

Press Release

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eRG 21 T hybrid: Innovative hybrid drive reduces emissions by up to 68%

- Powerful combination of 430 kW diesel engine and 88 kW electric motor
- Demand-based engine control for optimal power efficiency
- Bauer comfort operator cabin, touchscreen with B-Tronic control, integrated power management and basic remote control as standard
- Wide range of optional extra features available

Munich, Germany – A construction site with minimal noise and emissions? The eRG 21 T hybrid from RTG Rammtechnik GmbH proves it's possible. At bauma 2025, the machine was a major attraction at the Bauer booth – and for good reason. Its innovative drive system combines the power of a 430 kW diesel engine with the precision of an electric motor delivering up to 88 kW of additional power (standard power supply: 125 A / 400 V). This unique hybrid technology ensures a constant high level of efficiency, even under strict emission regulations. Thanks to the support of the electric motor, the diesel engine operates with reduced power, which not only markedly reduces noise, but also reduces fuel consumption. As a result, CO₂ emissions are reduced by up to 68% – a remarkable testament to the advantages of this forward-thinking drive technology.

Flexible and powerful

The hybrid drive offers not only environmental benefits but also maximum flexibility. The system seamlessly adjusts between diesel and electric power based on demand, optimizing performance for various applications. When lower power is required, the machine can even operate in fully electro-hydraulic mode. Meanwhile, full power is available for demanding piling tasks.

High-quality standard features

The standard equipment for the eRG 21 T hybrid includes the Bauer comfort operator cabin and a state-of-the-art touchscreen with B-Tronic control. Integrated power management optimizes the use of the hybrid drive. The temperature-regulated fan control system with full automatic operation was specially developed for vibrator operation. Additionally, the machine features a basic remote control as well as retractable side flaps for automatic noise protection.

Optional extras for increased efficiency

A variety of optional features allow customization for specific requirements. An arctic kit or the extended arctic kit plus, for example, enable operation even under extreme weather conditions. An optional second swiveling mechanism increases the swivel braking torque, improving machine control. The energy-efficient power (EEP) system with Eco Mode further helps reduce energy consumption. An extended remote control (Operation) and

automatic coupling system for the base machine (ACS I) and all attachments (ACS II) are also available.

Successful use on site

The innovative hybrid drive has already demonstrated its reliability with the eRG 19 T hybrid, the "smaller sister" of the eRG 21 T hybrid. Last year, it was used successfully at the Friedrich-Krause-Ufer site in Berlin. During the special foundation engineering work for a new office and commercial building, the machine executed vibration driving precisely based on a grid pattern, laying the groundwork for an excavation pit with a stable sealing horizon.

Images of the exhibits (© BAUER Group) can be found in our picture gallery at
<https://bauer.canto.de/v/bauma/>

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 <https://equipment.bauer.de/en>.

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 2023, it employed about 12,000 people and achieved total Group revenues of EUR 1.8 billion worldwide. More information can be found at <https://www.bauer.de/en>. Follow us on [Facebook](#), [LinkedIn](#), [Instagram](#) and [YouTube](#)!