

ANCORELOG

Analytical Core Logging System –
Digitalization and Automatization of Drill Core Logging



ANCORELOG – Multi-Sensor Drill Core Scanner

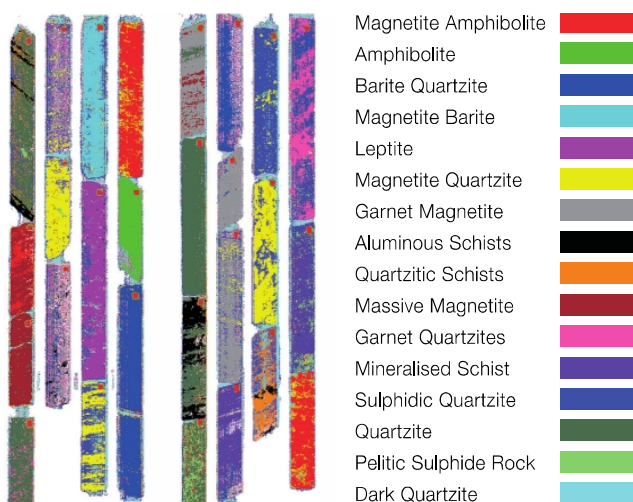
ANCORELOG, the analytical core logging system, delivers precise information deduced from chemical, mineralogical, physical and textural drill core properties through a combination of innovative technologies. The modular multi-sensor device combines novel sensor technologies in an automatized measurement workflow.

Smart machine learning classification algorithms convert measured properties ("big data") into geological, geotechnical and geometallurgical domains ("intelligent data") in almost real time supporting and speeding up decision making.

Chemical, mineralogical and physical drill core properties are continuously measured with a scan rate of 20 seconds to 2 minutes per meter of drill core depending on the combination of sensors used.

Thereby the device can cover the daily drilling progress of ongoing exploration campaigns as well as process large amounts of samples stored in drill core repositories in a timely manner.

The data derived from the different sensors is compiled through sensor fusion and stored in CoreBase, a digital drill core library.



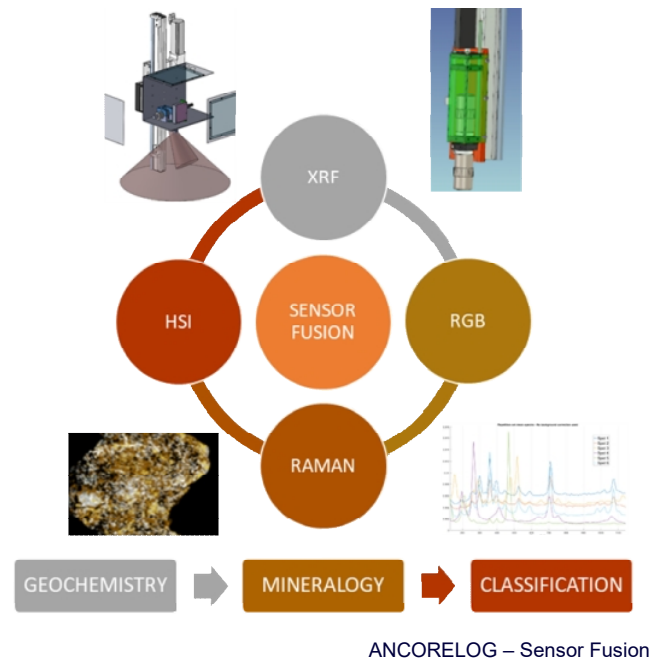
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Available Sensors

- High resolution RGB linescan camera (up to 60 pixel/mm)
- Hyperspectral imaging camera (SWIR)
- XRF sensor
- Timegated RAMAN sensor
- Laser profile scanner

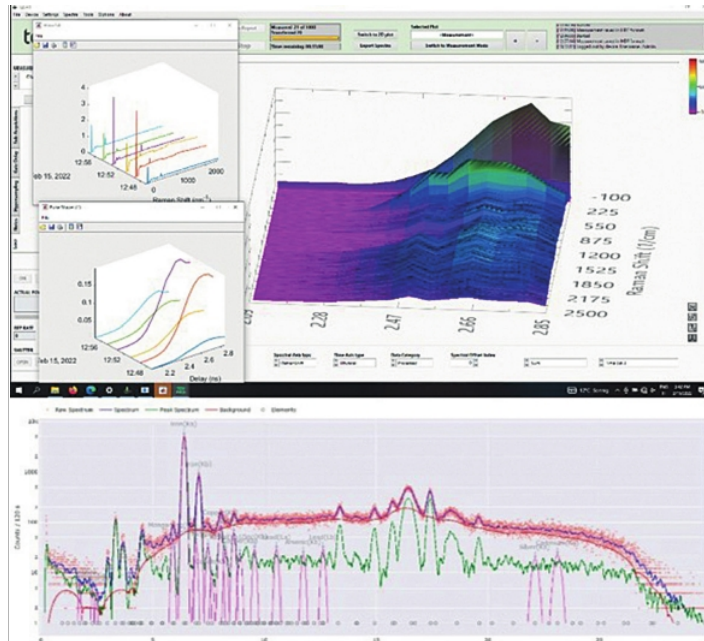
Technical Specifications

- Dimensions operation: Length: 2.55 m, Depth: 1.50 m, Height: 1.75 m, Weight: 650 kg
- Dimensions transport: Length: 2.70 m, Depth: 1.55 m, Height: 1.60 m, Weight: 850 kg
- Modular multi-sensor measurement head
- 3-axial linear moving stage controlled by high quality SIEMENS PLC
- Power supply: 110 - 240 V, 1,000 W peak
- Operation temperature range 5°C – 35°C
- Maximum Core box size: 1.100 mm x 550 mm x 120 mm

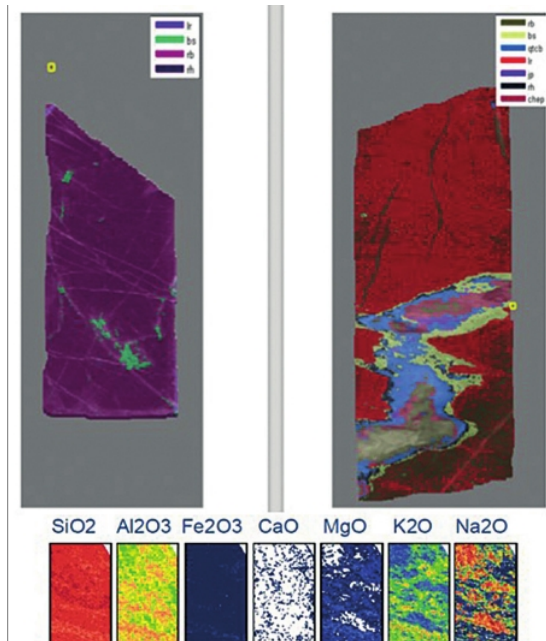


Services

- Service with ANCORELOG System
- Elaboration of classification models for automatized drill core logging
- Training on ANCORELOG System
- Sale of ANCORELOG System



Multi-Sensor drill core classification



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