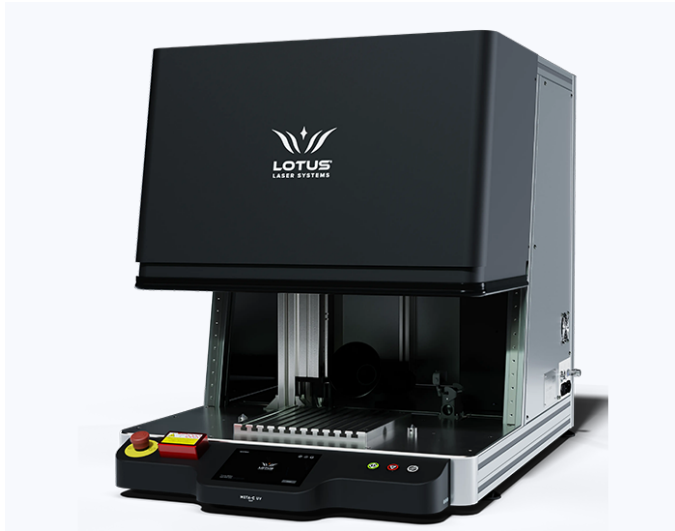




Product Sheet

Lotus Meta-C Fibre

Category: Fiber MOPA

Meta-C 3D – Precision in depth and dimension

Meta-C 3D is designed to handle advanced 3D marking on spherical, angled and irregular surfaces with up to 35 mm height adjustment. With a MOPA fibre source, robust construction and uninterrupted operating capacity, it is built for professional engraving around the clock. A sustainable solution for complex marking where every detail counts.

- 3D marking
- Flexible focusing
- MOPA fibre source

Product description

Meta-C 3D – Innovative fibre laser for advanced 3D marking

Meta-C 3D is a high-performance fibre laser engraving machine designed to handle 3D marking on spherical surfaces, irregular geometric shapes and complex profiles. Thanks to its advanced focusing technology, it adapts to the contours of the object with a height adjustment of up to 35 mm, ensuring optimal precision even on sloping surfaces and demanding shapes.

This machine is equipped with a MOPA fibre source, which provides high stability and the possibility of continuous operation 24/7. Its robust construction in military-grade aluminium, reinforced at critical points, ensures long life and exceptional reliability. With an average life of over 100,000 the Meta-C 3D is a cost-effective and sustainable investment.

Description:

- 3D marking – Marks spherical, inclined and complex surfaces with precision.
- Flexible focusing – "DFGL" Dynamic Focus Galvo Laser Adapts to the contours of the object with a focusing capacity of up to 35 mm.
- MOPA fibre source – Stable and powerful laser source that enables continuous operation around the clock.
- Extremely durable – Robust construction in military-grade aluminium with reinforced components.
- Low operating cost and a service life of over 100,000 hours

Technical Specification

Machine Specifications	
• Laser source	ELI-X17 MOPA fibre
• Dimensions (W x D x H):	790 mm x 1175 mm x 948 mm
• Laser head	3D Laser Head (3-axis) DFGL Galvo
• Wave length	1064 nm
• Laser power	30 W, 60 W or 80 W MOPA
• Pulse length	x 17 between 2-500 ns
• Lens Marking Area (x/y)	F160 112×112 mm, F254 174×174 mm, F330 220×220 mm, 1 optional lens included
• Accuracy	1 m (0.001 mm)
• Speed	10,000 mm/s
• Z-axis movement	368 mm
• Table surface	T-slot table 350x350 mm
• Maximum object weight	45 kg
• Round engraving max object diameter	230 mm
• Class	CE marked Class 2
• Cooling system	Air
• Compatible Materials	Metal, plastic, anodised & lacquered/painted materials, etc.
• Warranty	3 years as standard, can be extended.