



Synova / Newsletter / September 2022

Synova Opens New Subsidiary and MMC in Dubai, UAE

Synova is opening a subsidiary and micro-machining center (MMC) in the Almas Tower in Dubai, the leading trading hub for diamonds. The new DaVinci Lab will play a key role in Synova's growth in the Middle East region and in the diamond industry in particular.

Dubai's first 5-axis DaVinci laser diamond-cutting system is already installed and operational. The new diamond center of excellence offers job shop cutting services for rough diamonds ranging from sawing, pie cutting, blocking and drilling to, in particular, faceting and fancy shaping.

DaVinci Diamond Factory® is an automated ultra-fast and -precise full-faceting solution for round brilliants and fancy shapes where cut-off diamond chips can be reused and are not polished away as in traditional diamond manufacturing.

The official inauguration ceremony of the MMC Dubai will be held on Thursday, October 13, 2022.

We look forward to hearing from you and handling your diamond cutting jobs!


Your Synova Team

[Contact us](#)



Next Event

[International Manufacturing Technology Show](#)

 Sep 12 - 17, 2022

 McCormick Place, Chicago, USA

North Building, Level 3, Booth 236127

Synova will showcase its **LCS 305** laser machining center for the first time in the US. The CNC machine with five synchronous axes processes complex 3-D geometries with accuracy and speed thanks to the machine's two highly dynamic rotary axes.

Our Synova US team looks forward to welcoming you to our booth and discussing your processing requirements.

[Read press release](#)



Next Event

[Japan International Machine Tool Fair](#)

 Nov 8 - 13, 2022

 Tokyo Big Sight (Tokyo International Exhibition Center)

Booth E2012

At this year's JIMTOF we will show you our most compact water jet laser cutting system, the five-axis **LCS 50**, which is ideal for smaller workpieces - whether for cutting, drilling, grooving or 3D machining.

Stop by our booth. We would love to talk to you about your precision applications.

[All details about LCS 50](#)

[Visit JIMTOF website](#)

Application Video

Water Jet Laser Cutting of Fine Geometries with Hair-Thin Walls

In this video you will see how the LCS 303 Laser MicroJet system cuts fine geometries of 5x3 mm with ultra-thin walls into a 1 mm thick copper plate. The LMJ enables the machining of narrow shapes with bridges as thin as 30 μm , as required in microtechnology, watchmaking and electronics manufacturing.

[Watch the video](#)



Time-Lapse Video

New Production Hall and Synova Anniversary Preparations

Construction work on the new production hall is nearing completion. In just a few weeks the new assembly hall will be ready to move in. Take a look at the time-lapse video of the building work to see what has happened between mid of July and end of August. At the same time, we are preparing the festivities for our 25th anniversary, which we will celebrate in the new facility at the beginning of November.

[Watch the time-laps video](#)



Diamond Manufacturing

Diamond Industry on the Threshold of Radical Change

To replace the need for polishing skills, mining countries such as South-Africa and Botswana are relying on Synova's fully automated DaVinci laser solution which combines cutting, bruting and faceting. The only manual operation is to polish away the thin carbon layer after the laser ablation. In addition, the DaVinci combines multiple workflows, significantly reducing production time.

[Read the entire article](#)



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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