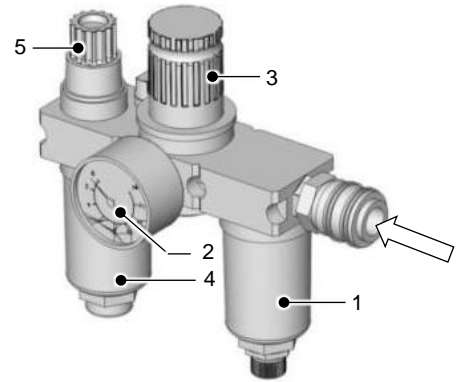


Fig. 5.3 – Oil mist lubricator

To ensure lubrication of the pneumatic motor, the oil mist lubricator must be set to 2 – 3 drops of oil per minute.

For proper functioning and to maintain the appropriate service life of the bung dropper, the oil mist lubricator must be checked at regular intervals and the water separator must be emptied.

Check at regular intervals, min. 2x per month, remove the condensation and top up with special oil.

For complete information about the oil mist lubricator, read the operating instructions supplied with it.

5.1.3 Connecting the bung dropper

The bung dropper is supplied by the factory in a state that it is immediately ready for use.

Danger!



Observe the assembly sequence!

Danger!



Do not leave a tool key in the machine!

Representation, see Appendix A1 – Installation diagram

- Connect the bung dropper to an oil mist lubricator (accessories) with an air hose (accessories). Mount the oil mist lubricator in the following order: – Water separator (1), – Pressure gauge (2) with regulator (3), – Oiler (4) with dosing screw (5), see Fig. 5.3 Oil mist lubricator.
 Setting while the device is running to: **P = 6 bar** and **2 – 3 drops of oil per minute**.
- Connect the bung dropper to the vacuum system (special accessories) using a vacuum hose (accessories).
- The bung dropper must be mounted on a spring balancer (special accessories) for safe working, see Fig. 5.1.1 Spring balancer.
- Connect the vacuum system to the mains.

5.2 Machine overview

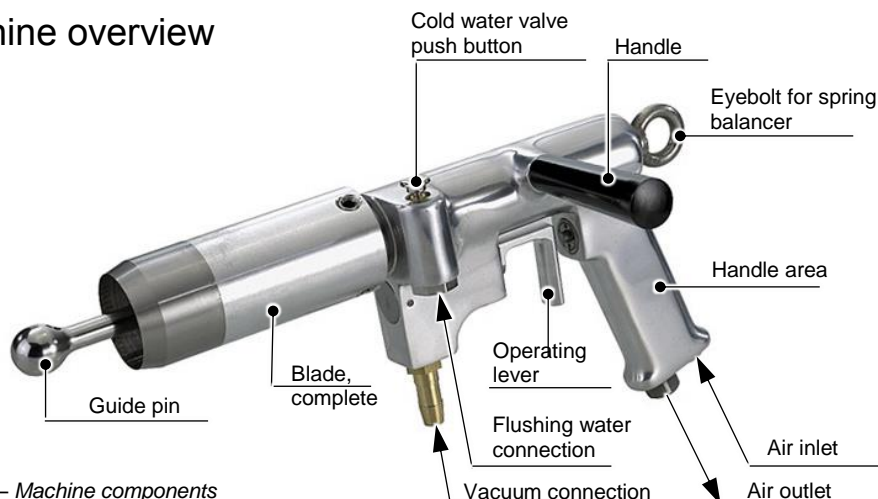


Fig. 5.4 – Machine components

6 Handling

6.1 Switch operation

Warning!



Injury hazard!

Only switch on the bung dropper when you are holding both handles securely and the blade is firmly seated.

Important!



The bung dropper must not be used before the operator has read these operating instructions and the device has been connected correctly!

Important!



Wear tight-fitting clothes!

Caution!



Tripping hazard!

We recommend that the lines are led away upwards. Lines that run along the floor can be a tripping hazard for the worker!

The bung dropper is equipped with a valve lever (1) for switching on and off, see Fig. 6.1.

Switching on

- Hold the device securely by both handles (2) and (3).
- Press the operating lever (1) "ON".

Switching off

- Release the operating lever (1) "OFF".

The machine can be switched on and off at any time.



Fig. 6.1 – Operating lever

6.2 Working with the bung dropper

Danger!



Never point the device at people!

Danger!



Never reach into the rotating blade. You could cut off limbs!

Warning!



Wear eye protection or protective goggles when working!



Hearing protection is recommended for continuous operation!



Also wear protective gloves during your work!

6.2.1 Preparation

Before starting work, it is necessary to check whether:

- the operating data of the compressed air supply and the device match,
- the bung dropper is in working order,
- the blade turns,
- the switches and valves are working,
- the vacuum system is switched on and there is sufficient pressure at the bung dropper,
- the general safety instructions are observed, see section 2.1.

6.2.2 Operation

- 1) Insert the cutter with the guide pin (3) into the intestine of the animal.

- 2) Press the operating lever (1), the intestine is held by the vacuum while the rotating blade (2) makes the cut.
- 3) Release the operating lever (1), switch off the rotating blade (2) and the vacuum.
 If the vacuum is not turned off, faeces will emerge from the intestine.

If work is interrupted for a longer period of time, disconnect the machine from the compressed air network.



Fig. 6.2 – Working with the bung dropper

6.2.3 Operational safety

Bung dropper

- Hold the machine securely by both handles (4 + 5). Never work one-handedly without the additional handle (4).
- Be especially careful when switched on.
- Never operate the operating lever when the device is not in use.
- After switching off, the bung dropper comes to a standstill within 3 s.
- For safe handling (guiding), the bung dropper must be suspended from a spring balancer, see section 5.1.1 Spring balancer.

Vacuum system

- Never connect the vacuum system to the compressed air network.
- Never place the open end of the vacuum hose on any part of the body.
- Never exceed the max. capacity of the tank.
- Only switch on the vacuum motor while working with the cutting device.

For complete information about the vacuum system, read the operating instructions supplied with it.

7 Assembly

Danger!



Assembly work is only allowed to be carried out by authorised specialist personnel.

Warning!



Wear cut-resistant gloves, safety shoes and protective goggles during all assembly work or when sharpening the blades.

Danger!



Disconnect the device from the compressed air network prior to performing any assembly work!

Danger!



Observe the assembly sequence!

7.1 Change of blades

Danger!



Never reach into the cutting area of the rotating blades, otherwise you could cut off limbs!

Warning!



Only use a genuine EFA blade!

- 1) Unscrew screws (1), 3x, one after the other.
- 2) Pull the blade (2) off the hexagonal holding fixture.
- 3) Assembly in reverse order.
 - Tighten the 3 screws (1) evenly.
 - Ensure that the blade runs true.

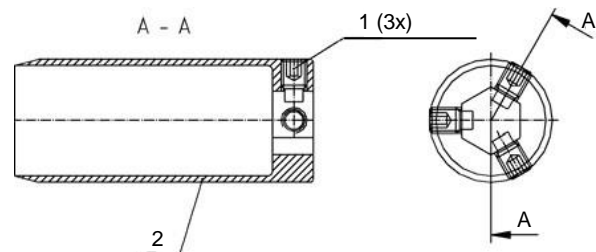


Fig. 6.3 – Change of blades

Danger!



Do not leave any tool keys connected. Check that the blade is tight and the keys are removed before switching on.

7.2 Sharpening the blade

We have established a sharpening service in our Service department. The blades are resharpened with the grinding machine EFA SM 2.

Incorrectly resharpened blades result in production losses or a considerable hazard for the user.

Also read the instructions supplied with the grinding machine.

- Holding fixtures for both blade lengths (139 + 195 mm) are supplied.
- The minimum blade length, see Fig. 6.5:
 - EFA 202 is 126 mm
 - EFA 203 is 182 mm
 - EFA 204 is 151 mm

Danger!



Proficient resharpening by hand is not possible.

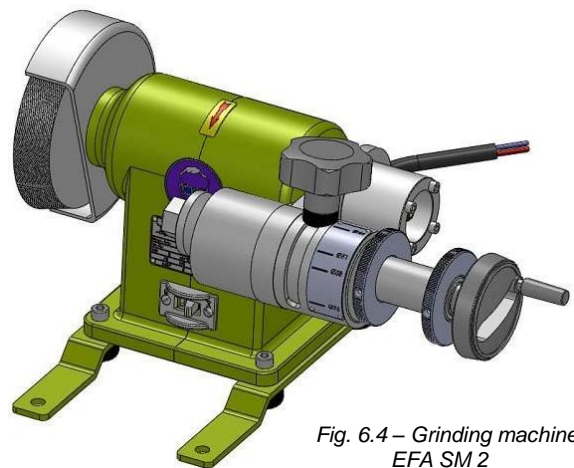


Fig. 6.4 – Grinding machine EFA SM 2

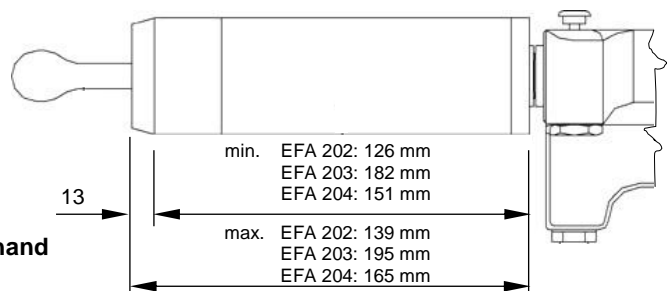


Fig. 6.5 – Blade length

8 Cleaning

Danger!



Only carry out cleaning work when the device is disconnected from the compressed air network.

Important!



Clean the device in hot water with a cloth or sponge.

Danger!



Observe the safety and hygiene requirements!

Warning!



Risk of contamination!

Cleaning, maintenance and lubrication work must not be carried out in the immediate vicinity of foodstuff!

Warning!



Wear eye protection or protective goggles when working!



Also wear protective gloves during your work!

Danger!



Disconnect the device from the compressed air network prior to cleaning!

During daily cleaning, please check whether parts of the bung dropper are worn out. Timely renewal of worn parts saves costs and time!

8.1 Cleaning during operation

During operation, clean the blades of the bung dropper with hot water after each cut.

After every 10 to 20 animals, flush the machine with cold water by pressing the cold water valve push button, see Fig. 6.6.



Also observe the safety instructions in the product data sheets of the cleaning agents.

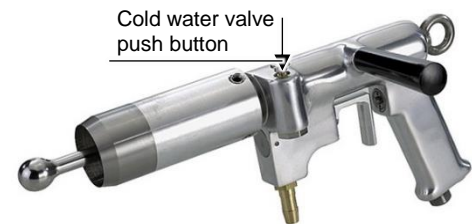


Fig. 6.6 – Cold water cleaning

To clean the device after working with it, use a cloth, brush and warm water (40 – 55 °C). Stubborn or encrusted dirt must be soaked.

Do not use any aggressive solvents!
 Do not use a steam blaster or high-pressure cleaner! Do not immerse the opened device in water!

8.2 Daily cleaning after completion of the slaughtering

Trouble-free continuous operation can only be guaranteed if the bung dropper is kept perfectly and hygienically clean at all times.

In the normal course of events, the device should be cleaned before each use.

Observe the applicable safety and hygiene requirements for this purpose!

Cleaning of the bung dropper

- To clean the blade, remove and clean it.
- Remove coarse dirt with a brush and warm water (approx. 45 – 55 °C); tenacious or crusted residues must be soaked in order to be able to remove them.
- Put a cleaning agent in warm water. Spread the solution over the surfaces to be cleaned and allow the cleaning agent to work for 15 – 20 minutes.
- Wash off the dissolved dirt with warm water.
- Disinfect the bung dropper.
Disinfection must always be carried out separately from cleaning!
Disinfectants must not be brought into contact with food!
- Wash the entire bung dropper with clean water, then dry it.

9 Maintenance

Important!



All work must be carried out by qualified instructed specialist personnel only.

During operation, it is possible that the function can be disrupted, but in most cases, troubleshooting is relatively easy.

The malfunctions are listed in Table 9.1 with possible causes and resulting remedies.

Tab. 9.1 – Troubleshooting

Malfunction	Possible cause	Remedy
1) Switching slider (1) is difficult to move.	Switching slider dirty or defective.	Dismantle the bearing pin (2). Dismantle the switching slider (1) to the front, clean and grease it lightly if necessary.
2) Blade has stopped running.	The motor is defective.	Dismantle blade with guide pin (3). Dismantle pneumatic motor (4) and check for damage, replace if necessary.
3) Blade has stopped running or runs sluggishly.	Motor/gear unit defective or rotor blade worn.	See point 2); however, check rotor blade (4a) for wear and replace if necessary.
4) Guide pin has stopped rotating.	Guide pin breakage or point 2) or 3).	Dismantle the blade. Check guide pin for breakage and replace if necessary.
5) Significant wear or loud running noises.	Gear unit defective/worn or too little oil in the gear unit.	Check the oil mist lubricator for prescribed oil quantity, correct if necessary. Check gear unit, complete, and all bearings, clean and grease lightly. Replace any faulty parts.
6) Machine is getting hot.	Machine dirty/worn or pressure too high.	Check the compressed air at the pressure gauge (max. 8 bar). Check the device for soiling (inside), if necessary sent it to the factory or take it to an authorised specialist dealer for inspection in the workshop.



10 Maintenance and repair

10.1 Maintenance

Note



Observe all safety instructions

Warning!



Maintenance work is only allowed to be carried out by qualified and instructed personnel.

Warning!



Cutting hazard!
Before carrying out any maintenance work, switch off the device and disconnect it from the compressed air network!

Pneumatic motor and gear unit

Every 3 months, but at least 4 times a year, clean completely and replace worn and/or defective parts.

Oil mist lubricator

Check at regular intervals, min. 2x per month, remove the condensation and top up with special oil.

Special oil for maintenance system

EFA special oil: 0.5 l (part. no. 001365611)

EFA special oil: 5.0 l (part. no. 001365612)

Special oil for vacuum pump

Vacuum pump oil: 5.0 l (part. no. 001365636)

10.2 Repair by customer service

Warning!



Repairs are only allowed to be carried out by qualified and instructed personnel.

Danger!



Disconnect the bung dropper from the compressed air network prior to performing any repair work.

Warning!



Only use genuine EFA spare parts.

- The **EFA Service department of Schmid & Wezel GmbH** is at your disposal for repairs. If your equipment needs to be repaired, please contact the nearest authorised service centre or our head office.
- Upon request, spare parts lists can be provided to any authorised service centre.
- In the event of malfunctions that cannot be clearly localised, the device should be returned to **S&W** for repair.

10.2.1 Return

Return your waste electrical equipment to our head office.

11 Waste disposal – recycling

The machine must be disposed of in accordance with the valid legal regulations of the respective countries.

11.1 Disassembly and disposal

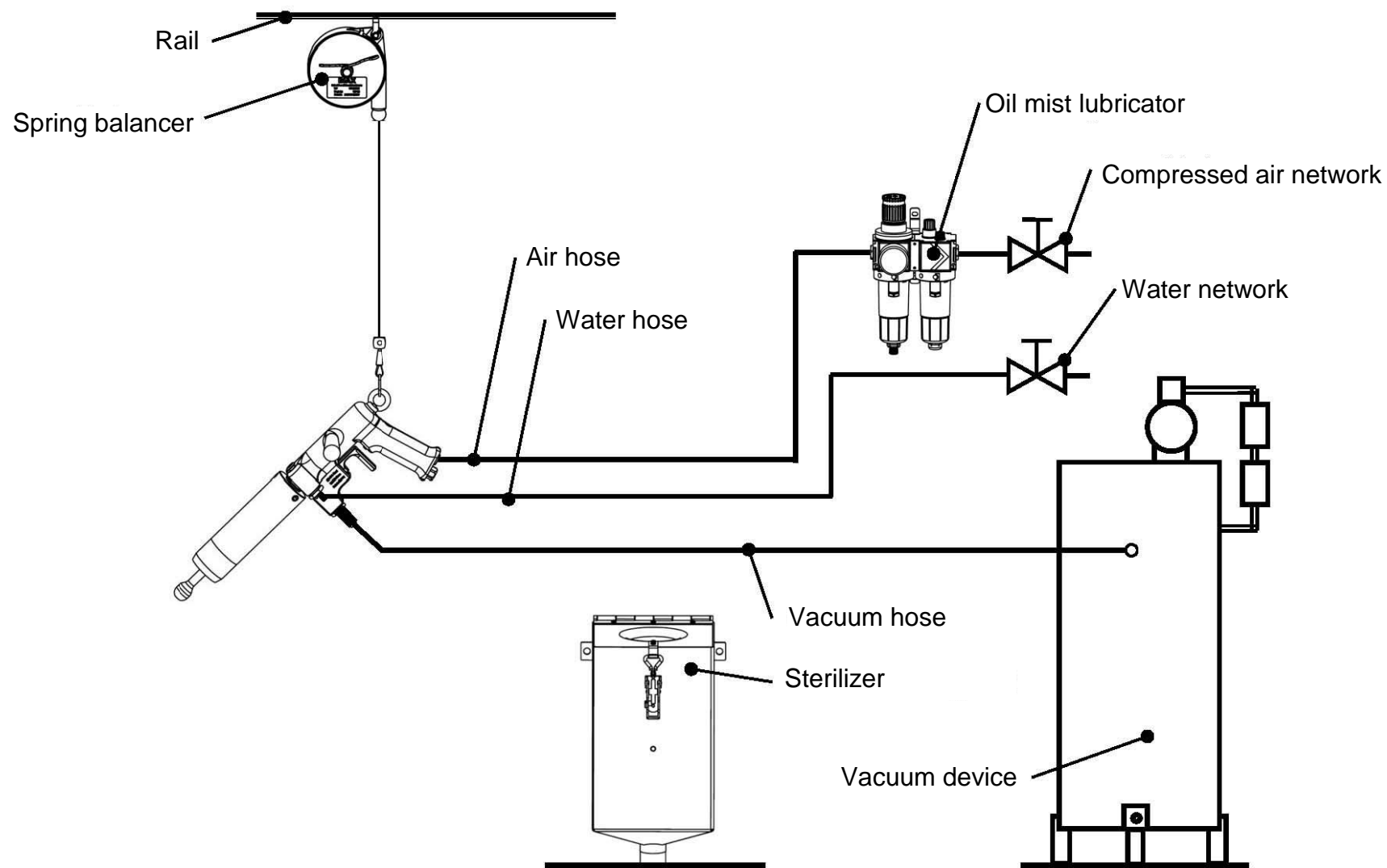


Old and used machines contain reusable materials that can be recycled.

During disposal, it is essential to observe regional and local environmental protection regulations.

- 1) Disconnect the machine from the mains power and/or the pneumatic/hydraulic supply.
 - 2) Disassemble the machine completely.
 - 3) Degrease the machine completely.
 - 4) Dispose of used oil and components and materials contaminated with oil in accordance with the applicable environmental conditions.
 - 5) Separate all reusable materials according to type.
 - 6) Sort the individual reusable materials for recycling and disposal.
 - 7) Dispose of the hazardous waste at a local hazardous waste disposal site.
- Or
- 8) Return your waste electrical equipment to our head office.

-A1- Installation diagram





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