

# Media Release

Biel, Switzerland  
October 2021

## **GF Machining Solutions Microlution ML-5 showcases laser micromachining at EMO Milano 2021**

**At EMO Milano 2021, GF Machining Solutions presents the Microlution ML-5, a five-axis ultrafast laser platform that takes micromachining beyond the capabilities of traditional CNC machining.**

The Microlution ML-5 is optimized for micro-scale holemaking and fine cutting, which it performs without creating any heat-affected zones. The machine's compact, high-performance, ultrafast femto laser reduces cycle times and tooling costs to enable the production of precision parts in seconds.

This machine combines quick acceleration, exceptional stability, precise part handling and motion control with integrated part characterization and measurement to deliver unsurpassed accuracy, speed and quality. It is ideal for machining holes of various shapes in products such as more-efficient automotive fuel injectors, complex watch parts, medical catheter tips and hardened glass screens on mobile devices.

The platform offers up to five axes of motion and accepts multiple laser types for  $\pm 1 \mu\text{m}$  positional accuracy and  $\pm 0.5 \mu\text{m}$  repeatability. A granite base provides thermal and inertial stability to enhance reliability and repeatability. Granite-mounted ironless rails and linear motors support a high-precision beam delivery system. The Microlution ML-5 also features high-resolution Heidenhain glass scale encoders, along with an in-line workpiece touch probe, integrated power meter and high-speed optical camera.

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The MicroLution ML-5 is the ideal machine for micro-scale holemaking and fine cutting.

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### **Profile of GF Machining Solutions**

GF Machining Solutions is the world's leading provider of machine tools, diverse technical solutions and services to manufacturers of precision molds and tooling and of tight-tolerance, precision-machined components. The key segments we serve include the aerospace, automotive, medical, energy, information and communications technology (ICT) and electronics industries. Our extensive portfolio ranges from Electrical Discharge Machining (EDM) solutions, three- and five-axis Milling machines and Spindles, 3D Laser texturing machines, Additive Manufacturing and machines for Laser micromachining to solutions for Tooling, Automation, Software and Digitalization—all backed by unrivaled Customer Services and support. GF Machining Solutions is a globally acting Division of the Georg Fischer Group (Switzerland) and maintains a presence at 50 locations worldwide. Its 3,192 employees generated sales of CHF 725 million in 2020. More information can be found at [www.gfms.com](http://www.gfms.com).