

# WORLD HIGHWAYS

ROUTES DU MONDE



## Demolition:

Demolishing an ageing  
bridge in NYC p37



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» machine has a large air-conditioned cab with good visibility and ergonomic controls.

As a standard, the new piling and drilling rig is fitted with sophisticated control systems. Attachment recognition provides time recording for the tool used, while performance data is also transmitted by Liebherr's LiDAT system.

An improvement for use in slurry wall applications is the obstacle recognition system, which can identify obstacles in the soil, protecting the machine and the tool as a result. A cruise control system is available for automatic drilling processes and allows for values such as pulldown speed and rotational speed to be programmed in advance. For installing slurry walls the machine can be equipped with Liebherr's own LV 20 vibrator. However the LRB 16 can be used for a wide array of other piling tasks including drilling with continuous flight auger, double rotary head or Kelly bar, soil mixing, and piling work with a hydraulic hammer.

Soilmec is offering a new piling control

system as well as its new Hydromill SC-135 Tiger piling rig, which is said to offer high productivity and performance. The machine offers Hydromill technology, said to allow the construction of diaphragm wall in a variety of soil conditions, delivering accurate level of verticality control at drilling depth, which was previously unattainable.

The new machine allows operation in a wide range of working radius and module rotations. The unit has several improvements, as well as a patented hydraulic system with the filters installed directly on the main lines to avoid any possible breakdown due to bentonite contamination.

The hydraulic swivel, Cat C27 diesel delivering 708kW and innovative winders are to allow operation down to 150m depth, while delivering high performance in a range of conditions. It has a high depth vertical sensor with independent mobile flaps and the DMS on board complete with the 3D graphic print

an operating weight of 20.5 tonnes.

Soilmec's sophisticated DMS 4.0 system is now available and is said to allow global and secure access through an internet browser. Machine health data can be downloaded from a machine remotely onto a PC, notebook, tablet or smartphone. The system provides the user with information on the state, performance, and location of the piling rigs, no matter where the units are located.

The XR130E benefits from highly sophisticated technology, which is said to be capable of meeting the demands of the market for high quality machines. With power from an imported engine, the XR130E can be configured to meet the European Stage IIIA, IIIB and Stage IV emissions requirements. It also has a high power reserve, which allows it to deliver high performance and productivity. The firm claims that it is able to support the machine with timely and effective after-sales service for local customers. Meanwhile its

## Accurate

Atlas Pile Testing Systems is now offering the sophisticated Titan 650, a fully automated and unmanned static load testing system. The firm has supplied the first of these systems to NDT Services, one of the UK's leading foundations testing companies. The Titan 650 is said to offer safety, accuracy and control for customers and can deliver precise loads for testing in a range of applications from soil nails to large diameter pile foundations.

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**RIGHT:** Soilmec's new SC-135 Tiger features the firm's latest remote performance monitoring package