

OPERATING MANUAL



END 130/3P Wet Diamond Core Drill



Manufactured by: EIBENSTOCK Elektrowerkzeuge GmbH, Auerbergstraße 10, D-08309 Eibenstock

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Wet Diamond Core Drill

Technical Characteristics

Rated Voltage:	110 V AC
Rated Power Input:	1700 W
Load Speed:	1 st speed: 600 2 nd speed: 1300 3 rd speed: 2800
Max. drilling diameter:	1 st speed: 130 mm 2 nd speed: 70 mm 3 rd speed: 40 mm
Protection Class:	I
Inteference Suppression:	as per DIN VDE 0875, EN 55014 and 89/336/EWG
Collet:	G ½ " female
Net Weight:	about 7,5 kg
Collar clamping diam.:	60 mm
Special accessories:	Drill Stand B 150 for holes up to 130 mm Adapter ½ " male – 1 ¼ " male



For professional use only!

The conformity with the 73/23/EEC and 89/336/EEC guidelines is indicated by the CE symbol.

All rights of alterations due to technical development reserved!

Safety Instructions



1. Safe work with the machine is only possible if you read this operating instruction completely and follow the instructions contained strictly.
2. When drilling in ceilings or walls make sure you will not cut through electrical mains, gas or water pipes. Use metal detection systems if needed.
3. Before using the machine you need to check cable and plug. Damages should only be eliminated by an authorised specialist. Take care that the tool is switched off when plugged into a power receptacle.
4. The machine has to be protected from moisture.
5. Take care with long hairs. Do only work with tight fitting clothes and safety glasses.

ON-OFF Setting

The machine is equipped with an ON/OFF switch with locking which allows a soft start-up and an accurate spot-drilling.

Attention: Don't lock the switch for hand-drilling!

Short-Time Operation – Free-Hand-Drilling

Switching-on: press the on/off switch

Switching-off: release the on/off switch

Permanent Operation – Drilling with drill stand

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

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

Overload protection

In order to protect the operator, the machine and the drill bit the machine is equipped with a mechanical, an electronic and a thermal overload protection.

Mechanical: If the drill bit is suddenly blocked in the hole, a clutch will slip disengaging the bit from the motor.
Pay attention to the reaction torque.

Electronic: For the warning of the user at overload of the machine in case of too large crowd force there is installed a LED into the hand grip. In no-load operation and normal load occurs no indication.
In case of overload the LED glows red. Then you have to remove the load.
For longer disregard of the red LED it follows a self-contained of the machine.
After discharge and reengagement one you can drill again.

Thermal: When continuous overload is applied (despite the electronic device) a thermal protection will protect the motor. In this case the machine disengages itself and can be put into operating after waiting for cooling down (approx. 2 minutes). The time needed to be able to restart the machine will be vary dependent on overheating of the coil and the ambient temperature.
To speed up the cooling down of the machine let the machine after the restart run 1 – 2 minutes without load.

The stop of the machine caused by overload is no failure. After an adequate time it is possible to restart working!

Water Supply

The machine is equipped with an internal water supply through the work spindle. With the help of the ball tap you can regulate the water quantity. The water supply is equipped with a connector for Gardena-hose coupling.

If there is a water leakage on the hole of the gear collar please stop your work immediately.

In this case the shaft seals have to be changed from a authorized skilled work shop.

Attention! The water pressure should not be higher than 3 bar!

In case of drilling "overhead" you have to exhaust the leak out water at the drill hole by water suction ring and wet-vacuum cleaner for reasons of safety at work and reliability.

6. The machine should only work under supervision of sbd. 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 (under 200 V) or when fixing or mounting an accessory.
7. Switch the machine off if it stops for whatever reason. You avoid that it starts suddenly and not under supervision.
8. Don't use the machine if a part of the housing is damaged or in case of damages on the switch, the cable or plug. (check it every day!)
9. When using the drill, cooling water is not allowed to get into the motor and all electrical parts.
10. Stop working when water is dripping out of the overrunning bore hole and take the machine to an authorised service shop.
11. Overhead-drilling only with suitable safety measures (water collection)
12. After a breakdown the machine should only be switch on again if the drill bit can be turned.
13. Do not touch rotating parts.
14. Persons under 16 years are not allowed to operate with the machine
15. **When using the machine with manual control always hold it with both hands and take up a safe position. Pay attention to the reaction torque of the machine.**

For further safety instructions please refer to the enclosure!

Main instructions

In connection with diamond wet drill bits the END 130/3 P is destined for wet drilling in concrete and stone. For drilling diameter bigger than 40 mm and the use of the 1st or 2nd speed you have to use a suitable drill stand.

Hand Drilling in the 1st gear is not allowed. Due to uncareful use the arising reaction torque can lead to an endangering!

The operator is responsible for all damages which may arise due to improper handling!

Auxiliary Handle

In hand held drilling operations, only use the END 130/3 P with the enclosed auxiliary handle. This handle must be tighten on the collar, by turning the lever.

Putting Into Operation

First, check the correspondence between voltage and frequenz against the data mentioned on the identification plate. $\pm 5\%$ voltage difference is allowed. For protection purposes the machine is delivered with a integrated PRCD-switch for the direct connection to a grounded socket. Check the PRCD before using the machine (please read the separate instruction)!

Attention! Don't use PRCD-switch for switching on / off the machine!

Use only 3-wire extension cable with protecting conductor and sufficient cross-section (min. 2,5 mm²). A cross-section which is to small could lead to excessive power loss and to overheating the motor and the cable.

The drilling progress must correspond with the bit diameter and the drive power of the machine so that the rated power will be not exceed.

Gear Shifting

Choose the proper speed according to the drill bit size used.

For drilling up to a diameter of 40 mm we recommend switch position III, up to 70 mm switch position II and for drilling of more than 70 mm switch position I.

If you are not able to bring the gear removing switch in the end position, please turn the drilling spindle.

Attention! Switching only when the machine is stonned and clockwise!

Electrical Safety

The END 130/3 P machine has class 1 protection.

For operator full protection this machine must only be used by wet drilling with fault current protection device. Therefore the END 130/3 P is standard equipped with PRCD protection switch for the use on a grounded socket.

Care and Maintenance

Before starting work at the machine make sure that the machine is disconnected from the mains!

Due to its design, the machine needs a minimum of care and maintenance.

Nevertheless, you should always observe the following:

- Keep the electric tool clean
- Avoid any particle or part to penetrate inside the tool
- If the machine is defect let carry out a repair only through an authorized workshop.

Environmental Protection



Raw Material Recycling instead of Waste Disposal

In order to avoid damages on transportation, the tool has to be delivered in a solid packaging. Packaging as well as unit and accessories are made of recyclable materials and can be disposed accordingly. Plastic components are marked which makes it possible to remove environmental friendly and differentiated because of available collection facilities.

Noise Emission

The indication of noise emission is measured after DIN 45 635, part 21. The level of acoustic pressure on work site could exceed 85 dB (A); in this case adequate protection means must be used.

Warranty

Tools from EIBENSTOCK are covered by a warranty (6 month) according to the legal and national regulations. (to be verified by invoice or delivery note). Damages caused by natural wear, overload and incorrect handling are excluded from warranty. Only damages in the result of material and manufacturing faults will be eliminated free of charge, either by repair or replacement. Complaints will be recognised only when the tool was transferred in assembled condition to the supplier or one of EIBENSTOCK'S authorised service shops.