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Press Release

bauma 2025

Solutions for the mining of the future

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- **A wide range of new e-machines**
- **Further developments on the topic of autonomy**
- **Digital management and intelligent machines**

The global mining industry faces the challenge of securing the economic supply of raw materials while minimizing negative impacts on the environment, climate and people. Dealing with this “mining challenge” is one of the key topics of bauma 2025. The world’s leading trade fair for construction machinery, building material machines, mining machines, construction vehicles and construction equipment will be held from April 7 to 13 at the Munich exhibition center. It shows which innovative solutions will be used to make mining even more efficient, safe and sustainable in the future.

E-charger on board

Many mining companies have set themselves ambitious targets for reducing emissions in the interests of climate protection, but also for reducing exhaust emissions underground for operational benefits. One approach to decarbonization that has been pursued for some time is the switch to alternative drives. At bauma 2025, this trend will continue with a wealth of ideas. For example, the manufacturer Aramine is presenting the L440B, the only battery-powered charger to date that does not require a fixed infrastructure for charging in the mine. Instead, it has an integrated charger that can be used to charge it anywhere as long as a power connection is available. This saves expensive and complex installations. As the machine’s battery unit can be easily connected and disconnected, it is possible to carry out work without interruption thanks to the alternating use of two batteries.

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In order to generate the electricity used in the machines directly in the mine with zero local emissions, Aramine and its partner company Tysilio also offer solar power plants that can be transported by container and set up quickly – a concept that benefits in particular remote locations.

Giant excavator with power cable

Komatsu is bringing a true titan among electrified mining machines to the Bavarian capital: The PC7000-11E large hydraulic excavator, which is powered by a power cable, is equipped with a class-leading 44 m³ backhoe bucket. It combines high digging power with a low carbon footprint. The automatic winding of the cable makes maneuvering in open cast mining safe and easy.

Autonomous solutions in different dimensions

Another mining giant that also combines decarbonization with the topic of “autonomous driving”, highly relevant especially in mining, is the T 264 dump truck. Developed by Liebherr in collaboration with the Australian mining group Fortescue, the machine is equipped with a 3.2 MW battery and has a payload of 240 tons. The battery powered S1 Vision, also from Liebherr, transports material autonomously – but in a completely different way. The new single-axle vehicle only has two tires, which allows it to turn on the spot and drive in all directions, making it ideal for use in confined spaces. It is scalable and can carry a payload of 220 kilograms to 131 tons. The S1 Vision has been nominated for the bauma Innovation Award in the machine technology category.

Networking machine data with each other

Digital transformation plays a key role in optimizing mining processes. One of the innovations on show at bauma 2025 in this area is the Underground Manager 2.0. Epiroc’s digital solution for tunnel construction projects seamlessly connects machine data from different units. The platform supports the management of drilling, grouting and anchoring works and acts as a centralized system for streamlined project execution. The Underground Manager 2.0 enables precise planning, real-time performance evaluation and comprehensive operational reporting.

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Intelligent thanks to on-board diagnostics

The Universa 55 from Paus is the next, smart generation of a compact carrier machine for various mining tasks. With their on-board diagnostics, the driver can monitor important operating data in real time, including the sensors of the control elements. The system also supports the diagnosis of active faults, enabling timely intervention to minimize downtime. In addition, the vehicle is pre-equipped as standard with an interface for connecting to a cloud solution from Paus, which offers functions such as real-time monitoring, geofencing, statistical analyses and remote diagnostics and maintenance.

Additional information about bauma as well as photo and video material are available online at <https://bauma.de/en/>

bauma

bauma is the world's leading sector event for construction machinery, building material machines, mining machines, construction vehicles and construction machinery. With a total exhibition area of 614,000 square meters, it is the largest trade fair in the world. bauma takes place every three years. The next event will be held in Munich from April 7 to 13, 2025.

bauma NETWORK

In addition to holding the world-leading bauma trade fair, Messe München has a wealth of experience when it comes to organizing other international construction machinery trade fairs. For example, Messe München also organizes bauma CHINA in Shanghai, and partners with the Association of Equipment Manufacturers (AEM) to organize bauma CONEXPO INDIA in Greater Noida/Delhi. In March 2017, the M&T EXPO was added to the bauma NETWORK in the form of a license agreement with SOBRATEMA (Brazilian Association of Technology for Construction and Mining).

Messe München

As one of the world's leading trade fair organizers, Messe München presents the world of tomorrow at its around 90 international trade fairs. These include twelve of the world's leading trade fairs such as bauma, BAU, IFAT, and electronica. Its portfolio comprises trade fairs for capital and consumer goods, as well as for new technologies. Together with its 1,300 employees in the group and the affiliated companies, it organizes trade fairs in China, India, Brazil, South Africa, Turkey, Singapore, Vietnam, Hong Kong, Thailand, and the U.S. With an international network of affiliated companies and foreign representatives, Messe München is active worldwide. The more than 150 events held annually attract around 50,000 exhibitors and around three million visitors in Germany and abroad. This makes Messe München an important economic driver, triggering purchasing power effects in the billions.