MANTA 600

MAXIMUM FLEXIBILITY FOR MARKING AND ENGRAVING WITH FIBER LASER SOURCE ON WORKING AREA UP TO 450X1000 MM

MANTA 600 T (sliding table option)

- **MANTA 600** represents the new generation of FIBER laser systems and 3D-HS scanning head for metal and plastic marking and engraving on large area.
- The innovative **SEI Laser** 3D-HS scanning head with three galvanometer axes (with "full digital" electronics) and the proper management of the FIBER MOPA laser source pulse offer an unrivalled application flexibility and energy optimization for high quality processing.
- The 3D-HS scanning head offers the highest quality of laser beam on a working area up to 450x450 mm, with a spot diameter less than 50 microns.
- The FIBER MOPA laser source, with zero maintenance, makes **MANTA 600** system extremely reliable and high-performing.
- The motorized Z axis, integrated into the structure of support and containment, enables the positioning of the material to process at the correct focal distances. The safety front door with vertical opening is automatic and it is equipped with inspection window.
- **MANTA 600** system, available with motorized sliding table (X axis), enables working processes on a minimum working area of 250x250 mm and on a maximum area of 450x1000 mm.
- It is a Class 1 product IEC EN 60825/1 norm compliant.

Plastic marking

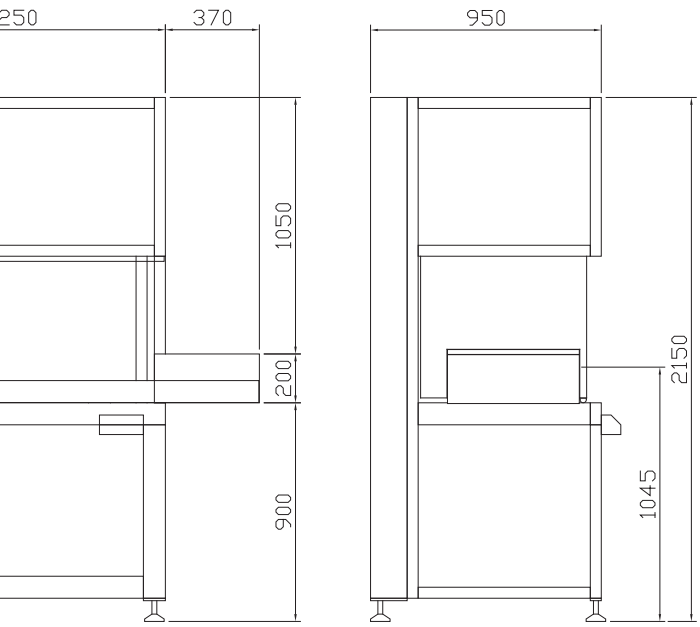
Metal marking

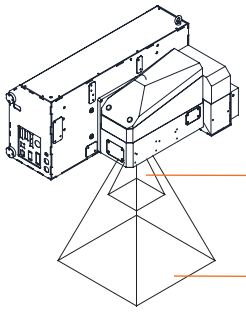
Metal deep engraving

Metal coding

Automotive

Main technical features:		
Available power (W)	50	70
Wavelength (nm)	1070	
Laser source	Yb:YAG Fiber MOPA	
Pulse repetition frequency (kHz)	0-1000	
Beam quality factor M^2	< 1,2	
Spot diameter (µm)	< 30 (on 250x250 mm area) < 50 (on 450x450 mm area)	
Working area (mm)	250x250 - 450x450 (450x1000 with sliding table option)	
Control unit	PC with Windows™ and Icaro SW	
Working speed (m/s)	up to 8 on 450x450 mm area	
Norm compliance	006/95/CE Low Voltage Directive 2006/42/CE Machinery Directive 2004/108/CE Electromagnetic Compatibility Directive IEC EN 60825-1 Laser	





Min working area = 250x250 mm
Focus distance = 300 mm
Spot diameter = ≈30 µm

Max working area = 450x450 mm
Focus distance = 700 mm
Spot diameter = ≈50 µm

The product is CE marked.
Features and system requirements may change without notice.

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09/2016