

GeoDrilling International



Software & IT

Mining software helps companies deal with large amounts of business-critical data

Rotary drilling

Rotary blasthole drill-rig manufacturers focus on ergonomics and automation

Asia

New government initiatives bode well for Indonesia's geothermal industry



ML 150

Burkina Faso

extremely efficient at this process. The mast is easily converted to install helical anchors or perform auger drilling (such as pre-drilling for sheet pile).

Stand: 6 H 024

ROBIT

Robit is introducing its new, patented measuring system that can measure the straightness of a hole during the percussive-drilling process.

The system is the result of an intensive, seven-year R&D programme at Robit and is in operation at selected customers. Unlike existing, time-consuming manual systems, the company says, measuring during the drilling process does not require an extra work phase in the drilling process. The measurements are available immediately after drilling a hole. The user can see a 3-D view of the drilled hole in the drilling pattern.

When drilling holes in rock, the holes often turn away from the desired direction, and in long holes the deviation may amount to several metres. Hole deviation results in inefficient operations on a site and in the worst case may create hazards.

The new system measures the actual straightness of drill holes immediately, so the information



can be utilised in optimising and charging a rock face.

Stand: 5b B 023

ROCKMORE

Rockmore International will be unveiling its new T-series DTH hammer line to the European market at Intermat.

The company says that the addition to its existing broad range of DTH hammers is "a breakthrough for DTH drilling technology for mining, construction and water-well applications".

The ROK 600T is a six-inch (152.4mm) class model with high-performance drilling characteristics rated for drilling 155-178mm diameter holes for blasthole applications in mining and construction. It is also suitable for water-well drilling.

As a T-series design feature,

the ROK 600T accepts the industry-established bit shank model QL60, but with the blow tube/foot valve removed. Rockmore says that the elimination of this plastic part associated with the drill bit offers various technical and economic advantages.

Stand: 5b C 011

SOILMEC

Soilmec will be present at Intermat with two new machines: the SM-4 and SM-9.

The SM-4 has been designed to perform sectional flight auger (SFA) technology. SFA piles are formed with the use of sectional lengths of hollow-stem continuous flight auger. The technology is used in spaces with low headroom or restricted job sites, where a CFA rig cannot reach. ▶

Soilmec's new SM-4 machine

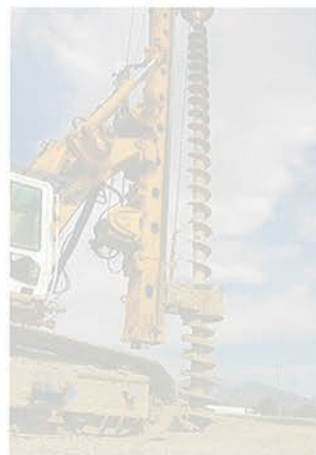
"Hole deviation results in inefficient operations on a site and in the worst case may create hazards"

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A TECOP TEC 12 ▶ Each section, starting with a toothed lead auger, is added to the rig as the augers are bored into the ground. When the required depth is reached, grout is mixed and pumped through the rotary and down the hollow stem of the augers as they are extracted and removed. Piles can therefore be made in wet, unstable ground conditions.

Sectional flight augers are also used, in certain soil conditions, for open-bore piles. The auger sections are extracted fully before the grout is cast in the open bore. The compact SM-4 rig unit boosts retractable crawlers and stabilisers, allowing the rig to operate in a minimum width of 740mm and a minimum tracking height of 1,980mm. The casing clamp system is also 740mm in width to allow quick and easy access into the tightest spots, without having to remove the clamp.

The new SM-9 is a multipurpose drilling rig in the 8-9t class. Flexibility, low fuel consumption and high efficiency were the designers' guidelines when creating the rig, which is fitted with a new powerful diesel engine – a Deutz TCD 4.1 L04 4V (Tier IV) – coupled with the new hydraulic system by Rexroth technology.

The rig is fitted with proportional, hydraulic servo-assisted controls that make operations smooth. Featuring a load-sensing system, it promises lower running costs and reduced wear and tear on components. The SM-9's new kinematic mechanism is strongly characterised by the 90° articulation joint, which allows drilling parallel to the tracks, along with the sliding mast operated by a cylinder, allowing the machine to

perform at a wide variety of angles and positions.

Stand: 5b C 042

TECOP

At this year's Intermat, TECOP will be showcasing three new drills.

The TEC12 and TEC15 penetrometers follow in the footsteps of the well-known TEC10 dynamic penetrometer for soil-penetration testing (SPT) and dynamic-probe super-heavy (DPSH) testing.

These new models are equipped with rotary heads and can perform small drilling projects up to 30m in depth. Both of these new penetrometers are equipped with the recently developed FLEX-shift system, which allows the driller to choose between rotary drilling, automatic-hammer SPT and an extraction device in less than 15 seconds.

Following many years of experience in the field of piling, TECOP has recently developed the AMK43, a new 63kW pile drill capable of reaching a 26m depth with 1,000mm diameter. Ready to work with kelly or CFA, it is equipped with a rotary head of 4,000kgm torque. The new drill is the first of a series of pile drills to reach up to 8,000kgm rotary torque.

Stand: E2 E 038 ▶

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