EIBENSTOCK
Elektrowerkzeuge

Original Instructions

ETN 2001 P

WARNING:

This product can expose you to chemicals including METHANOL, which is known to the State of California to cause birth defects or other reproductive harm.

For more information, go to:

www.P65Warnings.ca.gov

Important Instructions

Warning notices:

Warning of general danger

Warning of dangerous voltage

Warning of hot surface

Danger of being crushed

Danger of being ripped or cut

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

Use ear protection

Wear safety goggles

Wear a helmet

Use protective gloves

Wear protective boots

Wear a dust mask

Technical Data

Diamond Core Drill ETN 2001 P

Nominal voltage	120 V ~
Rated current:	15 A

Frequency:	50/60 Hz
Bit holder:	M18a
Collar clamping diam.:	53 mm
Protection class:	II
Degree of protection:	IP 20
Weight:	approx. 15 lbs.
Interference suppression acc.to:	EN 55014 and EN 61000

Gear	No-load speed	Rated speed	Max. drilling diameter
●	0 - 1100 min^{-1}	0 - 640 min^{-1}	4“
●●	0 - 2300 min^{-1}	0 - 1420 min^{-1}	3“

Content of Delivery

Diamond core drilling machine with cable-integrated PRCD-protective switch, water supply connection hose with GARDENA and instruction manual in transport case.

Application for Indented Purpose

The **ETN 2001 P** wet and dry diamond core drilling machine is, in connection with diamond drill bits, used for dry cutting in brick, masonry and sand-lime brick and wet cutting in concrete and stone.
The plastic cap also remains on the spindle during dry cutting and shall only be removed when replacing the shaft seals.
When drilling bores with a diameter of more than 3” using the 1st gear, the use of a suitable drill stand is compulsory.
The user shall be responsible for damages caused by inappropriate use.

1st gear hand drilling is prohibited!
The reaction torque may lead to hazardous situations in case of careless use.
This machine is meant for professional use only.

Safety Instructions

Safe use of the tool is only possible if the user had studied the instruction manual and safety instructions completely and is strictly following the instructions contained therein.
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.

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.

Prior to drilling in walls and ceilings, check them for hidden cables, gas and water pipes and other media. Check the working area, e.g. using a metal detector. Prior to the start of your work, consult a statics specialist to determine the exact drilling position.
If drilling through ceilings, secure the place below, because the may fall downward.

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

- Do not use the tool in an environment with danger of explosion.
- Do not use the tool standing on a ladder.
- Do not drill into asbestos-containing materials.
- Do not carry the tool at its cable, and 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.
- Modifications of the tool are prohibited.
- Unplug the tool and make sure that the switch is off if the tool is not under supervision, e.g. during preparation and take-down works, at power failures, for insertion or mounting accessories.
- Unplug the tool if is stops for any reason. So you avoid sudden starts in unattended condition.
- Do not use the tool it its shell, switch, cable or plug are damaged.
- Always lead the mains and extension cables as well as the dedusting hose from the tool to the back.
- Electrical tools have to be inspected visually by a specialist in regular intervals.
- On using the tool, in no case cooling water may seep into the motor or the electric components.

- If water comes out between the black plastic ring and the gearbox housing, stop working and have the tool repaired by an authorised service centre.
- Perform overhead drilling only with suitable protective appliances (water catcher).
- After interruption of your work, restart the tool only after having made sure that the drill bit is moving freely.
- The tool may be used only in two-hand operation or with the drill rig.
- Keep the handles dry, clean, and free of oil and grease.
- Do not touch rotating parts.
- Persons under 16 years are not allowed to use the tool.

- During use, the user and other persons standing nearby have to wear suitable goggles, helmets, ear protectors, dust mask, protective cloves and boots.
- **During manual operation, always hold the tool with both hands and be fall-safe. Consider the tool's reaction torque in case of blocking.**
- **Always work with concentration. Always work in a carefully considered way and do not use the tool if you are lacking consideration.**

For further safety instructions, see the enclosure.

Electrical Connection

The **ETN 2001 P** is designed according to protective class II.
For the user's safety, the tool may be operated only with a leakage current protector. That is why the tool includes an integrated PRCD protective switch in an earth contact socket.

Attention!

- **The PRCD protective switch must not lay in water.**
- **PRCD protective switches must not be used to switch the tool on and off.**
- **Before starting your work, check the proper function by pressing the TEST button**

Use only three-conductor cable with earth conductor and sufficient cross section (ref. to table). Too small a cross section may cause malfunction of the tool.

Extension Cord Selection

If an extension cord is used, make sure the conductor size is large enough to prevent excessive voltage drop which will cause loss of power and possible motor damage. A table of recommended extension cord sizes will be found in this section. This table is based an limiting line voltage drop to 5 volts at 150 % of rated amperes.
If an extension cord is to be used outdoors it must be marked with the suffix W-A following the cord type designation. For example — SJTW-A to indicate it is acceptable for outdoor use.

Recommended extension cord sizes for use with portable electric tools:

Length of Cord in Feet										
110 V		25 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
Nameplate Ampere Raiting	0-2	18	18	18	16	16	14	14	12	12
	2-3	18	18	16	14	14	12	12	10	10
	3-4	18	18	16	14	12	12	10	10	8
	4-5	18	18	14	12	12	10	10	8	8
	5-6	18	16	14	12	10	10	8	8	6
	6-8	18	16	12	10	10	8	6	6	6
	8-10	18	14	12	10	8	8	6	6	4
	10-12	16	14	10	8	8	6	6	4	4
	12-14	16	12	10	8	6	6	6	4	2
	14-16	16	12	10	8	6	6	4	4	2
	16-18	14	12	8	8	6	4	4	2	2
	18-20	14	12	8	6	6	4	4	2	2

The tool includes a start-up speed limiter to prevent fast expulsion fuses from unindented responding.

Additional Handle

For manual drilling, the **ETN 2001 P** may be used only together with its additional handle which comes with the tool. Place it on the gearing collar from the front and fix it by counterclockwise rotation.

Water Supply

The **ETN 2001 P** core drilling machine is suitable for both wet and dry drilling.
The water supply permanently remains on the spindle.
Never drill without water supply since the spindle could be damaged.
If there is a leakage between the black plastic ring and the housing, the water supply shall be exchanged and/or the shaft seals shall be substituted with new, slightly grease-lubricated shaft seals.

These are available at your specialised dealer's or manufacturer's shop.
The water supply (black plastic ring) can only be removed by pulling it down.
The assembly of the water supply shall be carried out by sliding it on until it snaps!
Pay attention to the position of the dowel pin (for protection against twisting).
Warning! Do not damage the sealing rings during assembly.



The machine has an external water supply provided by the work spindle.
With the help of the ball valve, you can regulate the required water quantity.
The water supply is equipped with a connection for Gardena hose couplings.

Caution: The water pressure at the connection should not exceed 3 bar.

In case of drilling overhead, the water shall be sucked off at the drill hole by a water collection ring and wet suction device for safety reasons and performance reliability of the machine.

Changing Gears

The **ETN 2001 P** is equipped with a mechanical 2-speed gearbox.
Select the speed according to the drilling diameter.
Use the speed selection to change to the next higher or lower speed until it locks. Change the speed only when the tool is not running; slightly turn the working spindle to ease the speed change.

Warning!

- **Never apply force and change the gear only when the machine is running down.**
- **Never use tools, such as hammers or pliers to change the gear.**

Changing Drill Bits




Attention!
When you use or sharpen the machine, it might heat up enormously. You could burn your hands or get cut or ripped by the segments. Therefore, always use protective gloves when changing the drill bit.

The drilling spindle has a right-hand thread.
To ease screwing on and off, always use a SW 24 open-end wrench at the drilling spindle.
Never use a hammer, because this may damage both the drill bit and the tool.
Some water-resistant grease on the drilling spindle threat or a copper ring between spindle and drill bit will simplify removal of the drill bit.

Switching ON and OFF

The drilling machine is equipped with an electronic positioning switch including a locking device.
The more the switch is pressed, the higher the speed. This allows for precise drilling when starting a hole.
Under normal working conditions, always work at maximum speed.
Caution! Do not lock the switch during hand held drilling!

Short-time operation

ON: Press the ON/OFF switch
OFF: Release the ON/OFF switch

Long-time operation

ON: Keeping the ON/OFF switch pressed, push in the arrestor button
OFF: Press and release the ON/OFF switch again

Attention!
Use the arrestor button only during operation with drill rig. Its use during manual operation is not allowed.
If the machine stops for any reason or due to power failure, immediately release the arrestor button by pressing the ON/OFF switch.
If this button is not released, the tool may unintendedly restart if the PRCD protective switch is operated and cause a danger to the user.

The machine is equipped with an electronic switch.
With this switch the speed can be regulated according how much pressure you apply.
The use is only recommended for start drilling easily.
A permanent operation with reduced speed will lead to an overload, as less cooling air will then be available for the motor which consequently overheats much faster.

Drill Bits

Do only use drill bits recommended by your specialised dealer or manufacturer. Follow their advice for particular application. Universal drill bits cannot satisfactorily drill in concrete, reinforced concrete, granite, marble and asphalt.
Too much reinforcement or very hard concrete aggregates will cause the drill bit to become blunt (polished) quickly. Sharpen the drill bit using a sharpening stick.
The hardness of the diamond segments, the speed and the material being cut are related. Follow speed instructions on the drilling machine. The ideal cutting speed is between 2 and 5 m/s.
When the drill bit is jammed or there is no progress made when drilling, check the segments to ensure that there is a sufficient amount of diamonds on the surface and replace the drill bit if necessary.

Overload Protection

To protect the user, motor and drill bit, the **ETN 2001 P** is equipped with a mechanical, electrical and thermal overload protection.

Mechanical: In the event of a sudden jamming of the drill bit, the machine's kickback is limited to a reaction torque controllable by the operator by means of a slip clutch.

Electrical: To warn the user against overstressing the tool by applying to high an advance force, the handle includes a LED. It does not light during idle run or at normal load. At overload, it lights red. In that case the tool most be stress-relieved. In case of longer non-observation of the rad indication, the electronics will independently switch the tool off. After relieving be switching the tool off and on, the work can be continued as normal.

Thermal: In case of permanent overload, a thermocouple protects the motor against destruction. In that case, the tool switches off and can only be restarted after a certain cooling-down period (approx. 2 minutes). The cooling-down time depends on the temperature of the motor winding and ambient temperature.

Safety Clutch

The slip clutch served for compensation of shocks and overload.
To keep its functionability, it should not slip for more than 2 seconds. In case of excessive wearing, it can be replaced by an authorized service centre.

Care and Maintenance

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

It is a must to unplug the tool before starting any service or repair works.
Repairs may be executed only by appropriately qualified and experienced personnel.
After every repair, the unit has to be checked by an electrical specialist.

According to its design, the tool requires a minimum of care and maintenance. However, the following maintenance works and component checks have to be performed in regular intervals:

- Clean the tool after completion of your work. Apply some grease onto the drilling spindle thread. The ventilation slots must always be clean and unclogged. Make sure that now water gets into the tool during cleaning.
- After the first 150 hours of operation, the gearing oil must be changed. Gearing oil changes bring about an essential increase of the tool's lifetime.
- After approx. 300 hours of operation, the carbon brushes have to be checked by a specialist. If they are shorter than 5 mm, they must be replaced by new, original brushes. They must be run in by a 20-min idle run of the tool. Also the condition of the commutator must be checked. In case of irregular colouring of the individual blades and surface crashes, send the tool to a service workshop.
- Once per quarter of a year, an electrical specialist should check the switch, cable and plug.

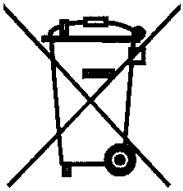
Environmental Protection

Raw material recycling instead of waste disposal

To avoid damages in transit, the tool is supplied in a sturdy packing. The packing as well as the tool and its accessories are made of recyclable materials which enable environmentally friendly and sortwise disposal by the local reception points.

Only for EU countries

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



In observance of 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.

Noise Emission

The indication of noise emission is measured after EN 62841-2-1. The level of acoustic pressure on work site could exceed 85 dB (A); in this case protection means must be used.

Wear ear protectors!

Hand-arm vibration:

Measured values determined according to EN 62841-2-1.

Vibration emission value	a_h	3,3 m/s^2
Uncertainty	K	0,5 m/s^2

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.

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 industrial vacuum cleaner DSS 25/50 for wood and/or minerals together with this tool.
- The work place must be well ventilated.
- The use of a dust mask of filter class P2 is recommended.

In Care of Malfunction

In case of malfunctions switch the tool off and pull the mains plug. Repairs on the electric parts of the tool may only be performed by an electrical specialist.

Error	Possible Cause	Error Recovery
Machine does not work.	mains current supply interrupted	plug in another electric appliance and check the functioning
	line cord or plug damaged	have it checked by an electric specialist and replaced if necessary
	switch damaged	have it checked by an electric specialist and replaced if necessary
	the PRCD-switch is off	press RESET to switch on
motor runs, drill bit does not rotate	gearbox damaged	have the tool repaired by an authorised service workshop
drilling speed too slow	water pressure / water flow rate too high	regulate the water quantity
	drill bit damaged	check if drill bit is damaged and replace it if necessary
	gearbox damaged	have the tool repaired by an authorised service workshop
	drill bit polished	sharpen the drill bit with a sharpening stick while using the flush
motor shuts down	the tool stops	lead the tool in a straight manner
	the tool overheats, overload protection of the motor has reacted	discharge the tool and restart it by pressing the switch a couple of times
	carbon brushes are worn out - auto-stop brush switch off	both brushes must be replaced with original brushes by an electrical specialist

Warranty

Tools from Eibenstock are covered by a warranty according to the legal and national regulations (to be verified by invoice or delivery note).
Damages caused by natural wear, overload and incorrect use are excluded from warranty.
Only damages in the result of material and manufacturing faults will be eliminated free of charge, either by replacement or by repair.
Complaints will be recognised only when the tool was transferred in assembled condition to the supplier or one of Eibenstock's authorised service workshops.

EU-Declaration of Conformity

We declare under our sole responsibility that the product described under "Technical Data" is in conformity with the following standards or standardization documents:
EN 62841-1:2016-07
EN 62841-2-1:2020-07
EN 55014-1:2017/A11:2020
EN 55014-2:2021-04-01
EN 61000-3-2+A1:2019-03-05
EN 61000-3-3:2020-07
EN IEC 63000:2019-05
according to the provisions of the directives 2011/65/EU, 2014/30/EU, 2006/42/EG

Technical file (2006/42/EC) at:

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