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Synova / Newsletter / March 2024

Water Jet Laser Machining Solutions for Technical Ceramics

Welcome to our quarterly newsletter! We are excited to share with you Synova's news and highlights from the first quarter of the year.

The tradeshow calendar begins with the much-anticipated Ceramitec exhibition, a leading international event showcasing the latest advancements and innovations within the ceramics industry. This year marks our first participation in the show, and we are particularly eager to present our cutting-edge 5-axis LCS 305 laser machining center for processing technical ceramics.

Visit us in **hall 6, booth 421**, and discuss with us how the Laser MicroJet[®] technology can meet your specific requirements for precision, efficiency, or customization in the field of technical ceramics.

We look forwards to meeting you at the show!

Your Synova Team

Contact us for a free ticket

Read our flyer on processing technical ceramics with LMJ



Next Event

CCMT

📅 April 8 - 12, 2024

📍 Shanghai, China

Synova will also participate in the China CNC Machine Tool Fair (CCMT), in Shanghai.

This year, we will be co-exhibiting with Raycham, a Chinese partner company specializing in the research and manufacture of laser additive manufacturing equipment and more.

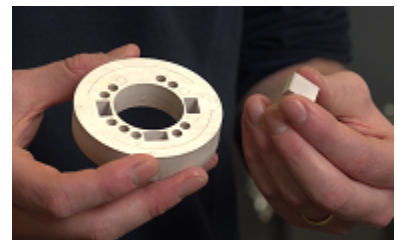
Join us at **booth W2-B301** and discover our LCS 800 laser cutting machine, a robust and versatile system for high-precision cutting applications in various industries, from semiconductors to electronics and metalworking.

[Watch this video to learn more about our LCS 800](#)

Application Video

Cutting and Drilling Thick Ceramics with Water Jet Guided Laser

Our new application video demonstrates the capabilities of our Laser MicroJet (LMJ) technology in processing challenging hard and brittle materials such as technical ceramics. Here, the LMJ performs various operations on a thick piece of zirconia toughened alumina (ZTA), such as cutting, hole-drilling, and slotting. The innovative water jet laser system makes it possible to process a wide range of ceramic materials with impeccable quality and precision, perfectly parallel cutting walls, and without thermal damage and micro-cracks.



[Watch the video](#)

New Project

Horizon Europe: The Start of an Exciting Project with FLASH

We're pleased to announce our participation in the ambitious FLASH project, an initiative supported by Horizon Europe, the EU funding program for research and innovation. This three-year project brings together 18 entities from academia, research institutions, and industrial companies, working on advancing hybrid and reconfigurable manufacturing. The outcome will be a new generation of laser processing cells capable of surface texturing, high-performance cutting and welding, as well as high precision water jet guided laser cutting using LMJ technology.

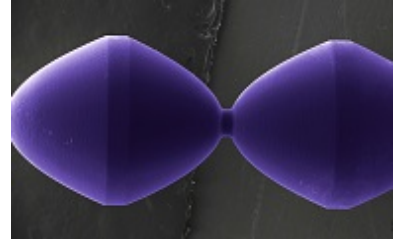


[Read more on our website](#)

Interview

Open Innovation: Solution for Effortless Diamond Turning

Synova has completed an ambitious project in the industrial diamond industry with the support of Innosuisse, the Swiss Innovation Agency. This innovative project is the result of an extensive six-month feasibility study carried out in collaboration with leading industrial companies and research institutions. The result of this collaboration is a groundbreaking advance in the development of a solution for effortless diamond turning of optical and mechanical functional parts.



Watch the interview with Jeremie Diboine, our R&D Project Manager



Inventor of Water Jet Laser

Synova is the pioneer of a unique water jet guided laser technology (Laser MicroJet[®]) providing high-precision cutting solutions for the metal, semiconductor and diamond industries.

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SYNOVA S.A.

Route de Genolier 13
1266 Duillier, Switzerland

Phone: +41 (0) 21 55 22 600
sales@synova.ch
www.synova.ch

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