Media Release

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A first look at T.R.U.E Precision at GF Machining Solutions during the International Solution Days

Manufacturers from around the world visiting GF Machining Solution’s International Solution Days got a first look at the Georg Fischer Division’s new intelligent manufacturing solution that will directly connect them to the precision, efficiency and productivity of Industry 4.0.

Held on April 19–21 at GF Machining Solutions’ Center of Competence in Schorndorf, Germany, International Solution Days were the place to preview T.R.U.E. Precision, the first production solution in the Division’s T.R.U.E (True Response to User Expectation) lineup.

T.R.U.E. Precision is an innovative, manufacturing solution for optimizing the die-sinking EDM process based on true geometry of the electrode. T.R.U.E. Precision ensures perfectly secure digital data utilization through an interrupted workflow for highest accuracy and consistency, from computer-aided design (CAD) and computer-aided manufacturing (CAM) to execution of the final part.

Whether used to support a single AgieCharmilles die-sinking EDM machine or a fully automated cell, time-consuming and error-prone manual processes are eliminated and your final part demonstrates tightest tolerances and an even higher degree of accuracy than even the most experienced machine operator can achieve. That is because T.R.U.E. Precision brings together three renowned and proven software products, Delcam’s PowerINSPECT, GF Machining Solutions’ Multi-Process Preparation (MPP), and System 3R’s WorkShopManager (WSM).

The accuracy delivered by T.R.U.E. Precision begins with CAD/CAM preparation, where the electrode study is efficiently performed and for which the ideal underride is automatically calculated, contributing to a powerful toolpath editing for milling. The electrode designer furthermore easily sets the inspection points directly in the CAD, concentrating on the active part of the electrode, and the unique die-sinking EDM CAM module automatically optimizes the entire EDM process. During the job preparation sequence, the data gathered in CAD/CAM preparation is securely transferred for work order data generation, including manufacturing order and part identification. In the execution sequence, either for a stand-alone machine or for an entire production cell, T.R.U.E. Precision ensures that the EDM process always uses real data based on the true geometry of the electrode and part, due to advanced best-fit and tolerance algorithms obtained by PowerINSPECT controlling the coordinate measurement machine.
Aligned with Industry 4.0

Aligned with Industry 4.0’s vision of the smart factory of the future, T.R.U.E. Precision intelligently addresses a wide range of contemporary, real-world manufacturing challenges, including the growing complexity of parts and molds. In high-volume, mass production-intensive market segments like automotive, ICT and electronic component manufacturing, and even with changing environments or requirements, T.R.U.E. Precision lays the foundation for achieving higher accuracy and tighter tolerances, greater productivity, faster time to market, entire predictability, and cost reductions.

In addition to a first look at T.R.U.E. Precision, International Solution Days guests experienced expert presentations with simultaneous translation in German, Czech, English, Italian, French and Spanish, as well as innovative wire-cutting and die-sinking EDM, Milling, Laser texturing, Additive Manufacturing, and System 3R Automation solutions. A special highlight was an 80-square-meter linear manufacturing cell including wire-cutting and die-sinking EDM, Milling, the Transformer linear Automation system, and a Zeiss Contura measuring machine.

More information:

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**Picture caption:**
T.R.U.E Precision: the first intelligent software solution optimizing the die-sinking EDM sequence based on the true geometry of the electrode and ensuring secure digital data utilization through an uninterrupted workflow. Users achieve highest accuracy and consistency from CAD to realization of the final part.