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With cities becoming even more densely populated, companies continue to innovate to make sure they can match and better any challenges they may face. Joe Malone finds out more about the foundations sector



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# Facing the challenges

With cities becoming even more densely populated, companies continue to innovate to make sure they can match and better any challenges they may face. Joe Malone reports

ompanies have faced many challenges on construction sites - whether its vital to ensure the job is done properly.

as the results of inaccurate engineering or

Liebherr's LB 24 rotary drilling rig is being

out piling work at the Prisma retail chain





### **FOUNDATIONS**



Trevi said that it had no time to lose in carrying out the consolidation works, structural restoration and hydraulic protection, as the winter weather could cause the river to flood.

The company believes its experience of working to tight deadlines, and delivering quality, aided its case in being awarded the contract.

Tommaso Gondolini, jobsite director at Trevi, said, "We are in the city centre and we want to minimise the impact of works on the citizenship. But, at the same time, we must be quick in order to essure safety of the riverbank's protection will by early November."

Ironically, November will mark the 50th anniversary of the Florence flood, which caused the Arno River to burst its banks on the Lungarno Torrigiani.

The company will use its PSM-20, SM-405/8 and SM-30 drilling rigs to help toughen the soil and create a stable workforce. It said & wall would be built adjacent to the Poggi Channel, which would protect and stabilise the tunnel, while supporting the excavation up to 3.5m to create a horizontal working platform.

The foundations will be trelicon piles, with a 6m diameter, and will connect on the top with capping beams and cross beams, forming a rigid frame. Another wall will be built near the riverbank wall, and will consist of wooden piles.

year, including the DH-20 and DH-30 piling





### STRUCTURAL COLLAPSE

In Florence, Italy, Trevi is being tasked with carrying out the first phases of foundation works for the Torrigiani embankment, which suffered a structural collapse earlier this year, causing a 3m displacement, with a depth of 3.5m.

Soilmec's new Blue generation includes the SR-75



## **Bauer busy in UK and Netherlands**

Soilmec, meanwhile, has introduced several key innovations and range updates, including the new Blue generation SR-45, SR-75, SR-95, SR-125 and SR-145 hydraulic drilling rigs for large diameter piles.

Soilmec said that, based on the experience and success of the first generation, the new SR rigs had been designed to improve productivity and operating flexibility, in addition to operator comfort and safety.

The new rigs are installed with new Tier 4 diesel engines and are fitted with more powerful and lightweight rotaries, with a claimed torque increase of more than 20% and pull up of more than 30%.



Bauer will lay 600 foundation piles with a diameter of up to 2m and a depth of 60m around the Battersea Power Station in London, UK

## Atlas Copco's 'versatile' drill rig

Atlas Copco says its FlexiROC T20 R is the most versatile of its type on the market

The new SR line generation also claims a reduction in weight but an improvement in performance, thanks to the use of high-strength steels and a new antenna design.

The new Blue SR rigs come with new larger cabs, providing improved comfort and visibility and, equipped with a new DMS system (Drilling Mate System) to allow control of all the operating parameters.

Soilmec said that an innovative kinematic mechanism meant the machines could operate parallel to the tracks.

The control is integrated in the system of the Liebherr basic

pin connections. A high degree of stability

piling rig include easy and quick assembly of pin connections