

Atlas Copco's new rock-drill offers 30% faster rate

ATLAS Copco's new COP 1132 rock-drill offers users 30% more speed than its predecessors, the COP 1028 and COP 1032.

The new COP 1132 has several similarities with the 30 kW COP 3038: high-frequency technology and a double dampening system. Atlas Copco said the COP 1132 is the smallest rock-drill in the world with a hydraulic double damper.

The new COP 1132 operates in the same hole range as the earlier models COP 1028 and 1032

(33-51 mm) but is faster, with a maximum impact power of 11 kW.

In addition to the increased power and speed, Atlas Copco said the COP 1132 is also much easier on the drill steel. It does not strike the steel any harder than the 5.5 kW COP 1028 (110 J), but it strikes twice as frequently.

By comparison, the COP 1032 at 7.5 kW is harder on the steel with an impact energy of 165 J per blow.

Another advantage is its size – 20 cm shorter than the COP 1032 – meaning longer rods and fewer changes or joints.

The cutting angle is also smaller, which gives better access in confined spaces, and it weighs about 30% less than the COP 1032, at only 75 kg in all.



The new high-speed rock-drill COP 1132 from Atlas Copco

Geosoft mission maps out Earth topography in detail

GEOSOFT, a provider of spatial data access and analysis solutions, has added shuttle radar topography mission (SRTM) data sets to its public server.

The SRTM is a joint project between the National Geospatial-Intelligence Agency (NGA) and the National Aeronautics and Space Administration (NASA). The objective of this project is to produce digital topographic data for 80% of the Earth's land surface (all land areas between 60° north and 56° south latitude), with data points located every one arc second (about 30 m) on a latitude/longitude grid. The absolute vertical accuracy of the elevation data will be 16 m (at 90% confidence).

This radar system will gather data that will result in the most accurate and complete topographic map of the Earth's surface ever assembled.

Geosoft said elevation data for the entire world (oceans excluded) is available at a 90 m resolution, and elevation data for the US is available at 30 m resolution.

Ian MacLeod, chief technologist at Geosoft, said: "The SRTM 30 m data grid alone contains over 114 billion points."

SRTM data is available on the Geosoft public server and can be viewed and downloaded using a variety of clients, including Geosoft Oasis montaj, ESRI ArcGIS, MapInfo Professional and browser applications.



Photo: NASA

Photo: Bloomberg News



The space shuttle *Endeavour* was used to launch the SRTM system

During an 11-day mission in February 2000, the SRTM obtained elevation data on a near-global scale to generate the most complete high-resolution digital topographic database of Earth. SRTM consisted of a specially-modified radar system that flew on board the space shuttle

Endeavour.

Geosoft was established in 1986. Its geoscientific data is vital to decision-making in mineral exploration, oil and gas, environmental and unexploded ordnance investigations.

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