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### Soilmec goes green with launch of electric powered SM-5E

Soilmec's latest top microdrilling rig – the SM-5E – takes one of the company's most popular rigs for operating in narrow places, drilling inside buildings and performing tunnelling applications and replaces the existing model's diesel engine with an electric unit.



Powered by an ABB electric engine (four poles, 50Hz, 380/660V), the SM-5E offers a maximum rated power of 75kW. The compact rig is a 5t class machine measuring just 2.2m long by 1.6m wide making it suitable for use in confined spaces.

Four ground stabilizers complete with blocking valve in order to avoid the outflow of hydraulic oil during a break down guarantee safe working.

The new special kinematic mechanism, composed of two slew rings, allows a large range of slewing and mast positioning possibilities. One is located on the lower frame to allow drilling over the side of the crawler. It offers rotation of +/-90 degrees with respect to the rig's longitudinal axis. The second is located on the back of the mast and secures +/-180 degrees rotation for radial drilling. In order to increase the versatility of the drilling unit, the rig is equipped with a telescopic boom of 600mm and sliding mast. There is the option to increase the 1,400mm standard mast stroke thanks to four different mast lengths using special extensions of 500mm, 1,000mm or 2,400mm, allow the rig to be used in low headroom spaces with complete flexibility.

Drilling performance is ensured thanks to a wide range of rotary heads is available from 690-970daNm torque and 98-860rpm drilling speeds. In addition, a hoist force of 51kN ensures the rig offers high performance and greater drilling depths. The rig can be equipped with a hydraulic clamp and breaker of 50-220mm diameter, with a maximum clamping force of 140kN and a top breaking torque of 3,000daNm.

For operator comfort and safety, the SM-5E can be radio-controlled reducing costs and time during operation, in either the drilling or in kinematic mechanisms phase. The rig offers numerous safety features as well as easy access for maintenance and is available in diesel and electric models. Due to these features, the rig is, of course, a multipurpose rig that suits a wide range of civil engineering requirements from micro piling to tunnelling.

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