

GIOTTO

Laser System



GIOTTO FIBER



LA TECNOLOGIA LASER ITALIANA NEL MONDO

COMPANY
WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
=ISO 9001:2000=

GIOTTO FIBER

Giotto FIBER is a marking unit based on diode pumped solid state laser sources. The laser is composed of a Galvo scanning head connected by fiber-optics to a small rack which contains the air cooled source, the control interface electronics.

Marking is carried out without any mechanical contact and it is the result of the thermo acoustic interaction between the laser beam and material (metals, plastics etc.). It is indelible and has features of high quality, speed and execution flexibility.

Giotto FIBER, thanks to its reliability and to the extremely compact size both of the Galvo head and of the rack (19"/3HE) is easily integrated in production lines where it is used for marking on the fly applications.

Its main features are: extremely compact size, service free, low running costs, a remotable scan head, long life of diodes (typically over 40,000 hours).

Giotto FIBER is configured with different options which ensure a remarkable application flexibility and enhance performances such as the dynamic controls of the fire point and of the spot size. Two different types of Galvo heads can be mounted for faster speed and higher focusing.

Giotto FIBER is driven by a Personal Computer and by the Software ICARO Windows. The user can easily change the work parameters such as power, frequency, marking speed so that the required performance is obtained. Graphics in different CAD formats (*.plt, *.dxf, *.pcx, *.bmp, *.mcl, besides machine formats) can be imported and the text can directly be changed (all the windows fonts are used) graphic editing operations are also possible.

TECHNICAL SPECIFICATIONS

Laser source							
Laser power:	5-10-20W continuous						
Frequency:	5-10-20W continuous						
Wavelength:	1064 nm						
Pumping:	diode pumped						
Cooling:	Air cooled						
Marking head		VM1000			VM2000		
Focal unit (flat field):	100	163	254 mm	100	163	254 mm	
Useful work area:	60x60	115x115	180x180 mm	35x35	110x110	180x180 mm	
Work distance:	~120	~240	~ 360 mm	~120	~240	~ 360 mm	
Spot diameter:	20µm	40µm	75 µm	15µm	24µm	40 µm	
Writing speed (linear):	>3 m/s	>6 m/s	>8 m/s	>2 m/s	>4 m/s	>6 m/s	
Writing speed (font):	300	600	800 car/s	//	//	//	
Positioning speed:	~5m/s	~10m/s	~15 m/s	~5m/s	~10m/s	~15 m/s	
Operating temperature:	10+40° C						
Relative temperature humidity:	10+85% RH max, non- condensing						
Storage temperature:	-10+70° C (H ₂ O empty circuit)						
System							
Control:	DSP microprocessor, 128 MB RAM, Ethernet LAN 10/100						
Sw:	Mbit/s.						
Files:	Windwos98, 2000, XPPRO, SW CAM ICARO.						
Interface:	PLT, DXF, BMP, PCX, TIFF, JPEG, GIF MCL, etc.						
Laser safety norms:	LAN net, serial RS232/485 I/O dygital, Encoder. Laser system CLASS 4, CEI EN 60825-1						

SEI S.p.A. reserves the right to change the technical data and photos without any previous



SEI S.p.A.

Via Ruffilli, 1 24035 Curno (BG) Italy tel. ++39 0354376016
fax ++39 035463843 <http://www.seilaser.com> e-mail: info@seilaser.com