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Press release

bauma 2019: The construction machinery industry focuses on digital solutions

- Numerous machine management and telematics solutions
- Apps, programs and sensors facilitate processes in the construction industry
- Intelligent assistance systems are improving safety

The comparatively high number of new products from this segment at the fair demonstrates: Digitalization is the main topic for bauma 2019. The construction machinery industry has set its sights on unlocking the possibilities of digitalization and standardizing digital solutions. Visitors can learn how far along the industry is at bauma, the world's leading trade fair for construction machinery, building material and mining machines, construction vehicles and equipment, from April 8 to 14, 2019, at the Munich trade fair site.

Digital machine management and telematics solutions are clearly on the way to becoming the new standard in the construction industry. At bauma, numerous manufacturers from a wide range of product segments are presenting sensors and programs that provide answers to questions such as: Where is the machine located? How many operating hours has it performed? Is it displaying any error codes? When will service or maintenance measures be necessary?

Sensors make existing machines smart

The Waiblingen-based company Stihl shows how analog devices can become smart for less than €20. The key element here is the Stihl Smart Connector – a sensor with a nearly 5 cm diameter that is mounted to the machines. It records operating hours and transmits them via the user's smartphone or tablet to a cloud with central data storage. The geo position can also be transmitted if necessary. The information is then made available for users to analyze. They can thereby precisely coordinate their machine park, optimize their daily work processes and minimize downtimes. The system also notifies users of upcoming machine maintenance.

Smartphone app explains diagnostic codes from cranes

Sometimes even a smartphone app can make day-to-day work easier for its users. This is the case at Manitowoc. The crane manufacturer from Milwaukee,

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USA, developed a free app that helps the crane operator interpret the diagnostic codes generated by the on-board control system and displayed in the operator's cabin. Instead of waiting for specially trained technical personnel with specialized equipment, the crane owner can use the information to begin resolving the problem immediately, which improves operating time.

Speed and structure for rental machine checks

The app klickcheck from Zeppelin Lab GmbH in Berlin, Germany, is aimed at leasing companies in the building industry. It provides an easy way to collect all documents that are needed for equipment handover and store them in the cloud. The machines are identified through a QR code and examined using individual checklists on the smartphone. Users and lessors can digitally document damage and defects in pictures and texts. In addition, an overview of the fleet lets lessors immediately see which machines are available, leased or undergoing maintenance.

Digital assistant for formwork

Digital planning aids have long been part of the repertoire for formwork specialists. But there is always room for improvement. For instance, Planitec, part of the Paschal Group of companies (Steinach, Germany), is presenting the next version – its twelfth – of its fully automatic planning software Paschal-Plan light. The tool also provides materials scheduling. A new interface enables all relevant geometric and formwork information to be exchanged with BIM-capable programs.

Competitor Doka from Amstetten, Austria, is presenting a digital system at bauma that helps surveyors and building site teams quickly and precisely set up the wall formwork with self-climbing systems. The DokaXact solution uses measuring sensors that are affixed to defined points on the formwork and communicate wirelessly with a central processing unit. During calculation of the necessary slope of the formwork elements, the current position of the preceding concrete sections is used as a basis. The sensor is accurate to ± 2 mm. Doka has been nominated for the bauma Innovation Award 2019 in the Digital Systems category for this solution.

Sensor-supported person recognition for wheel loaders

Among many other products, Liebherr-International AG is showcasing a complete package of intelligent assistance systems for the XPower large wheel loader at the Munich trade fair site. It features a new active person recognition system in the back. It uses sensors to independently differentiate between people and static objects. When people are detected in the hazard zone, the system alerts at greater distance than with walls or pillars. This helps prevent unnecessary warning signals, which reduces stress for the machine operator.

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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 equipment. With a total exhibition space of 605,000 square meters, bauma is also the largest trade show in the world. In 2016 bauma broke again all previous records, attracting a total of 3,425 exhibitors from 58 countries, and 583,736 visitors from 219 countries. bauma takes place every three years in Munich; the dates for the next edition are April 8 to 14, 2019.

bauma NETWORK: Six construction machinery trade fairs of Messe München

In addition to the world's leading trade fair bauma, Messe München has extensive skill in organizing additional international construction machinery trade fairs. For example, Messe München organizes bauma China in Shanghai and bauma CONEXPO INDIA in Gurgaon/Delhi together with the Association of Equipment Manufacturers (AEM) as well as the bauma CONEXPO Africa in Johannesburg. In December 2015, Messe München successfully expanded its portfolio further with the purchase of the leading Russian construction machinery trade fair CTT, now renamed bauma CTT RUSSIA. In March 2017, the bauma NETWORK was again expanded with M&T EXPO in the form of a license agreement with SOBRATEMA (Brazilian Association of 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 and the MOC Veranstaltungszentrum München as well as abroad. Together with its subsidiary companies, Messe München organizes trade shows in China, India, Brazil, Russia, Turkey, South Africa, Nigeria, Vietnam and Iran. With a network of associated companies in Europe, Asia, Africa and South America as well as around 70 representations abroad for over 100 countries, Messe München has a global presence.