

Specialist Press Release

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Premiere: Cementation Skanska uses first grid-powered Bauer drilling rig

London, UK – Cementation Skanska and BAUER Maschinen GmbH have jointly brought the world's first electric, large rotary drilling rig to the High Speed 2 (HS2) project in London. Instead of a diesel engine, the BAUER eBG33 has a powerful electric drive. Thanks to a dedicated on-site sub-station, Cementation Skanska can operate the machine with zero local emissions.

This innovative rig proves that heavy-duty, electrically powered construction equipment can perform the same tasks as conventional equipment and is a further step towards diesel-free construction sites in the future. The eBG 33 has been operational for almost 500 hours on this project which means a considerable CO₂ saving. Additionally, the noise reductions are significant, with base carrier noise levels of 50% less, compared to a conventional rig.

Andrew Entwistle, Operations Director at Cementation Skanska, emphasizes: “The emission-free capability of this rig is an exciting step forward in our net zero ambitions. This type of innovation sits at the heart of our carbon reduction strategy and supports HS2 with its ambition for all its construction sites to be diesel free by 2029. Not only has it been valuable for us to work with the eBG 33 first hand on a live project, but it has provided an important opportunity to demonstrate the potential of all-electric heavy plant to the wider industry.”

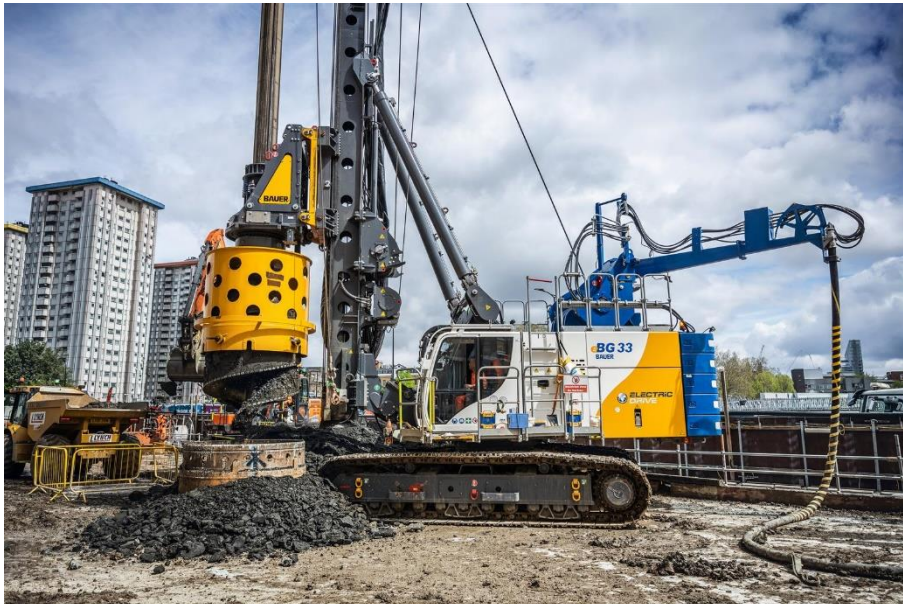
Warren Arnold, General Manager of BAUER Equipment UK Ltd, says: “We are delighted to be working with Cementation on this project to deliver this world first use of a fully local emission free, high-capacity drilling rig. We are all incredibly proud of this unique rig which is setting standards. All the data recorded during operation will help Bauer in the further development of our environmentally friendly rigs and in our ambition to be the leading supplier of sustainable equipment for specialist foundation engineering. This really is a great opportunity to showcase what the eBG 33 can deliver in real terms and the benefits to the local community and environment.”

This deployment run is a continuation of work carried out as part of the HS2 project in Birmingham, where the rig was powered by a generator. There, the cable handling was tested for the very first time in a live environment. With the ability to connect the unit to the local power grid in London, Bauer and Cementation were able to put the eBG 33 through its paces and gather valuable data on power consumption throughout the piling operation. This data will be used in the further development of the battery-powered eBG 33 H all electric recently introduced by BAUER Maschinen GmbH.

Photos: 2023-05-BAUER-HS2-London-eBG33...



(1) Working on a live project: The BAUER eBG 33 is in operation on an HS2 project in London. © BAUER Group



(2) Thanks to a dedicated on-site electrical sub-station, Cementation Skanska can operate the rig completely local emission free. © BAUER Group

About BAUER Maschinen Group

For almost 60 years, equipment from Bauer has represented the highest performance and quality and constant innovation. The BAUER Maschinen Group is the world market leader in the development and manufacture of specialist foundation engineering equipment. BAUER Maschinen GmbH, which is also the holding company for a number of subsidiaries, designs and builds large-diameter drilling rigs, duty-cycle cranes, trench cutters, grabs and vibrators as well as the related tooling at its plants in Schrobenhausen, Aresing and Edelshausen. The subsidiaries manufacture state-of-the-art mixing and separation equipment as well as rotary drive systems

and equipment for drilling small-diameter boreholes and wells. The BAUER Maschinen Group also operates manufacturing facilities in the USA, China, Malaysia, Italy, Singapore and Turkey. A component supplier within the Group is Schachtbau Nordhausen. The company operates a global sales and service network. More at bma.bauer.de

About Bauer

The BAUER Group is a leading provider of services, equipment and products dealing with ground and groundwater. The Group can rely on a worldwide network on all continents. The Group's operations are divided into three forward-looking segments with high synergy potential: Construction, Equipment and Resources. Bauer profits enormously from the collaboration of its three business segments, enabling the Group to position itself as an innovative, highly specialized provider of products and services for demanding projects in specialist foundation engineering and related markets. Bauer therefore offers suitable solutions to the world's greatest challenges, such as urbanization, the growing infrastructure needs, the environment, as well as water. The BAUER Group was founded in 1790 and is based in Schrobenhausen, Bavaria. In 2022, it employed about 12,000 people and achieved total Group revenues of EUR 1.7 billion worldwide. BAUER Aktiengesellschaft is listed in the Prime Standard of the German Stock Exchange. More information can be found at www.bauer.de. Follow us on [Facebook](#), [LinkedIn](#) and [YouTube](#)!