

CE Certified



Original Instructions



Read instructions before use Wall Chaser



EIBENSTOCK
P O S I T R O N

... the company's most successful product range



EMF 150.1 I

PRIOR TO USE :-

Please read these operating and safety instructions carefully and completely. For your own safety, before using this Wall Chaser Machine check that the voltage is correct and that all handles and parts are firmly secured. If you are uncertain about any aspect of using this Machine contact your Dealer.



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NOTE

- As our engineering is striving for the constant research and development to improve the quality, shape or specification of our product can be changed without prior notice.

1 Important Safety Instructions

Important instructions and warning notices are allegorized on the machine by means of symbols:



Before you start working, read the operating instructions of the machine.



Work concentrated and carefully. Keep your workplace clean and avoid dangerous situations.



In order to protect the user, take precautions.

During work you should wear ear protectors, goggles, dust mask, protective gloves and sturdy work clothes!



Use ear protection



Wear safety goggles



Use safety helmet



Wear protective gloves



Use protective shoes



Warning of general danger



Warning of dangerous voltage



Warning of hot surface



Danger of being ripped or cut

2 Technical Data

Specification	EMF 150.1 I
Input Supply Voltage (V).	220-240
Motor Input (W)	2300
Frequency (Hz)	50/60
Max. Disc Ø (mm)	150
Max. Cutting Depth (mm)	45
Max. Groove Width (mm)	46
No Load Speed (min ⁻¹) n ₀	7500
Rated Speed (min ⁻¹) n	4300
Spindle Connection Ø (mm)	22.2
Weight (kg)	6.9

3 Content of Delivery

Wall chaser EMF 150.1I with installation tool, additional rings for use of 3 cutting discs and operating instructions.

4 Application for Intended Use

The wall chaser has to be used only completely mounted according to the mounting instructions.

The wall chaser is intended for professional use.

Together with a M-class vacuum cleaner and the appropriate diamond cutting discs the wall chaser may be used for cutting slots and grooves in mineral materials e.g. concrete, brick, gas concrete, granite, lime sand brick and tiles without using water.

Only use diamond cutting discs recommended by the manufacturer.

5 Safety Instructions



- Safe work with the machine is only possible if you read this operating instruction completely and follow the instructions contained strictly.
Additionally, the general safety instructions of the leaflet supplied with the tool must be observed. Prior to the first use, the user should absolve a practical training. Save all warnings and instructions for future reference.
- If the mains cable gets damaged or cut during the use, do not touch it, but instantly pull the plug out of the socket. Never use the tool with damaged mains cable.
- The tool must neither be wet nor used in humid environment.
- Do not use the tool in an environment with danger of explosion.
- Do not work on ladders.
- Do not drill into asbestos-containing materials.
- Modifications of the tool are prohibited.
- Never use the machine without dust guard.
- Always check the tool, cable and plug before use. Have damages only repaired by specialists. Insert the plug into the socket only when the tool switch is off.
- When you work outside, the machine has to be used with a fault-current circuit breaker with max. 30 mA.
- The machine should only work under supervision of somebody. Plug and switch the machine off if it is not under supervision, in case of putting up and stripping down the machine, in case of voltage drop or when fixing or mounting an accessory.
- Switch the machine off if it stops for whatever reason. You avoid that it starts suddenly and not under supervision.
- Do not use the machine if a part of the housing is damaged or in case of damages on the switch, the cable or plug.
- Pay attention that the speed indicated on the cutting disc meets or is higher than the max. speed indicated on the machine.
- Use only diamond cutting wheels for your power tool.
- Wheels must be used only for recommended applications. For example: do not grind with the side of the cutting wheel.
- Cutting wheels have to be stored and used carefully according to the instructions of the producer.

- Cutting discs flanges and other accessories must properly fit on the spindle of the power tool. Do not use any reducing pieces or adapters.
- Check the accessories before use. Do not use any products which are broken, cracked or damaged in another way.
- Before use, make sure that the tool is correctly fixed and fastened. Let it run idle for about 30 seconds in a safe position. If considerable vibrations occur or if other defects are recognised, switch off immediately.
- Always lead the mains and extension cable as well as the extraction hose to the back away from the machine.
- Power tools have to be inspected by a specialist in regular intervals.
- Never carry the machine at its cable.
- Do not touch rotating parts.
- Persons under 16 years of age are not allowed to use the tool.



- During use, the operator and other persons standing nearby have to wear suitable ear protectors, a dust mask, protection goggles as well as protective gloves.
- Make sure that persons in the work space are not endangered by particles flying around.
- Keep the handles dry, clean and free of oil and grease.
- Attention! The tool still runs for a little while after the machine was switched off.



For further safety instructions, please refer to the enclosure.

6 Electrical Connection



Before starting the machine check the correspondence between voltage and frequency according to the data mentioned on the identification plate. Voltage differences from + 6 % and – 10 % are allowed.

The wall chaser is made in protection class II.

Only use extension cables with a sufficient cross-section. A cross-section which is too small could cause a considerable drop in performance and an overheating of machine and cable.

The tool is equipped with a start-up speed limiter to prevent that swift automatic circuit breakers are unintentionally triggered.

Recommended minimum cross sections and maximum cable lengths:

Mains voltage	Cross section in sq. mm	
	1.5	2.5
230V	30 m	50 m

7 Switching on and off

Short-Time Operation

Switching-on : press the on/off switch

Switching-off : release the on/off switch

Permanent Operation

Switching-on : press the on/off switch and, keeping it pressed, engage the lock button

Switching-off : press the on/off switch and let release it again



Attention!

In case of every stop of the machine or a power cut, the lock-on button has to be released immediately by pressing the ON/OFF switch. So you can avoid an unintentional restart of the machine (physical hazard).

8 Instructions for Use

Exercise caution when cutting slots in supporting walls; see section "Information on structural calculations".

Do not strain the machine so heavily that it comes to a standstill.

Only use the wall chaser for dry cutting.

Adjust the cutting depth see section "Pre-selection the Cutting Depth". To compensate inaccuracies that occur when breaking away the fin, the cutting depth must be set approx. 3 mm deeper than the requested slot depth.

Place the machine with the front roll (cover) on the surface to be worked. Switch on the machine and slowly lower and plunge the cutting unit into the material.

Guide the machine with both handles, applying moderate feed, suited to the material being worked with.

The wall chaser must always work in an up-grinding motion (sliding cut). Otherwise, the danger exists of it being pushed uncontrolled out of the cut.

Remove the remaining fin of the material with a break-out tool or a chiselling hammer. Curved cuts are not possible, as the diamond cutting discs could jam in the material.

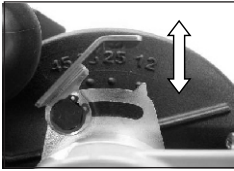
When breaking through walls, e. g. with a rotary hammer, most of the chipping-off of the surface material can be avoided by first cutting in a slot with maximum cutting depth.

For cutting especially hard material, e. g. concrete with high pebble content, the diamond cutting disc can overheat and become damaged as a result. This is clearly indicated by circular sparking, rotating with the diamond cutting disc.

In this case, interrupt the cutting process and allow the diamond cutting disc to cool by running the machine for a short time with no load.

Noticeable decreasing work progress and circular sparking are indications of a blunt diamond cutting disc. Briefly cutting into abrasive material (e. g. lime-sand brick or a diamond-sharpening-stone) can re-sharpen the disc again.

9 Pre-selection of the Cutting Depth



Set the desired cutting depth on the scale by turning the guard and set the cutting depth on the scale then close the quick-release lever.

The quick-release lever must always be firmly closed when working.

Fig. 2

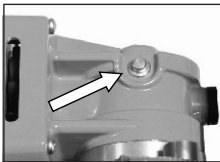
10 Changing the Diamond Cutting Discs



The Cutting discs, spacer discs and the flange nut might heat up enormously during operation. You could burn your hands or get cut or ripped by the segments. Therefore, always use protective gloves when changing the grinding wheel. Before any work on the tool, disconnect the plug from the mains!

Attention!

Disconnect the power plug before carrying out any work on the device!

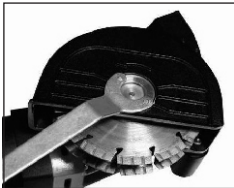


Press the spindle lock button to lock the work spindle.

Actuate the spindle lock button only when the work spindle is at a standstill.

Otherwise, the machine may become damaged.

Fig. 3



Open the clamping screw with the face spanner and remove the diamond cutting discs as well as the spacer discs from the work spindle.

Clean the work spindle and all parts to be mounted.

Pre-selection of the Groove Width:

The groove width results from the number and thickness of the spacer discs between the two diamond cutting discs and the cutting width of the diamond cutting discs.

The groove width is calculated as follows: groove width = Thickness of the spacer discs + width of the diamond cutting discs.

Thickness of the spacer discs: 2, 3, 4, 5, 10 and 17 mm.

Fig. 4

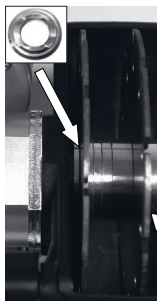


Fig. 5

First the wheel flange has to be mounted on the work spindle (see arrow).
The wheel flange with its driving must have a correct seat on the work spindle.

Then mount one of the two diamond cutting discs.

After that put the spacer discs and the second diamond cutting disc according to the required groove width on the work spindle.

Press the spindle lock button to lock the work spindle (see arrow – Fig.3).

Screw on the clamping screw and tighten it with the face spanner (see Fig.4).

Instructions for assembly:

- Regardless of the requested groove width, all spacer discs provided must always be mounted. Otherwise, the diamond cutting disc can become loose during operation and lead to injuries.
- At least one spacer disc must be mounted between two diamond cutting discs.
- When mounting the diamond cutting discs, ensure that the direction of rotation arrows on the diamond cutting disc match with the rotation direction of the machine (see direction of rotation arrow on the protective hood).
- Always replace the diamond cutting discs in pairs.
- Use only original accessory!
- The wall chaser is in power and speed optimal adjusted to the TYROLIT-diamond cutting discs. Thus you reach the best work result in consideration of the material to be worked on (see accessories).

In order to check whether the spindle stop is released before you switch on the tool, turn the spindle slightly. Let the machine run for a short period of time and in a safe position. If the machine does not run easily, stop working immediately.

11 Information on Structural Calculations

Slots in supporting walls are subject to the Standard DIN 1053 part 1, or country- specific regulations. These regulations are to be observed under all circumstances.

Before starting work, consult the responsible structural engineer, architect or the construction supervisor.

The permitted slot depth and width depends on the slot length, wall thickness and the building material used.

12 Dust Extraction

Dust which occurs during your work is hazardous to health. That is why the EMF 150.1I must be used with a vacuum cleaner, and a dust mask has to be worn.

A suitable wet/dry vacuum cleaner is available as accessory. It can directly be attached to the connection on the dust hood.

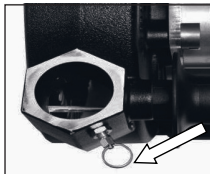


Fig. 6

To securely fasten the suction hose, it can be secured against slipping out using the hose fixation.

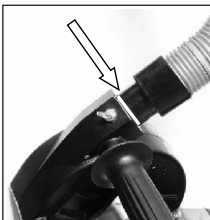


Fig. 7

The hole in the suction hose required for this must be created as follows:

Insert the suction hose into the suction opening of the hood.

Mark the insertion depth with a pencil (see arrow Fig.7).

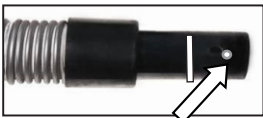


Fig. 8

Drill a 6 mm dia. hole in the hose nozzle 13 mm from this mark (line).

When inserting the suction hose pull the ring of the hose fixing and turn the nozzle till the fixation engages.

13 Care and Maintenance



Before the beginning of maintenance or repair works you have to disconnect the plug from the mains.

Repairs may be executed only by appropriately qualified and experienced personnel. After every repair the machine has to be inspected by an electric specialist. Due to its design, the machine needs a minimum of care and maintenance. However, the following points always have to be observed:

- Always keep the power tool and the ventilation slots clean.
- During work, please pay attention that no particles get inside the machine.
- In case of failure, a repair has to be carried out by an authorised service workshop.
- Customer service will answer your questions about repair and maintenance of your product as well as spare parts.
- The EP application advice team will be happy to help you with questions about our products and their accessories.

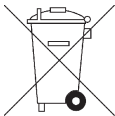
14 Environmental Protection



Raw material recycling instead of waste disposal

To avoid damages on transportation, the power tool has to be delivered in a sturdy packing. Packaging as well as unit and accessories are made of recyclable materials and can be disposed accordingly.

The tool's plastic components are marked according to their material. This enables environmentally friendly, differentiated disposal via the available collection facilities.



Only for EU countries

Do not dispose of electric tools together with household waste material!

In observance of the European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

15 Noise Emission / Vibration

Measured sound values determined according to EN 60745.

Typically the A-weighted noise levels of the product are:

Sound pressure level LpA 83 dB(A)

Sound power level LwA 94 dB(A)

Uncertainty K 3 dB



Wear ear protectors!

Vibration total values ah and uncertainty K determined according to EN 60745:

Vibration emission value ah 2,4 m/s²

Uncertainty K 1,3 m/s²

The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

16 Dust Protection

Dust from material such as paint containing lead, some wood species, minerals and metal may be harmful. Contact with or inhalation of the dust may cause allergic reactions and/or respiratory diseases to the operator or bystanders. Certain kinds of dust are classified as carcinogenic such as oak and beech dust especially in conjunction with additives for wood conditioning (chromate, wood preservative). Material containing asbestos must only be treated by specialists.

- Where the use of a dust extraction device is possible it shall be used.
- To achieve a high level of dust collection, use an industrial vacuum cleaner (dust class M) for wood and/or minerals together with this tool.
- The work place must be well ventilated.
- The use of dust mask of filter class P2 is recommendend.

SYMBOLY



Before you start working, read the operating instructions of the machine.



Danger / Caution / Warning



Wear ear protectors



Wear goggles



Class II construction, tool in which protection against electric shock does not rely on basic insulation only, but in which additional safety precautions, such as double insulation or reinforced insulation, are provided. There being no provision for protective earthing or reliance upon installation conditions.



European Conformity Mark



EC Declaration of Conformity
Certificate No. 01548/3/2019

We declare under our sole responsibility that the product described under "Technical Data" is in conformity with following standards or standardization documents :

EN ISO 12100:2010
EN 60204-1:2006 + A1:2009
EN 61029-1:2009+A11:2010
DIN EN 60745-2-1:2010
DIN EN 61000-6-4:2007+A1 2011
DIN EN 55014-1-2006+A1 2009 +A2:2008

accordance to the provisions of the
directives (2006/42/EC)

Technical File (2006/42/EC) at :
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Managing Director

18th April 2019