



ROAD TECHNOLOGY



LIVE at
bauma 2016

A supplement to:

WORLD HIGHWAYS
ROUTES OF THE WORLD

www.worldhighways.com

AGGREGATES BUSINESS

www.aggbusiness.com

Inside this issue...

- Industry news | Interviews | Earthmoving & excavation | Road construction & recycling
- Quarry & aggregates production | Utility equipment & attachments | Cranes, lifting & access
- Concrete placement, formwork & structures | Technology, surveying & communications
- Hydraulics & drivetrain components | Engines, emissions, cooling, filtration & silencing
- Wear parts & components | Mining

CATERPILLAR IS READY FOR DEMOLITION



Caterpillar says that its new 340F UHD (Ultra High Demolition) excavator offers safe and productive operation. The machine has been designed and developed by Caterpillar and is suited to use in high-reach demolition work. This new model offers up to 22m of vertical pin height and can handling a loads of up to 3.6tonnes at a horizontal reach of 15m. Operating weight varies from 44.1-50.4tonnes, depending on the front end and undercarriage configuration. A novel feature is the new boom coupling system that allows faster changes to the front end to suit the work to be carried out. This boom coupling system allows the user to fit or remove high reach or short front components, while a new hydraulic pin system locks components together. A short boom nose can be positioned in

either a bent or straight position and can be fitted with three available stick lengths. Quick couplers allow faster work tool changes, and the 340F UHD tool control system stores hydraulic pressures and flows for up to 20 tools, allowing instant adjustment of these parameters for optimum performance.

Power comes from a C9.3 diesel that meets EU Stage IV emissions standards and is rated at 228kW. The engine has three power modes – high, standard, and eco – and an auto idle shutdown system stops the diesel after a preset idling interval. For high reach applications, the cab can be tilted back to provide the operator an optimal ergonomic position, and an enlarged top window offers better upward visibility. The demolition type cab has a reinforced windshield and top glass, as well as front and top falling object guard structures (FOGS) provide added protection.

www.cat.com

Soilmec's versatile piling rigs

Soilmec is offering a series of versatile new piling rigs that can handle a range of duties. The improved Blue generation range is built along modular lines. The range includes the new SR-45, SR-75, SR-95, SR-125 and DR-145 models, all of which can handle large diameter piling applications. Although the machines are being introduced, they have already been tested extensively by Soilmec's sister company, Italian contractor Trevi. Vice president Federico Pagliacci said, "If it's a new machine for the market it's not new for use because we have already tested it."

The SR-45 can be specified with a short 8.5m mast for use in urban applications, allowing it to work under power lines or elevated roadways in congested city centres. And this short mast design has been proven by Trevi on a project in Manila. The short mast variant of the SR-45 can drive 2.5m diameter



piles to depths of 19m, while the standard version offers maximum piling depths of 60m.

Pagliacci said that the development of this new piling rig range received assistance from Porsche Consulting, which provided expertise for design and production. The same cab design is used across the range and the larger rigs have bigger undercarriages. The new cabs offer increased visibility and comfort and are equipped with the firm's sophisticated drilling mate system (DMS), which allows the operator to deliver high-quality work consistently.

The firm says that the rigs have Tier 4 Final/Stage IV diesels as standard, although other engines can be used for less regulated markets where low sulphur fuels are not available. The new designs are more powerful as well as being more stable in operation and lighter than the models they replace.

www.soilmec.it

New demolition capabilities

Aquajet is increasing the capabilities of its range with the new 410V Evolution and 710V Evolution XL machines. Key account manager Patrik Anderson explained, "We have upgraded the front of the 410V so you can do more work, as with the 710V. You can do work now directly on walls. It has a reach of 4m and we use the Aqua Spine solution for the tower."

He continued, "The 710 XL is built with a wider and longer chassis and can take even more reaction force. Due to the bigger chassis you have a lower ground pressure as you have a larger footprint." Also new from the firm is its improved aftertreatment unit, the Evoclear. This fits into a standard shipping container allowing it to be transported more easily.

www.aquajet.se