

The Merax logo features the brand name in a bold, black, sans-serif font. Above the letters 'E' and 'R' is a stylized graphic of a curved line composed of horizontal dashes, resembling a rising sun or a wave. The logo is positioned on the left side of a solid orange horizontal bar that spans the top of the page.

MERAX



Operation Manual
Diamond Core Drills

Make more With Merax!

1. Safety Instructions:

Warning! When using tools, read safety instructions carefully.

2. Safety instructions:

2.1. Ground wiring:

Warning! Check if power supply to be used is accordingly grounded.

Electric lines: Use electric line with standard ground wiring to avoid the risk of electric shock and damage equipment, including accessories. Never cut power supply cord or make adaptations to it under the risk of loss of guarantee.

2.2. Before beginning drilling, check if there are no electric or hydraulic lines or fire hazard sources.

2.3. Never pull or turn off diamond core drill by the power cord.

2.4. Protect Control Panel against humidity and exposition to fluids.

2.5. Use adequate clothing and safety equipment, such as goggles, rubber gloves, ear protectors, helmets, and protection shoes with rubber soles.

2.6. For reasons of security in transportation, your Diamond core drill (models 205 and 255) are delivered with the stand inverted (photo 1). To be able to use it you must loose the screws and invert the base, so that the drill this opposite levelers (photo 2).



PHOTO 1



PHOTO 2

2.7. Before reviewing or changing the drill bit of your Diamond Core Drill, the power supply must be off.

2.8. Store the tools in a dry place when you were not using them.

1. Fastening your Diamond Core Drill

There are three ways of fastening your Diamond Core Drill:

1.1. Fasten machine on the ground or wall using an expanded screw through the hole located on the base, as showed by the following picture:

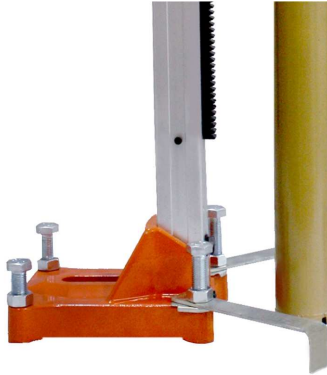


1.2. Use a stripper (metal pipe, etc.) to help you. Secure this stripper between the roof and the regulation screw on the top of the Diamond Core Drill stand (photo). Torque the screw until the stripper touches the roof, securely fastening the Diamond Core Drill.



1.3. For models 205 / 255 NA, a vacuum pump can be used for fixation to the ground or walls. The use of a safety strap will be necessary to avoid accidents in case of shortage in the power supply or system failure.

After the machine security fastened, level it using the four screws located on the ends of the base Lock them using the lock screws.



2. Installing diamond core bits on your Merax Diamond Core Drill.

Grease the thread of the diamond core bits. Insert it and fasten it lightly. Turn the machine on and let the drillbit turn freely to make sure everything is working properly.

3. Drilling:

Do not forget the lubrication of the diamond core bit is fundamental and done with water. Use a hose or a container. Before drilling, check if what is running within the Diamond Core bit.

Align the diamond core drill with the soil. If that is not possible, start more carefully until the full diameter of the drillbit perforates about 5 mm. After that proceed with perforation, what should made with the light uniform and constant effort.

When using the portable Diamond Core Drill to drill walls, start by placing the drillbit with a light inclination downwards for easier perforation. After that level drillbit up, and proceed as usual.

If the rotation of the motor drops sensibly, release pressure with the feed handle. Keep constant rotation. In case of any sign of malfunction, such as smoke or strong smell disconnect the Diamond Core Drill from power supply.

The Diamond Core Drill has an automatic shutdown system in case of current overload or drillbit lockup. Do not try to force the machine to work and try to identify what is causing the problem. Inadequate use can severely damage the tool.

In situations of continuous and heavy use, periodically remove the diamond core bit from the machine and clean the teeth with the brass brush.

WARNING! To change the speed rotation turn off motor to avoid damage to the gears.

4. Technical parameters

TYPE	Z1Z – CF02-80	Z1Z – CF02 – 205	Z1Z – CF02 – 255
Maximum stroke in mm	80 mm	205 mm	255 mm
Voltage V	220	220	220
Frequency Hz	60	60	60
Watts W	1500	2400	2100 / 2600
Maximum load. r/min	2100	600	460 / 840
Size in mm	530x99x290	850x410x210	920x400x250

5. Maintenance:

5.1. If you need maintenance for the Diamond Core Drill, please contact an authorized technical assistance service.

5.2. Check brush periodically. When brushes are worn out about 7 mm along the length, they must be changed. Always use our regional brushes and always replace the set.

6. WARRANTY:

MERAX Diamond Core Drills have a 6-month guarantee in Brazil after the date of issue of invoice or delivery of the product to the final consumer.

This warranty applies to manufacturing, materials, parts and workmanship defects, when adequately proven.

This warranty does not apply to damages provoked by inadequate transportation, accidents of any type, misuse, electrical installation oscillations, use of wrong voltage, bad quality of compressed air, the removal or alteration of the series number of the machine, and the non-compliance with the instructions herein contained.

This warranty does not apply to any component that deteriorates under normal use.

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The logo features a stylized graphic above the word 'MERAX'. The graphic consists of a series of parallel, slanted lines that form a curved, arch-like shape, transitioning from a reddish-orange color on the left to a bright yellow on the right. The word 'MERAX' is written in a bold, black, sans-serif font, with the 'A' and 'X' having a distinctive shape. The entire logo is set against a background of vertical dotted lines.

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