



# **USER'S MANUAL**

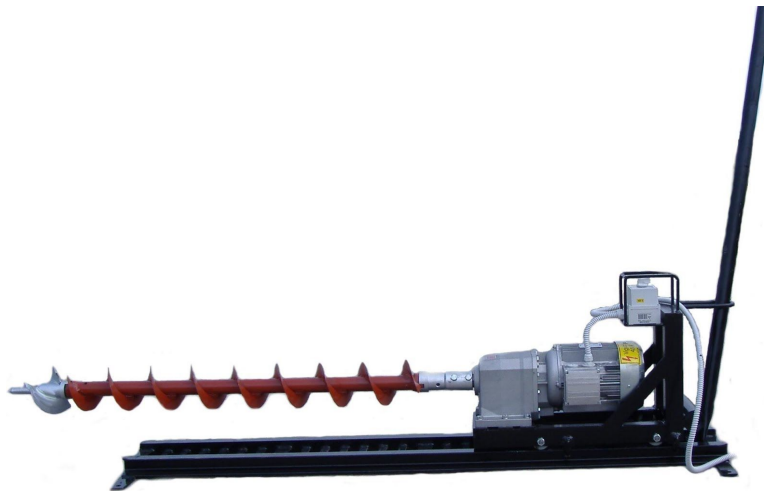
## **EUROKOMAX ELECTRIC HORIZONTAL EARTH DRILL SET**

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

EUROKOMAX KFT thanks you for your trust in our products and for purchasing the EUROKOMAX electric horizontal earth drill set (400 V/50 Hz).

This manual provides you with the necessary instructions to start, use, maintain and in your case, repair of the present machine. All aspects as far as the safety and health of the users is concerned have been stated. Respecting all instructions and recommendations guarantees safety and low maintenance. As such, reading this manual carefully is compulsory for any person responsible for the use, maintenance or repair of this machine.

It is recommended to have always this manual in an easily accessible place where the machine is being used.



## 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.



## 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.

## TECHNICAL CHARACTERISTICS

MODEL	EUROKOMAX Electric horizontal earth drill
Power supply	400 V / 50 Hz
Motor power	2,2 kW
Max. diameters	250 mm
Drilling range	10 - 15 m
Weight (motor)	35 kg
Dimensiones (L*A*H)	170*50*60 cm

### Accessories included:

- Guiding rail - 1 pc.
- Pushing rod - 1 pc.
- Spikes for fixing the rail - 4 pc.

### Accessories available:

- Cardan-shaft - 1 pc.

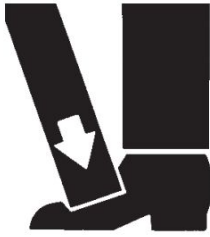
## SAFETY RECOMMENDATIONS

ATTENTION: You are to follow all safety recommendations mentioned in the present user manual and comply with all other national and local labour risks prevention and electrical safety rules and norms in every location.

The manufacturer is not responsible for the consequences possibly generated but the inadequate use of the machine or its componenets.



- **VERY IMPORTANT:** Before starting up the machine please read the instructions and make sure safety norms are respected.
- Learn how to stop the machine in a fast and safe way (Main switch)
- When using the equipment always consider the general safety recommendations and the best practice of the activities.
- Always prepare the working place and work with due care.
- Never use electrical equipments close to flammable or explosive materials or gases.
- Never use the machine for purposes other than those it has been designed for.
- Prohibit strangers to access the place of work of the machine.
- Place the machine only even, solid surface.
- Connect the machine to the electricity only when you are sure of its stability.
- Make sure the feeding voltage is in accordance with the voltage indicated on the machine.
- Always use earth plug before starting-up the machine.
- Before connecting the mains check all the screws, nuts etc. are tight on the machine.



- Before drilling always check the planned hole would not cross electrical cables, water, gas or sewage pipelines or any other infrastructural facilities might be under the ground.
- Always avoid the unintentional start of the machine.
- After finishing the job, have power failure or in case of suspending the drilling for longer time because of any reason always detach the machine from the electric network.



- When you have to move the machine, unplug the electric cables and block the moving parts of the machine.
- If any unregular noise, vibration or movement occur immediately stop the drilling and consult technician.
- Always keep protection elements and the safety guards in their correct positions.
- Keep feet clear of the machines's moving parts at all times.
- Do not leave machine running unattended.
- The damaged electrical cables should be urgently replaced.
- Always use electrical machines protected from rain or moisture.
- Use only standardized cables, plugs and sockets!
- NEVER pull or lift the machine by the electric cable!
- Make sure that the extension cords are not in contact with points of high temperature, oil, water, sharp edges. Also avoid trampling or crushing the cables by passing vehicles.
- Immediately replace the extension cord if damaged.
- Do not put any objects on the machine.
- Do not modify, convert or alter any part of the machine!
- Use only original parts (from the manufacturer) for replacing and repairing!
- Electrical repairs and maintenance must be carried out by trained and qualified repairman or workshop.
- Do not use the machine under the influence of medicines, drugs or alcohol.



- **Never detach the machine from the mains if the engine is running.**
- If not in use store the machine in a cool dry place.

- Always use Individual Protection Equipment (IPE) in accordance with the type of work you are effectuating.
- It is recommended to use safety glasses, safety boots, gloves etc. Please always use approved materials.



- Unplug the machine from the electricity and never manipulate nor operate on the mechanical nor electrical elements of the machine while the engine is on.
- Work clothes and jewelry are not supposed to have loose articles that can cling into movable parts of the machine.
- Make sure that the machine can not move during cleaning, maintenance or repair.
- Keep the machine and its accessories clean.
- Do not use water to clean circuits or electrical elements.
- Have every worn parts or failure immediately repaired.

## DESCRIPTION AND USAGE

Horizontal earth drilling equipments are the best, cost-effective solution drilling under roads or any other surface block without breaking them. It is the most efficient way to place into the ground the electrical cables, the water, gas and sewage pipelines or any other required infrastructural facilities should run under the ground. The maximum drilling range is 15 m and they can be used in most type of grounds. Each augers is 1 m long and they can be connected by their ends one by one as the drilling proceeds. The augers can be ordered with diameters of 130, 200, 250 mm.




**Earth drill can be used under the ground on horizontal ways.** The drill bit works in the ground and an electric motor assures its turning. The drilled earth will be removed out of the hole by the turning of the connected augers. The soil will be taken out of the hole by a worker with a help of a shovel. Pushing forward the drill unit is done by forcing the pushing rod on the guide rail.

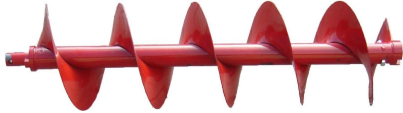
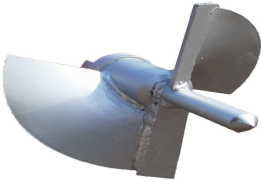


### Applications




The drill is very useful tool making the hole under the ground for electrical cables, water pipes and any kind of lines or networks. In this industry many times happened that these kind of works had to be done without breaking the surface or road. Without the right kind of tools huge additional costs, big problems can occur and delays in deadline.

Max. range of the earth drill is  
15 m.







It can be used in different type of soils, either a loose sandy soil, a hard clay surface or pebble ground.

	<b>Electric engine with gearbox:</b> assure the required R.P.M. and torque for drilling. Right-left switch for drilling the hole. The chuck is fixing the augers and turning them. All the joining ends of the augers and the chuck has a feature to transmit the torque and link them together. Using of the additional fixing screw is necessary (pulling out the augers).
	<b>Guide rail:</b> The drilling unit moves forward and backwards on it. Fixed to the ground with spikes, see below. Measures: Length: 1700 mm, Width: 400 mm, Height: 45 mm, Weight: 10,5 kg
	<b>Pushing rod:</b> Assures the forward pushing. Length: 1500 mm, Width: 400 mm, Diameter: 42 mm, Weight: 4,2 kg

	<p><b>Auger:</b> Delivering the torque to the drill bit and cleaning out the hole. Augers can be fixed to each other in different orders (changeable). We provide 10 pieces of augers to each drill unit. Length: 1000 mm, Diameter: 130, 200, 250 mm.</p>
	<p><b>Drill bit:</b> To cut out the earth and transfer it to the auger. Drill bit has a low reacting force, two-edges, „butterfly head” and can be connected to any of the augers. Length: 200-300 mm, Diameter: 130, 200, 250 mm.</p>
	<p><b>Spikes:</b> It is to put down through the guide rail into the ground in order to fix it and avoid the drill unit move away. Length: 35 mm, Diameter: 10 mm, Weight: 0,3 kg</p>
	<p><b>Cardan-shaft:</b> Aligning (if it is necessary) the chuck and the augers during the drilling process.</p>

	<p>After having prepared the starting pit (2,5 m by 0,7 m) level and fix the guide rail to the ground with four spikes.</p>
	<p>Slide the engine on to the rail from the back direction to the starting position. Connect the auger and the drill bit to the machine.</p>
	<p>Turn the main switch to right and start the drilling. ATTENTION! Check the direction of rotation! Push forward the drill by using the pushing rod.</p>



	<p>Setting up the additional augers: stop the engine.</p>
	<p>Disconnect the auger from the chuck.</p>
	<p>Pull backwards the machine to the starting position and clean the pit.</p>
	<p>Connect the next auger between the auger in the ground and the chuck. Do not forget the fixing screws!</p>
	<p>Start drilling again. When the second auger goes into the ground too, disconnect it off the machine, pull backwards the drill, shovel the earth away, connect to the next auger to the chuck and begin the work again. Repeat these steps until the road is drilled through.</p>
	<p>When the drill bit appears on the other side of the road (receiving pit) you can start pulling out the augers. Running backwards the engine by switching the Main Switch to reverse the augers will turn themselves backwards. If the total length of one auger is out of the hole stop the engine and dismantle the auger from the one in the ground and pull it off the chuck. Repeat this process until all the augers will get out of the ground.</p>



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## EU Megfelelőségi Nyilatkozat

Az EUROKOMAX Kft. ezúton igazolja, hogy a cégünk által forgalmazott, az alábbiakban részletezett építőipari gép,

Megnevezés: **Elektromos ipari talajfúrógép (400V/50Hz)**

megfelel a következő szabványoknak:

MSZ EN 292-1  
MSZ EN 292-2  
MSZ EN 292-2/A1  
MSZ EN 791  
MSZ EN 60204-1

A fenti előírások szerint lefolytatott vizsgálatokat az ÉMI-TÜV Bayern Kft. végezte.

Vizsgáló műszaki állomás: **ÉMI-TÜV Bayern Kft.**  
1043 Budapest, Dugonovics u. 11

Vizsgált termékek megnevezése: **Elektromos ipari talajfúrógép**

Vizsgált termék gyártási száma/év: 0001/2004

Jegyzőkönyv szám: MMT-505/04., 2004.08.03

A hivatkozott jegyzőkönyvek alapján a gépek megfelelnek az Európai Unió gépek gyártására vonatkozó irányelveinek, az azokhoz tartozó előírásoknak és a vonatkozó szabványoknak.

Márton Endre

ügyvezető

Budapest, 2013.07.16.

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