



MK-2000P

**HAND HELD WET CORE DRILL
OWNER'S MANUAL &
OPERATING INSTRUCTIONS**



CAUTION:

Read all safety and operating instructions before using this equipment

Enter the Serial Number of your new drill in the space below. The Serial Number is located on the casing of the drill.

SERIAL NUMBER:

NOTE:

For your (1) one year warranty to be effective, complete the warranty card (including the Serial Number and mail it in as soon as possible.

Technical Characteristics:

Voltage:	110/120 V
Input Power:	1700 W
Load Speeds:	1 st Speed – 0 – 1000 rpm 2 nd Speed – 0 – 2000 rpm
Hand Held Drilling Capacity Up to:	1.58 in. / 40 mm
Stand Mounted Drilling Capacity Up to:	3.9 in. / 100 mm
Protection Class:	I
Weight:	12.32 lbs. / 5.6 kg
Collar Clamping Diameter:	2.1 in / 53mm



**This machine is meant for
Professional use only!**

All rights of changes due to technical development reserved.

Safety Instructions:

1. Working safely with the MK-2000P is only possible if you read this operating instruction completely and strictly follow the instructions contained within.
2. When drilling through ceilings or walls, make sure you will not cut through electrical wiring, gas lines or water pipes. Use metal detection systems if needed.
3. Check the MK-2000P for damage prior to use. Inspect the cord and plug for cuts, frays and damage. Have damage repaired by authorized repair technicians. Take care that the ON/OFF switch is in the OFF position before inserting the plug into a power receptacle.
4. The MK-2000P must not be operated wet, nor used in humid ambient conditions.
5. Do not wear loose clothing when operating the MK-2000P. Long hair must be kept away from the MK-2000P during operation.
6. Used only extension cords and plugs approved for outdoor work.
7. The MK-2000P should be used with a Ground Fault Circuit Interrupter (GFCI)
8. The MK-2000P is manufactured with class 1 electrical safety protection.

For further safety instruction, refer to the enclosure.

Operating the MK-2000P:**Auxiliary Handle**

In hand held drilling operations, only use the MK-2000P with the Auxiliary Handle fixed. The Auxiliary Handle must be tightened on the collar, by turning the lever.

ON/OFF Switch

The MK-2000P is equipped with an electronic ON/OFF switch. Each time the switch is pressed, the speed of the drill becomes higher. This allows very precise drilling. Under normal working conditions, always operate the MK-2000P at maximum speed.

Gear Shifting

The speed of the drill will need to be adjusted in accordance with the size of the core bit being used. The speed of the drill is adjusted by rotating the Speed-selector in the clockwise direction, while turning the drill shaft by hand until the clutch is engaged.

If the Speed-selector is in the "o" position, drill speed can be adjusted from 0 to 1000 rpm.

If the Speed-selector is in the "oo" position, drill speed can be adjusted from 0 to 2000 rpm.

For core bits with diameters above 2.8 in. / 70 mm, operate the drill using the "o" (0 to 1000) rpm range.

For core bits with diameters below 2.8 in. / 70 mm, operate the drill using the "oo" (0 to 2000) rpm range.

- ⚠CAUTION**
1. When using the handheld method, operate the drill in the 0 to 2000 rpm range only.
 2. Always check the core bit manufactures recommendation for use.
 3. Gear shifting should only be performed in the clockwise direction when the drill is stopped.

Starting a Hole

It is easier to start a hole with a centering bit. The switch allows the drill to be operated at slow speed for safely introducing the bit into the material. A normal pilot hole should be from .2 to .4 inches (5 to 10 mm) in depth. Once the pilot hole is created, the centering bit can be removed and replaced for full speed operation.

Overload Protection:

To protect the operator and the drill, the MK-2000P is equipped with three overload protective devices – mechanical, electronic and thermal. In case of overload, the MK-2000P is equipped with a warning device.

Mechanical Overload Protection

If the core bit is suddenly blocked in the hole, a clutch will slip disengaging the bit from the motor.

Electronic Overload Protection

If excessive penetration speed results in an overload condition, an electronic switch will open disconnecting the motor from the power supply.

Once the drill is removed from the hole and the electronic switch is reset, coring may resume.

Thermal Overload Protection

If the drill is operated in a continuous overload condition and the Electronic Overload Protective device fails, the Thermal Overload protective device will interrupt power to the motor.

Once actuated, the motor must be allowed to cool to reset the Thermal Overload protective device. Time required for the Thermal Overload protective device to reset will vary depending on the temperature of the motor and ambient temperature.

Acoustic Overload Warning

In case of overload, a continuous acoustic warning signal will sound.

When the Acoustic Overload Warning is heard, it is recommended that the operating speed and applied pressure be immediately reduced, and/or, the core bit be operated under a no-load condition.

NOTE: If the MK-2000P stops due to the activation of one of the overload protective devices, this should not be considered an equipment failure.

Water Supply:

The MK-2000P is equipped with an intake cooling water flow control valve that can be placed vertically or horizontally. A quick disconnect is supplied with the unit for ease of operation.

Water flow enters through the flow control valve and exits directly through the center of the motor shaft.

Cooling flow may be adjusted using the cooling water flow control valve

⚠CAUTION Do not operate with water pressure greater than 43.5 PSI (3 Bars)

Care and Maintenance:

Clean the MK-2000P following use.

Do not allow particles or parts to penetrate inside the tool.

The carbon motor brushes require inspection by a qualified maintenance technician after 300 hours of operation. If the brushes are shorter than .2 inches (5mm), they must be replaced.

During inspection of the motor brushes, the motor commutator must also be inspected. In case of irregular coloring or scratches, the commutator must be repaired by a qualified service center.

After replacement, the motor brushes must be run in at idle for 20 minutes.

The MK-2000P requires inspection and gearbox cleaning by a qualified service center after 500 hours of operation.

Return Materials Policy:

To expedite service relative to the return of a product purchased through MK Diamond, please observe the following:

NOTE: When returning all items, they must have been purchased within the previous twelve (12) months.

- Have the Model Number of the saw
- Have the Serial Number of the saw
- Have the location of where the saw was purchased
- Have the date when the saw was purchased
- Contact Customer Service for approval to return the item(s)
- Obtain a Returned Goods Number (RGA) authorizing the return
- Follow the packaging instructions in the following section
- Ensure your item(s) are prepaid to the destination

For returned items, call toll free to – **800 421-5830** or **310 539-5221** and ask for Customer Service. For technical questions, call – **800 474-5594** or **310 257-2845**.

CALIFORNIA PROPOSITION 65 MESSAGE:

⚠WARNING Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead-based paints
- Crystalline silica, from bricks and cement and other masonry products and
- Arsenic and chromium, from chemically treated lumber

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.