

PRESS RELEASE

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Images for the press release "Intelligent data for the digital factory"



((1_OPC UA Symbolfoto.png))

OPC UA (Open Platform
Communications Unified Architecture) is
considered central to the successful
introduction of Industry 4.0 in production.
OPC UA, on which the universal interface
umati (Universal Machine Technology
Interface) is based, guarantees the
interoperability of machines and systems
that can be linked and reconfigured as
required using Plug & Work – regardless
of platform and manufacturer.

Photo: Wenzel Group

Innovate Manufacturing.

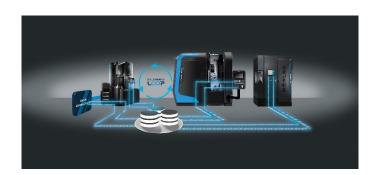
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((2_Heiko Wenzel-Schinzer.jpg))

"OPC UA allows for the interoperability between a wide range of machines and systems, regardless of the manufacturer," says Heiko Wenzel-Schinzer, Chief Digital Officer (CDO) of the Wenzel Group. "This creates the basis for fully networked production, in which measurement results can flow directly into the process control. The advantage: Reduced sources of error, faster reaction times in the event of deviations and increased efficiency in production."

Photo: Wenzel Group



((3_KlingeInberg_CGT_Closed Loop.jpg))

The closed loop between measuring machines and systems from the gear specialists Klingelnberg optimizes production. Measurements are regularly carried out on the precision measuring machines on workpieces that have just been produced, trends are identified and countermeasures are initiated.

Photo: Klingelnberg



((4_Alexander Troska.jpg))

"Al-supported systems allow for precise quality control and autonomous production. This results in more efficient, more flexible and more intelligent factories that can adapt quickly to changing market conditions," says Alexander Troska, Head of Software Development at the gear specialists Klingelnberg.

Photo: Klingelnberg



((5_Jan Häger.jpg))

"Each workpiece has its own requirements in terms of quality, cycle and set-up time. Experience and knowledge of the different manufacturing processes help when analyzing the data," explains Jan Häger, Head of Software Development for Precision Measuring Centers at Klingelnberg. However, artificial intelligence, such as machine learning, is also already being used.

Photo: Klingelnberg



((6_Daniel Meuris.jpg))

"On the Klingelnberg gear grinding machines, we collect different types of data, low-frequency status data, high-frequency control data and process settings. We combine this machine-related data with measurement and test results from the gears in the GearEngine, Klingelnberg's own platform," says Daniel Meuris, Head of Digitalization and Visualization at Klingelnberg.

Photo: Klingelnberg