

Media Release

Biel, Switzerland
February 2023

GF Machining Solutions releases two new femtosecond Laser solutions at Open House in Geneva

On 21 February 2023, at an Open House event held in its Laser Center of Technologies in Geneva (Switzerland) with more than 70 international VIP guests, GF Machining Solutions presented its new LASER S 1000 U fs and LASER S 1200 U fs machines in an exclusive preview. The two solutions are equipped with new ultrashort pulse Laser sources and are available for sale now.

Ultrashort pulse laser sources are well known for their excellent machining quality, achieving finest details and better surface roughness compared to nanosecond laser sources. The first machine equipped with an ultrashort pulse Laser was the AgieCharmilles LASER P 400 U, which introduced this powerful tool for texturing and engraving into the market.

Thanks to latest developments, GF Machining Solutions' AgieCharmilles LASER S 1000 U fs and AgieCharmilles LASER S 1200 U fs are now also equipped with a fiber femtosecond Laser. This will ensure a Laser machining process capable of creating finest details with enhanced quality while maintaining a high performance. It will also allow the processing of a wider range of materials that only femtosecond laser sources are able to machine efficiently, like ceramics, glass, sapphire, etc.

The launch of these two new machines is expected to increase the adoption of laser as a technical manufacturing solution in industries such as Automotive (for lighting, interior and exterior design), Packaging, and ICT. Nanolaser capabilities often could not satisfy requirements like the machining of complex, small geometries, a no-heat affected zone and the necessary surface roughness needed for applications in these industries.

Users will maintain the upmost flexibility thanks to the possibility to combine a nanosecond and a femtosecond Laser source in the same machine, switching seamlessly between the two sources in the same job. Depending on the application and the desired results, it is possible to use the strengths of each Laser source for the best combination of quality and productivity. The new femtosecond options work in perfect union with the latest software developments launched by GF Machining Solutions in 2022: [Flexiblast™](#) and [3DCurves™](#).

"We believe that the new femtolaser capabilities that we are integrating into our large Laser machines will not only meet the needs of our existing customers active in laser texturing and engraving, but also open up space for new applications in micromachining, attracting new customers in further segments like semiconductors or Aerospace", says Stefan Dahl, COO, GF Machining Solutions.

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GF Machining Solutions' LASER S 1000 U fs and LASER S 1200 U fs are now also equipped with a fiber femtosecond Laser.



The LASER S 1000 U fs and the LASER S 1200 U fs do not only offer extreme machining speed, but can also achieve higher quality and better surface roughness thanks to the new Laser sources.



For applications in ICT, nanolaser capabilities often cannot satisfy the requirements.



Thanks to the new capabilities of the machines, the creation of finest details with enhanced quality, like the ones shown on this lotus flower, will be possible.



The launch of the two new Laser machines is expected to increase the adoption of laser in industries such as Automotive, for example for lighting molds.



Over 70 visitors were present at the Open House event in Geneva.



They were able to take a close look at the new machines.



One of the parts displayed and explained to the visitors was a lighting mold.

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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.

