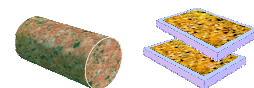




1.02.08 CORE SLABBING MACHINE



PURPOSE

Semi-automatic, quick action, longitudinal geological core cutting machine, capable of cutting up to 1 metre length without fracturing, grooving or chipping. It produces a high-finished surface.

The 1 02 08 core cutting machine is a semi-automatic machine fitted with a diamond disc allowing the user to slice longitudinal and transverse drill-core sections.

While it is interesting to be able to cut a core sample longitudinally in order to examine its element and study their structure, this relatively easy operation for small core fragments becomes virtually impossible using normal methods (hand saw, ordinary diamond saw, etc.) as soon as the sample exceeds 40 to 50 cm in length.

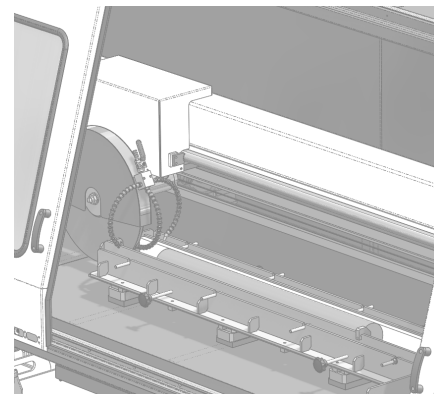
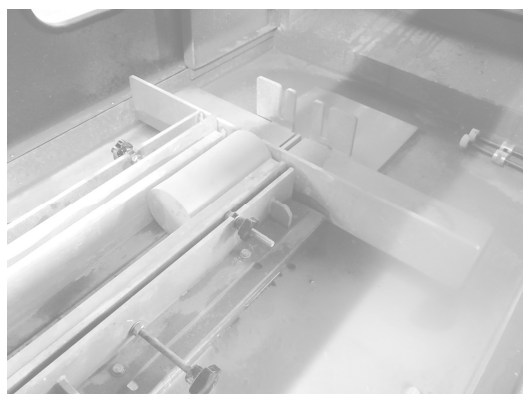
Moreover, manual cutting causes irregularities in the cut and frequently fractures which considerably obstructs subsequent viewing of the sample.

STANDARD EQUIPMENT

- Cutting system with 1 or 2 discs
- a core vice for cutting longitudinal or transverse sections
- It includes a set of servicing tools, but does not include the cutting disc.

OPTION

- Vacuum cleaner with filter
- Recycling system



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BROTLAB®



1.02.08 CORE SLABBING MACHINE

PRESENTATION

The machine consists of a robust tack welded frame ensuring great rigidity, and forward doors fitted with an electrical safety contact allowing the unit to be completely closed.

The core sample remains fixed, while it is the diamond disc - motor unit which moves from one end of the core to the other.

This arrangement has made it possible therefore to place all the electrics and the automatic feed above the cutting area and protected from splashing of water and debris. The bottom of the machine forms a sump which collects the water and debris from the sawing operation. This is then drawn off into a large capacity tank before being drained away or recycled.

A water gun connected to the cooling circuit enables the machine to be cleaned.

A suction pump with electrostatic trap, makes it possible to extract and filter the water spray which is charged with core particles from the cut. The air is reintroduced into the unit without affecting the heating or air-conditioning of the area.

Core sample vice

The vice will hold core samples of \varnothing 80 to 134 mm, up to 1 metre in length. The core can be cut at a 1/4 - 1/3 or 1/2 of its diameter. The end of the vice allows for transverse cutting of the samples.

Cutting unit

The grinding-wheel spindle can be fitted with diamond discs measuring to 400 mm.

In order to obtain a section with parallel faces, it is possible to mount two blades side by side; the two cuts are then produced simultaneously to obtain a section thickness of approximately 10 mm.

The grinding pressure is maintained whatever the hardness of the material encountered. This pressure is automatically adjusted while the machine is in operation.

The discs are protected by a casing. Abundant watering comes from nozzles mounted on hoses. Cooling, like the disposal of waste, is perfectly assured.

Automatic feed

The speed of the automatic feed is adjustable while the machine is running.

The cutting disc exerts a constant pressure on the sample or core, determined and regulated by the operator. As soon as this depth is reached, the grinding-wheel carriage is set in motion at the pre-regulated speed. If this speed is correctly selected, the rocker will remain level.

At the end of the run, a stop ring halts the movement of the carriage.

The drill core sample is thus cut from one end to the other without monitoring.

CHARACTERISTICS

Cutting disc

\varnothing 300 - 350 - 400 mm

Electrical

Three phase current 400 V 50 Hz (60 Hz on request)

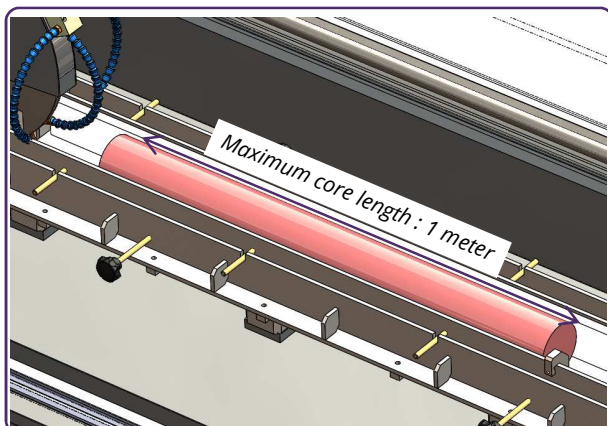
Spindle motor 9,2 Kw (1 500 tr/mn)

Forward movement motor 0,37 Kw.(0 à 15 tr/mn)

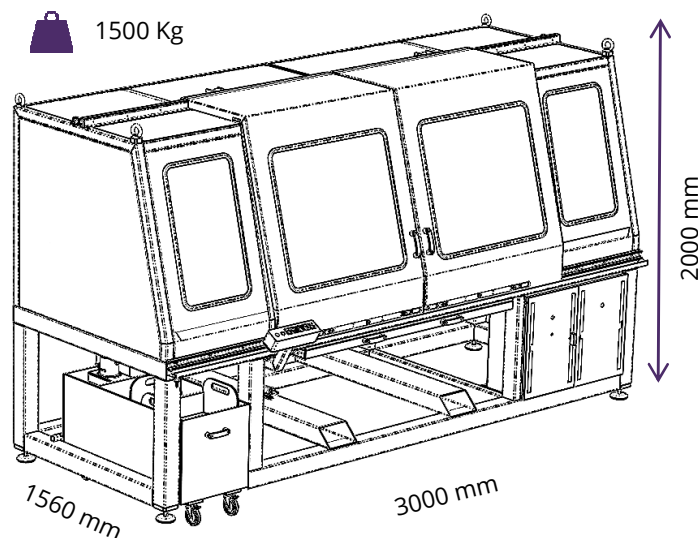
Feed from 0 to 2 m/mn)

Pump motor 0,15Kw.

Reinforced cabling



1500 Kg



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