# PICTURES

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3D printing – ready for series production

EMO Hannover 2023 – Two BMBF projects paving the way for additive manufacturing technology



**((bild01\_Jasmin Saewe.jpg))**

Dr.-Ing. Jasmin Saewe, Head of Laser Powder Bed Fusion Department at Fraunhofer ILT: "Internationally, many countries are investing heavily in additive manufacturing and its industrialization right now."

Foto: Fraunhofer ILT

**((Nummer Titel.jpg))**

Bildbeschreibung

Foto: Bildrechteinhaber



**((bild02\_Christoph Hauck.jpg))**

Christoph Hauck, director, toolcraft AG: "Unfortunately, the pace of the industrialization of additive manufacturing in Germany is falling behind that of other industrialized nations such as China and the USA.”

Foto: toolcraft



**((bild03\_Markus Langer.jpg))**

Markus Langer, Head of Technology and Development Programs at toolcraft: We succeeded in incorporating the sub-processes more effectively in a complete manufacturing chain."

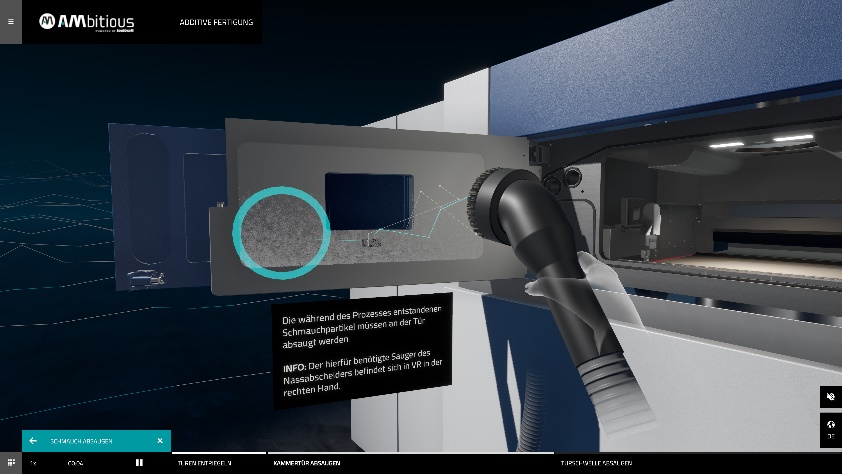
Foto: toolcraft



**((bild04\_Weiterverarbeitung.jpg))**

In the BMBF project IDEA, the automation of previously manual work steps increased process stability and quality.

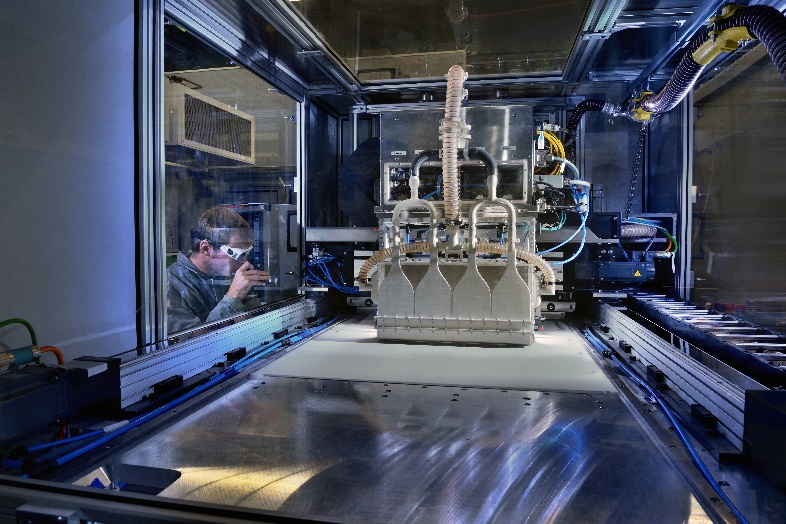
Foto: toolcraft



**((bild05\_Schmauchabsaugen.jpg))**

In combination with interactive training and VR goggles, the digitalization of work and inspection instructions makes it easier for specialists to work on highly complex machines and manufacturing processes.

Foto: toolcraft



**((bild06\_** **LPBF\_ScalAr.jpg))**

The Fraunhofer ILT established the laser-based powder bed fusion (LPBF) process more than a quarter of a century ago. The picture shows a prototype machine whose productivity was significantly increased by multiplying the number of laser beams.

Foto: Fraunhofer ILT

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