

# MANTA 600

**Maximum flexibility for marking and engraving with fiber laser source on working area up to 450x1000 mm**

- **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*





## MANTA 600

### Main technical features:

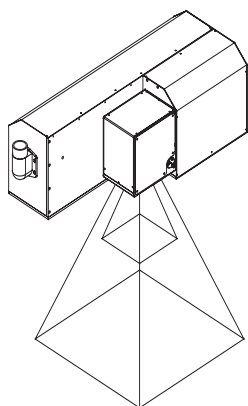
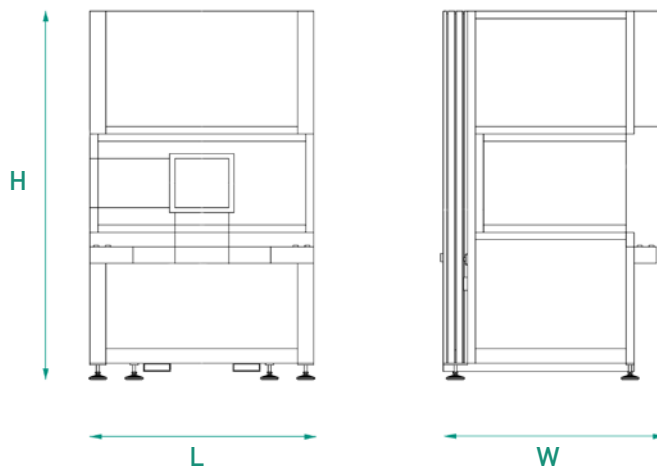
Available models	600	600T
Working area (mm)	250x250 - 450x450	450-1000
Laser source (W)	60-100	
Laser technology	Yb:YAG Fiber MOPA	
Pulse repetition frequency (kHz)	0-1000	
Beam quality factor M <sup>2</sup>	< 1,2	
Spot diameter (µm)	< 30 (on 250x250 mm area) - < 50 (on 450x450 mm area)	
Working speed (m/s)	up to 8 on 450x450 mm area	
Software interface	CAM Icaro on Windows™ platform	
Vector images import	.dxf; .plt; .ai; .eps; .pdf;	
Raster graphics import	.bmp; .jpg; .tiff; .wmf; .pcd; .pnt; .pcx; etc.	
Norm compliance	2014/35/EU Low Voltage Directive	
	2006/42/CE Machinery Directive	
	2014/30/EU Electromagnetic Compatibility Directive	
	IEC EN 60825-1 Laser Safety	



L 1250 mm

W 950 mm

H 2150 mm



**Min. working area (mm)** 250x250  
**Focus distance (mm)** 300  
**Spot diameter (µm)** ≈30

**Max. working area (mm)** 450x450  
**Focus distance (mm)** 700  
**Spot diameter (µm)** ≈50

Metal deep engraving



Metal coding



Automotive

