

PRESS RELEASE

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Images for the press release

"Ensuring the right chemistry during grinding"



((01_Berend_Denkena_IFW.jpg))

During the grinding process, a supply of cooling lubricant that is tailored to requirements produces large gains in efficiency and productivity. "Even in our initial research, we were able to identify process windows that allowed the energy required for grinding to be reduced by up to 27 percent," says Prof. Berend Denkena, Head of the Institute of Production Engineering and Machine Tools (IFW) at Leibniz University of Hanover.

Photo: Leibniz University of Hanover

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((02_Fuchs_Smart_Services.jpg))

A clear overview of the data: Lubricant manufacturer Fuchs SE from Mannheim maps machines and their lubrication points as digital twins on a cloud-based platform.

Photo: Fuchs SE



((03_Alexander_Kaiser_Fuchs_SE.jpg))

Data-based management of cooling lubricant and machine learning offer further efficiency gains in the grinding process. "We use a variety of modern technologies to create real added value for our customers from the available data. Artificial intelligence methods are also used where appropriate," says Alexander Kaiser, Head of Global Product Line Smart Services & Digital Business Partner at lubricant manufacturer Fuchs SE.

Photo: Fuchs SE