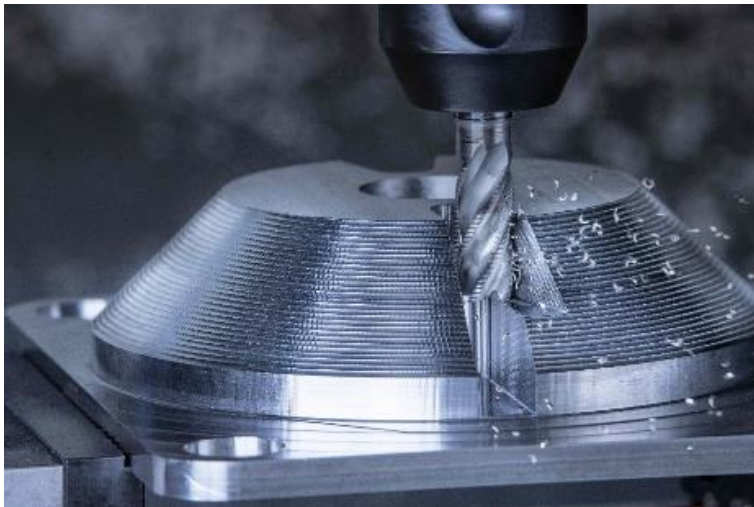


PICTURES

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Sustainability as focus topic at EMO Hanover 2023

Resource-saving processes demonstrated on basis of actual projects



((bild01_EMO2023
Nachhaltigkeit_Ceratizit-Milling-
SilverLine.jpg))

The "sustainability formula" tool variant from Ceratizit's milling cutter line ensures powerful milling performance and low emissions during production of the tool.

Photo: Ceratizit Deutschland GmbH

Innovate Manufacturing.

www.emo-hannover.de



((bild02_EMO2023 Nachhaltigkeit_Ceratizit Kordwig Andreas Geschäftsführer.jpg))

Andreas Kordwig, Managing Director Ceratizit Deutschland GmbH: "Only 4.4kg CO₂/kg is emitted during production of the Green Carbide cutter compared to 19.8kg CO₂/kg for one of our conventionally produced cutters."

Photo: Ceratizit Deutschland GmbH



((bild03_EMO2023 Nachhaltigkeit_Igus Energieketten zum Recycling.png))

Convenient and fair: Customers simply send their disused energy chains to igus in Cologne and receive credit for further products from the supplier in return.

Photo: igus GmbH



((bild04_EMO2023 Nachhaltigkeit_Igus Change Regranulat.jpg))

Highly effective circular economy: Material processed into regranulate for the subsequent manufacture of high-quality components.

Photo: igus GmbH



((bild05_EMO2023 Nachhaltigkeit_Igus Michael Blass Geschäftsführer.jpg))

Michael Blass, CEO e-chain systems, igus GmbH: "Since launching our recycling program, we have already collected and recycled more than 60 tonnes of high-performance plastics – half of which in 2022 alone."

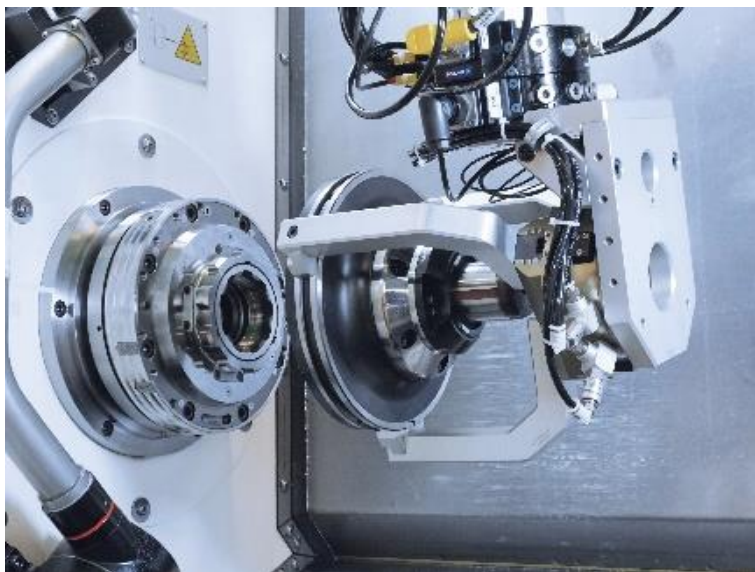
Photo: igus GmbH



**((bild06_EMO2023
Nachhaltigkeit_Hainbuch
Menschen und Robotik.jpg))**

Rapid-change interfaces help to shorten downtimes and increase productivity – for resource-efficient manufacturing processes.

Photo: Hainbuch GmbH



**((bild07_EMO2023
Nachhaltigkeit_Hainbuch
Automatischer
Spanndornwechsel.jpg))**

Automatic mandrel changeovers: The longer machine tools are kept in operation, the more efficient and sustainable the manufacture of components and products.

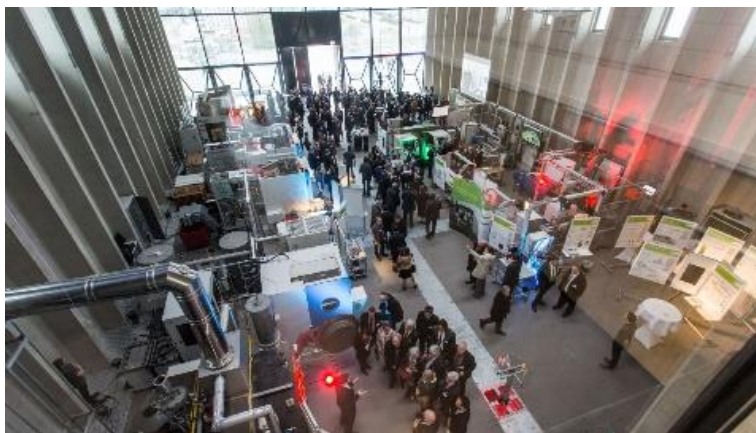
Photo: Hainbuch GmbH



**((bild08_EMO2023
Nachhaltigkeit_WGP Prof
Wulfsberg.jpg))**

Prof. Jens Wulfsberg, President of the German Academic Association for Production Technology (WGP): "There is a great deal of interest in resilience and in pragmatic deglobalization aimed at avoiding supply chain disruption right now."

Photo: Wissenschaftliche Gesellschaft für Produktionstechnik e.V. – WGP



**((bild09_EMO2023
Nachhaltigkeit_WGP
ETA_Fabrik.jpg))**

The interdisciplinary and application-oriented research laboratory ETA-Fabrik is taking an integrated approach to raising not only energy and resource efficiency but also energy flexibility. This yields additional savings potential in contrast to when each part of a production system is considered in isolation.

Photo: PTW, TU Darmstadt

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