

Anode Core Saw

RDC-140

Electrodes

Lab

General Description

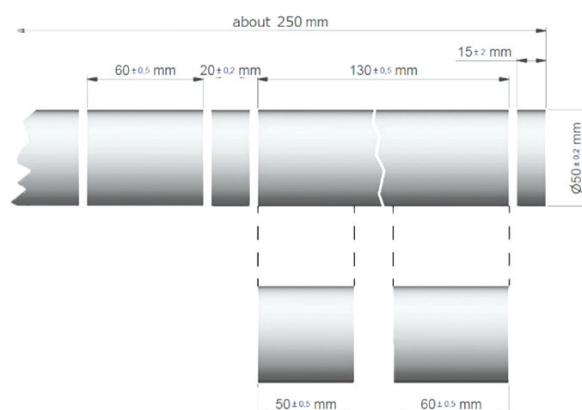
The RDC-140 Anode Core Saw was specifically designed for the preparation of baked anode cores to perform typical routine analysis. In a single step, it allows the cutting of a core into pieces of the required lengths. These cores are typically used for the testing of the following properties:

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

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-135 Archimedes Balance, RDC-144 Compressive Strength & Young's Modulus and RDC-158 Thermal Expansion and.
- 60 mm: RDC-146 CO₂ Reactivity Anode (or RDC-151 Air Reactivity Anode).

Samples with a diameter of 30 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 Ø 30 or Ø 50 mm x 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 1.1 kW, 3 A
Fluid Property	Water : 3 - 7 bar, 150 l/h
Database Connection	No

Additional Recommended Equipment

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

Video

