



Einhell Fretsaw Instruction Manual

[Home](#) » [Einhell](#) » Einhell Fretsaw Instruction Manual

Contents [[hide](#)]

- 1 Einhell Fretsaw
- 2 Safety regulations
- 3 Layout and items supplied
 - 3.1 Layout (Fig. 1-4)
- 4 Items supplied
- 5 Technical data
- 6 Before starting the equipment
 - 6.1 General information
 - 6.2 Assembly
- 7 Operation
 - 7.1 Please note:
 - 7.2 On/Off switch (Fig. 3)
 - 7.3 Blade speed regulator (Fig. 3)
 - 7.4 Carrying out internal cuts
- 8 Cleaning, maintenance and ordering of spare parts
 - 8.1 Cleaning
 - 8.2 Carbon brushes
 - 8.3 Maintenance
 - 8.4 Ordering replacement parts:
- 9 Disposal and recycling
- 10 Storage
- 11 Service information
- 12 Warranty certificate
- 13 Documents / Resources
 - 13.1 References
- 14 Related Posts

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**Danger:**

When using the equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating instructions and safety regulations with due care.

Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, hand over these operating instructions and safety regulations as well. We cannot accept any liability for damage or accidents which arise due to a failure to follow these instructions and the safety instructions.

Safety regulations

The corresponding safety information can be found in the enclosed booklet.

Danger:

Read all safety regulations and instructions.

Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.

Keep all safety regulations and instructions in a safe place for future use.

Layout and items supplied**Layout (Fig. 1-4)**

1. Hexagon key 4 mm
2. On/Off switch
3. Blade speed regulator
4. Cover, left
5. Locking screw
6. Dial scale
7. Saw table
8. Blade holder, bottom
9. Retention bolt

10. Blade guard
11. Clamping screw
12. Holder
13. Blade holder, top
14. Clamp lever
15. Blade
16. Blow-off device
17. Pointer
18. Table insert
19. Arm
20. Screw
21. Workpiece hold-down device
22. Spare saw blade
23. Dust extraction adapter
24. Hexagon key 3mm

Items supplied

Please check that the article is complete as specified in the scope of delivery. If parts are missing, please contact our service center or the nearest branch of the DIY store where you made your purchase at the latest within 5 work days after purchasing the article and upon presentation of a valid bill of purchase. Also, refer to the warranty table in the warranty provisions at the end of the operating instructions.

- Open the packaging and take out the equipment with care.
- Remove the packaging material and any packaging and/or transportation braces (if available).
- Check to see if all items are supplied.
- Inspect the equipment and accessories for transport damage.
- If possible, please keep the packaging until the end of the guarantee period.

Danger:

The equipment and packaging material are not toys. Do not let children play with plastic bags, foils or small parts. There is a danger of swallowing or suffocating

- Fretsaw
- Sawdust blower facility
- Spare saw blade
- Hexagon key 3 mm
- Hexagon key 4 mm
- Original operating instructions
- Safety instructions
- Blade guard

Proper use

The fretsaw is intended for cutting square-edged timber or wood-like workpieces. Round materials may only be cut with suitable holding devices.

The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

The equipment is to be operated only with suitable saw blades. It is prohibited to use any type of cutting-off wheel. To use the equipment properly you must also observe the safety regulations, the assembly instructions and the operating instructions to be found in this manual.

All persons who use and service the equipment have to be acquainted with this manual and must be informed about the machine's potential hazards.

It is also imperative to observe the accident prevention regulations in force in your area.

The same applies for the general rules of health and safety at work.

The manufacturer will not be liable for any changes made to the machine nor for any damage resulting from such changes.

Even when the equipment is used as prescribed it is still impossible to eliminate certain residual risk factors. The following hazards may arise in connection with the machine's construction and design:

- Harmful emissions of wood dust when used in closed rooms.
- Contact with the blade in the uncovered cutting zone.
- Injuries (cuts) when changing the blade.
- Crushed fingers.
- Kickback.
- Tilting of the workpiece due to inadequate support.
- Touching the blade.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Technical data

Mains voltage: .	230 V ~ 50Hz
Power consumption:	120 W
Operating mode:	S2 10 min
Idle speed n ₀ :	400-1600 min ⁻¹
Stroke:	14 mm
Tilting range of table:	0° to 45° to the left
Table size:	408 x 250 mm
Saw blade length:	127 mm
Throat:	406 mm
Max. cutting height at 90°:	52 mm
Max. cutting height at 45°:	20 mm
Weight:	13 kg

Load factor:

A load factor of 10 min (intermittent periodic duty) means that you may operate the motor continuously at its nominal power level (120W) for no longer than the time stipulated on the specifications label (10 min). If you fail to

observe this time limit the motor will overheat. During the OFF period the motor will cool again to its starting temperature.

Danger:

Sound and vibration

Sound and vibration values were measured in accordance with EN 61029.

LpA sound pressure level	90,1 dB(A)
KpA uncertainty	3 dB
LWA sound power level	103,1 dB(A)
KWA uncertainty	3 dB

Wear ear-muff s.

The impact of noise can cause damage to hearing.

Keep the noise emissions and vibrations to a minimum.

- Only use appliances which are in perfect working order.
- Service and clean the appliance regularly.
- Adapt your working style to suit the appliance.
- Do not overload the appliance.
- Have the appliance serviced whenever necessary.
- Switch the appliance off when it is not in use.

Caution:

Residual risks

Even if you use this electric power tool in accordance with instructions, certain residual risks cannot be rules out. The following hazards may arise in connection with the equipment's construction and layout:

1. Lung damage if no suitable protective dust mask is used.
2. Damage to hearing if no suitable ear protection is used.

Before starting the equipment

General information

- All covers and safety devices have to be properly fitted before the machine is switched on.
- It must be possible for the blade to run freely.
- When working with wood that has been processed before, watch out for foreign bodies such as nails or screws etc.
- Before you actuate the On/Off switch, make sure that the saw blade is correctly fitted and that the machine's moving parts run smoothly.
- Before you connect the machine to the power supply, make sure the data on the rating plate is the same as that for your mains.

Assembly

Caution: Pull out the power plug before carrying out any maintenance and conversion work on your fretsaw.

For greater stability, fasten the equipment in addition to a workbench or similar (Fig. 8). Suitable fastening materials such as screws etc. are available from your dealer.

Mounting the saw blade guard and the sawdust blower facility (Fig. 4/5)

- Fasten the retaining pin and the saw blade guard to the arm (19) as shown in Fig. 4.
- The saw blade guard can be fixed at various heights with the clamping screw (11).
- Mount the blow-off device (16) as shown in Fig. 6. 5.2.2 Changing the blade (Fig. 1/3/6a)
- Turn the clamp lever (14) counterclockwise to release the saw blade (15).
- Unscrew the left cover (4).
- First take the blade out of the top blade holder (13), pressing down the upper pendulum arm as you do so.
- Then take the blade out of the bottom blade holder (8).
- Pull the blade up and out through the table insert (18).
- Install the new blade in reverse order.
- Use the supplied Hexagon key (24) to clampfit the saw blade in the holder

Caution: Always insert the blade so that the teeth point toward the saw table.
Turn the clamp lever (14) clockwise to clamp the saw blade.

Tilting the saw table (Fig. 7)

- Undo the locking screw (5).
- Tilt the table (7) to the left until the indicator (17) points to the required angle value on the scale (6).

Important: For precision work you should first carry out a trial cut and then re-adjust the tilt angle as required.

Clamp-fitting a coping saw blade (Fig. 6b-6c)

Many commercially available coping saw blades can also be used with this machine.

- Remove the saw blade as described in 5.2.2
- Pass the coping saw blade down through the table insert (18) and into the bottom holder (8)
- Use the supplied Hexagon key (24) to clampfit the saw blade in the holder
- Insert the saw blade into the top holder (13) and clamp-fit with the supplied Hexagon key
- Turn the clamp lever (14) clockwise to clamp the saw blade

Operation

Please note:

- Your saw does not cut wood automatically.
For cutting to occur, you have to guide the wood against the blade.
- The teeth cut only on the down stroke of the blade.
- You have to guide the wood slowly against the blade because the teeth are very small.

- Every new user needs a certain training period. You are certain to break a number of blades at the beginning.
- When cutting thick timber, be particularly careful not to bend or twist the blade. This will help to prolong blade life.

On/Off switch (Fig. 3)

- Press the green button to switch the saw on.
- Press the red button to switch the machine off.
- Please note: The machine is equipped with a safety switch to prevent it being switched on again accidentally after a power failure.

Blade speed regulator (Fig. 3)

The blade speed regulator allows you to set the blade speed appropriate to the material to be cut.

Carrying out internal cuts

1. A feature of this fretsaw is that it allows you to carry out internal cuts in a panel without damaging it on the outside or circumference.

Warning: To avoid injury from accidental starting:

Before you remove or change the blade, always set the switch to „0“ position and pull the power plug out of the socket.

2. To carry out internal cuts in a panel: Remove the blade as described in Section 5.2.2
3. Drill a hole in the panel in question.
4. Place the panel on the saw table with the drilled hole above the access hole.
5. Install the blade through the hole in the panel and adjust the blade tension.
6. When you have completed the internal cuts, remove the blade from the blade holders (as described in Section 5.2.2) and take the panel off the table.

Replacing the power cable

Dange:

If the power cable for this equipment is damaged, it must be replaced by the manufacturer or its after-sales service or similarly trained personnel to avoid danger.

Cleaning, maintenance and ordering of spare parts

Danger:

Always pull out the mains power plug before starting any cleaning work.

Cleaning

- Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible. Wipe the equipment with a clean cloth or blow it with compressed air at low pressure.
- We recommend that you clean the device immediately each time you have finished using it.
- Clean the equipment regularly with a moist cloth and some soft soap. Do not use cleaning agents or solvents;

these could attack the plastic parts of the equipment. Ensure that no water can seep into the device.

Carbon brushes

In case of excessive sparking, have the carbon brushes checked only by a qualified electrician. Important! The carbon brushes should not be replaced by anyone but a qualified electrician.

Maintenance

There are no parts inside the equipment which require additional maintenance.

Ordering replacement parts:

Please quote the following data when ordering replacement parts:

- Type of machine
- Article number of the machine
- Identification number of the machine
- Replacement part number of the part required

For our latest prices and information please go to www.Einhell-Service.com

Disposal and recycling

The unit is supplied in packaging to prevent its being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system.

The unit and its accessories are made of various types of material, such as metal and plastic. Defective components must be disposed of as special waste. Ask your dealer or your local council.

Storage

Store the equipment and accessories out of children's reach in a dark and dry place at above freezing temperature. The ideal storage temperature is between 5 and 30 °C. Store the electric tool in its original packaging.

Never place any electric power tools in your household refuse.

To comply with European Directive 2012/19/EC concerning old electric and electronic equipment and its implementation in national laws, old electric power tools have to be separated from other waste and disposed of in an environment-friendly

fashion, e.g. by taking to a recycling depot. Recycling alternative to the return request:

As an alternative to returning the equipment to the manufacturer, the owner of the electrical equipment must make sure that the equipment is properly disposed of if he no longer wants to keep the equipment. The old equipment can be returned to a suitable collection point that will dispose of the equipment in accordance with the national recycling and waste disposal regulations.

This does not apply to any accessories or aids without electrical components supplied with the old equipment.

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Subject to technical changes

Service information

We have competent service partners in all countries named on the guarantee certificate whose contact details can also be found on the guarantee certificate. These partners will help you with all service requests such as repairs, spare and wearing part orders or the purchase of consumables.

Please note that the following parts of this product are subject to normal or natural wear and that the following parts are therefore also required for use as consumables.

Category	Example
Wear parts*	Table insert
Consumables*	Saw blade
Missing parts	

Not necessarily included in the scope of delivery!

In the event of defects or faults, please register the problem on the internet at www.Einhell-Service.com. Please ensure that you provide a precise description of the problem and answer the following questions in all cases:

- Did the equipment work at all or was it defective from the beginning?
- Did you notice anything (symptom or defect) prior to the failure?
- What malfunction does the equipment have in your opinion (main symptom)?

Describe this malfunction.

Warranty certificate

Dear Customer,

All of our products undergo strict quality checks to ensure that they reach you in perfect condition. In the unlikely event that your device develops a fault, please contact our service department at the address shown on this guarantee card. You can also contact us by telephone using the service number shown.

Please note the following terms under which guarantee claims can be made:

1. These guarantee terms apply to consumers only, i.e. natural persons intending to use this product neither for their commercial activities nor for any other self-employed activities. These warranty terms regulate additional warranty services, which the manufacturer mentioned below promises to buyers of its new products in addition to their statutory rights of guarantee. Your statutory guarantee claims are not affected by this guarantee. Our guarantee is free of charge to you.
2. The warranty services cover only defects due to material or manufacturing faults on a product which you have bought from the manufacturer mentioned below and are limited to either the rectification of said defects on the product or the replacement of the product, whichever we prefer.

Please note that our devices are not designed for use in commercial, trade or professional applications.

A guarantee contract will not be created if the device has been used by commercial, trade or industrial business or has been exposed to similar stresses during the guarantee period.

3. The following are not covered by our guarantee:

1. Damage to the device caused by a failure to follow the assembly instructions or due to incorrect

installation, a failure to follow the operating instructions (for example connecting it to an incorrect mains voltage or current type) or a failure to follow the maintenance and safety instructions or by exposing the device to abnormal environmental conditions or by lack of care and maintenance.


2. Damage to the device caused by abuse or incorrect use (for example overloading the device or the use of unapproved tools or accessories), ingress of foreign bodies into the device (such as sand, stones or dust, transport damage), the use of force or damage caused by external forces (for example by dropping it).
3. Damage to the device or parts of the device caused by normal or natural wear or tear or by normal use of the device.
4. The guarantee is valid for a period of 24 months starting from the purchase date of the device. Guarantee claims should be submitted before the end of the guarantee period within two weeks of the defect being noticed. No guarantee claims will be accepted after the end of the guarantee period.
The original guarantee period remains applicable to the device even if repairs are carried out or parts are replaced. In such cases, the work performed or parts fitted will not result in an extension of the guarantee period, and no new guarantee will become active for the work performed or parts fitted. This also applies if an on-site service is used.
5. To make a claim under the guarantee, please register the defective device at: www.Einhell-Service.com.
Please keep your bill of purchase or other proof of purchase for the new device. Devices that are returned without proof of purchase or without a rating plate shall not be covered by the guarantee, because appropriate identification will not be possible. If the defect is covered by our guarantee, then the item in question will either be repaired immediately and returned to you or we will send you a new replacement.

Of course, we are also happy offer a chargeable repair service for any defects which are not covered by the scope of this guarantee or for units which are no longer covered. To take advantage of this service, please send the device to our service address.

Also refer to the restrictions of this warranty concerning wear parts, consumables and missing parts as set out in the service information in these operating instructions.

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Documents / Resources

	Einhell Fretsaw [pdf] Instruction Manual Fretsaw, TC-SS 405 E
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References

-  [Einhell Service](#)
-  [Einhell Service](#)

