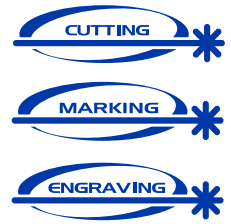


# PERSONAL LASER-BRAVO

Laser System



PERSONAL LASER-BRAVO CO<sub>2</sub>



LA TECNOLOGIA LASER ITALIANA NEL MONDO

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

# PERSONAL LASER-BRAVO



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**Personal Laser (PL):** is a compact, flexible laser cutting system to process both slab and roll materials. It has been designed to meet the demands coming from different market fields (plastics, wood, metal, leather etc.).

PL is driven by the latest generation control which gives a constant quality on the whole work area together with stability and accuracy.

The sealed CO<sub>2</sub> laser source and the cutting head are matched together and eliminate the alignment operations as well as the laser source service operations.

The PL series disposes of different formats and laser sources of different powers to meet the various operating demands.

**Personal Bravo (PB):** it has been designed to meet the demands of those who need a versatile system which matches the potentialities of cutting technology together with the speed of marking technology (with a 3 axis galvo head).

The combination of these two units (cutting and marking) enables to obtain finished products without moving the piece from one machine to another one with a remarkable time saving.

PB enables to mark big formats thanks to the automatic restart process coming from the friendly use Software ICARO.

### Its main features are:

- CO<sub>2</sub> sealed off laser technology
- A very compact size compared to the work area
- Z axis programmable with the Material pursuit system
- Fumes suction system integrated in the work table
- Palletizable work table with different material supports
- The only system certified by the market and by a very long experience.
- Marking area selectable by SW
- Interpolated cutting software based on cubic splines
- Speed and acceleration programmable
- Interchangeable cutting head
- X,Y,Z motor strain control

## TECHNICAL SPECIFICATIONS

Models	1520	1531	2031
Work area:	1550x2000	1550x3100	2000x3100 mm
Support table:	1650x2450	1650x3640	2100x3640 mm
Clearance:	1840	2020	2020 mm
Size WL*(H=2100):	3070x3720*	3070x4920*	3570x4920* mm
Weight:	+2200	+2600	+3000 KG
Beam clearance:		100 mm	
Work table height:		770 ÷ 830 mm	
Payload:		80 Kg/m <sup>2</sup> .	
Adjustable Z axis movement:		450 mm	
Sealed laser power:		115W ÷ 2000W and higher	
<b>Cutting</b>			
Focal units for cutting head:		3.75" / 5" / 7.5" / 10"	
X-Y work speed:		500 mm/s max.	
X-Y axis max. movement speed:		500 mm/s max	
Acceleration:		4 m/s <sup>2</sup>	
X-Y-Z axis resolution:		0.005 mm	
Accuracy:		+/- 0.05 mm on the whole area	
Repeatability:		+/- 0.02 mm	
Cutting table tolerance:		+/- 0.1 mm	
<b>Marking</b>			
Marking area with single window:		Programmable from 200x200 to 400x400 mm	
Marking area with restart:	1550x2000	1550x3100	2000x3100 mm
Marking speed:		3mt/s. max Selectable	
Resolution:		< 7 micron	
SPOT diameter:		< 200 micron (on the area 200x200 mm)	
Linearity (%):		+/- 3%	
Control by industrial PC:		Microprocessor INTEL Pentium 4 2,4GHz, TFT 12" LCD, 256Mb RAM, FloppyDisk, CDROM, Keyboard, Trackball, Windows XPPRO, ICARO	
Interface:		N°1 Parallel, n°2 serial Rs232, n°1 Ethernet LAN 10/100 Mbit/s, n°1 USB, internal modem (option)	
Power supply and absorption:		380V +/- 10% (3ph+g+n) 50 Hz 11 KW ÷ 70 KW	
Compressed air		100 nl/min.6÷8 bar (oil free)	
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)	

\*Over all Sizes: "L" + 250 mm

**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)