

Original operating instructions – AREBOS concrete grinder

# AREBOS

## Concrete grinder

AR-HE-XM 1500



Follow all safety precautions in this user manual to ensure safe use.



Thank you for your trust in AREBOS.

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Thank you for purchasing our product. Please read the instruction manual carefully before using the product for the first time. If you leave the product to third parties, these operating instructions must also be handed over.

# 1. Safety

## 1.1 Explanation of symbols



A CE marking can be used to recognize that a product complies with the legal provisions of European legal standards and may therefore be traded within the European Community.



This product must **not** be disposed of with household waste!



Protective insulated housing (protection class II)!



**Warning!** Wear safety goggles!



**Warning!** Wear hearing protection!



**Warning!** Wear a protective mask!



**Warning!** Wear protective gloves!



This product has been tested and certified by TÜV Süd. The symbol "GS" stands for tested safety. Products that start with marked with this mark, comply with the requirements of the German Product Safety Act (ProdSG).

## 1.2 Safety regulations

- This appliance is intended for domestic use.
- When using a device near children, conscientious supervision is necessary.
- Never place or use the appliance in a wet or humid environment.
- Do not use the appliance under water, e.g. in the shower.
- Never bring the appliance into direct contact with fire, gas, oxygen or hot objects such as hotplates.
- Switch off the appliance before servicing or repairing it.
- Handle the device carefully so that it cannot be dropped or otherwise damaged.
- If problems occur with the device, repair it immediately. Don't try to fix it yourself.
- Do not lubricate or wash the appliance.

### General safety instructions:

#### 1.2.1 Safety work area

- Keep your workspace clean and well-lit. A messy work area can lead to accidents.
- Do not use power tools in potentially explosive environments such as flammable liquids, gases or dust particles. Power tools produce sparks that can ignite flammable fumes.
- Keep the tool away from children and other people during use. You could lose control of the device in the event of a distraction.

#### 1.2.2 Electrical safety

- To use the tool, it is necessary that the plug of the tool is connected to the mains. The plug must not be altered or modified in any way.
- Avoid physical contact with grounded surfaces, such as pipes, heaters, stoves and refrigerators, during use. There is an increased risk of electric shock if your body is grounded.
- Keep the device protected from rain or moisture. Water ingress into the inside of a tool poses a risk of electric shock.
- Do not misuse the cable. Do not use the cords to carry, pull, or disconnect the power tool. Keep the cord away from heat, oil, sharp edges, or moving parts. Damaged or tangled cables increase the risk of electric shock.

- If you work with a power tool outdoors, only use extension cords that are also suitable for outdoor use. Using an extension cord suitable for outdoor use reduces the risk of electric shock.
- If the operation of the power tool in a humid environment is unavoidable, protect yourself by using a circuit breaker RCD. The use of a circuit breaker RCD reduces the risk of electric shock.

### **1.2.3 Safety of persons**

- Be attentive, pay attention to what you are doing and go to work with reason. Do not use a power tool if you are tired or under the influence of drugs, alcohol or medication. A moment of carelessness when using the device can lead to serious injury.
- Use personal protective equipment. Always wear eye protection, safety equipment such as masks against dust, sturdy safety shoes, safety helmet or hearing protection to reduce the possibility of injury under appropriate operating conditions.
- Avoid unintentional start-up of the device. Make sure that the switch is in the off position in front of the connection to the power supply.
- Remove all control keys before turning on the appliance. A key in a spinning part can cause injury.
- Don't overestimate yourself. Only use the appliance in a secure position and keep your balance at all times. This allows for better control of the tool in unexpected situations.
- Dress appropriately. Do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts. Loose clothing, jewelry or long hair can be caught by moving parts.

### **1.2.4 Commissioning and maintenance**

- Do not overload the tool. Use the correct tool for the specified application.
- Disconnect the device from the power supply before making any settings, such as changing accessories. Such preventive safety measures reduce the risk of uncontrolled starting of the tool.
- Keep your tool out of the reach of children and people who cannot operate the tool according to these instructions. Tools in the hands of inexperienced users are dangerous.
- Take care of the tool. Check that there is no misalignment of spare parts or moving parts. Many accidents are caused by poorly maintained tools.
- Use tools, accessories and blades, etc. in accordance with these instructions, taking into account the working conditions. Using the tool for applications other than those intended may lead to dangerous situations.

### **1.2.5 Maintenance and**

service Have the tool serviced by a qualified service technician who uses only identical spare parts. This ensures that the safety of the tool is maintained.

### **1.3 Special safety instructions**

- This power tool is to be used as a rehabilitation milling machine. Observe all safety instructions, instructions, illustrations and data that you receive with the device. If the power tool is not used correctly, electric shock, fire and/or serious injury may occur.
- This power tool is not suitable for grinding, sanding sandpaper, working with wire brushes, polishing and cut-off grinding. Use in areas of application for which the power tool is not intended can cause hazards and injuries.
- Only use accessories that have been specifically designed and recommended by the manufacturer for this power tool. Even if you can attach other accessories to your power tool, this does not guarantee safe use.
- The permissible speed of the tool must be at least as high as the maximum speed indicated on the power tool. Accessories that rotate faster than allowed can break and fly around.
- The outer diameter and thickness of the insert tool must correspond to the dimensions of your power tool. Incorrectly dimensioned tools cannot be adequately shielded or controlled.
- Grinding wheels, flanges, sanding pads or other accessories must fit exactly on the grinding spindle of your power tool. Insertion tools that do not fit 100% on the power tool can cause uneven rotation and/or strong vibration, resulting in loss of control.
- Only use operational tools that are in perfect condition. Before each use, check your tools for chipping and cracks, wear or heavy wear. If the power tool or insert tool falls, check to see if it has been damaged or use an undamaged insert tool. Once you have inspected and inserted the tool, keep and anyone nearby outside the plane of the rotating tool and let the tool run at maximum speed for one minute. Damaged deployment tools often break off during this test period.
- Wear personal protective equipment. Depending on the application, use full face protection, eye protection and/or goggles. Where appropriate, wear a dust mask, hearing protection, protective gloves or special apron that keeps small particles of material away from you. The eyes should be protected from flying foreign objects that arise during various applications. Dust masks or respirators must filter the dust generated during use. If you are exposed to loud noise for a long time, you may experience hearing loss.
- Make sure that other people keep a safe distance from your work area. Everyone entering the work area must wear personal protective equipment. Fragments of the workpiece or broken insert tools can fly away and cause injuries outside the immediate work area.
- When carrying out work where the tool can hit hidden power lines or its own power cord, hold the appliance only by the insulated grip surfaces. Contact with a live line can also energize metal parts of the device and lead to an electric shock.
- Keep the power cord away from spinning insert tools. If you lose control of the device, the power cord may be cut or captured, which could cause your hand or arm to get caught in the spinning insert tool.

- Never put down the power tool before the appliance comes to a complete standstill. The rotating insert tool may come into contact with the shelf, which can cause you to lose control of the power tool.
- Do not run the power tool while you are carrying it. Your clothes can be caught by accidental contact with the spinning insert tool, which can cause the insert tool to drill into your body.
- Regularly clean the vents of your power tool. The motor blower draws dust into the housing, and a large accumulation of metal dust can cause electrical hazards.
- Do not use the power tool near flammable materials. Sparks can ignite these materials.
- Do not use insert tools that require liquid coolants. The use of water or other liquids may result in electric shock.

#### **1.4 Setback and corresponding safety instructions**

Setback is the sudden reaction as a result of a hooked or blocked rotating insert tool. Snagging or blocking will result in an abrupt stop of the rotating insert tool. As a result, an uncontrolled power tool is accelerated against the direction of rotation of the insert tool at the blocking point. If an insert tool hooks or jams in the workpiece, the insert tool that is immersed in the workpiece can become entangled, causing the insert tool to break out or cause a kickback. The tool then moves towards or away from the operator, depending on the direction of rotation of the tool at the blocking point. In this case, insertion tools can also break. A kickback is the result of incorrect or incorrect use of the power tool. This can be prevented by taking appropriate precautions, as described below.

- Hold the power tool tightly and put your body and arms in a position where you can absorb the kickback forces. Always use the auxiliary handle, if available, to have the greatest possible control over kickback forces or reaction moments during start-up. The operator can control the kickback and reaction forces by taking appropriate precautions.
- Never bring your hand near spinning tools. The insert tool can move over your hand in the event of a kickback.
- With your body, avoid the area where the power tool will be moved in the event of a kickback. The kickback drives the power tool in the direction opposite to the movement of the insert tool at the blocking point.
- Work especially carefully in the area of corners, sharp edges, etc. Prevent insert tools from bouncing back and jamming from the workpiece. The rotating insert tool tends to jam in corners, sharp edges or when it bounces. This causes a loss of control or setback.
- Do not use a chain or serrated saw blade. Such tools often cause a setback or loss of control over the power tool.

#### **Warnings**

- Never bring the appliance into direct contact with water or other liquids.
- Do not touch the appliance with wet hands.
- Only operate the appliance with the specified mains voltage.
- Always unplug the power cord from the wall outlet after use and before cleaning.

- If the device has fallen into the water, do not reach for it! First, unplug it from the power outlet.
- Do not store the appliance near a sink or bathtub as there is a risk that it may fall into a sink or the bathtub.
- In order to avoid any risk of injury, blocking or damage to the device, make sure that the running device does not come into contact with clothing, cords, shoelaces, bristles, wires, threads or the like.
- Never leave the appliance unattended when used by children or inexperienced persons.
- Make sure that children do not play with the device.
- Use the appliance only for applications as described in these instructions for use.
- Use only attachments and accessories approved by the manufacturer.
- Never use the appliance after the power cord has been damaged, the appliance has been dropped, or it has come into contact with water.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or with a lack of experience and/or knowledge, unless they have been given supervision by a person responsible for your safety and have been given instructions on how to use the appliance.
- Do not use the appliance under blankets and pillows, as excessive heat may cause fire, injury, or electric shock.
- Do not carry the appliance by the cord or use the cord as a handle.
- When you exit the application, unplug the power cord.
- Use extension cords only if you have previously satisfied yourself that they are in perfect condition.
- Never let children play with the packaging material. There is a risk of suffocation.

## 2. Use

### 2.1 Momentary switching:

Press and hold the power button to turn it on, release it again to turn it off.

### 2.2 Long-term use:

- Power on: Press the power button and hold it in position with the lock button after pressing.
- Power off: Press the power button again before releasing it to release the latch.

### Attention!

In the event of any mechanical standstill or power interruption, the locking knob must be released immediately by pressing the on/off switch, which is intended to prevent the machine from restarting unintentionally.



### **2.3 Height adjustment:**

The AR-HE-XM150 concrete/rehabilitation milling machine has a height-adjustable protective hood. You can set this individually as follows:

**(FIG.)**

- Switch off the device and interrupt the power supply.
- Unscrew the three thumbscrews.
- Pull the brush ring down until the depth stop can be twisted
- Set the desired milling depth.
- Pushing the brush ring upwards.
- Tighten the wing screws.
- Check the strength of the protective hood before starting work.

### **2.4 Tool change:**

#### **Attention!**

Before any work on the device, the mains plug must be unplugged! Furthermore, the inserts can be hot. Be sure to wear protective gloves! If the turnstile has been damaged, it may only be replaced by a specialist workshop. Make sure you use gloves and don't cut yourself on the cutter stars.

(Image)

- Release the three wing nuts from the height adjustment. Remove the brush ring and the height adjustment
- Loosen the M8 screw on the underside of the tool with a hexagon socket wrench.
- **Attention, it is a left-hand thread!**
- Hold the sleeve for the turnstile with the stars as well as the pressure washers. Renewal of the milling stars.

**Attention!** Only hexagon socket screws with applied screw lock can be used.

The dust produced during grinding could lead to tilting of the milling stars. The result is reduced stock removal rate or increased wear. Make sure that the stars remain free to move and release them. Clean the appliance more frequently if necessary.

### **2.5 Extraction and dust protection:**

When working on some surfaces, dust that is harmful to health can be produced, which can cause allergic reactions if it comes into contact with the skin or if it is inhaled. These include: materials with lead-based paint, some types of wood, minerals or metals. Therefore, use the dust extraction device and always wear a dust mask.

#### Installation of the suction:

- Plug the short piece (1) into the suction device of the concrete grinder and connect it to a hose.
- Connect the longer end piece (2) to the end of the hose and connect it to a vacuum cleaner.

(Image)

### 3. Technical data

Type	Concrete grinder
Speed	2500-4500 rpm
Power supply	230-240 V / 50 Hz
Milling head diameter	125 mm - 140 mm
Rated power	1500 watts
Class	II
Protection	IP 20
Weight	approx. 5.30 kg
Noise level	LpA = 90.4 dB(A), KpA = 3 dB(A)
Sound power level	LWA = 101.4 dB(A), KWA = 3 dB(A)

Sudden changes in temperature should be avoided due to the formation of condensation inside the device. After a sudden change in temperature, do not use the appliance until the indoor and outdoor temperatures have equalized.

The specified vibration emission value has been measured according to a standardized test method and can be used to compare one power tool with another.

The declared vibration emission value can also be used for an introductory assessment of the exposure. The vibration emission value may differ from the declared value during actual use of the power tool, depending on the way in which the power tool is used.

Try to keep the exposure to vibration as low as possible. Exemplary measures to reduce vibration exposure are the wearing of gloves when using the tool and the limitation of working hours. All parts of the operating cycle must be taken into account (e.g. times when the power tool is switched off and those when it is switched on but running without load).

### 4. Maintenance and care

Pending repairs may only be carried out by qualified personnel. The device has been designed in such a way that only a minimum of care and maintenance is required.

However, the following points must always be observed:

- Keep the power tool and vents clean at all times.
- When working, make sure that no foreign objects get inside the power tool.
- In the event of a failure of the device, a repair must only be carried out by an authorized workshop.

## 5. Transport and storage conditions

An abrupt change in temperature should be avoided due to possible condensation of the device. Therefore, do not put the device into operation until the temperature has been adjusted.

<b>Transport</b>	Transport only in original packaging
<b>Transport and storage temperature:</b>	+ 5 ° C to + 50 ° C
<b>Operating temperature</b>	+ 10° C to + 40° C
<b>Atmospheric pressure</b>	700 - 1060 hPa

## 6. Disposal instructions

### 5.1 Disposal and packaging

- Please ensure that the packaging is disposed of appropriately in accordance with the guidelines and standards applicable in your region. In some cases, the packaging may consist of plastic bags - in this regard, take special care to ensure that they do not get into the hands of children. There is a risk of suffocation!

### 5.2 Disposal of old equipment

- Old appliances must be disposed of in accordance with the directives and the regulations of local waste disposal.

### 5.3 Meaning of the symbol "garbage can"



Protect our environment, electrical appliances do not belong in the household waste. Use the collection points provided for the disposal of electrical appliances and hand in your electrical appliances there that you will no longer use. In this way, they help to avoid the potential effects of incorrect disposal on the environment and human health. In this way, you are making your contribution to the reuse, recycling and other forms of recovery of waste electrical and electronic equipment. Information on where to dispose of the devices can be obtained from your municipalities or municipal administrations.

**Our customer service number: +49 (0) 931-45232700**

## **EU Declaration of Conformity**

We, the

Canbolat Vertriebs GmbH, Gneisenaustraße 10-11, 97074 Würzburg, Germany

hereby declare that the devices described below comply with the relevant essential health and safety requirements of the EU directives due to their design and construction as well as in the designs placed on the market by us.

Product Name: Arebos Concrete Grinder

Article number: 4260199752364

Model Number: AR-HE-XM 1500

If the device is modified without our consent, this declaration of conformity loses its validity.

Tested for:

EU standard:

EN 60745-1: 2009/A11:2010

EN 60745-2-3: 2011/A12:2014

AfPS GS 2014:01 PAK

Date/Signature Manufacturer/Location: Würzburg, 26.04.2019

Signature:

Dipl.-Inform. (Univ.) Korhan Canbolat, Managing Director

Representative of these instructions for use/technical data:

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