# Pilot Core Drilling Machine

RDC-179

R&D Carbon

Electrodes | Lining | R&D

## General Description

The evaluation of raw materials, green pastes and electrodes under laboratory conditions is advantageous in terms of time consumption and cost optimizations. The pilot electrodes can be prepared with the RDC-160 and RDC-165 equipment. To obtain samples for the measurement of their properties, the baked pilot electrodes need to be core drilled, the aim being to obtain samples with a 50 mm diameter and a length of approximately 200 mm.

The core drilling is conducted with the RDC-179 apparatus, where the pilot electrode is first clamped. A core bit, driven by an electrical motor, automatically drills a core sample with a given speed, while water is sprayed to ensure a smooth core geometry and surface. No further operation from the operator is required, except for placing the electrode in the right position for drilling.

After drilling, the cores are ready for the cutting operation (see equipment RDC-140, RDC-148 and RDC-149), depending on the properties to analyze.

## Technical Information

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|---|---|
| **Function** | Drilling of Cores in Pilot Electrodes |
| **Sample** | Pilot electrode up to Ø 180 mm x 200 mm |
| **Process Time** | ~ 5 minutes |
| **Installation** | Floor standing |
| **Dimensions (LxWxH)** | 140 x 80 x 316 cm |
| **Weight** | 465 kg |
| **Electrical Property** | 400 V 3/N/PE, 50 Hz<br>2.2 kW, 5.5 A |
| **Fluid Property** | Water : 480 l/h, 3-7 bar |
| **Database Connection** | No |

## Additional Recommended Equipment

Saw (RDC–140 or RDC-148 or RDC-149)
Drying oven (min. temperature 180°C)
Test equipment for analysis