

## PICTURES

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### E-mobility electrifying the EMO Hannover 2023

#### How can manufacturing technology promote e-mobility?



((bild01\_EMO\_Closed-Loop\_2023-03-14.jpg))

The closed loop enables close monitoring and correction of the manufacturing process – for full inspection of all ground parts.

Photo: Klingelberg GmbH

**Innovate Manufacturing.**

[www.emo-hannover.de](http://www.emo-hannover.de)



**((bild02\_EMO\_Christian-Mueller\_2023-03-14.jpg))**

Christian Müller, CSO and Member of the Board, Grob-Werke GmbH & Co. KG: "We needed to provide our customers with suitable machine solutions following the decline in demand for internal combustion engines and the shift towards electric mobility components. We succeeded by developing just such a series."

Photo: Grob-Werke GmbH & Co. KG



**((bild03\_EMO\_Grob\_2023-03-14.jpg))**

Grob's latest series is particularly suitable for producing lightweight components for e-drives.

Photo: Grob-Werke GmbH & Co. KG



**((bild04\_EMO\_Grob\_2023-03-14.jpg))**

Grob machines combine component-optimized working spaces with superior dynamics and stability.

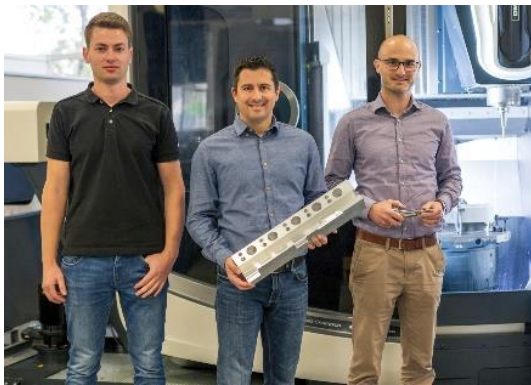
Photo: Grob-Werke GmbH & Co. KG



**((bild05\_EMO\_Mapal\_2023-03-14 2.jpg))**

A special solid carbide milling cutter from the southern German tool specialists Mapal Fabrik für Präzisionswerkzeuge Dr. Kress KG can finish large pockets in a single operation.

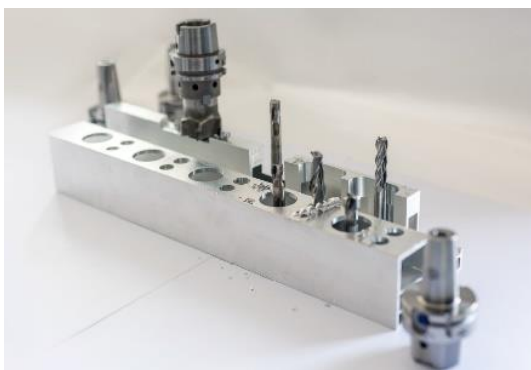
Photo: Mapal Fabrik für Präzisionswerkzeuge Dr. Kress KG



**((bild06\_EMO\_Wolf-Hofmeier-Kucher\_2023-03-14.jpg))**

Mapal has been working intensively on battery frames and on developing the optimum machining strategy for them (left to right): Andreas Wolf, Test Engineer, Florian Hofmeier, Component Manager Driveline, and Michael Kucher, Component Manager E-Mobility.

Photo: Mapal Fabrik für Präzisionswerkzeuge Dr.



**((bild07\_EMO\_Mapal\_2023-03-14.jpg))**

Mapal uses multiple tools in its generic battery frame machining process.

Photo: Mapal Fabrik für Präzisionswerkzeuge Dr. Kress KG



**((bild08\_EMO\_wbk\_2023-03-14.jpg))**

The gear skiving process developed by the wbk Institute of Production Science permits productive and flexible manufacturing of gears.

Photo: wbk Institute for Production Science



**((bild09\_EMO\_wbk\_2023-03-14.jpg))**

Real-time remaining useful life prediction can be used to forecast and correct the effect of machining forces on the manufactured gear quality.

Photo: wbk Institute for Production Science