

DMT CoreScan®3

Digital Drill Core Imaging System for Geotechnical Applications

Portable core imaging device in combination with a set of analysis software developed for drill core image acquisition, storage and evaluation. Images of full circumference (360°) and core boxes of any dimension can be scanned and analysed.

Functions

- 360° images in highest resolution
- Applicable on any core drilling project
- Portable stand alone system
- Online global accessibility of core images
- Digital drill core library
- Structure analysis and presentation
- Mineral analysis (distinct colour differences)
- Derivation of geotechnical parameters (RQD)

Services

- Selling and leasing of the CoreScan system
- Training on the CoreScan system
- Scanning of drill cores
- Re-orientation of the drill core log according to borehole inclination and deviation
- Structural and petrographical analysis of drill cores

Heavily broken cores to scan and analyse



DMT CoreScan3



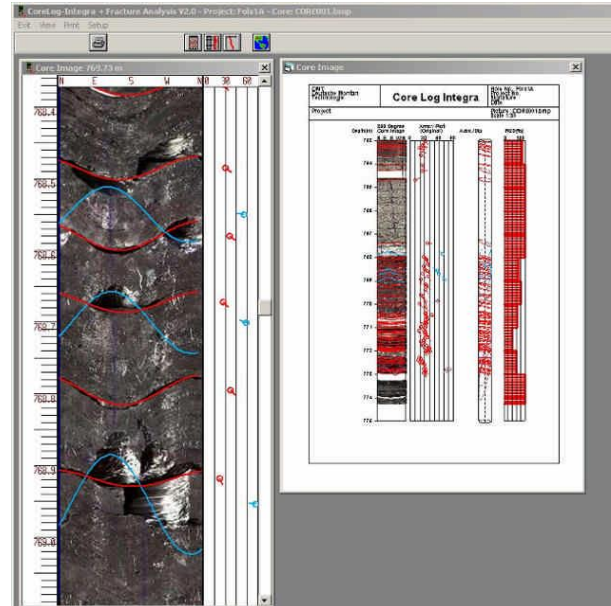
Tasks

- Scanning of drill cores up to 1,000 m per day
- Creation of a digital drill core library with quick search functions
- Re-orientation of the drill core log according to borehole inclination and deviation
- Structural analysis of drill cores and presentation (stereographic projection)
- Special routine for structural analysis of heavily broken drill cores
- Automated core box scanning
- Derivation of geotechnical parameters (RQD 10, 20, 30), fracture density, fracture distance

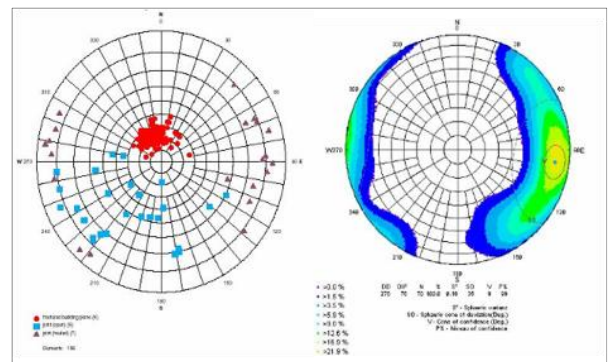
Technical Specifications

- Dimensions: Length: 1.36 m, Depth: 0.75 m, Height: 1.28 m, Weight: 128 kg
- Electric power supply: Voltage 110 VAC – 250 VAC, 50Hz/60Hz; power (pmax) 500 VA
- Core length: up to 1 m (full circumference and slabbed cores)
- Core diameter: 25 to 150 mm (unrolled), up to 250 mm (slabbed)
- Resolution: 5, 10 and 40 pixel/mm (127, 254 and 1016 dpi)

Core image with marked structures and composite log



Pole and density diagram



Application in tunneling



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