

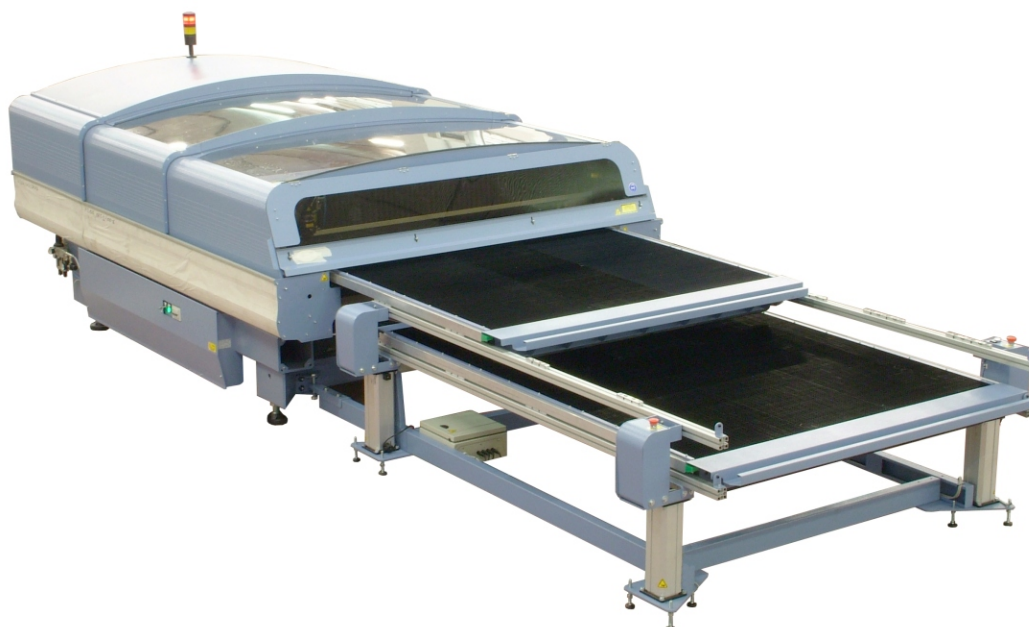
MERCURY 603

Laser System

CUTTING

MARKING

ENGRAVING



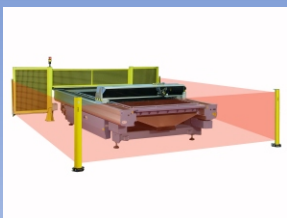
MERCURY 603 / CO₂



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.

CO₂ 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	1313	1520	1530	2030
Work Area (mm):	1250x1300	1500x2000	1500x3000	2000x3000
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"			
Vector mode				
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 ²			
X-Y-Z axis resolution:	0,001 mm			
Accuracy:	+/- 0.05 mm on the whole area			
Static repeatability:	lower than 0.05mm			
Raster mode				
Raster speed (Head movement):	2000 mm/s max			
Resolution:	up to 1200 DPI			
Gray scale:	up to 256 gray tones			
General features				
table flatness static system:	+/- 0.5 mm			
Conveyor table flatness:	+/- 1 mm			
Payload:	50 Kg/m ²			
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 ₂ /N ₂ 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 ₂ 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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