

Munich, October 18, 2024

Press Release

bauma 2025

Construction machinery industry striving for climate neutrality

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- **Further boost machine efficiency**
- **Make construction processes more efficient**
- **Use alternative energy sources**

How can construction processes be as climate-neutral as possible in the future? bauma 2025 provides answers to this question in one of its key topics. The world's leading trade fair for construction machinery, building material machines, mining machines, construction vehicles and construction equipment will be held in Munich from April 7 to 13, 2025.

In December 2019, the EU Commission presented the ambitious goal of making the European Union climate-neutral by 2050. It is estimated that the construction value chain currently accounts for around 36 percent of carbon emissions within the EU. The vast majority of greenhouse gases are emitted during the production of building materials and decades of operating the completed buildings. Nevertheless, to reach the goal, everything must be done during the construction phase to achieve maximum decarbonization.

High expectations for process optimization

One approach to more climate protection at the construction site is to improve machine efficiency. "As the international construction machinery industry has already been vigorously driving forward this development for decades, for example, through increasingly economical components, much has already been achieved in this regard," says Joachim Schmid, Managing Director in the Construction Machinery and Building Material Plants division at the German

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Mechanical Engineering Industry Association (VDMA). He believes that process optimization when using construction machinery currently promises a particularly strong impact on the path toward climate neutrality.

Opportunities through digitalization and automation

At bauma, possibilities offered specifically through digitalization and automation will become particularly clear. Digital solutions allow better planning of machines, which helps avoid idle times. Developing sophisticated machine-to-machine communication can ensure more efficient production chains, while smart sensors can monitor the machine status and thus detect increased energy consumption for technical reasons at an early stage.

“There is also significant potential for reducing CO₂ in machine operation,” as Schmid knows, explaining that, in addition to appropriate training for machine operators, the industry was increasingly relying on digital assistance systems and (partial) automation of processes.

Alternative drive concepts as a separate key topic

Another important lever for decarbonization is the development of alternative drive concepts. In addition to the already widespread use of electric motors, many companies and research institutes are also focusing on developing and testing hydrogen-powered construction machinery. The use of hydrogenated vegetable oil (HVO) also promises great potential for reducing greenhouse gases. “Because alternative drive concepts are currently so relevant for manufacturers and users, we are dedicating a separate key topic to this technology segment at bauma 2025,” explains Nicole Schmitt, bauma Exhibition Director.

Getting manufacturers, users and politicians talking

For the transformation to a climate-neutral construction site to succeed, in addition to new technological developments by machine manufacturers, and construction companies willing to innovate, politicians also need to set the right course, for instance, by creating a suitable legal framework, cutting red tape, providing research funding, and establishing guidelines for developing a nationwide supply infrastructure with alternative energy sources. For Nicole Schmitt,

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“bauma is the ideal platform in that regard for everyone involved to exchange ideas.”

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

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 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 as well as 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 subsidiaries, it organizes trade fairs in China, India, Brazil, South Africa, Turkey, Singapore, Vietnam, Hong Kong, Thailand, and the U.S. With a network of over 15 associated companies and almost 70 offices worldwide, Messe München is active in more than 130 countries. The more than 150 events held annually attract around 50,000 exhibitors and around three million visitors in Germany and abroad.