PRESS RELEASE

BLUM at EMO 2019 – DIGILOG technology, LC-VISION and spindle monitoring

Blum-Novotest, a leading supplier of innovative and high-quality measuring and testing technology, will once again be exhibiting at EMO 2019 in Hanover/Germany with many new innovations on display (hall 6, stand D01): This includes the new visualisation and evaluation software LC-VISION, several solutions for determining the quality of machine tool spindles and the latest applications in the field of DIGILOG tool and workpiece measurement.

Winfried Weiland, Marketing Manager at Blum-Novotest GmbH, explains: “Thanks to DIGILOG technology, we have been able to create the basis for a whole range of highly innovative products; with the LC50-DIGILOG laser measuring system, introduced in 2017, leading the way. These DIGILOG workpiece and tool measuring systems enable even faster measurements by recording thousands of measured values a second and offering maximum process reliability through data stream evaluation and, above all, previously unimaginable applications. In addition to the latest hardware and software solutions, our presentation at EMO will therefore also focus on showcasing current and future areas of application for DIGILOG technology within a networked production environment: For example, the scanning measurement of contours and bores, the use of DIGILOG systems in closed-loop processes or the roughness measurement of workpiece surfaces in large-scale production.”

The highlight of the exhibition and a worldwide unique solution is the new visualisation and evaluation software ‘LC-VISION’. The application, specially developed for BLUM’s laser measuring systems, takes tool measurement in the machine to the next level since, for the first time, it enables live visualisation and analysis of the values recorded during the measuring process directly on the machine control. The software is used, for example, in combination with the other new option ‘SpindleControl’. With the help of this application, DIGILOG laser measuring systems can record the condition of the spindle at different speeds and indicate at an early stage any bearing damage and resulting machining inaccuracies, for example. This data can also be used for preventive maintenance, thereby ensuring that a spindle can be overhauled in good time before total failure and unscheduled machine downtime occur. The function is also used in real-life scenarios to minimise the warm-up times of machines in high-precision machining: By using SpindleControl, the user can determine when the machine has reached a thermally stable state and machining can commence. Even vibration analysis based on spindle rpm/range is possible: The data can be used to identify irregularities that indicate, for example, bearing damage.

BLUM will also be presenting the technology cycle 3D ToolControl based on LC-VISION at EMO. If, for example, the new option is to be used to monitor a ball nose mill for wear, the longest and shortest cutting edge at various pressure angles can be visualised at a glance in LC-VISION. The user can therefore see at which angular position a problem exists and is able to determine the most suitable compensation method for this application and machine with the aid of various evaluation methods. Moreover, LC-VISION also provides a view in which the measured length values of each individual cutting edge are displayed in a bar chart. Based on this visualisation, it is, for instance, possible to draw conclusions about the achievable surface quality, the quality of the (new) tools used and their service life. Another special feature of LC-VISION is the diagnostics view: For the first time, all relevant system information, such as focus position, installed hardware and software as well as preventive maintenance data, is displayed to the operator on the control screen.

“In the event that a BLUM DIGILOG laser measuring system is not installed in a machine, we will also be presenting ‘Portable SpindleControl’ (PSC), a mobile solution for spindle monitoring, at EMO. The compact and easy-to-operate system, consisting of LC50-DIGILOG, SpindleControl software and further accessories, enables you to carry out almost all SpindleControl functions without actual connection to the machine control. The laser measuring system simply has to be fixed to the machine table with a magnetic holder, while the SpindleControl software runs on an external PC. We therefore offer the ideal solution for every work situation; from the spindle test bench for development and production to the machine-integrated version for end customers and a mobile solution for service staff,” says Winfried Weiland.

Established in 1968 and based in Ravensburg, Germany, Blum-Novotest GmbH is a global leader in the manufacture of high-quality measuring and testing technology for the international machine tool, aerospace and automotive industries. Today, the family-run enterprise employs roughly 600 people at a total of nine sites in Europe as well as in the USA, Mexico, Brazil, China, Japan, Taiwan, Singapore, Korea, India and Thailand. Blum-Novotest’s highly trained system integrators and regional sales offices guarantee a comprehensive sales and service network that supports Blum products in use throughout the world. www.blum-novotest.com

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Image material

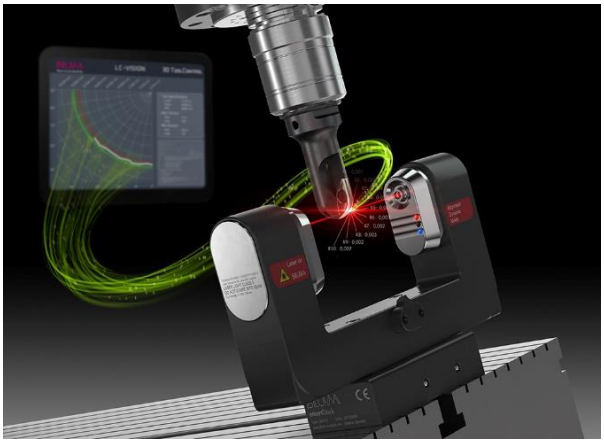

Image 1: Thousands of measured values a second: BLUM presents the latest applications in the field of DIGILOG tool and workpiece measurement at EMO.

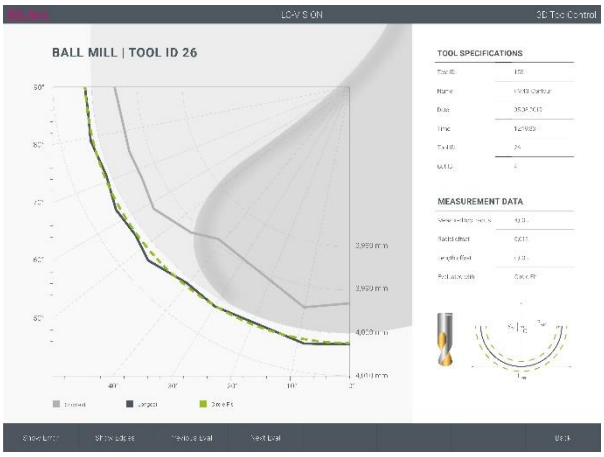

Image 2: LC-VISION is the highlight of the exhibition: Now, for the first time, the application, specially developed for BLUM's laser measuring systems, enables live visualisation and analysis of the values recorded during the measuring process directly on the machine control.

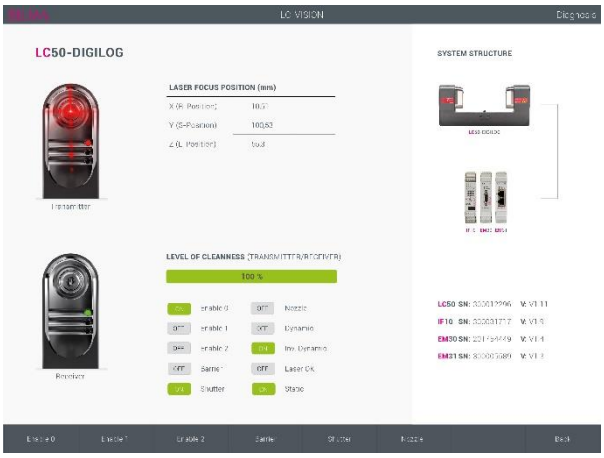

Image 3: All relevant system information, along with functions for preventive maintenance, is available in the diagnostics view.