A Swedish National Infrastructure for Scientific Drilling

Atlas Copco Christensen CT20 Core Drilling Rig

In November 2009, the Swedish Research Council (Vetenskapsrådet - VR) awarded Lund University and its co-applicants (from Uppsala University, Luleå University of Technology and Stockholm and Göteborg universities plus support by researchers from many other institutes) a grant of 25.8 MSEK (c. 2.75 M€) for buying, implementing and running an infrastructure for deep core drilling. VR states that this infrastructure is a national resource which is managed and operated by the Department of Engineering Geology at Lund University to serve all Swedish universities and researchers.

Since the late 1970s, Engineering Geology at Lund University has taken part in or been responsible for drilling and well completion in c. 20 deep drilling operations.

Industry cooperation is welcome!

Technical data:
Depth capacity coring, based on vertical water filled hole.
  P-size to around 1050 m, hole size 123 mm and core size 85 mm.
  H-size to around 1600 m, hole size 96 mm and core size 63 mm.
  N-size to around 2500 m, hole size 76 mm and core size 48 mm.
Weight: Complete rig, wet - 18000 kg
Dimensions on standard truck (length, width, height) during transport: 11500 x 2500 x 4150 mm

Available in-hole equipment:
Complete core assembly for PHD, HRQ and NRQ-sizes (see depth capacity above).
Both dual and triple tube for HRQ and NRQ-sizes.
Casing advancers (PW, HW, NW and BW)
Casing PWT, HWT, NW and BW
Bits and reamers

Additional equipment:
Mud cleaning and mixing system
MWD-system (Measurements While Drilling)
Cementing equipment
Fishing tools (Bowen Spear)
Blow Out Preventer (BOP)
Deviation tools
Wireline packers
and more

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The researchers network “Scientific Drilling in the Nordic Countries” plans a workshop about the CT20 in 2012.
Sign up here at the booth to receive the announcement.