

RDC-140

Name ANODE 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 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 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:	400V 3/N/PE, 50 Hz 1.10 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)

