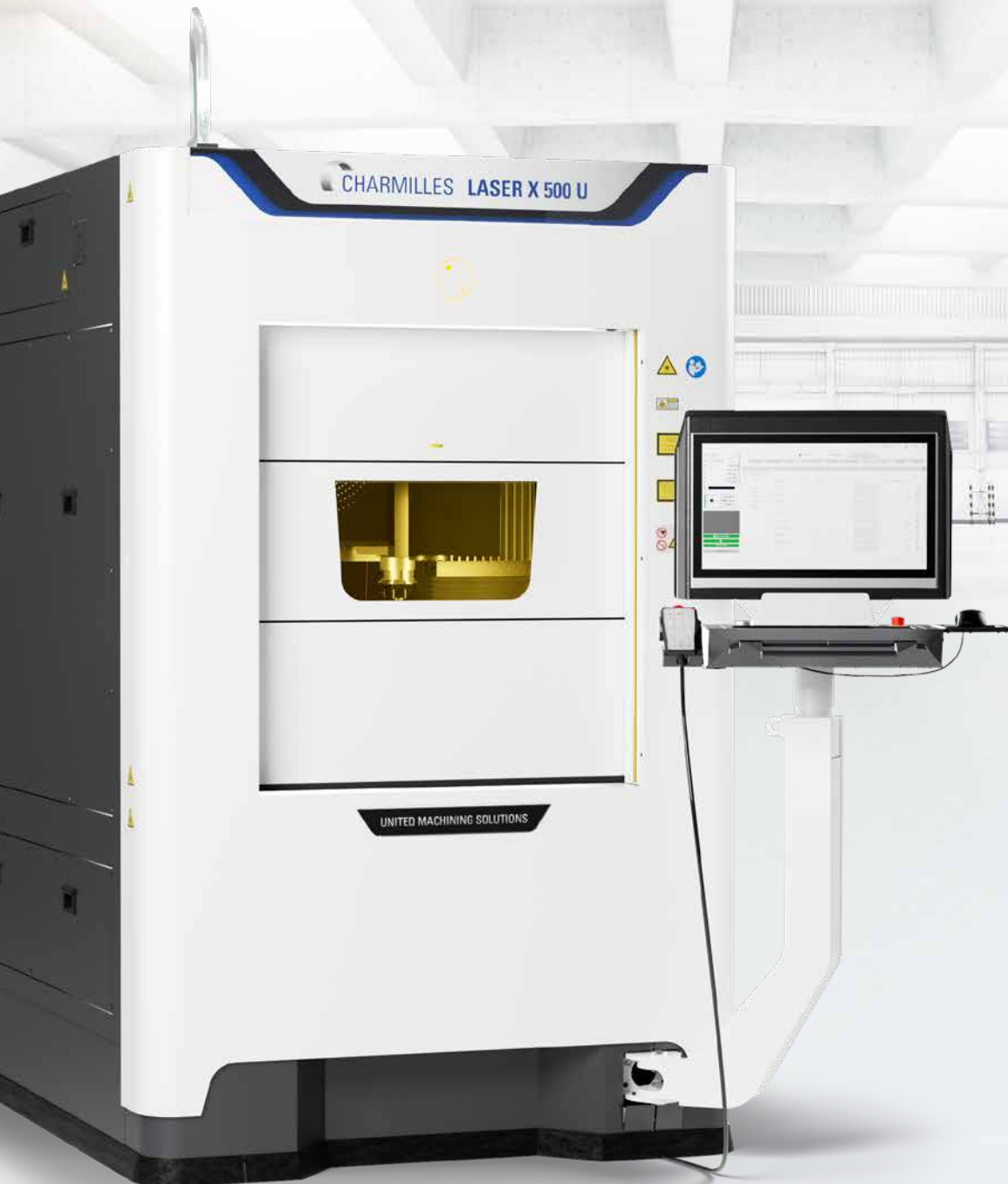


LASER X

500/500 U



 CHARMILLES

A member of UNITED MACHINING SOLUTIONS

SEAMLESS PRECISION AND SPEED. PURE SIMPLICITY.

The LASER X 500 (U) redefines micromachining with unmatched speed, extreme precision, and a consumable-free process—powered by the LaserSUITE360 CAD/CAM software for full process flexibility.



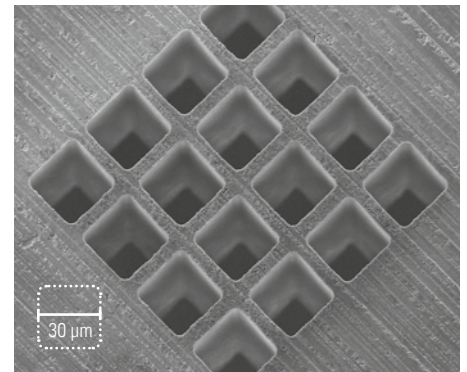
WHEN SPEED MEETS STABILITY AND PRECISION

- LASER X 500 (U) thermostabilized platform ensures consistent accuracy, for repeatable machining results
- Advanced kinematics enable ultra-fast, high-precision operations across complex geometries



SET UP YOUR JOBS IN MINUTES AND NOT HOURS

- New HMI: Streamlined tool management, measurement cycles, and G-code support for faster workflows
- LaserSUITE360 CAD/CAM: Preconfigured strategies for rapid and efficient programming



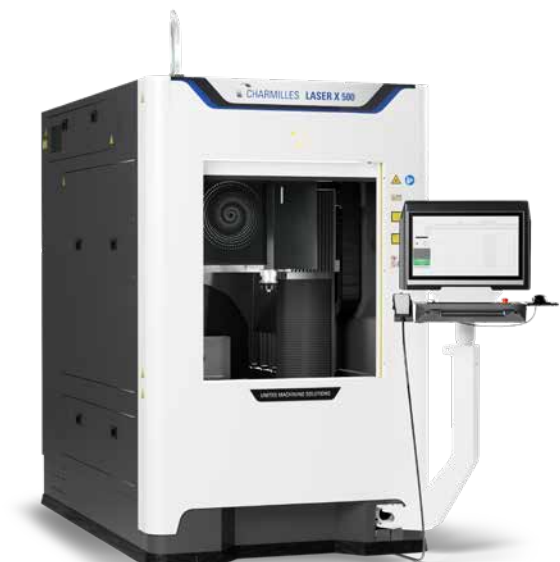
UNLOCK NEW OPPORTUNITIES WITH LaserSUITE360

- MicroDrilling and MicroCutting: Easily produce complex angles, chamfers, and fine details with precision
- Probe Card Strategy: Optimized guide plate operations for efficient probe card machining

SPECIFICATIONS

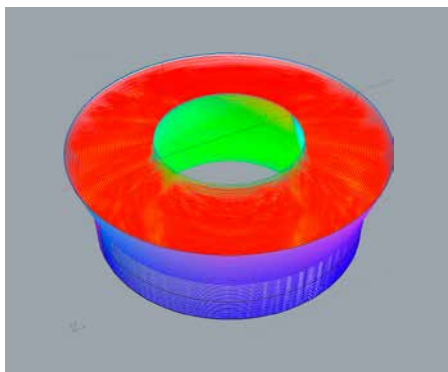
Machine dimensions *	2174 x 1387 x 2556 mm (85.59 x 54.60 x 100.63 in)
Approx. machine weight	4000 kg (8818 lbs)
Machine footprint	3600 x 2500 mm (141.73 x 98.42 in)
X, Y, Z travels	550 x 400 x 500 mm (21.65 x 15.75 x 19.68 in)
B-axis travel	-110°/+110° (LASER X 500 U)
C-axis travel	0°/+720° (LASER X 500 U)
Laser CHARMILLES Femto Flexipulse™	40 W IR/20 W GR

* Width x depth x height



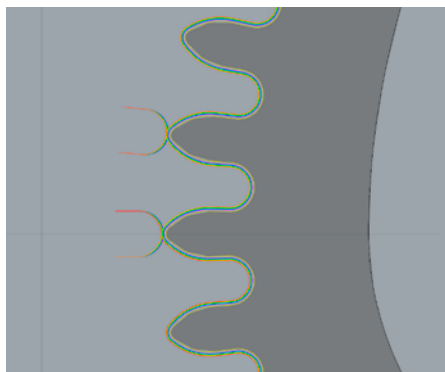
THE MOST ADVANCED LASER SOFTWARE, BUILT FOR MICROMACHINING APPLICATIONS.

LaserCAM™, part of LaserSUITE360, unlocks the full potential of the LASER X 500 (U) with precise laser control and CAD/CAM-driven toolpaths—delivering high flexibility and performance for advanced micromachining.



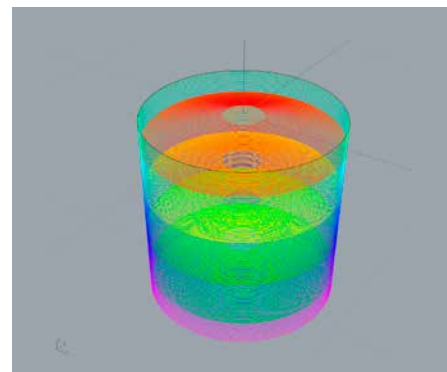
COUNTERBORE

- Improved user experience in LaserCAM™
- New cavity and counterbore possibilities



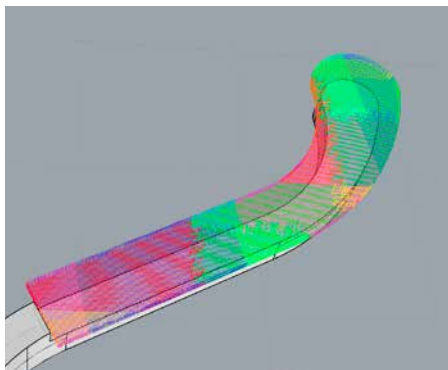
CUTTING

- Offsets with straight or smooth angles
- Auto lead/tab and collision detection



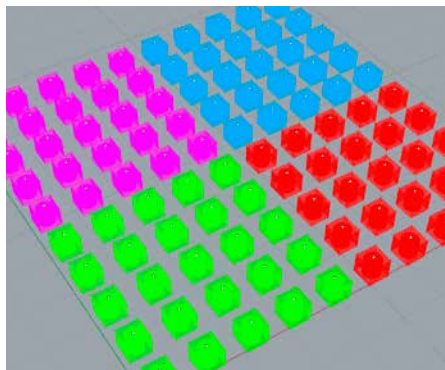
MICRODRILLING

- Offsets with straight or smooth angles
- Automatic or manual engraving sequence



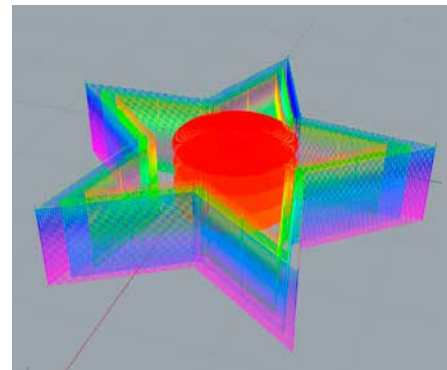
MICROMILLING

- Only available with CAD/CAM assistance
- Chamfering and ablation functions



PROBE CARD

- Optimize for fast calculation
- Generates arrays of rectangular holes, automatically grouped by defined size



SHAPE CONTOURING

- Drill random contours within the marking field
- Simultaneous multi-axis cutting

ENTER IN THE WORLD OF LaserSUITE360



LaserCAM™

LaserCAM™ is designed for high-accuracy laser engraving, micromachining and decoration.



LaserDESIGN™

LaserDESIGN™ is CAM software dedicated to creating texturing programs for complex 3D shapes.



LaserTOOLBOX

Laser ToolBox is a range of Laser tools designed to streamline and safeguard your computing process.



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