



EIBENSTOCK

Elektrowerkzeuge

Original Instructions



END 712 P



Important Instructions

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



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



Work concentrated and carefully. Keep your work-place clean and avoid dangerous situations.



In order to protect the user, take precautions.

During work you should wear goggles, ear protectors, protective gloves, and water proofed working clothes!



wear ear protectors



wear goggles



wear protective gloves



wear protective boots

Technical Data

Diamond Wet Drill END 712 P

Rated voltage:	120 V ~
Rated current:	6,0 A
Order number:	0301F000

Frequency:	40/60 Hz
Max. drilling diameter:	½" (silod diamond drill set) ¾" (diamond core drill set)
Spindle connection:	M 12 x 1.5 male
Load speed:	0 - 8500 rpm
No load speed:	0 – 12000 rpm
Protection class:	II
Degree of protection:	IP 20
Weight:	about 5,0 lbs.
Interference suppression:	EN 55014 and EN 61000

Supply

Diamond Wet Drill with PRCD protective switch integrated in the cable, side handle with depth gauge, mounting tools and operating instructions in a metal case.

Available add-ons:

Item	Order No.
Centering device with drilling template	3583A000
Diamond drill bits, length 60mm M 12 x 1,5; 3,5 – 12 mm	
Diamond core drill bits, length 60mm M 12 x 1,5; 6 – 14 mm	
Diamond drill bits, length 150mm M 12 x 1,5; Ø 6 - 12 mm	
Sharpening block	35910000
Water tank 5l	35811000

Application for Indented Purpose

Together with special wet drill bits, the **END 712 P** is made for drilling tiles, granite, marble, natural stone etc. from 3.5 – 12 mm diameter. The diameter of the drill bits should not exceed 12 mm.

The work spindle of the machine has a M 12 x 1.5 – external thread.

Keep threads and front surface clean.

Please hold up with a jaw wrench SW 13 to remove the drill bits.

Attention!

Only use original EIBENSTOCK drill bits.

They were especially developed for the END 712 P, have a high concentricity and work very effectively.

In case of using other drill bits, we cannot assume any liability!

Safety Instructions



Safe work with this machine is only possible if you read this operating instruction completely and follow them 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 connection cable gets damaged or cut during use, do not touch it, but immediately pull the plug out of the socket, Never use the tool with a damaged connection 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 expert to determine the exact drilling position.



The tool must neither be wet nor used in humid environment.

- Do not use the tool near explosive materials.
- Do not work on a ladder.
- Do not work with materials containing asbestos
- 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 ear protectors, dust mask and goggles.



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

For further safety instructions, please refer to the enclosures!



Electrical Connection

First, check the correspondence between voltage and frequency against the data mentioned on the identification plate. Voltage differences from + 6% to – 10% are allowed. The **END 712 P** is made in protection class II.

For protection purposes, the machine can only be run with a GFCI. For this reason, the **END 712 P** is standard delivered with an integrated PRCD protective switch which can be used for a ground socket.

Attention!



- **The PRCD protective switch must not lay down 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.**

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

Water Supply

Connect the tool to the water supply or a water tank by using the GARDENA connector. Attention! The max. water pressure should not exceed 6 bar. In case the water pressure is higher, you should use a pressure reducer.

Switching on and off

Short-Time Operation

Switching-on: press on/off switch
Switching-off: release on/off switch

Permanent Operation

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

Attention!

In case of any stopping of the machine or current interruption, the arrestor button has to be released immediately by pressing the on/off switch. In case the arrestor button is not released, the machine might unintentionally restart when pressing the PRCD protective switch (danger of injuries).

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.

Drilling

The contact pressure while drilling should be measured in a way that the machine is not overloaded. An increased contact pressure does not lead to faster drilling.

Only use the END 712 for wet drilling. Dry drilling causes damages on the shaft sealing rings and early wear of the drill bit.

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 tool has to be delivered in solid packaging. Packaging as well as unit and accessories are made of recyclable materials and can be disposed accordingly.

The tool's plastics 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

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

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

Sound pressure level L_{WA} 75 dB(A)

Sound power level L_{pA} 86 dB(A)

Uncertainty K 3 dB



Wear ear protectors!

Vibration total values a_h and uncertainty K determined according to EN 62841-2-1:

Vibration emission value a_h 2,7 m/s²

Uncertainty K 0,3 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.

Warranty

According to the general supply conditions 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.)

Damage 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 was returned in non-dismantled condition to the manufacturer or an authorized Eibenstock service centre.

CE 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

EN 62841-2-1

EN 55014-1

EN 55014-2

EN 61000-3-2

EN 61000-3-3

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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Ihr Fachhändler
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