



GROUND ENGINEERING

March 2014

HIGHWAY HEAVEN

Work to bypass a village in
Devon is on track despite
challenging conditions

Junttan launches large rig range

Finland-based piling rig manufacturer Junttan has launched three new larger piling rigs to extend the capabilities of its PMx rig range.

The PMx26, PMx27 and PMx28, have maximum leader capacities of 20t, 23t and 25t and can install maximum pile lengths of 24m, 25m and 28m, respectively. According to Junttan, the PMx28 is the biggest complete



Big rig Junttan says the PMx28 is the biggest complete purpose-built piling rig with telescopic leader ever made

purpose-built piling rig with telescopic leader ever built.

The manufacturer says that improving efficiency and safety as well as minimising energy losses within the system have been the key design goals for the new range.

The range features a thermostatically-controlled Tier 4 compliant Cummins engine and hydraulic oil coolers with an optimised air circulation system, which together with a streamlined main hydraulic oil circuit with extended hose diameters, decrease fuel consumption by up to 2 litres an hour compared to previous models.

The new post-compensated and load sensing hydraulic system saves another litre per hour compared to traditional hydraulic systems. The rig also has an efficiency system called Pile Cruise that Junttan says can eliminate human factors from overall efficiency by decreasing the power consumption of the hammer by up to 20%.

According to Junttan, the new rigs were developed in response to demand from the industry and it has worked with customers to develop the specification of the range, which it says has helped to ensure low ownership and operating costs.



RIVER REINFORCEMENT

On its first project, Suttle Projects' new 25t Doosan DX255LC-3 crawler excavator has been used to complete challenging sheet piling work as part of a bridge scour protection contract carried out by Southampton-based Dyer & Butler for London Underground.

Working below a rail bridge over the River Gade in Rickmansworth, Hertfordshire, Suttle installed sheet piles using an excavator-mounted side grip vibratory hammer so the river could be diverted to allow erosion protection of the bridge.

Groundforce adds to depots

Excavation support specialist Groundforce has opened two new hire depots to expand its services in Scotland and Northern Ireland.

"We have found our customer base significantly increasing in both these regions, and we felt we needed to respond to this growth," said Groundforce managing director Simon Littlewood. "Both of these new locations will offer our customers a complete one-stop-shop for the widest ranging and modern fleet of

equipment available, for shoring excavations, trenchless pipe installation and testing pipes."

The new Scottish depot is located in Dyce near Aberdeen to improve its operations in the north and support the existing Coatsbridge depot in Glasgow which will continue to serve the south of Scotland.

Groundforce set up a depot in Portlaoise near Dublin seven years ago and the new site at Lisburn is aimed at meeting demand from the Northern Ireland market more effectively.

BSP's new hammer bridges gap

Hydraulic piling equipment manufacturer BSP has announced the launch of a new impact piling hammer to fill a gap in its existing range.

According to BSP, the 14.5t CXL140 model will bridge the gap between the CX110 and the heavy duty CG180 range of

hydraulic hammers.

The new hammer is fitted with an 11t drop weight that delivers a power output of 140KNm but retains the slim profile of the CX hydraulic hammer range.

BSP has said that the CXL140 can be fitted with back-guides

for European-style leads, side guides for 810mm U-Leads, legs and inserts or a tube guide for crane suspended duties. It can be powered from a BSP hydraulic power pack or suitable leader rig and is capable of driving a wide range of piles.

