

Press Release

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Water, geothermal energy, mining: Mobile rigs from Bauer for the challenges of the future

Schrobenhausen, Germany – Water, energy and raw materials are core topics of our times. The only way we can overcome the challenges of a rapidly changing world is by successfully generating and supplying these resources in a sustainable manner. After all, even though the demand for water, energy and raw materials is already massive today, it will continue to grow exponentially in the future due to the major trends of urbanization and digitalization. Climate change also requires rethinking energy and raw materials for the long term. How can these issues be tackled effectively? Part of the answer is buried deep below the ground, beneath tons of soil and rock. Here there are resource deposits that have not yet been mined or even explored at all. And Bauer Maschinen offers just the right rigs for this purpose.

Mobile rigs

Challenging geology, large drilling depths or drilling diameters: no problem for Bauer's mobile universal drilling rigs from the RB series. They offer the optimal technical prerequisites, for example, to develop low-lying drinking water sources, make geothermal energy usable, explore raw material deposits or for dewatering well drilling in mining operations. Their major advantage: With minimal retrofitting, the same equipment can be used to implement various methods, such as direct flush, mud rotary reverse circulation airlift, hammer drilling or cable core drilling. "This flexibility as well as the implementation of solutions tailored to the specific customer are what make the RB series special," says Ulrich Schöpf, Head of Production – Water, Energy, Mining at BAUER Maschinen GmbH.

The current RB product series includes the trailer-based rigs RB-T 100 and RB-T 135 (max. hook load: 142 t) along with the two truck-based rigs RB 50 and RB 65 (max. hook load: 70 t). The on-board hydraulic system of the RB 50 and RB 65 is powered via the truck's auxiliary drive, and the two rigs feature a hybrid feed system using cylinder and hoist. External components such as compressors or flushing pumps are integrated into the drilling system of the rigs.

Focus on automation

Last spring, Bauer Maschinen presented the latest generation of the RB 65. In particular, this enhancement focused on automation of the modular equipment. For this reason, the rigs feature an electrical pilot control for more economical and safe operation based on automation processes. Depending on the geology as well as the size and weight of the drilling tool, the RB 65 can be used for small caliber drilling up to a depth of 1,550 m as well as large caliber diameters of 1,200 mm up to a final depth of roughly 400 m. With the Restricted Operating Mode (ROM), the protective cage, safety control and other features, the RB 50 and RB 65 also fulfil all requirements pursuant to CE/DIN EN 16228 – an

important factor for the European market. But several RB rigs are already being used successfully not only here, but also in Africa and South America.

Closing the circle

With a view to the market in North and Central America, Bauer acquired the long-established GEFECO brand in 2020, which is one of the market leaders in the region when it comes to well drilling for water supply and irrigation. The GEFECO equipment is currently produced on the premises of BAUER Equipment America in Conroe, Texas. Depending on the model, these feature a hook load of between 12 and 42 t. “The GEFECO brand is an optimal addition to our portfolio,” says Wolfgang Pünnel, head of the Water, Energy & Mining division at BAUER Maschinen GmbH. “And in a certain sense, this is also a nice reference to our origins: after all, it was when Bauer got started with well construction in the first half of the 20th century that the company took its first steps away from being a coppersmith’s workshop towards the internationally successful company it has become.”

Get to know the BAUER RB 65 in the video at https://youtu.be/hb_44ehjw8v

Photos: press-photo-rb-rigs-water-geothermal-energy-mining-bauer-maschinen...



(1) The latest generation of the RB 65 rig features an electrical pilot control, automation processes make operation more economical and safer.



(2) RB 65 with special equipment for operation in the desert of Kazakhstan with automated drill string handling system

All photos: © 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: Geotechnical Solutions, 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. More information can be found at www.bauer.de. Follow us on [Facebook](#), [LinkedIn](#) and [YouTube](#)!