

Weltleitmesse für Baumaschinen, Baustoffmaschinen,
Bergbaumaschinen, Baufahrzeuge und Baugeräte
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World's Leading Trade Fair for Construction Machinery, Building Material Machines,
Mining Machines, Construction Vehicles and Construction Equipment
October 24–30, 2022, Messe München, Germany

bauma.de

bauma

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Press Release

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Trade fair innovations powered by electricity

- **Electric motors are beneficial for many reasons**
- **Compressing, handling, transporting and lifting with zero emissions**
- **Other new products under wraps until the trade fair**

Zero-emission operation is one of the major trends in the construction machinery industry. Here's a first glimpse at the new products expected at bauma. The world's leading trade fair for construction machinery, building material and mining machines as well as construction vehicles and equipment will be held from October 24 to 30 at the Munich trade fair site.

To reduce greenhouse gas emissions in keeping with climate protection goals, more and more construction machinery and vehicles are being developed with electric drives. Other advantages are also driving this trend. For example, electric motors are quiet, which makes them suitable for use in low-noise areas – for example, near hospitals or at city construction sites. They also protect operators and the environment from exposure to direct exhaust fumes, making it possible for many work processes to be performed even in places with poor ventilation. Another benefit is that electric motors are regarded as low-maintenance and efficient, which means they ensure low operating and energy costs. So it makes sense that “The road to zero emissions” is also one of the key topics at this year's bauma. Many exhibitors have already announced brand-new e-solutions for the fair.

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Reversible vibratory plate with battery

These include the first battery-powered reversible vibratory plate with a direct drive. The APU3050e from manufacturer Wacker Neuson uses the proven hydraulic adjustment system to change direction, just like in conventional models. With a working width of 50 cm and a centrifugal force of 30 kN, the machine is easy to control and has the lowest overall height of all reversible vibratory plates on the market, making it ideally suited for use in narrow trenches.

Zero-emission compaction with e-tandem rollers

In the future, electrically driven tandem rollers can be the answer wherever zero-emission compaction is needed on a larger scale. Hamm AG will present eight models from the HD CompactLine series in their world premiere at bauma. They are powered by a maintenance-free lithium-ion battery with a capacity of around 23 kWh. In addition, the energy released by the traction and vibration motors during braking is used in recovery. The battery has enough capacity for an entire working day. The e-drive also significantly reduces noise emissions, making the e-tandem rollers suitable for all areas that require particularly quiet compaction. Because these settings also often require a low vibration load, the compaction specialist is introducing an electric combination roller with oscillation in addition to e-vibration and oscillation rollers.

All-electric concept for compact track loader

The T7X, still in the concept phase, is the world's first all-electric compact track loader. Its manufacturer, Bobcat, will use bauma to continue gathering customer feedback from different segments. Its aim is to be able to better assess market opportunities for the machine in Europe, the Middle East and Africa. With its 62-kWh lithium-ion battery pack, the T7X can operate continuously for four hours. Its mobile payload is just under 1,400 kg. In contrast to all other loaders worldwide, the new machine requires virtually no fluids: Bobcat has completely replaced the traditional hydraulic system with an electric drive system comprising electric cylinders and electric drive motors. The only liquid in the machine is about four liters of environmentally friendly coolant.

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Concrete mixer with all-electric drive

Putzmeister envisions a future with all-electric concrete transport thanks to its iONTRON e-mixer. The vehicle's battery has a capacity of 350 kWh, which means that one battery charge is enough for five to six trips in urban areas – usually sufficient for an entire workday. The vehicle can simply be recharged if more trips are planned. The mixer can recharge to full power overnight at a DC charging station. Its virtually silent operation enables unrestricted use even in locations with strict noise regulations – a significant competitive advantage when it comes to bids in metropolitan areas. Rising prices for fossil fuels also make the e-drive an economical alternative.

Electrohydraulic lifting

The E-Pack from Tadano is an electrohydraulic system with an integrated 32 kW electric motor providing low-noise and emission-free crane operation. This solution was presented at the last bauma in 2019. At that time, it was only available for a single crane vehicle. At the world's leading trade fair this year, Tadano will show that, in the meantime, five of its AC cranes can be ordered with the E-Pack or existing cranes retrofitted with it.

The Japanese manufacturer will also offer a preview of the world's first all-electric rough terrain crane. The machine is currently in an advanced development phase and is scheduled for market launch at the end of 2023. It will be able to drive to and from the job site and perform all lifting there using only the energy supplied by its batteries.

Other exhibitors have already announced new e-machines, but want to wait for bauma to "let the cat out of the bag". These include the successor model to the 5055e all-wheel drive electric wheel loader from Kramer-Werke GmbH. In addition, the company promises a new electric telescopic loader – without revealing any further details right now. And that's another reason why a visit to the Munich exhibition grounds in October is well worth your time.

You can find more information at <https://bauma.de>

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About 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. In 2019, it broke all records with about 3,700 exhibitors from 63 countries and more than 620,000 visitors from over 200 countries. bauma is held every three years. The next event will be held in Munich from October 24 to 30, 2022.

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

Messe München is one of the leading exhibition organizers worldwide with more than 50 of its own trade shows for capital goods, consumer goods and new technologies. Every year, a total of over 50,000 exhibitors and around three million visitors take part in more than 200 events at the exhibition center in Munich, at the ICM – Internationales Congress Center München, the Conference Center Nord and the MOC Veranstaltungszentrum München as well as abroad. Together with its subsidiary companies, Messe München organizes trade shows in China, India, Brazil, South Africa and Turkey. With a network of associated companies in Europe, Asia, Africa, and South America, and with around 70 representatives abroad for more than 100 countries, Messe München has a truly global presence.