

# GIOTTO

Laser System



Standard



Compact



GIOTTO CO<sub>2</sub> 2 ASSI

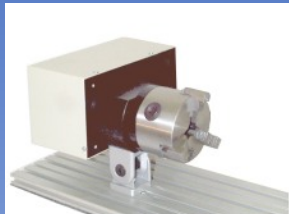


LA TECNOLOGIA LASER ITALIANA NEL MONDO

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

# GIOTTO

## CO<sub>2</sub> 2 ASSI



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**Giotto CO<sub>2</sub> 2 AXES** is a highly reliable laser marking unit equipped with a two axis galvo head and with CO<sub>2</sub> sealed laser sources (10+115W). Its main application field is the marking of different materials such as marble, anodised aluminium, wood, glass, methacrylate, textiles, leather etc. and every material interacting with the typical wavelength of CO<sub>2</sub> laser sources. The combined performances of cutting/kiss cutting and marking are also executed on thin materials such as wood, paper, leather and textiles.

Giotto 2 AXES disposes of a series of ancillary equipments for an easy use:

- System of optic adjustment of the fire distance ( dynamic beam expander)
- Class 1 enclosure
- Motorised Z axis
- Label unwinding/winding system
- Automatic loader for pens and gadgets

**Giotto 2 AXES ON THE FLY** is configured for faster marking speed demanded by the packing industry to codify batches, to mark expiry dates etc. It replaces the most common traditional ink jet marking systems and ensures such advantages as indelible marking, flexible codifying, reduced running costs as well as a cleaner system.

**Giotto 2 AXES COMPACT** is the evolution of the basic system. It has been developed on the basis of the latest laser technologies available. It matches features of extremely compact sizes with a range of high power (60W and higher). Only available the version with the head VM2000.

Giotto 2 AXES 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 work 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 fonts are used) graphic editing operations are also possible.



## TECHNICAL SPECIFICATIONS

	VM500			VM1000			VM2000		
<b>Laser source</b>	Laser source CO <sub>2</sub> , Pumping by Radio Frequency								
Technology:	10, 25, 50, 60, 100, 115 W								
Nominal power:	0+20 KHz								
Frequency:	air cooled or Closed loop								
Cooling unit:									
<b>Scanning head</b>									
Technology:	Galvo 2 axes								
Focal unit: mm									
Marking area: mm	75	100	200 mm	75	100	200 mm	100	200	
Work distance: mm	50x50	70x70	140x140	40x40	60x60	120x120	55x55	120x120	
Spot:	77	105	210 mm	75	100	200 mm	100	200 mm	
Writing speed (linear):	300	410	900 µm	180	240	400 µm	160	200 µm	
Writing speed ( font 3 mm ):	>3 m/s	>4 m/s	>8 m/s	>2,5m/s	>3m/s	>6 m/s	>2 m/s	>4 m/s	
Positioning speed:	>300	>400	>800car/s	>200	>300	>600car/s	>150	>300car/s	
	~7 m/s	~10m/s	~20 m/s	~5 m/s	~7 m/s	~15 m/s	~5 m/s	~10 m/s	
Operating temperature:	10+40° C								
Relative operating temperature:	10+85% RH max, non-condensing								
Storage temperature:	-10+70° C (H <sup>2</sup> O empty circuit)								
<b>System</b>									
Control:	DSP microprocessor card, 128 MB RAM, Ethernet LAN 10/100 Mbit/s.								
Sw:	Windwos98, 2000, XPPRO, ICARO CAM SW								
Files:	PLT, DXF, BMP, PCX, TIFF, JPEG, GIF MCL, etc.								
Interface:	Lan net, serial RS 232/485, I/O digital, Encoder								
Laser safety norms:	CLASS 4, CEI EN 60825-1								
Options:	Z axis, Rotary table Class1, Rotary attachment 360° Enclosure CLASS 1, dynamic beam expander.								

