

Press Release

The USA Debut of Synova's Laser MicroJet Integration Package adapted to a Standard 3-Axis Vertical Machining Center

TOTOWA, NJ, July 19, 2024 – Synova, a provider of advanced laser cutting solutions, is launching its new Laser MicroJet® Integration Package (LMJ-iP) designed to turn any standard 3-axis Vertical Machining Center into multi-purpose Milling/Drilling, Laser Cutting machine.

The LMJ-iP is Synova's core laser technology that consists of standard hardware components designed for easy integration into new or existing 3-axis VMC machines. The standard integration package includes everything you need to get started, cutting head, laser, fiber cable, high pressure pump and power meter. With many component options to choose from, Synova can customize a package to meet your technical and application requirements. The Laser MicroJet® (LMJ-iP) system enables 2-D cutting and shaping of hard and brittle materials such as industrial diamond or ceramic as well as sophisticated composites used in aerospace and automotive applications. The water jet guided laser technology is capable of precision machining parts made of ceramic-matrix composites (CMC, a composite made of SiC) while protecting the material from heat-related effects. The low weight and heat-resistant new material is used for hot section aeroengine components to increase aircraft efficiency.

"The issue of heat affected zones and microcracks is greatly reduced when using Synova's unique Laser MicroJet® systems because of the inherent heat dissipation properties of the water jet," says Dr Bernold Richerzhagen, Synova Founder and CEO.

"Aerospace customers are already using our water jet laser to cut CMC shrouds and drill cooling holes in turbine blades," states John Ross, Director of Operations at Synova USA. "The LMJ has demonstrated the precision and reliability required for such applications." The LMJ 'wet laser' technology cools workpieces while efficiently washing away debris. The water jet maintains the laser's focus creating a cylindrical laser beam that results in parallel walls and tight kerf widths.

Join us at IMTS in Chicago to learn more about the LMJ-iP system and see how we can turn your 3-axis machine into a laser cutter. Visit Synova in the East Building at Booth# 135137 September 9-14, 2024.

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. visit our website at www.synova.ch.

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