

# GIOTTO

Laser System



Standard



Compact



GIOTTO CO<sub>2</sub> 3 ASSI



LA TECNOLOGIA LASER ITALIANA NEL MONDO

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

# GIOTTO

CO<sub>2</sub> 3 ASSI



**Giotto CO<sub>2</sub> 3 AXES** is a marking unit equipped with a 3 axis galvo head and with CO<sub>2</sub> sealed laser sources (average power 60÷350W) and excited by Radio frequency.

Two configurations are available: standard area ( from 180x80 to 500x500mm) and bigger area (from 600x600 to 1400x1400mm)

Used for different applications.

Its main features are: a compact system, a wide range of fire distance/work areas selectable, an outstanding modularity and

Laser beam quality of the laser sources together with a high reliability.

Thanks to its features of high quality, speed, flexibility and the range of ancillary equipments available it offers unique application potentialities and it is especially suitable to process thin materials such as wood, paper, leather and textiles which can be both cut and marked.

Treated aluminium or marble, glass, plastic materials can also be decorated and marked. The bleaching of fabrics both in rolls as well as finished product is also common ( i.e. Denim).

Giotto 3 AXES is driven by a Personal Computer and by the software ICARO windows 98. 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

Technology:  
Nominal power:  
Frequency:  
Cooling unit:

Laser source CO<sub>2</sub>, pumping by Radio Frequency  
60 - 115 - 230 - 350 W  
60 W=0±25 KHz 115-230-350 W =0,1±50KHz  
Closed loop Chiller

### Marking haed

Technology:  
Marking area: mm  
Spot diameter: µm  
Work Distance: mm  
Writing speed Vector:  
Writing speed raster:  
Positioning Speed:  
Laser preview:

SMALL AREA		BIG AREA	
3 xis galvo dynamic focusing			
180x180	⇔	500x500	
150	⇔	500	600x600 ⇔ 1400x1400
190	⇔	650	700 ⇔ 1500
			650 ⇔ 2000
		3 m/s	6 m/s
		5 m/s	10 m/s
		5 m/s	10 m/s

Preview 630-650 nm, 3 mW

Operating temperature:  
Relative operating temperature:  
Storage temperature:

10÷40° C  
10÷85% RH max, non-condensing  
-10÷70° C ( H<sub>2</sub>O empty circuit)

### System

Electronic control:  
Sw:  
Files:  
Interface:  
Dynamic Z axis:  
Laser safety norms:

DSP card, 128 MB RAM, Ethernet LAN 10/100Mbit/s.  
Windos98, 2000, XPPRO, SW CAM ICARO  
PLT, DXF, BMP, PCX, TIFF, JPEG, GIF, MCL, etc.  
LAN net, Serial RS232/485, I/O digital, encoder.  
Electro-optic systems for distance focus end working area  
Enclosure CLASS 4, CEI EN 60825-1

Options:

Z axis, Rotary table class 1, Pendulum table with loading/ unloading station, 04 station carousel, Rotary attachment 360°.

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



**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](mailto:info@seilaser.com)