



Press Release

Synova Celebrates Its 25th Anniversary and the Success Story of the Laser MicroJet®

The hybrid process combines laser and water to process new materials with the highest precision and quality

Duillier, Switzerland, November 7, 2022 – Synova, the Swiss provider of state-of-the-art laser processing systems, can look back on 25 years of company history and success. Based in Duillier in the canton of Vaud, the company has been developing, manufacturing and selling CNC laser systems based on the revolutionary water jet guided Laser MicroJet (LMJ) technology since 1997. No fewer than 500 machines have been delivered worldwide to date.

In addition to research, both final assembly and testing are carried out at Synova's modern 3,000 square meter facility in Duillier, with a capacity of up to 100 machines per year. Production capacity was expanded in 2021 with another assembly facility in Rottweil, Germany. The Synova Group employs over 130 people worldwide and has a global network of offices with micro-machining centers in the USA, Japan, India, Korea, Germany, China and the United Arab Emirates.

Invented by Dr. Bernold Richerzhagen, founder and CEO of Synova, the Laser MicroJet process combines a laser with a hair-thin water jet that precisely guides the laser beam by means of total internal reflection. The water laser with its cylindrical beam makes it possible to process hard and brittle materials such as diamond, ceramics or composite materials with constantly parallel cutting walls and without thermal damage and deposits.

This unique cold and clean technology has opened up unimagined new material processing possibilities in industries such as aerospace, semiconductor and jewelry, for example in drilling turbine blades, machining wear parts for semiconductor equipment and faceting rough diamonds. New industrial applications and approaches to materials processing have emerged over the past 25 years due to the capabilities of the LMJ technology. More than a dozen different 3- and 5-axis Synova systems are available for various cutting, drilling and material removal applications.

On November 4 and 5, Synova celebrated its anniversary with customers, suppliers and partners as well as the entire staff in the recently completed assembly hall in Duillier.

About Synova

Synova S.A., headquartered in Duillier, Switzerland, has manufactured advanced laser cutting systems that incorporate its proprietary water jet guided laser technology (Laser MicroJet®) in a true industrial CNC platform for more than 25 years. Customers benefit from significant yield and improved cutting quality as well as enhanced capabilities for precision machining a wide range of materials. For more information, visit our website at www.synova.ch.

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