



EIBENSTOCK

Elektrowerkzeuge

Original Instructions



END 130/3.2 PO



Important Safety Instructions

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



Warning of general danger



Warning of dangerous voltage



Warning of hot surface



**Machine, drill bit and rig are heavy
- danger of being crushed**

In order to protect yourself, implement the following actions:



Wear ear protectors



Wear protective goggles



Wear protective helmet



Wear protective gloves



Wear protective boots



WARNING:

This product can expose you to Lead (Pb) that is known to the State of California to cause cancer.

For more information go to

www.P65Warnings.ca.gov

Specifications

Diamond Wet Core Drill END 130/3.2 PO

Rated voltage:	120 V ~
Power current:	15 Amp

Frequency:	50/60 Hz	
Rated speed:	1 st speed:	700 rpm
	2 nd speed:	1600 rpm
	3 rd speed:	3400 rpm
No load speed:	1 st speed:	1100 rpm
	2 nd speed:	2500 rpm
	3 rd speed:	4900 rpm
Max. drilling diameter:	1 st speed:	6"
	2 nd speed:	3 1/4"
	3 rd speed:	1 3/4"
Protection class:	I	
Collet:	G 1/2" female	
Net weight:	about 16 lbs.	
Collar clamping diam.:	60 mm	
Inteference suppression:	as per DIN VDE 0875, EN 55014 and EN 61000	

Subject to alterations!

Special accessories:

Drill Stand B 150 for holes up to 152 mm
Adapter 1/2" male – 1/4" male

Supply

Diamond Wet Core Drill with PRCD protective switch integrated in the cord, open-end wrench SW 32 and SW 41, adapter G 1/2" female – 5/8" male, adapter G 1/2" female – 1/4" male and operating instructions in transport case.

Application for Indented Purpose

With an appropriate diamond drill bit, the **END 130/3.2 PO** can be used for wet drilling of concrete and stone.

For drilling jobs with diameters above 60 mm and drilling in the 1st gear you have to use a suitable drill stand.

Drilling in the 1st gear without drill rig is prohibited! Due to uncareful use the arising reaction torque may cause danger to the user!

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

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.



If the mains cable gets damaged or cut during use, do not touch it, but instantly pull the plug out of the socket. Never use the tool with a damaged mains cable.



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.

Before you start working, consult a statics specialist to determine the exact drilling position.

If drilling through ceilings, secure the place below, because they 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 near explosive materials.
- Do not work on a ladder.
- Do not work with materials containing asbestos
- Do not carry the tool at its cable, and always check the tool, cable and plug before use. Have damages only repaired by specialists. Only insert the plug into the socket when the tool switch is off.
- Modifications of the tools are prohibited.
- Pull the plug out of the socket and make sure is switched off when the machine is not under supervision, e.g. in case of putting up and stripping down, in case of voltage drop or when fixing or mounting an accessory.
- While working, lead the line cord or extension cord to the back away from the tool.
- Switch the machine off if it stops for whatever reason. This way you avoid that it starts suddenly and not under supervision.
- After an interruption of work the machine should only be switched on again if the drill bit can be turned easily.
- Do not use the machine when one part of the housing is damaged or in case of damages on the switch, cable or plug.
- Electric tools have to be inspected by a specialist in regular intervals.
- When using the machine, no cooling water is allowed to get into the motor and the electric mounting parts, no matter in which position you work.

- If water leaks from the space between gearbox housing and water supply, stop working and have the tool repaired in an authorised service workshop.
- Overhead-drilling only with suitable safety measures (water collection).
- Keep the handles dry, clean and free of oil and grease.
- Do not touch rotating parts.
- Persons under 16 years of age are not allowed to use the tool.
- When working with this tool, wear goggles, a protective helmet, ear protectors, protective gloves and protective boots.



- **Always hold the machine with both hands and maintain a safe standing position. Always consider the reaction moment of the tool.**
- **Always work concentrated. Always work in a carefully considered way and do not use the tool when you are not concentrated.**

For further safety instructions, please refer to the enclosures!

Additional Handle

In hand held drilling operations, only use the **END 130/3.2 PO** with the enclosed auxiliary handle. This handle must be tighten on the collar, by turning the lever.



Electrical Connection

First, check the correspondence between voltage and frequency against the data mentioned on the identification plate. Voltage differences of +6 % to -10 % are allowed. The **END 130/3.2 PO** is made in protection class I. For protection purposes the machine can only be run with a GFCI. The machine is standard equipped with a PRCD protective switch integrated in the cord which allows to connect the unit directly to a grounded 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. (Please read the separate instruction!)**

Use only 3-wire extension cable with protecting conductor and sufficient cross-section (see chart). A cross-section which is too small could cause a failure of the machine. 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.

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 on a limiting line voltage drop to 5 volts at 150 % of rated amperes.

If an extension cord is to be used outdoor 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 Rating	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.

Changing Gears

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! Only shift gears during run-out of the machine!

Switching ON and OFF

The machine is equipped with an ON/OFF switch with locking.

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



Attention!

Use the lock button only when using a stand. In the case of any stopping of the machine or current interruption the lock button has to be released immediately by pressing the on/off switch, to prevent an unintentional restarting of the machine (danger of injuries).

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 an 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.

Overload Protection

In order to protect the operator, the machine and the drill bit the machine is equipped with a mechanical and electrical 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: In case of overload the electric overcurrent-cut-off switch will switch off the machine.
In case the lock button is engaged, disengage it!

On pressing the overcurrent-cut-off switch!

After pressing in the electric overcurrent-cut-off switch (on the handle, opposite of the on-off switch) again, work can be continued preferably with not as much pressure on the tool.

In case of overload the electric overcurrent circuit breaker will switch off the machine.



In case the lock button is engaged, disengage it!

With locked on/off switch the machine restarts immediately on pressing in the overcurrent circuit breaker.

After pressing in the electric overcurrent circuit breaker (on the handle, opposite of the on/off switch) and switching on the machine again, work can be continued preferably with not as much pressure on the tool.

Important notice: The stop of the machine caused by overload protection is no failure. After pressing in the electric overcurrent circuit breaker work can be continued.

Care and Maintenance



Before starting with the maintenance- und repair works you have to disconnect the plug from the mains.

Repairs have to be carried out only by qualified and due to education and experience suited 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. The following works have to be carried out regularly:

- The electric tool as well as the ventilation slots always has to be clean.
- During work, please pay attention that no foreign elements get into the interior of the machine.
- In case of failure, a repair has to be carried out by an authorized service workshop.

Environmental Protection



Raw material recycling instead of waste disposal

In order to avoid damages on transportation, the power tool has to be delivered in sturdy packing. The packing as well as the tool and its accessories are made of recyclable materials and can be disposed accordingly. The tool's plastic components are marked according to their material, which makes it possible to remove environmental friendly and differentiated because of available collection facilities.

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 / Vibration

The indication of noise emission is measured according to EN 62841-2-1. The level of acoustic pressure on the work place could exceed 85 dB (A); in this case protection measures must be taken.



Wear ear protectors!

The typical hand-arm vibration is below 2.5 m/s².
Measured values determined according to EN 62841-2-1.

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.

In Case of Malfunction



In case of breakdown, switch the motor off and disconnect it from the power. Repairs of the electrical parts may only be performed by an authorised service specialist.

Trouble Shooting

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
water drops out of the gearbox housing	shaft sealing rings damaged	have the tool repaired by an authorised service workshop

Warranty

According to our general terms of delivery for business dealings, suppliers have to provide to companies a warranty period of 12 months for redhibitory defects (to be documented by invoice or delivery note). Damages due to natural wear, overstressing or improper handling are excluded from this warranty. Damages due to material defects or production faults shall be eliminated free of charge by either repair or replacement. Complaints will be accepted only if the tool is returned in non-dismantled condition to the manufacturer or an authorized Eibenstock service centre.

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 IEC 55014-1:2022-12

EN IEC 55014-2:2022-10

EN 61000-3-2+A1:2019-03-05

EN 61000-3-3:2023-02

EN IEC 63000:2019-05

according to the provisions of 2011/65/EU, 2014/30/EU, 2006/42/EG

Technical file (2006/42/EC) at:
Elektrowerkzeuge GmbH Eibenstock
Auersbergstraße 10
D – 08309 Eibenstock



Lothar Lässig
General Manager



Frank Markert
Head of Engineering

GB - Declaration of Conformity

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according to the provisions of 2011/65/EU, 2014/30/EU, 2006/42/EG

Technical file (2006/42/EC) at:
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Lothar Lässig
General Manager



Frank Markert
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Your distributor

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