



CO<sub>2</sub> Laser Engraving, Marking & Cutting

LASER



## CO<sub>2</sub> Laser Engraving, Marking & Cutting system for educational and training installations

The PC controlled **LS1000XP** CO<sub>2</sub> laser system is ideally suited to all training needs.

### System features

- The unique design incorporates F-load (Front loading concept) which allows complete access and effortless loading and adjusting of materials, jigs, cutting tables and rotary attachments etc. With its extra large opening, bulky objects can be easily positioned without awkward manoeuvring.
- A rigid motion system incorporating high quality linear guide rails allows speeds up to 4000mm per second to be achieved.
- The A-sens function (Auto sensor concept) automatically adjusts the focal length depending on the position of the material surface.
- The unique D-fit function (Depth fitting concept) automatically adjusts the position of the laser head when cutting thick materials in several passes.
- Features an integrated cutting table with removeable slats and a material recovery tray.
- The integrated red dot beam pointer allows easy positioning of the laser prior to running a job.
- Available with a variety of laser tube powers from 40 to 150 watt to suit all types of work.



### What materials can be laser processed?



- Acrylic
- Anodised Aluminium
- Cardboard
- Coated Metals
- Cork
- Fabrics
- Foam
- Glass
- Laminated Plastics
- Leather
- Marble
- MDF
- Nylon
- Paper
- Plastics
- Polycarbonate
- Rubber
- Stone
- Veneer
- Wood

## System specifications

<b>LS1000XP</b>	
Engraving Area	1220 x 610 mm (48 x 24 in)
Z Axis Travel	300 mm
Max Part Weight	25 kg
Laser source power	40, 60, 80, 100 or 150 watts air cooled (100 & 150 watts water cooled)
Max. Engraving Speed	4000 mm/sec
Machine Weight	230kg
Dimensions (W x D x H)	1660 x 1110 x 1360 mm
Mounting	Floor
Rotary Attachment	3mm to 200mm Ø x 415mm long
Safety	Class II closed configuration Class IV pass through operation
Operating Modes	Raster mode for engraving, Vector mode for engraving and cutting or Raster / Vector combination mode
Resolution	50 - 1200 DPI
Optics	50.8mm (2.0") focal lens as standard

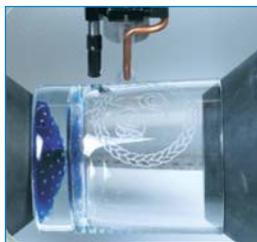
## Included Accessories

The Laser systems are packaged with the following accessories:-

- Integrated material cut-out table eliminating cut marks on the bottom side of the component by keeping the laser away from the machine table during vector cutting.
- Air assist including compressor. This helps prevent combustion of flammable materials.
- water chiller for 100 & 150 watt versions.
- Windows Software drivers.
- Warranty - 3 Years parts and labour including tube (excludes consumable items - lenses, mirrors, honeycomb table and extraction filters)



## Optional Accessories



- Automated rotary device for engraving cylindrical objects.
- Integrated fume extraction/air filtration system\*. The laser system's internal ventilation system is engineered with air exhaust paths that virtually eliminate mirror contamination. For rubber processing, a hose at the point of cutting is included to help remove the smoke at the source.
- Set of replacement filters for extraction / air filtration system.
- 38.1 (1.5") 63.5 (2.5"), 89 (3.5") and 102mm (4") focal lenses.



\* Laser systems can produce noxious fumes of varying levels depending on the material been processed. If exhausting internally, extraction must be to HEPA standards. Uses may wish to consider exhausting externally, eliminating the need for continual filter replacement. Please ask for further details.



**Boxford**  
Dewsbury Road,  
Elland,  
HX5 9BG  
Tel: 01422 324810  
Fax: 01422 372503  
Email:  
info@boxford.co.uk  
Web:  
www.boxford.co.uk