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systems. With a longer leader, the piling and drilling rig is also now available as an LRB 18.

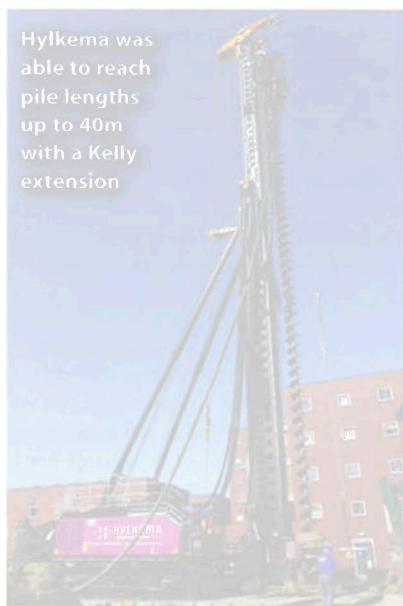
The LRB 16 gets its name from the sledge's travel distance – approximately 16m. A robust undercarriage is said to offer stability, which can be increased with optional rear supports.

Liebherr claimed that innovative hydraulic concepts played a role in fuel efficiency and, despite reduced engine power, the machines were said to achieve high performance while keeping fuel consumption low.

The new piling and drilling rig is fitted with sophisticated control and assistance systems as standard. Attachment recognition offers time recording for the respective attachment, and the performance figures are also transmitted with the aid of LiDAT, Liebherr's data transmission system.

The obstacle recognition is described as an improvement for slurry wall application, as it enables the timely recognition of obstacles in the soil.

Hylkema was able to reach pile lengths up to 40m with a Kelly extension



Junttan's largest

Dutch firm Hylkema Funderingstechniek has extended its fleet with a new Junttan multipurpose piling rig MPx90 – the largest Junttan machine at the moment – which is expected to increase Hylkema's capabilities with heavier piling.

With the MPx90, equipped both for full displacement piling as well as CFA, Hylkema is able to reach pile lengths up to 40m with a Kelly extension. The MPx90 uses a JD45 rotary head which enables large pile diameters, and together with 60 tonne pull-down force and 100 tonne extraction force, good penetration even in hard soil conditions.

The first project for the new MPx was a relatively small residence project of 34 apartments in Groningen, in the Netherlands. In this project, Hylkema used the CFA piling method with a diameter of 600mm, and pile lengths of 20m. A total of 70 piles were installed.

The new Soiltec SR-65 EVO drill rig claims compact geometries, a simplified structure and various technical solutions for cased bored piles and CFA (Continuous Flight Auger) piling.

The new rig has been designed for ease of installation and rapid start-up on site. In fact, Soiltec said it could be transported with the Kelly bar still mounted on the mast.

Particular attention was given to the design of the rotary and the crowd system, available both in the cylinder and the winch versions. The company said the rotary head was flat, compact and lightweight, with a maximum torque of 258.5kNm, allowing high performances even in the presence of rocks and compact soils.

For the discharge of waste, the customer can choose either the spin-off Soiltec system – using the kinematic energy generated by the high rotation speed, up to 135rpm, which is described as unparalleled when using the auger – or the new click-click system, that is said to be efficient using the bucket, especially in very cohesive soils.

The cylinder crowd system, with an extraction power of 280kN, is equipped with a double positioner on the drilling mast. This is said to allow it to use all the available tools – working under the lower part of the mast – and long casings.

PRAGUE PROJECT

The first SR-65 EVO was put through its paces in Prague, Czech Republic, through a collaboration with Intermarket, Soiltec's partner in the country.

Located in Prague's eighth quarter, a booming area of the capital, the project called for foundation piles for the construction of a commercial ten-storey building.

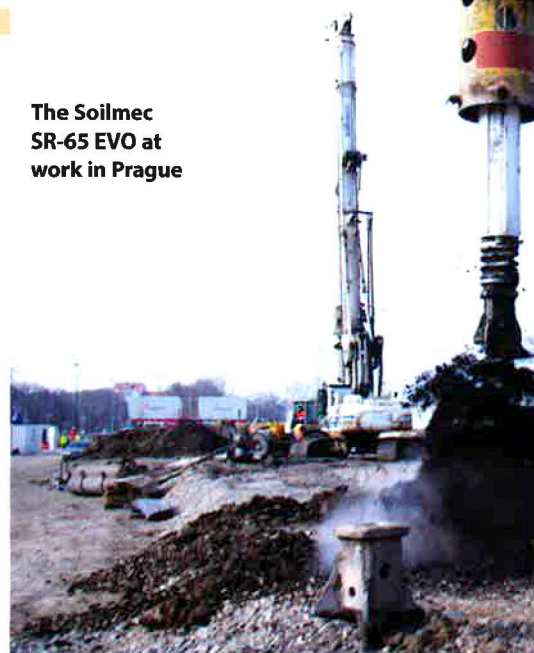
The piles, with a diameter of 900mm, were cased bored piles up to a depth of 13m, using a Kelly bar with a diameter of 406mm and double-walled casings.

The rig got to the jobsite complete with Kelly bar, and Soiltec claimed it just needed 30 minutes from arrival to the excavation of the first pile. It achieved two piles per day, in compact clay layers and gravel.

The Ditch Witch organisation has added the new AT40 All Terrain directional drill to its fleet.

Powered by a Tier 4 Cummins diesel engine with a gross power rating of 119kW, the AT40 was said to have more power in a smaller

The Soiltec SR-65 EVO at work in Prague



American Augers' DD-240T is said to be "wholly new"

footprint than competitor models in its class. The unit is also said to minimise pipe-entry distance, providing operators increased drill pipe support as it enters the ground.

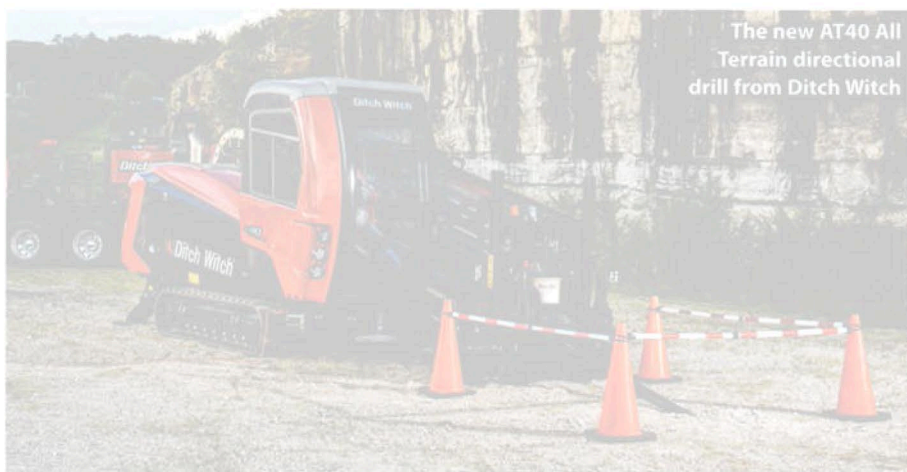
It holds up to 183m of drill pipe onboard, allowing for longer bores. Ditch Witch said the drill could install pipe in challenging conditions thanks to a patented two-pipe All Terrain drilling system that delivered more power to the bit than others in its class.

Numa has released two new videos showing the company's capabilities and its Super Jaws Overburden Bits – available on its YouTube site.

The company said its new corporate video highlighted the benefits Numa had provided to the DTH drilling industry, with over 30 years of designing products.

The company's product video shows its Numa Super Jaws Overburden Bits for simultaneously drilling and casing 139 to 1,067mm holes in unconsolidated ground conditions of overburden, boulders, or bedrock.

Vice president Dave Gorman said, "The videos demonstrate a few of our key differentiators in



The new AT40 All Terrain directional drill from Ditch Witch



Lissmac's CDM 20 P is "compact and lightweight"

themselves. We interviewed contractors across the industry, from all applications and every make of rig. We learned what they wanted from a machine in this size class."

He described the DD-240T as a totally configurable, wholly self-contained and easily mobilised rig that got drillers from job to job faster.

Looking at smaller drills, Hilti has launched the powerful DD 30-W diamond coring tool, claiming a faster, quieter and virtually vibration-free alternative to hammer drilling.

It said the DD 30-W was up to five times faster than conventional hammer drilling and, because it was impact free, it created less vibration. It said it was suitable for drilling in brittle materials like marble, tile and natural stone.

Weighing 7.6kg, the DD 30-W features Hilti TopSpin technology which creates an eccentric

rotation of the core bit into a backward-and-forward motion to deliver 8,700RPM with its 1,450W motor.

Hilti has also launched its next generation TE 50-AVR and TE 60-ATC/AVR Combihammers, which claim to reduce vibration.

Hilti is renewing its entire core bit portfolio. The company said it was making its SP and SPX core bit ranges even better performing and easy-to-use with the use of Hilti Equidist (EQD) technology.

Among the products from German company Lissmac are compact diamond core drilling machines for wet and dry drilling, including the CDM 20 P.

Described as compact, lightweight and with an ergonomic design, there are three gear levels which the company said permitted optimum speed selection adapted to the specific core drill diameter. **ce**



The Hilti DD 30-W is said to be quieter

the market including our deep experience as drilling experts, our dedication to customer service, and our technological innovation."

American Augers said its DD-240T introduced a whole new design concept in HDD. Many of the features that make the 240,000lb (109 tonne) class HDD rig fully configurable are industry firsts in response to HDD contractor input gathered by American Augers in a survey.

Product development manager Richard Levings said, "The DD-240T is not an upgrade to an existing rig design. It's a wholly new, ground-up design driven by the users



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