EIBENSTOCK
Elektrowerkzeuge

Original Instructions

EHB 20 / 2.4

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, protective gloves and sturdy work clothes!

wear ear protectors

wear goggles

wear protective gloves

Warning notices

Warning of general danger

Warning of dangerous voltage

Warning of hot surface

Danger of being ripped or cut

Technical Data

Hand-Held Drilling Machine EHB 20 / 2.4

Rated Voltage	120 V ~
Rated Current	10.5 A
Order Number	0132DUSA

Frequency: 50 / 60 Hz
Max. Drill Diameter wood: 3”
aluminium: 1 ¼”
steel: ¾”
Collet: MT 2
Protection Class: II
Degree of Protection: IP 20
Net Weight: about 9,2 lbs.
Interference Suppression: EN 55014 and EN 61000

Gear	Rated Speeds	No load Speed
I	275 rpm	420
II	500 rpm	750

Subject to technical alterations!

Available special accessories:

Item	Order No.
Taper mandrel B16/MT 2	33111000
Taper mandrel B18/MT 2	33112000
Drill drift size 2	33210000
Keyless drill chuck B16 max. clamping diameter 13 mm	33431000
Keyless drill chuck B16 max. clamping diameter 16 mm	33441000
Scroll chuck B18 max. clamping diameter 16 mm	33342000
Drill chuck key 13	33520000
Drill chuck key 16	33540000
Adapter MT 2 male – M 14 female	33113000

Supply

Hand-held drilling machine, operating instructions, drill drift size 2 and additional handle in a cardboard box

Application for Indented Purpose

The hand-held drilling machine **EHB 20** / **2.4** is designed for professional use. Together with the appropriate drills it is used for drillings in steel, wood, plastics etc. The tool diameter of twist drills should not exceed 20 mm.

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 connection 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 a damaged connection 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.

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 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. Only insert the plug into the socket when the tool switch is off.
- Modifications of the tool are prohibited.
- When the machine runs outside, always use a protection switch (30 mA max.) against fault current.
- Plug and switch the machine off if it is not under supervision, e. g. in case of putting up and stripping down the machine, in case of setting up and striking, voltage drop or when fixing or mounting an accessory.
- Switch the machine off if it stops for whatever reason. This way, you avoid that it starts suddenly and not under supervision.
- Do not use the machine if one part of the housing is damaged or in case of damages on the switch, cable or plug.
- While working always lead the line cord and extension cord to the back away from the machine.
- Electric tools have to be inspected visually by a specialist in regular intervals.
- Do not touch rotating parts.
- 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.
- Persons under 16 years of age are not allowed to use the machine.
- During use, the user must wear goggles, ear protectors and protective gloves.



- **During use, hold the machine with both hands and maintain a safe standing position. Always consider the reaction moment of the tool.**
- **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, please refer to the enclosure!

Electrical Connection

Before starting the machine, please check the correspondence between voltage and frequency against the data mentioned on the identification plate. Voltage differences of + 6 % and – 10 % are allowed. The Hand-Held Drilling Machine **EHB 20** / **2.4** 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.

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

Additional Handle

The EHB 20/2.4 may be used only together with its additional handle which comes with the tools.

Place it on the gearing collar from the front, bring into the requested position and fix it tightly by counter clockwise rotation of the handle.

Instructions

Only use faultless and sharp drilling tools and avoid that the machine stops due to overload.

Mounting the tool

Disconnect the plug from the mains before every tool change!

Twist drills:

- Drills with MT 2 connection can be directly fit in the drill spindle.
- For twist drills with MT 1 connection use a reducing sleeve MT 2 – MT 1.
- For twist drills with parallel shank use a drill chuck B18 with appropriate taper mandrel MT 2 - B18.

Core drills:

- For working with core drills you need a mount MT 2 – Ø 19 Weldon.
- Fit the ejector pin of suitable length in the core drill.
- Place the core drill in the Weldon mount so that the two Allen screws hit the two surfaces of the shaft.
- Tighten the Allen screws equally.

Attention!
Never press the tool into the tool connection with might and main!
Morse tapper and – cone have to be free of grease and dirt.

Removing the tool
Put the drill drift in the opening of the gearbox collar.
If you cannot insert the drill drift through the work spindle, turn the work spindle slightly.
Remove the tool from the work spindle by a slight impact on the drill drift.

Tool Protection

Wrong handling can cause damages on the tool and injuries of the user. Therefore, the following instructions should be observed:
Do not allow blocking of the tool.
Only use original accessories made by EIBENSTOCK.

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-on button

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

Attention!

Only press the lock-on button when using a stand. In case of every stop of the machine, the lock-on button has to be released immediately by pressing the on/off switch. Consequently, you can avoid an unintentional restart of the machine (physical hazard).

Speed Selection

The machine is equipped with a mechanical two-speed gearbox. Select the required speed by pressing-in, shifting and engaging. The position of the lower speed is in direction of the working spindle. Change the speed only when the machine is not running, and support the speed-changing by slightly rotating the work spindle.

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

Measured sound values determined according to EN 60745.
Typically the A-weighted noise levels of the product are:

Sound pressure level	L_{pA}	77 dB(A)
Sound power level	L_{wA}	88 dB(A)
Uncertainty	K	3 dB

Wear ear protectors!

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

Vibration emission value	a_h	0,8 m/s^2
Uncertainty	K	0,1 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.
- The work place must be well ventilated.
- The use of a dust mask of filter class P2 is recommended.

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, EN 62841-2-1, EN 55014-1, EN 55014-2, EN 61000-3-2
EN 61000-3-3, EN 50581. EN IEC 63000
according to the provisions of the directives 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

04.11.2021

GB - Declaration of Conformity

We declare as the manufacturer under our sole responsibility that the product described under “Technical Data” fulfi lls all the relevant provisions of the following Regulations S.I. 2008/1597 (as amended), S.I. 2017/1206 (as amended), S.I. 2012/3032 (as amended) and that the following designated standards have been used:

BS EN 62841-1, BS EN 62841-2-1, BS EN 55014-1, BS EN 55014-2,
BS EN 61000-3-2, BS EN 61000-3-3, EN 50581, BS EN IEC 63000

Technical file (S.I. 2008/1597) at:

Elektrowerkzeuge GmbH Eibenstock
Auersbergstraße 10
D – 08309 Eibenstock

Lothar Lässig
General Manager

Frank Markert
Head of Engineering

04.11.2021

Subject to change without notice.

Your distributor

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www.eibenstock.com

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