

EFA dehider

EFA 620

EFA 2000



Original operating instructions

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Any changes or amendments to these original 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 pneumatically operated dehider 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 pneumatically operated dehider 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.



If the existing operating instructions have been damaged or lost, you can request a replacement by stating: Machine type and part number, *see section 3.2 Machine marking*.

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 pneumatically operated dehider**. 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 dehider 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 pneumatically operated dehider** 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 edge area of the blades, you could injure yourself!****Wear eye protection such as protective goggles when working!****Areas of application**

The pneumatically operated dehider **EFA 620** (with a pair of blades moving in opposite directions) and **EFA 2000** (with single blade moving in a circular path) are used for dehiding cattle, horses, sheep and pigs in non-frozen condition.

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 pneumatically operated dehider 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 dehider 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 dehider if safe working with it is not possible,
- Do not make any structural changes to the dehider without authorisation.

**Danger!****The dehiders can be hazardous if they are used by untrained persons, in an improper manner, or for purposes that are not in line with the intended use.**

Residual hazards

As the dehiders are intended for industrial use on carcasses, there is a possibility of injury or, in case of gross misuse, of **fatal** injury. Therefore, in case of misuse, the possibility of immediate death or death by blood loss must be expected.

Consequently, always pay attention to the correct handling of the machine.

There is a risk of injury especially in the uncovered area of the sharp pair of blades moving in opposite directions (EFA 620) or the single blade moving in a circular path (EFA 2000). Remain focused and act with caution when working. Wear personal protective equipment.

The machine has no safety switch.

For this reason, always make sure to lay the machine down flat to prevent the switch from being accidentally actuated and the machine from starting up.

If the compressed air connection is faulty and there is a high water content in the compressed air, a water jet can escape at the connection point. Therefore, make sure that the hose connection is correct and that there is as little water content as possible in the compressed air (empty the water separator regularly). The water separator is not part of the machine but must be installed upstream.

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 sign


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 sign

Symbol	Meaning
	General mandatory instruction sign! Observe company directive, 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 in the following lifecycle phases

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 & maintenance	<ul style="list-style-type: none"> Cut-resistant gloves Safety shoes Protective goggles Hearing protection Hairnet (for long hair)
Operation	<ul style="list-style-type: none"> Hairnet (for long hair) Cut-resistant gloves Safety shoes Protective goggles Hearing protection 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 dehider.

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 pneumatically operated dehider when you are tired and/or unfocused.
- Store the dehider 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.
- Do not leave any tool keys connected. Check that all keys have been removed before switching on.
- Look after your tools with care. Use only sharp and undamaged blades 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 dehider			
		EFA 620 100260040 (pair of blades moving in opposite directions)		EFA 2000 100300001 (single blade moving in a circular path)	
Operating pressure	bar	6			
Air consumption (at full load)	l/min	480		400	
Power	W	250		190	
Rated speed	rpm	7200		5500	
Connecting lines	mm	7			
Connection thread	Inch	R 1/8			
L _{pA} sound pressure level	dB(A)	83		74	
L _{WA} sound power level	dB(A)	94		85	
a _{hd} vibration characteristic value	m/s ²	4.0	K 0.07	0.3	K 0.05
Weight	kg	1.3		0.9	

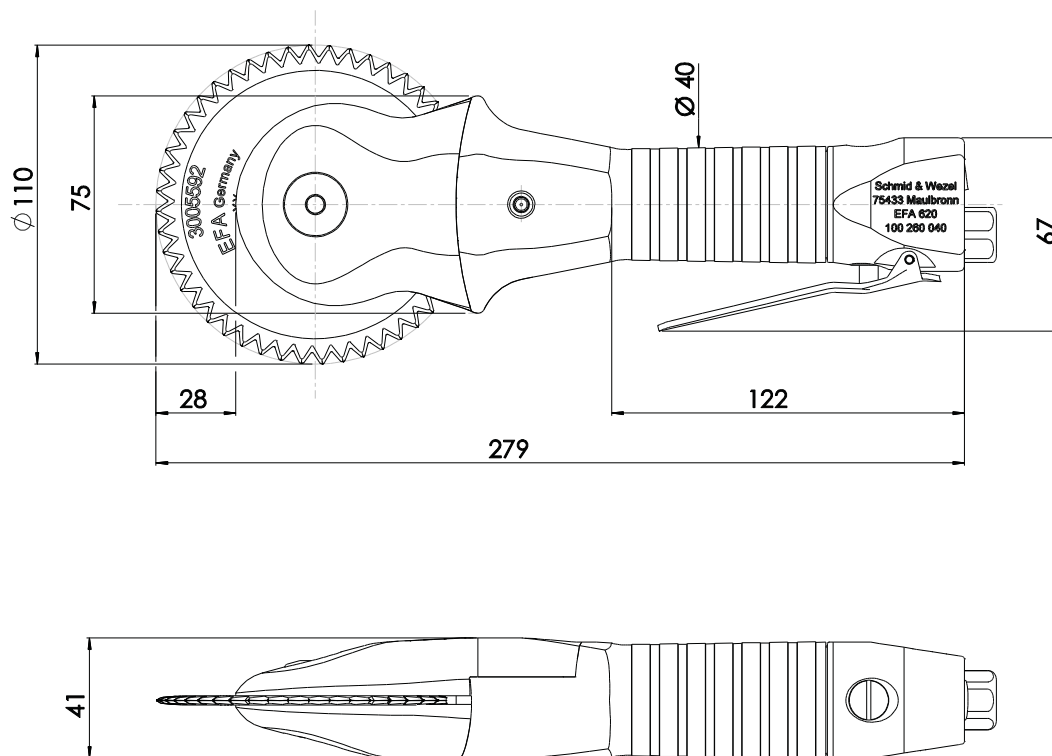
Tab. 3.2 – EFA pneumatically operated dehider overview

EFA dehider	Application	Application
EFA 620 100260040 	     	Round blade dehider for cattle, horses, sheep and pigs. The pneumatically operated dehider is used for dehiding cattle, horses, sheep, pigs, etc.; it is suitable for medium sized and large plants.
EFA 2000 100300001 	     	Round blade dehider for use in cattle slaughtering. The pneumatically operated dehider is used for dehiding cattle, horses, sheep, pigs, etc.; it is suitable for medium sized and large plants.

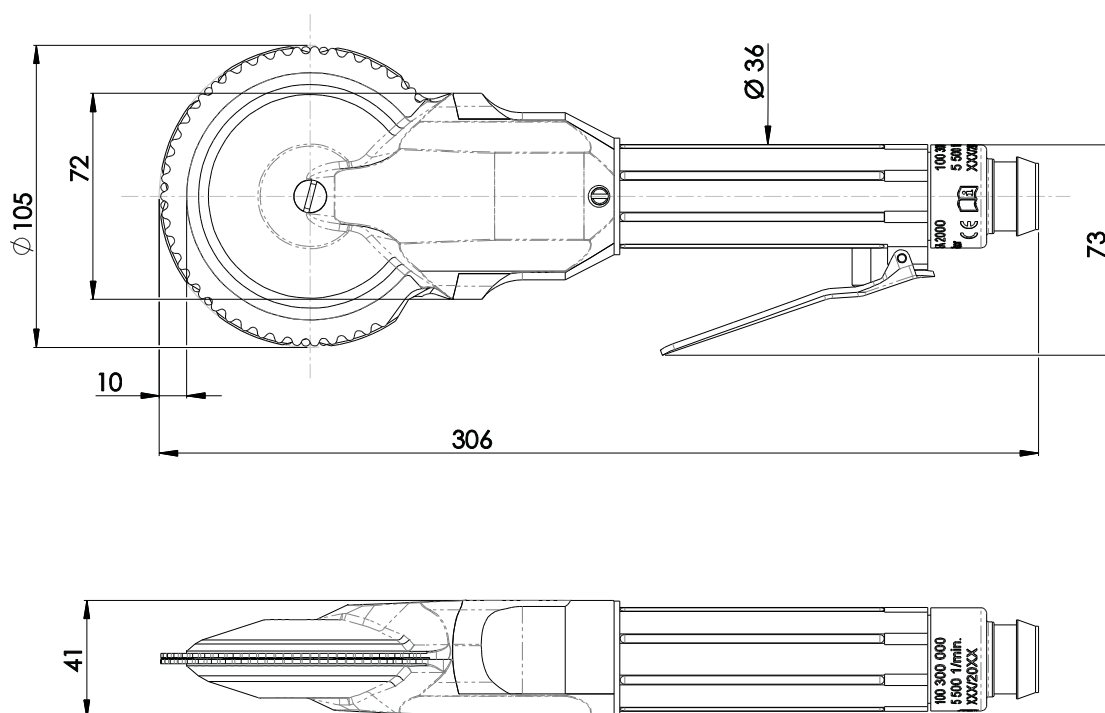
3.1 Dimensions

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

Pneumatically operated dehider EFA 620 – part no. 100260040



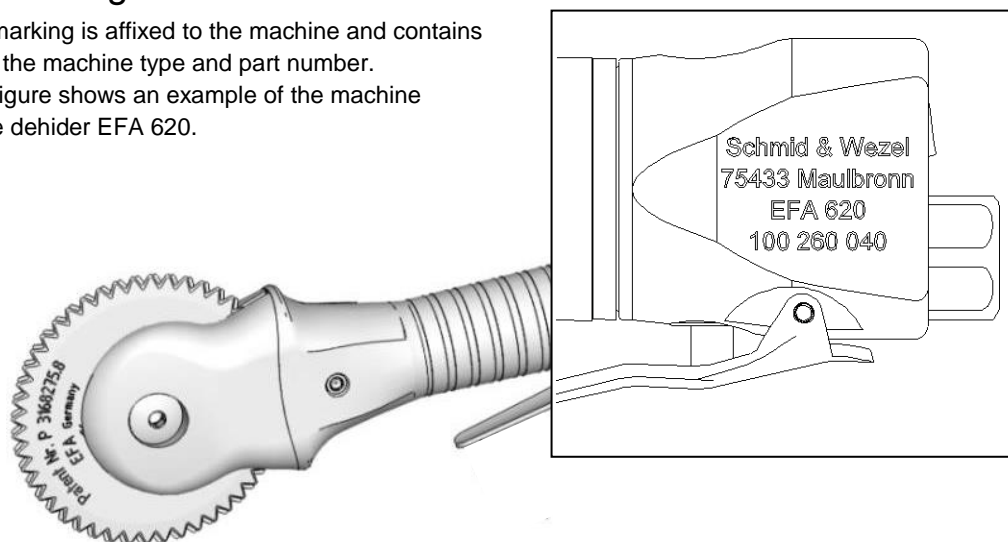
Pneumatically operated dehider EFA 2000 – part no. 100300001



3.2 Machine marking

The machine marking is affixed to the machine and contains information on the machine type and part number.

The following figure shows an example of the machine marking for the dehider EFA 620.



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.

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 *section 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 Installation

Danger!



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

Caution!



Tripping hazard!

Lines that run along the floor can be a tripping hazard for the operator!

5.1.1 Oil mist lubricator

The dehiders are operated with compressed air.

The connection must be made via an oil mist lubricator R 3/8". The supply line for connecting the machine must have at least 3/4".

Mount the oil mist lubricator (1) in the following sequence, see Fig. 5.1:

- Water separator (2),
- Pressure gauge (3),
- Oiler (4).

We recommend that air is supplied from above via the compressed air line (clear width at least 13 mm).

Caution!



Tripping hazard!

Lines that run along the floor can be a tripping hazard for the operator!

The oil mist lubricator must be set to 1 – 2 drops of oil per minute to ensure lubrication of the pneumatic motor.

Check the oil mist lubricator at regular intervals, however at least 1x per week, remove the condensation and top up with special oil.

5.1.2 Connecting the pneumatically operated dehider

The pneumatically operated dehiders are delivered from the factory ready for use.

EFA 620 (see Fig. 5.1)

- Connect the dehider (5) to an oil mist lubricator (1) (special accessory) with an air hose (6).
- While the device is running: P = 6 bar; set 1 – 2 drops of oil per minute.

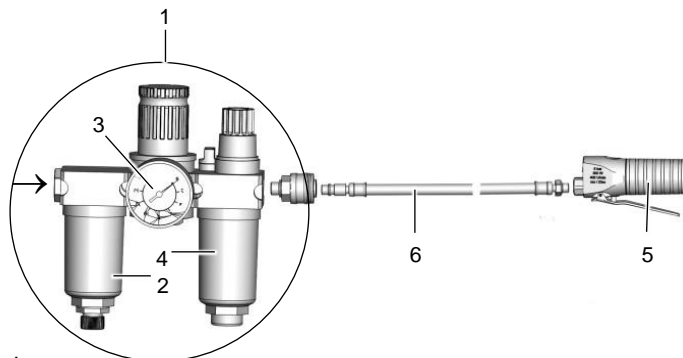


Fig. 5.1 – Compressed air connection

If the compressed air connection is faulty and there is a high water content in the compressed air, water can escape at the connection point.

Therefore, make sure that the hose connection is correct and that compressed air with a low water content is used (empty the water separator regularly). If no dried air is available, a water absorber must be installed by the customer.

- Blow through the air hose with a compressed air gun before connecting it, to remove impurities.

EFA 2000 (see Fig. 5.2)

- Push on the air hose (1) as far as it will go. Push the hose clamp (2) to the desired position and clamp it with suitable pliers.
- Push on the air-outlet hose (3) and move the O-ring (4) to the clamping position.
- Screw the rapid action coupling (with sealing ring) into the oil mist lubricator.

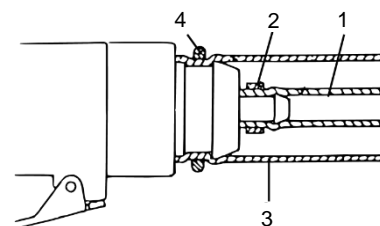


Fig. 5.2 – Compressed air connection

6 Handling

6.1 Switch operation

Important!



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

The pneumatically operated dehider is equipped with a valve lever (1) for switching the compressed air flow, see Fig. 6.1.

Switching on

- 1) Hold the device securely.
- 2) To switch on, press the operating lever (1) "ON".

Switching off

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

After switching off, the dehider stops immediately.
 The machine can be switched on and off at any time.

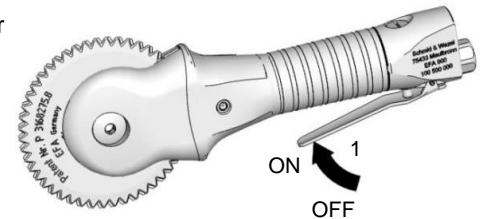


Fig. 6.1 – Operating lever

6.2 Working with the pneumatically operated dehider

Danger!



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

Warning!



Wear eye protection or protective goggles when working!
 Also wear cut-resistant gloves!
 Hearing protection must be worn during continuous operation!

Preparation

Check before using the device:

- whether the operating data of the compressed air supply and the device match,
- whether the pneumatically operated dehider is functional,
- whether the general safety instructions are observed, see section 2.1.

Work step

- Place the pneumatically operated dehider with the blade side flat between the fat layer and the skin and push the pneumatically operated dehider away from you along the skin.
- When you interrupt work, place the pneumatically operated dehider flat to the side so that the operating lever is not under load.
- If work is interrupted for a longer period of time, disconnect the machine from the compressed air network.

6.2.1 Operational safety

- Be especially careful when switched on.
- Hold the device firmly during the start-up phase and do not release your hands from the device or hang it from suspension hooks (1) – (special accessories) until the blades have come to a standstill.
- Never operate the operating lever when the device is not in use.

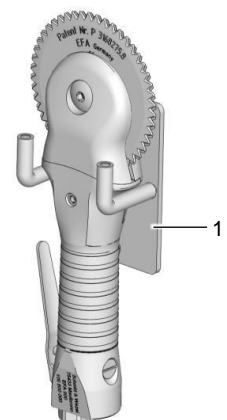


Fig. 6.2 – Storage in holder

7 Assembly

Danger!



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

Danger!



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

Warning!



Wear cut-resistant gloves and safety shoes during all assembly work (change of blades).

The following tools and accessories are required for assembly/disassembly:

- Allen wrenches 3 mm, 6 mm
- Grease gun

7.1 Change of blades

Danger!



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

Danger!



Only use genuine EFA blades!

Blunt, worn blades must be replaced.

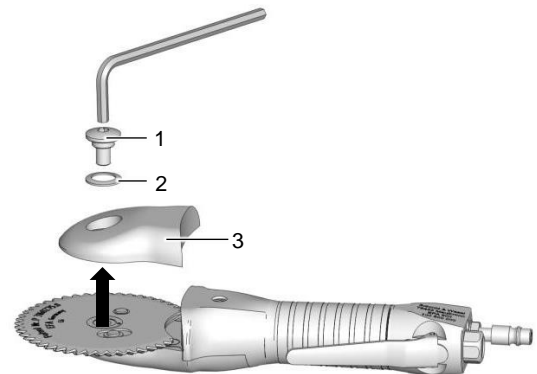


Fig. 7.1 – Removing the blade cover

EFA 620 (see Fig. 7.1 and Fig. 7.2)

- 1) Loosen the retaining bolt (1) with an Allen wrench and remove it together with the lock washer (2). Remove the blade cover (3).
- 2) Remove the pair of blades (4).

Warning!



**Cutting hazard!
Remove/change blades only when wearing cut-resistant gloves!**

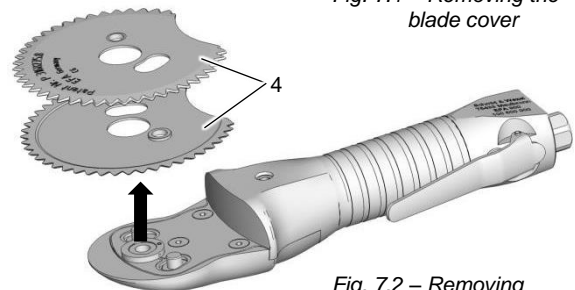


Fig. 7.2 – Removing dehider blades

- 3) Sharpen the blades or replace them with new ones.
- 4) Lubricate and mount the blades and dehider as described in chapter 8 – Cleaning and lubrication.

EFA 2000 (see Fig. 7.3 and Fig. 7.4)

- 1) Unscrew the countersunk screw (1) with a screwdriver (right-hand thread).
- 2) Remove the blade cover (2).
- 3) Carefully remove the single blade (3).
- 4) Clean the blade.
- 5) Sharpen the blade manually with a fine oil stone.

Warning!



**Cutting hazard!
Only sharpen the blade with cut-resistant gloves!**

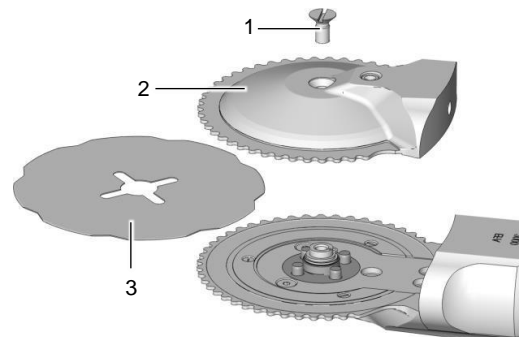


Fig. 7.3 – Removing the blades

Regrinding on a grinding machine is not possible.

- 6) Lubricate and mount the blade and dehider as described in *chapter 8 – Cleaning and lubrication*.

Blade guide check (see Fig. 7.5)

The check must be carried out with the device running **without a blade**.

The holding fixture (1) is pushed upwards in the direction of the arrow (detail -1-) by the escaping compressed air.

The top edge of the holding fixture (1) must be flush with the top edge of the housing guide (2) (detail -2-).

If this is not the case, the shim (3) must be exchanged (by specialist personnel from **S&W**).

This reduces wear on the blade cover.

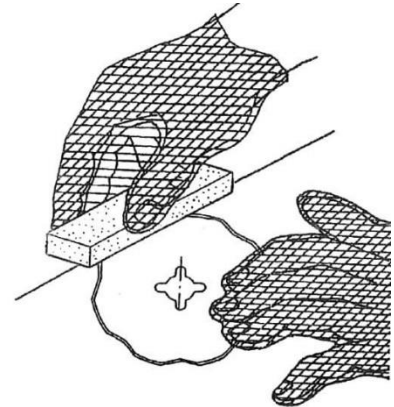


Fig. 7.4 – Sharpening the blade

Important!



The countersunk screw (4) is secured with Loctite and should only be loosened by specialist personnel from **S&W**!

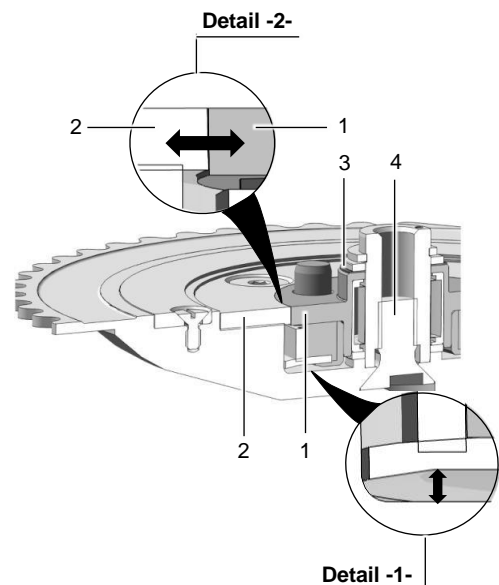


Fig. 7.5 – Checking the blade guide (EFA 2000)

8 Cleaning and lubrication

Danger!



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

Danger!



Observe the safety and hygiene requirements!

Important!



Clean the cutting device in hot water with a cloth or sponge. However, the motor must not come into contact with water!

Warning!



Wear cut-resistant gloves and safety shoes when cleaning the device.

During daily cleaning, please check whether parts of the pneumatically operated dehider are worn out. Timely renewal of worn parts saves costs!

8.1 Daily cleaning after completion of the slaughtering

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



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



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

8.1.1 Cleaning and lubrication of the pneumatically operated dehider

EFA 620 (see Fig. 8.1, 2, 3, 4 and 5)

- 1) Disconnect the pneumatically operated dehider from the compressed air network.
- 2) Loosen the retaining bolt (1) with a 6 mm Allen wrench and remove it together with the lock washer (2).
- 3) Lift off the blade cover (3).
- 4) Carefully remove the pair of blades (4), clean them in warm water and then oil them inside with acid-free, low-viscosity oil (5).
- 5) Wipe the housing (6) and blade cover (3) clean.

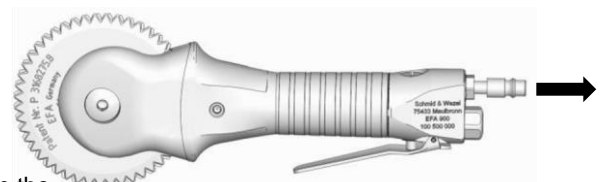


Fig. 8.1 – Disconnecting from the compressed air supply

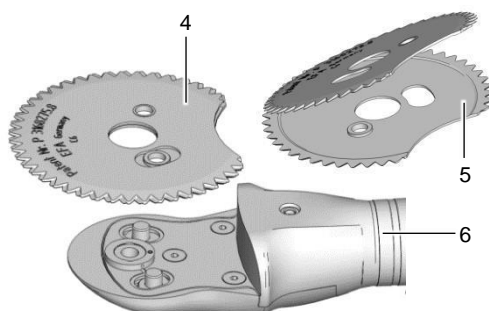


Fig. 8.3 – Removing the pair of dehider blades

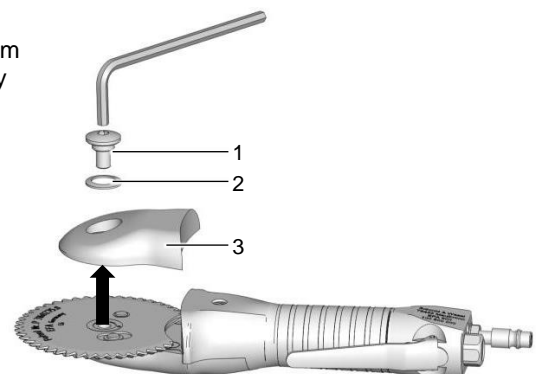


Fig. 8.2 – Exposing the dehider blade

- 6) Before inserting the cleaned blades, grease the suspension pins (7) on the piston rod arms, the race (8), the blade bush (9), the dehider blades and the corrugated spring (10).
- 7) The assembly is carried out in reverse order.
- 8) After assembly, press EFA special grease into the three grease nipples (11, 12 and 13) with 2 strokes of a grease gun.

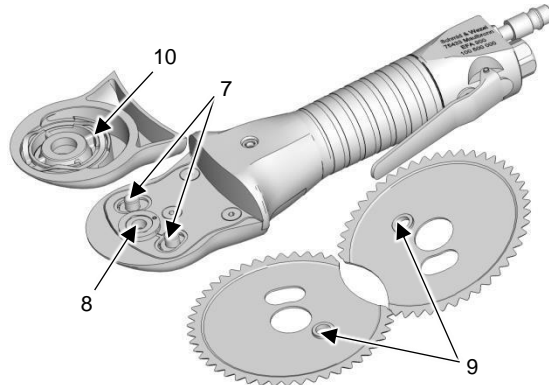


Fig. 8.4 – Greasing parts

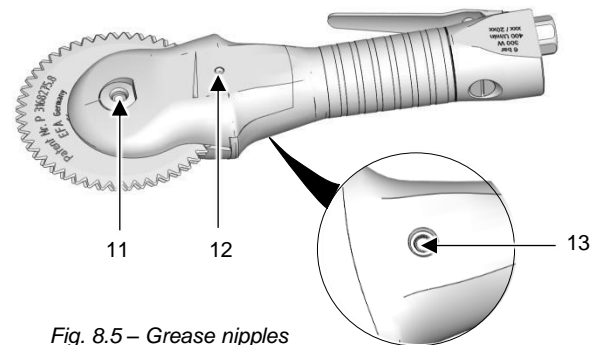


Fig. 8.5 – Grease nipples

Parts must be replaced if:

- the race (8), blade bushing (9) or suspension pin (7) on the piston rod arms are run in or worn out;
- the blades (4) are blunt. Resharpener blunt dehider blades on the blade grinding machine "EFA 53";
- the corrugated spring (10) is not exposed to clamping force.

EFA 2000 (see Fig. 8.6 and Fig. 8.7)

- 1) Unscrew the countersunk screw (1) with a screwdriver (right-hand thread).
- 2) Remove the blade cover (2).
- 3) Remove blade (3) carefully.
- 4) Clean the blade in warm water and lightly grease it with EFA special grease.
- 5) Wipe the housing (4) and blade cover (2) clean and lightly grease them with EFA special grease.
- 6) The assembly is carried out in reverse order. Tighten screw (1) to a tightening torque of 5.5 Nm.
- 7) After assembly, press EFA special grease into the grease nipple (5) with 2 strokes of a grease gun.

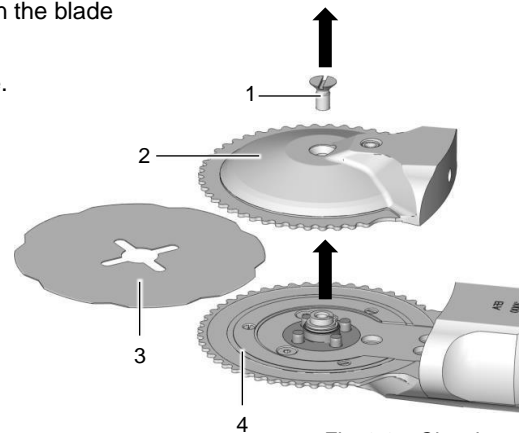


Fig. 8.6 – Cleaning

Important!



Only grease the EFA 620 and EFA 2000 with the supplied EFA special grease!
 A thin lubricating film is sufficient.

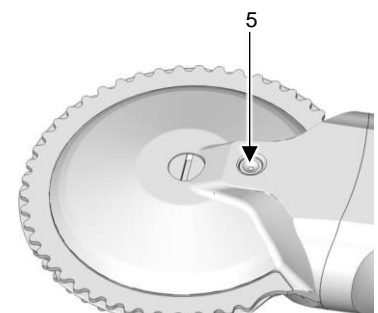


Fig. 8.7 – Grease nipple blade bearing

Gear unit lubrication EFA 2000 (see Fig. 8.8)

- 1) Remove the blade cover see Fig. 8.6.
- 2) Press EFA special grease into the grease nipple (10) with 2 strokes of a grease gun.
- 3) Screw the blade cover back on with a tightening torque of 5.5 Nm.

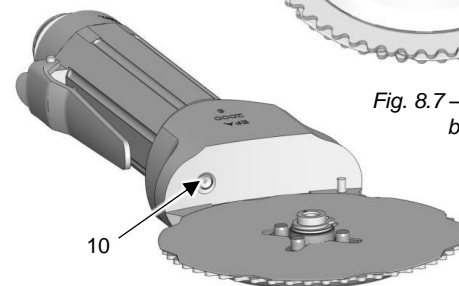


Fig. 8.8 – Grease nipple gear unit

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
The device does not start when the operating lever is actuated.	Air filter on oil mist lubricator dirty.	Change the air filter.
	Hose coupling loose.	Check correct connection of the hoses.
Operating lever cannot be pressed.	Valve spring broken Valve blocked by dirt.	Return to manufacturer for maintenance.
Handle iced up.	Compressed air pressure set too high.	Regulate to 6 bar.
Device does not start.	Parts of the motor or gear unit are defective.	Return to manufacturer for maintenance.
Device parts rusted.	Water in supply line. Oil mist lubricator defective.	Renew oil mist lubricator if necessary or return to manufacturer for maintenance.
Declining performance.	Blade blunt or worn.	Change or sharpen blade.
	Rotor blade of the motor defective.	Return to manufacturer for maintenance.
Unusual heating.	Over- or undergreasing.	Remove grease or re-grease.
	Gear unit or bearing wear.	Return to manufacturer for maintenance.

10 Maintenance and repair

10.1 Maintenance

Note



Observe all safety instructions

Danger!



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!

10.1.1 Daily maintenance of the dehider

To ensure the longest possible service life and low wear and tear, the dehider must be checked and serviced regularly.

Service and maintenance work must only be carried out by instructed personnel.

Only use genuine spare parts or spare parts recommended by **Schmid & Wezel GmbH** Maschinenfabrik.

Blade

Remove the dehider from the breaking hall and take it to the maintenance location or workshop to remove the blades there. Check the blades regularly.

10.2 Repair by the customer service

Danger!



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

Danger!



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

Danger!



Only use genuine 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.
- In the event of malfunctions that cannot be clearly localised, the device should be returned to **S&W** for repair.

10.2.1 Return of waste electrical equipment

Return your waste electrical equipment to our head office.

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Internet: <http://www.efa-germany.de>

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.



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