

RDC-140

NameANODE CORE SAW

Material type

GRANULAR
PITCH
ELECTRODES
LINING

Utilization

R&D
IN-PLANT
LAB

General description

The RDC-140 Anode Core Saw was specifically designed for the preparation of baked anode cores to perform typical routine analysis. In a single step, it allows the cutting of a core into pieces of the required lengths. These cores are typically used for the testing of the following properties:

- 20 mm: RDC-145 Air Permeability and RDC-143 Thermal Conductivity.
- 60 mm: RDC-151 Air Reactivity Anode (or RDC-146 CO2 Reactivity Anode).
- 130 mm: Apparent Density, RDC-150 Specific Electrical Resistance, EXT-110 Dynamic Elasticity Modulus, RDC-187 Flexural Strength.

In a second step, a supplied stop plate can be inserted into the sample holder to cut a 130 mm core sample following the flexural strength test for the determination of the following properties:

- 50 mm: RDC-158 Thermal Expansion and RDC-144 Compressive Strength & Young's Modulus.
- 60 mm: RDC-146 CO2 Reactivity Anode (or RDC-151 Air Reactivity Anode).

Samples with a diameter of 30 mm or 50 mm and a length of up to 280 mm can be cut with the RDC-140 apparatus. Water is sprayed onto the blades during the cutting operation, a drying step is then required prior to performing any subsequent testing.

Technical information

Sample:	Core Ø30 mm or Ø50 mm with length up to 280 mm
Process Time:	~ 90 seconds
Installation:	Workbench
Dimensions (LxWxH):	90 x 60 x 61 cm
Weight:	186 kg
Electrical Property:	400 V 3/N/PE, 50 Hz 1.10 kW, 3 A
Fluid Property:	Water 3-7 bar, 150 l/h
Database Connection:	No

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Additional Recommended Equipment:

- Drilling machine (RDC-157 or RDC-179)
- Drying oven (min. temperature 180°C)

