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# **INSTRUCTION MANUAL**

## **EUROKOMAX MS650 UNI**

**Block and Stone Bench Saw (with diamond blade)**

**WARNING: Please read and understand perfectly the present instruction before using the machine.**



**Dear Customer!** Thank you for your trust. We are happy you chose to purchase a cutting machine produced by our company. We hope you will be satisfied with your purchase over a long period of time.

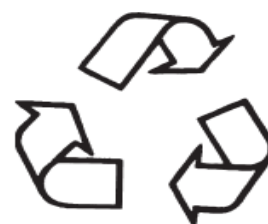
Please read through all safety warnings and instructions carefully, because any failure to do so may result in accidents involving serious personal injury. For future reference, please keep this manual in a safe place. Using the machine for its intended purpose will provide you with long-term trouble free operation.



## ENVIRONMENT PROTECTION

Raw materials have to be collected instead of throwing away residuals. Instruments, accessories, fluids and packages have to be sent into specific places for ecological reutilisation. Plastic components are marked for selective recycling.

Residuals arising of electrical and electronic instruments have to be stored into specific places for selective collection.



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## WARRANTY CERTIFICATE

Repairs under warranty made by us are subject to some strict condition to guaranty a high quality and service. EUROKOMAX KFT guarantees all its products against any manufacturing defect; to take into account the conditions stated in the attached document "WARRANTY CONDITIONS".

EUROKOMAX KFT reserves its right to bring modifications and changes to its products without prior notice.

## WARRANTY CONDITIONS

- 1.) The products against defects in design, taking responsibility in the repairs or the faulty equipment for a period of **ONE year** from the original date of purchase. The date of purchase must appear on the warranty voucher enclosed.
- 2.) The warranty covers exclusively labour, repair and substitution of the faulty parts, the model and serial number of which must show on the warranty certificate.
- 3.) The warranty does not cover any damage caused by the normal wear, undue usage, overloading, inadequate installation or bad conservation of the machine.
- 4.) All repairs under WARRANTY will solely be effectuated by EUROKOMAX KFT or by its authorised dealers or repair centres.
- 5.) This Guarantee will be invalid in the following cases:
  - a) Any Warranty certificate manipulation or modification
  - b) Repairs, modifications or substitution of any part of the machine by unauthorized parties by EUROKOMAX KFT technical department.
  - c) The non-approved installation of devices by EUROKOMAX KFT technical department.
- 6.) EUROKOMAX KFT is not responsible for any damages caused by the failure of the product. This includes, but not limited to, annoyances, transport expenses, telephone calls and loss of personal goods or commercial benefits, as well as the loss of pay or salary.
- 7.) Faulty thermal or electrical motors under warranty have to be sent to EUROKOMAX KFT or its authorized technical service in the country.
- 8.) To be benefit from the warranty, the warranty certificate must be at EUROKOMAX KFT premises within 30 days from the purchasing date. To claim the warranty, the purchase invoice has to be attached stamped by the dealer including the serial number of the machine.
- 9.) Any defect or failure caused by supposed warranty reason must be reported to the manufacturer during the warranty period.



## **1. General description**

The MS650 brick cutter is a multi-functional machine used for wet cutting of floor tiles, flagstones, stairs, natural stone, masonry, hollow blocks. The diamond plate is only suitable for cutting bricks, block bricks, concrete and reinforced concrete. When cutting materials other than this, apply for a special diamond plate at our customer service.

One of the great advantages of this easy to maintain machine is its transportability and simple handling thanks to its weight and size. Another great feature is its precision cutting. As the machine operates on 400 V, it requires industrial power supply. The MS700 brick cutter can be used with a diamond saw blade having a maximum diameter of 650 mm.

## **2. Basic safety instructions**

### ***2.1 General safety regulations***

- The manufacturer and the distributor undertake warranty exclusively in case of professional use.
- The manufacturer and the distributor shall not be liable for any accident or damage resulting from inappropriate use.
- The machine has been designed in compliance with internationally recognized safety regulations. However, inappropriate use may entail a danger of death or accident of the user or other persons involved in the job, or it may cause damage to the machine or its accessories.
- The machine may be used exclusively under technically appropriate circumstances, in accordance with the provisions of the instruction manual and the current international safety regulations, solely by persons who are aware of the danger situation occurring while using the machine. Any functional irregularity, especially that concerning machine safety, should be eliminated without delay!
- Any alteration or modification of a part of the machine will invalidate the warranty and may result in damage to or injury of the person using the machine, or harm to the environment. The manufacturer shall not be liable for the consequences involved.

### ***2.2 Safety regulations to be followed during operation***

- The instruction manual should be kept at the place where the machine is being used. The manual should be accessible to the machine operator.



- In addition to the instruction manual, all other officially applicable and mandatory regulations pertaining to accident prevention and environmental protection should be observed! These regulations include the handling of dangerous substances and the provision/use of personal protective equipment.
- This instruction manual should be supplemented by guidelines relating to the control and specification of individual organizational units (e.g., work organization, work processes, staff in charge of the job at hand).
- Prior to use, the person in charge of operating the machine should read the manual through. It applies specifically to persons using the machine only in specific cases, e.g., while installing or maintaining it.



- The staff should be checked for adherence to the instruction manual and due attention to the risk factors affecting safety.
- For safety reasons, long hair should be suitably protected. Closed working clothes should be worn. Wearing jewellery (e.g., rings) should be avoided. Moving parts of the machine present a hazard to persons wearing such items, and may lead to accidents.
- Personal protective equipment, which includes protective glasses, ear-muffs, protective boots, protective gloves, protective helmets, and protective clothing, should be worn at all times. The regulations related to the prevention of accidents should be followed!



- All safety precautions and warnings connected to the machine should be observed.
- In the event of a change in the operation of the machine or in safe working conditions, the machine should be immediately stopped and disconnected from the electric network. The person in charge should be informed about the irregularity.
- No safety device installed on the machine should be removed or made non-operational.
- No changes should be made to the safety devices without the prior approval of the manufacturer/distributor. The same applies to commissioning and maintaining the safety devices, as well as drilling and soldering performed on accessories.
- Faulty or battered parts of the machine should be removed after disconnecting them from the electric network, without undue delay. Use original parts only!
- Only accessories and tools meeting the requirements specified by the manufacturer/ distributor should be used with the machine.
- Any maintenance or repair activity should be performed by properly trained personnel using appropriate tools.



### **2.3 Safety regulations related to personnel**

- Only suitably trained persons (operators) may use the machine.
- Personal protective equipment, which includes protective glasses, ear-muffs, protective boots, protective gloves, protective helmets, protective clothing, should be worn at all times.



- The regulations related to the prevention of accidents should be followed.



- The machine should not be operated by persons under the influence of alcohol or drugs.
- Only the operator may be present within the operational range of the machine.
- Always disconnect the machine from electricity before installing a blade.
- Disconnect the machine from electricity before replacing a used blade, and wait until the blade stops.

#### **2.4 Safety regulations to be observed while operating the machine**

- Ensure maximum safety of the site around the machine prior to work (see details under Section 3).
- Before commencing work, secure the pull-down/folding legs of the machine with the locking nut after undoing them.
- Secure the removable legs of the machine with the lobe knob.
- Make sure the machine is installed on a flat and stable surface, and occurs in a balance state.
- After setting the cutting depth, secure the bridge with the hand lever.
- Before commencing work, make sure the diamond saw blade is ready for use, its direction of rotation (indicated on the blade) is appropriate, and the blade is securely fixed.
- Make sure the electric connection is appropriate (Section 3.3) and prevent the wire carrying a current from getting into contact with splashing water or humidity.



- Never use electrical equipments close to flammable or explosive materials or gases.



- Make sure that the blade shaft and related parts are properly maintained.
- Replace used cutting blades. Worn-off blades do not cut properly and may cause an accident.
- Make sure that the material to be cut is fixed and does not move off during cutting.
- Do not put your fingers near the rotating blade. Use your hands only for fixing the object securely.



- Wear protective equipment at all times (see details under Section 2.3).
- Make sure there is sufficient water in the water tank of the machine to cover the water pump at all times. Otherwise the water pump will get overheated and damaged, thus it may cause an accident.

#### **2.5 Handling liquid and greasy substances, other chemicals**



- Prevent liquid and greasy substances, especially high temperature liquids, from getting into contact with your skin. In such an event, thoroughly clean the skin to remove such substances.
- Follow the safety regulations relating to such substances.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### ***2.6 Gas, dust, vapour, smoke***

- Certain processes (soldering, grinding) involving the risk of fire or explosion, as well as jobs requiring the use of open flame, may be performed only in possession of a licence.
- Before commencing work, thoroughly clean the machine, cables and other accessories to remove dust and other substances involving fire hazard.

### ***2.7 Noise***

- Use the noise reducing parts of the machine only for their intended purpose.
- Use ear muffs to reduce the noise.

### ***2.8 Lighting***

- The machine is designed for daylight use. Ensure proper illumination for working in other periods.

## **3. Commissioning and handling of the machine**



- Please make sure to read through the instruction manual before putting the machine into operation.
- The MS650 has removable legs. Before commencing work, insert the legs and secure them using the lobe knobs.
- The machine can be moved with the wheels on the back legs. Roll the machine on the wheels.
- Make sure the machine is placed on a level surface.

### ***3.1 Filling the water tank***

- Fill the water tank with water.
- Use at least as much water as is necessary to totally immerse the water pump in the water.

### ***3.2 Installing the blade***

- Before installing the blade, make sure the machine is not connected to the electric network.
- Loosen the protective housing of the diamond saw blade and open the external blade protecting cover.
- Loosen the hexagon nut on the blade shaft (counter-clockwise) holding the external clamping disc.
- Remove the external clamping disc.
- Mount the blade on the shaft, make sure the direction of rotation of the diamond saw blade is appropriate and the diamond saw blade rest flush with the internal clamping disc.
- The direction of rotation of the diamond saw blades is indicated on the blades. Make sure they are properly installed to ensure maximum cutting efficiency.
- Reinstall the external clamping disc on the shaft.
- Tighten the hexagon nut (counter-clockwise) using the special tool designed for this purpose.
- Replace the external blade protecting cover and tighten the clamping screw of the cover (clockwise).
- After setting the cutting depth, secure the bridge with the nut.

### ***3.3 Connecting the machine to electricity***

- Connect the machine to the electric network.
- Using an industrial cable with a cross-section of 5x2.5 mm<sup>2</sup> is recommended (using an inappropriate extension cable may lead to inoperability of, or even damage to the machine).
- The machine operates on 400V.
- Make sure the source of electricity complies with the data found in the identification plate.
- The machine is only as standard with up to 30mA nominal trigger current power supply is protected protection switch can be operated.
- The electrical connectors of the machine are supplied with protective earthing. In line with the regulations of protection, the network source of electricity should be provided with earthing.
- The electric motors are protected against overheating.



- If the machine gets overheated and switched off, allow the machine to cool off before restarting it (checking the cutting blade and the amount of water is also recommended).

### **3.3 Starting**

- Press the green button to start the water pump and the motor. Use the red button to stop them.
- Starting up will affect both the water pump and the motor. Check to see if water appears on the side of the diamond saw blade, which means the water pump delivers sufficient water.
- Before cutting, make sure that the water pump runs freely (is clean).
- Place the object to be cut on the receiving platform close to the cutting guide and beside the rear displacement arrester.
- Be careful to keep your hands away from the cutting blade during the operation.
- Push the receiving platform towards the rotating blade slowly and without excessive pressure, then begin to cut the object.
- After the daily work is completed, disconnect the machine from electricity and perform daily maintenance.

## **4. Maintenance**

- Maintenance may only be performed by trained staff.
- Prior to maintenance, disconnect the machine from electricity and wait until the blade stops rotating.
- Place the machine on a firm base or surface to perform the maintenance.
- Clean the machine parts from impurities, dirt, slippery/greasy substances. Pay special attention to the rubber handle of the push-bar to prevent an accident. Avoid cleaning the electric parts of the machine with water.
- Clean the rolling track of the platform.
- Check the cables, wires, and the various connection points both before and after cleaning. Make sure the cables are not damaged.
- While installing the diamond saw blade, clean the edges of the clamping discs, the shaft of the blade, and make sure they are ready for use.
- Clean the water cooling system periodically, at least once daily, and check the internal surface to avoid mud or dirt deposit that may clog the system. (After opening the bayonet lock of the water pump, wash off any deposit of mud or flush the water pump through with clear water.) If you do not use the machine for a lengthy period of time, remove the water pump from the water and empty the system to avoid freezing or deposit of cut matter in the tray.
- Clean the water sprinklers and the plastic water pipes on a regular basis.
- Prior to replacing a worn out blade, disconnect the machine from electricity and wait until the blade stops rotating (in accordance with Section 3.2).

### **4.1 Maintenance of the electric components**

- The electric parts and connections of the machine may be checked and maintained only by a specialist.
- Prior to using the machine, make sure the electric cables, accessories and other fittings are securely connected.
- Make sure the cables are not damaged.



## **5. Technical description**

### **5.1 The frame**

- The frame is a welded reinforced steel construction which ensures perfect stiffness. The machine is complete with a high capacity water tray, supplied with a drain plug. The frame includes a built-in transporting handle and wheels to assist transportation.

### **5.2 The cutter**

- The welded bracket is supplied with a tip shaft, rotating in highly loadable bearings. The bracket holds the electric motor, the belt drive and its protecting cover, as well as the blade shaft and its accessories. The bearings are designed to ensure a perfect fit and operation.

### **5.3 The receiving platform**

- A high capacity large painted/galvanised receiving platform, supplied with a scale and a cutting guide (brick support).
- The platform moves on bearing rollers and is secured against tilting.

### **5.4 The water cooler**

The cooler system includes:

- 1 submerged pump
- 1 plastic pipe that delivers water from the water tray to the cutter
- 1 high capacity water tray, supplied with a drain plug
- 1 water tap for adjusting the amount of water
- 2 sprinklers mounted on the blade protector to ensure sufficient flow of water on both sides of the blade
- Panels attached to the frame and the blade protector to prevent water splashing and minimize water loss

## **6. Transporting the machine**

- Use only appropriate transportation devices for transporting the machine.
- Before transportation, make sure the machine and the accessories are securely fastened.
- Prior to transportation, secure the platform, drain the water, and remove the legs.



**Technical data of the EUROKOMAX MS650 UNI brick cutting machine:**



Blade diameter:	650 mm
Internal bore diameter:	25.4 mm
Cutting depth max.:	270 mm
Max. cutting length:	870 mm
<b><u>Motor capacity:</u></b>	<b><u>4 kW / 400 V / 50 Hz</u></b>
Machine dimensions : l x w x h	1710x600x1300 mm
Power consumption:	16 A
Rotation of the motor:	2880 /min
Weight:	115 kg
Water tank capacity:	62,5 l
IP protection:	IP55
Advancement:	manual
Legs:	removable





# MANUFACTURER'S DECLARATION



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## EK MEGFELELŐSÉGI NYILATKOZAT

Nyilatkozat azonosítója: 2008/11

Kijelentjük, hogy az alábbiakban részletezett termékek, a CE jelölés feltüntetésére vonatkozó jogszabályoknak eleget tesznek.

- **MS400**
- **MS650**
- **MS700**
- **MS900**

Megnevezés: **Téglavágógép**

Jelen nyilatkozat alapjául az alábbi szabványok szerinti tanúsítványai szolgálnak:

- MSZ EN ISO 12100:2011
- MSZ EN 14396-2:1985
- MSZ EN ISO 7010:2013
- MSZ-04-963-2:1987
- MSZ-04-963-1:1987
- MSZ EN 60529:2001
- MSZ EN 55014-1:2003
- MSZ EN 55014-2:1999
- MSZ EN 61000-3-2:2002
- MSZ EN 61000-3-3:2009

a 16/2008. (VIII.30.) NFGM rendelet értelmében.

Budapest, 2014.07.10.

Márton Endre  
Ügyvezető

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A termékhez csatolt útmutatót, valamint az általános biztonsági előírásokat a használat során be kell tartani.