

# GeoDrilling INTERNATIONAL



- Exploration drilling
- Rig control & monitoring
- GDI 20 – 20 years in print



Stockholm Precision Tools AB



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## EQUIPMENT

# Soilmec invests in the Tiger

Soilmec, a satellite company of the Trevi Group, has designed and produced the Tiger, a hydromill that can reach a depth of 250m.

The hydromill drilling technique is used in scenarios requiring vertical bored piles of square-section construction. The mud-circulation drilling technique is produced with the help of a hydromill capable of handling a variety of soil conditions, from hard rock to sandy soils or clay.

Most hydromill drill rigs are capable of drilling to a depth of 100-120m.

Testing on the efficacy of Tiger is ongoing, but, if successful, will serve as a design for state-of-the-art drill rigs that can be used in diaphragm walls, bored piles and excavation situations requiring reverse-circulation of materials.

The Soilmec Tiger hydromill rig has been designed specifically to drill in rocky soil due to



construction that allows minimum deviation from vertical, and its capability to drill rapidly through rocky layers.

Hydromill drilling machines rely on heavy metal frames to serve as guides, fitted onto the base of machines with carbide-

*The Tiger rig has exceeded previous records*

tipped cutters and cutter drums. Such drill rigs break up subsoil by operating at opposite rotation, enabling the placement of pumps just above the drums to evacuate loosened soil.

Guide frames are suspended from a crane, (Soilmec SC 135), and powered by two Caterpillar C18 diesel engines.

The hydromill model SH-50 (3,200mm x 1,500mm in size) was tested with different cutting units. To facilitate adequate testing, Soilmec utilised the latest SMT-500 system that focuses on a double cyclone stage, allowing seamless integration with debris elimination systems.

The Soilmec hydromill set-up is worth about US\$5 million and Trevi Group has invested over US\$10 million in forthcoming technology.

## Skelair unveils Silea

Skelair International has introduced the EMCI Silea for geotechnical and environmental applications.


The multi-purpose drill supplements the rental portfolio to meet the specialist geotechnical investigation sector's needs and address rotary, (rock-roller or DTH), rotary-percussive, coring and soil sampling requirements.

Weighing 2.8t with a 50hp diesel engine, the lightweight and flexible Silea is aimed mainly at projects with restricted access and low headroom. Its mast slide can be raised and lowered easily, with a displacement of 400mm, and a mast locking device in drilling position.

"The demand for rental rigs continues to rise, more specifically in site investigation," John Mayo, MD of Skelair International, comments. "We have brought the EMCI Silea in to meet this demand."



*The EMCI Silea is a multi-purpose rig*




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## WHO SHOULD ATTEND?

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