

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

- Applicable on any core drilling project
- Portable stand alone system
- Online global accessibility of core images
- Digital drill core library
- Structure analysis and presentation
- Analysis of mineral content
- Determination of grain size distribution
- Derivation of geomechanical 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

Geotechnical Core Analysis

Selected References

Norwest Holst, 2010, UK

KIGAM, 2008, Korea

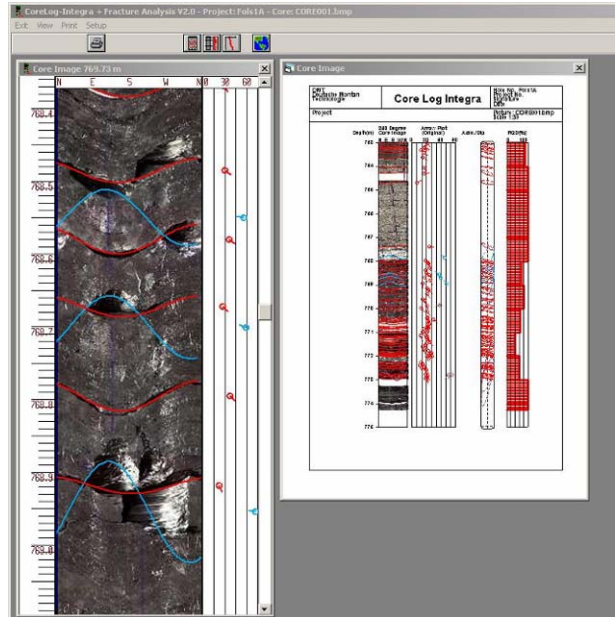
RWTH Aachen, 2006, Germany

Tasks

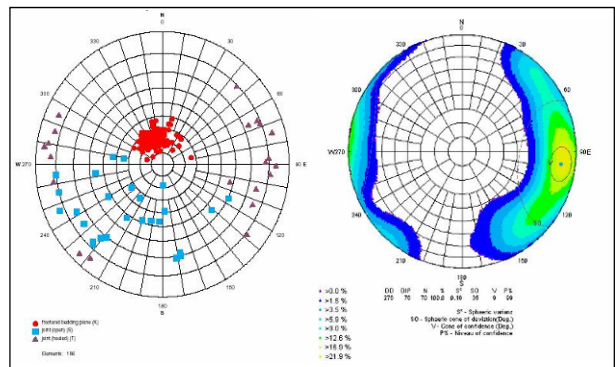
- Scanning of drill cores up to 300 m per day
- Creation of a digital drill core library with quick search functions
- Re-orientation of the drill core log according to borehole inclination and deviation
- Structural analysis of drill cores and presentation (stereographic projection)
- Special routine for structural analysis of heavily broken drill cores
- Derivation of geomechanical parameters (RQD 10, 20, 30), fracture density, fracture distance



Application in tunnelling



Core image with marked structures and composite log



Pole and density diagram

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