

# MERCURY 603

Laser System



MERCURY 603 / CO<sub>2</sub>



LA TECNOLOGIA LASER ITALIANA NEL MONDO

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

# MERCURY 603



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**Mercury 603** is an innovative cutting/ marking system for sheet and/or roll materials (both raw and finished products such as plastics, leather, wood, fabric and metals etc.).

Designed for a safe laser process thanks to the enclosure CLASS 1 even on big work areas, it matches high accuracy, flexibility with high productivity thanks to use of linear motors.

CO<sub>2</sub> sealed laser sources ensure reliability, quality, stability and a long lifetime at very low maintenance costs.

Mercury 603 can be equipped with automatic loading/unloading system and a conveyor with fixed table or double pallet for loading and unloading the material.

A CCD camera system is also available for cutting/contouring of printing materials with references (cross or print register).

The heart of Mercury 603 is a brand new DSP floating point control system with Ethernet connection and WI-Fi. The control system Motors via Can Bus, driven by the powerful SW CAM ICARO developed by Sei for an easy, friendly use of the system.

## TECHNICAL SPECIFICATIONS

Models	1314	1620	1630	2130
Work Area (mm):	1320x1400	1620x2070	1620x3080	2150x3080
Work support (mm):	1360x1550	1660x2200	1660x3200	2200x3200
Upright clearance (mm):	1390	1690	1690	2220
Work table height :	800 - 850 mm			
Clearance:	75 mm			
Overall dimension W-L (H=1330mm, with class 1):	2090x2830	2390x3540	2390x5100	3010x4300
For laser sources SLAB 1000 W and over: "L"	+1500 mm			
Weight:	1500 Kg	2000 Kg	2500 Kg	3000 Kg
Z axis stroke:	0+80 mm			
Sealed laser source:	100=2000 W and higher			
Cutting head focal units:	3.75" - 5" - 7.5"			
<b>Vector mode</b>				
X-Y axis work and contour speed:	2000 mm/s max			
X-Y maximum speed:	2000 mm/s max			
Conveyor advancement speed:	400 mm/s max			
Acceleration:	15 m/s <sup>2</sup>			
X-Y-Z axis resolution:	0,001 mm			
Accuracy:	+/- 0.05 mm on the whole area			
Static repeatability:	lower than 0.05mm			
<b>Raster mode</b>				
Raster speed (Head movement):	2000 mm/s max			
Resolution:	up to 1200 DPI			
Gray scale:	up to 256 gray tones			
<b>General features</b>				
table flatness static system:	+/- 0.5 mm			
Conveyor table flatness:	+/- 1 mm			
Payload:	50 Kg/m <sup>2</sup>			
Control:	by external PC via ICARO CAM SW			
Interface PC:	Ethernet LAN 10/100 Mbit/s WI-FI wireless 802.11b 2.4 Ghz / 11Mbit/s			
Power supply and power:	380V +/- 10% (3ph+g+n) 50 Hz 11 KW 70 KW			
Compressed air:	Min. 20 N/Lit/min. 4-7 bar (oil free)			
Assist Gas (option):	O <sub>2</sub> /N <sub>2</sub> assist gas with gauge regulator			
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)			
Options:	Conveyor, loading/unloading double pallet table, CCD camera registration, 3D SW, auto-focus, system of pursuit, capacitive sensor for metal cutting, suction pump, optic barriers for protection (class 4).			



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