

Press release

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Generational Change in the Control of Specialist Foundation Engineering Equipment: BAUER Maschinen GmbH Advances B-Tronic

- B-Tronic connects the operator and the machine, integrating machine functions, process data, and assistance systems for efficient operations in specialist foundation civil engineering
- B-Tronic 4 as the established standard, used in BAUER rotary drilling rigs, duty-cycle cranes, and RTG pile drivers
- The new B-Tronic 5, developed specifically for rotary drilling rigs, features a dynamic user interface and practical process support
- Focus on the operator: individual profiles, a customizable work environment, and integrated assistance to reduce operating effort and optimize workflows

Schrobenhausen, Germany – In specialist foundation engineering, execution is what determines the stability of an entire structure. What ultimately supports a building begins deep below ground. This is precisely where BAUER's B-Tronic supports equipment operators. Serving as both a control and operating interface, it integrates machine functions, process data, and assistance systems into a single environment, creating the foundation for efficient workflows on the jobsite. In short, B-Tronic connects operator and machine.

B-Tronic 4 Established as the Standard

With B-Tronic 4, BAUER has created a modern, standardized control system across its equipment portfolio. Today, the platform is used in a wide range of specialist foundation engineering machines – from BAUER rotary drilling rigs and duty-cycle cranes to piling rigs from RTG.

Seamless Flow of Information

B-Tronic is far more than a machine control system. It supports operators during daily operations, automates recurring tasks, and provides valuable data for analysis and project planning. Sensors continuously capture operating data, making it available in the cab, on mobile devices, and in the office. The result is a seamless flow of information – from execution in the ground to project documentation. BAUER continues to enhance and expand this system.

The Next Stage of Development: B-Tronic 5

Rotary drilling rigs, in particular, place significant demands on operators in specialist foundation construction. Their work processes are highly dynamic and complex, requiring numerous decisions to be made within short periods of time. To address these challenges,

BAUER has introduced the next generation of its control system: B-Tronic 5. Developed specifically for rotary drilling rigs, it focuses on dynamic operation, process support, and practical usability for demanding drilling applications.

Developed with Operators, for Operators

B-Tronic 5 was developed in close collaboration with experienced equipment operators. Their feedback from real-world jobsites played a decisive role in shaping the system's structure, operating logic, and functionality. The result is a control platform designed around actual workflows. The user interface can be individually configured, and functions are tailored to typical operating conditions. The goal is to reduce operator workload and allow users to focus on the drilling process itself.

Dynamic User Interface

At the heart of the new generation is a dynamic user interface. Rather than relying on static displays, the system automatically adapts to the current stage of operation. Content and visualizations change dynamically as work progresses through different process phases. User-defined thresholds provide visual feedback whenever deviations occur. This ensures that operators receive exactly the information they need at the moment they need it. Maik Breuning, equipment operator at DEMLER Spezialtiefbau GmbH, appreciates this approach: "You're not working with a rigid screen. The functions are flexible and can be customized to your needs. Many key parameters are calculated automatically, allowing you to focus more on the work itself. At the same time, you can optimize your workflows. That's why I enjoy working with B-Tronic 5 – no other machine offers that."

Integrated Support Features

In day-to-day operations, clarity matters. B-Tronic 5 presents all relevant machine and process data in a clear, structured format. Messages, functions, and guidance are logically organized and quickly accessible. Integrated support tools assist operators directly during operation and are complemented by practical usage tips. This reduces time spent searching for information and simplifies operation, particularly in complex working situations.

A Personalized Working Environment

Every operator works differently. B-Tronic 5 reflects that reality. Personal user profiles enable customized work screens tailored to individual preferences. Frequently used functions can be arranged as widgets, creating an operating environment that matches each user's needs and supports uninterrupted workflows.

Designed Around the Operator

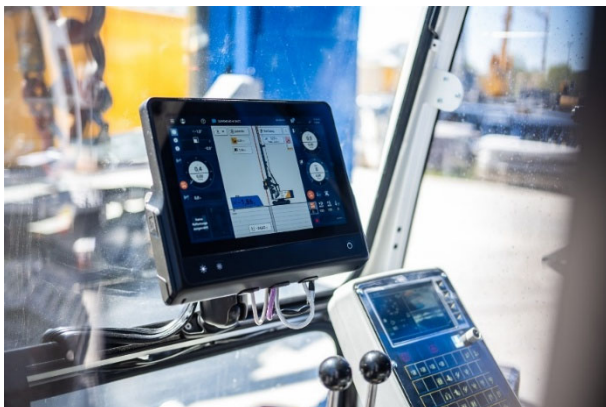
"With B-Tronic 5, we have specifically aligned the next stage of development of our machine control system with the requirements of modern rotary drilling rigs. Throughout the development process, our focus remained firmly on the operators and their workflows," says Franz Harnisch, Product Manager Drilling Rigs at BAUER Maschinen GmbH. "At the same time, B-Tronic 4 remains an integral part of our portfolio and will continue to serve as the proven standard solution for our rotary drilling rigs, piling rigs, and duty-cycle cranes."

Video BAUER B-Tronic 5: <https://www.youtube.com/watch?v=D25jqS44lks>

Photos: pressebild-press-image-b-tronic-5-bauer-maschinen...



(1) The BAUER B-Tronic 5 consistently focuses on dynamics, process support, and practical operation for demanding drilling applications.



(2) Dynamic user interface: The display adapts individually to the current work step.

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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, 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 deep drilling equipment, 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: 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 2025, it employed about 10,500 people and achieved total Group revenues of EUR 1.7 billion worldwide. More information can be found at <https://www.bauer.de/en>. Follow us on [Facebook](#), [LinkedIn](#), [Instagram](#) and [YouTube](#)!