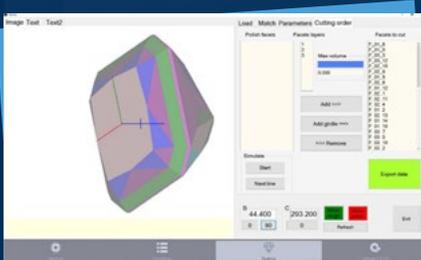


DaVinci Diamond Factory

Powered by
Synova Laser MicroJet®

First automated laser faceting solution for diamond manufacturers

- Virtually complete Rough-to-Polished process
- 57-facet round brilliant in one operation
- Reduced manufacturing pipeline
- Higher accuracy and stone yield
- Fancy and custom shapes



DaVinci software



Stone mounting station



From rough diamond to 57 facets

General Specifications

DaVinci Diamond Factory

Axes

Axis system		3 linear + 2 rotary axes
Drive		Linear and torque motors
Accuracy	μm	+/- 3
Repeatability	μm	+/- 1
CNC control (Bosch-Rexroth)		5-axis

Laser

Laser type		Diode pumped solid state Nd: YAG, pulsed
Wavelength	nm	532

Water Jet

Nozzle diameter	μm	50
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Special features

Breakthrough sensor		Optical detection of cut-through
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Dimensions/Weight

Dimensions (machine)	mm (W x D x H)	800 x 1200 x 1650
Dimensions (utilities cabinet)	mm (W x D x H)	700 x 2300 x 1600
Weight (machine)	kg	750
Weight (utilities cabinet)	kg	700

Mounting Station

Positioning accuracy	μm	+/- 30
Tilt angle deviation	degree	+/- 0.5

Software

CAM software		3D Shaping
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The specifications are subject to change without notice due to technical changes. The LMJ machines incorporate the worldwide patented technology of water jet guided laser invented at the Swiss Federal Institute of Technology in Lausanne, Switzerland. These machines conform to CE regulations.



CORPORATE HEADQUARTERS

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MICRO-MACHINING CENTERS, SUBSIDIARIES AND DISTRIBUTORS IN: CHINA, GERMANY, INDIA, ITALY, JAPAN, MALAYSIA, RUSSIA, SINGAPORE, SOUTH KOREA, TAIWAN, THAILAND, TURKEY, UAE, USA

