

RDC-179

Name PILOT CORE DRILLING MACHINE

Material type
**GRANULAR
PITCH
ELECTRODES
LINING**

Utilization
**R&D
IN-PLANT
LAB**

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	Function:	Drilling of cores in pilot electrodes
	Sample:	Pilot electrode up to \varnothing 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 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)
Drying oven (min. temperature 180°C)
Test equipment for analysis

