

# GIOTTO MATRIX

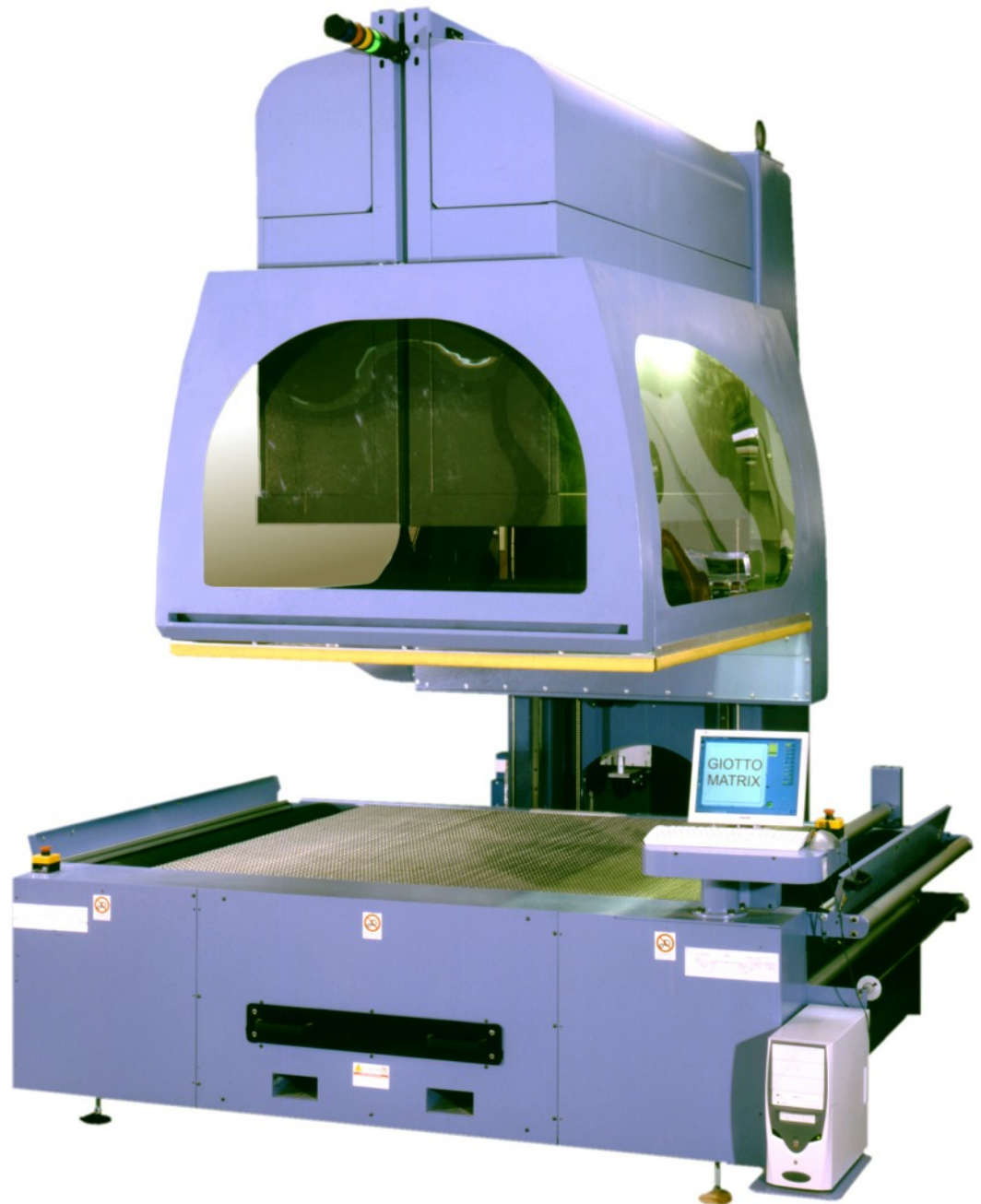
Laser System

CUTTING

MARKING

ENGRAVING

GIOTTO MATRIX CO<sub>2</sub>



LA TECNOLOGIA LASER ITALIANA NEL MONDO

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

# GIOTTO MATRIX



Giotto MATRIX is a marking unit equipped with a 3 axis galvo head and a CO<sub>2</sub> sealed laser source. It has a big size work area and features of high quality, speed and flexibility. Marking is carried out without any mechanical contact and it is the result of the thermo-acoustic interaction between the laser beam and the processed material. Marking is indelible, of high quality, fast and accurate. It is used to mark and cut thin materials such as wood, paper, leather, textiles etc.

Giotto MATRIX is driven by a Personal computer and by the software Icaro- Windows. The user can easily change the work parameters such as power, frequency and marking speed so that the required working performance is obtained. Graphics in different CAD formats can be imported and text can directly be changed (every windows font is used) and graphic editing operations are also possible etc.

Giotto MATRIX can be equipped with different accessories such as a conveyor with a feeding system and a winding system enabling to process roll materials so that performances can be enhanced.

## TECHNICAL SPECIFICATIONS

<b>Laser source</b>	
Technology:	Laser source CO <sub>2</sub> , pumping by Radio Frequency
Nominal power:	230 350 650 W
Frequency:	0,1+50 Hz
Cooling unit:	Closed loop chiller:
<b>Marking head</b>	
Technology:	3 axis galvo, dynamic focusing
Marking area: mm	From 300x300 to 1600x1600
Spot diameter:	From 180 µm to 800 µm
Work distance:	From 190 mm to 2000 mm
Writing speed vector:	Up to 3 m/s
Writing speed raster:	Up to 4 m/s
Laser preview:	Preview 630-650 nm, 3 mW
Operating temperature:	10+40° C
Relative operating humidity:	10+85% RH max, non-condensing
Storage temperature:	-10+70° C ( H <sub>2</sub> O empty circuit)
<b>System</b>	
Electronic control:	DSP card, 128 MB RAM, Ethernet LAN 10/100 Mbit/s
Sw:	Windows98, 2000, XPPRO, ICARO CAM SW
Files:	PLT, DXF, BMP, PCX, TIFF, JPEG, GIF, MCL, etc.
Interface:	Lan net, Serial RS232/485, I/O digital, Encoder
Dynamic Z axis:	Electro-optic systems for fire distance and marking area selection
Laser safety norms:	Enclosure CLASS 4, CEI EN 60825-1
Options:	Conveyor, automatic winding/ unwinding system

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



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