



Synova / Newsletter / September 2023

## Empowering Precision and Innovation: Synova's 5-Axis LCS 305 Shines at EMO 2023

Visit us at **booth #B58 in Hall 11** and explore our high-precision laser machining center, LCS 305. Discover the advantages of our innovative hybrid water jet guided laser technology, Laser MicroJet®.

Whether you're a seasoned industry professional, an aspiring entrepreneur, or a technology enthusiast, this event promises something extraordinary for everyone.

Our knowledgeable professionals are eager to engage with you, to understand your unique needs, and to explore how our solutions can seamlessly integrate into your projects.

To make your experience even more seamless, complimentary tickets can be obtained using this link: **Get a Free Ticket** with the **code xH3St**.

We're excited to meet you at EMO in Hannover.

Best regards,  
Your Synova Team

**Free ticket**

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Synova Donates to Swiss Red Cross

## Magnitude 6.8 Earthquake in Morocco: Urgent Help Needed

The situation is devastating. Entire villages were wiped out in the massive earthquake that shook large parts of Morocco during the night of September 8 to 9. Nearly 3,000 people lost their lives, thousands were injured. Synova stands by the people in Morocco and supports the Swiss Red Cross with a donation for the emergency relief efforts.

[Read more](#)



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Manufacturing Technology Center (MTC) - Coventry, UK

## On the Test Bench: Water Jet Guided Laser for CMC Processing

The innovation and technology hub for the manufacturing industry MTC has investigated and approved the water jet guided laser process for machining ceramic matrix composites. These difficult-to-machine materials are used in a wide range of aerospace applications and open up astounding opportunities for improved performance and weight saving. The LMJ process was validated for these advanced materials in terms of cut quality, processing rate and productivity. Synova is glad of the ongoing collaboration and proud to provide continued technical and scientific support to help the MTC achieve its mission of bridging new technologies and industrial needs.

[Read more](#)



Rapaport / Diamond Mirror

## Press Review: Read About Synova in the News

In a dynamic industry where innovation converges with tradition, Synova SA's CEO, Bernold Richerzhagen, shares insights in an exclusive interview with the Diamond Mirror. He discusses Synova's ground-breaking diamond cutting systems designed for CVD diamonds and highlights the incredible potential of the Laser MicroJet (LMJ) technology for lab-grown diamonds. The article «A Digital Platform to Automate Diamond Polishing» talks about how new technologies can reduce 'mine to market' timelines across the diamond pipeline.

[Read all articles](#)



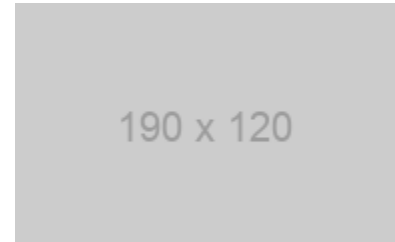
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Rapaport / etc.

## Press Review: Read About Synova in the News

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[Read more](#)

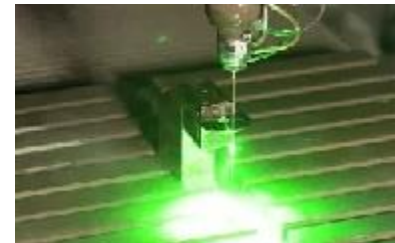


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### Application Video

#### Cutting Tungsten Oscillating Masses for the Watch Industry

As the heart of the automatic caliber, the oscillating mass plays an essential role in the autonomous functioning of every automatic watch. Cutting oscillating masses made out of heavy metals such as tungsten is a demanding task because tungsten is a difficult material to machine. In this video, you will see how precisely the LCS 303 water jet laser system cuts fancy shapes of oscillating masses without thermal damage or deformation and with low surface roughness.



[Watch video](#)



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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