

## LS1290 PRO

The LS1290 has a large capacity work area, capable of meeting high workload demands. It can be quickly split to enable it to fit through a standard single doorway and has a powerful 80W tube as standard with 130W and 150W upgrades available.

The class 1 laser enclosure ensures that the laser beam is safely contained during normal operation. With locking cabinet doors and separately keyed on/off switch, unauthorised access and operation can be prevented. The machine is provided with a 12 month onsite warranty with option to extend up to 3 years.

### MACHINE FEATURES:

Class 1 laser system

80W tube as standard with 130W and 150W power upgrade options available

Machine can be quickly split to fit through a standard single doorway (minimum doorway width 760mm)

Red dot pointer system for easily and quickly lining up your work

Slatted non-reflective aluminium bar bed for supporting a wide range of materials and weights (honeycomb bed available upon request)

High quality optics provide high accuracy, reliability and long life

Hinged pass-through panels front and rear allow larger items to be cut and engraved

Air assist to control heat and disperse smoke and debris around cutting nozzle

Water flow switch to provide protection against failure of cooling system

Complimentary options available including water chiller, fume filter and rotary attachment for engraving cylindrical items

Louvred cabinet ventilation slots ensure maximum enclosure safety

Safety switch prevents operation of machine with lid open



### CUT AND ENGRAVE:

Paper, card and print media

Fabric

Leather

Acrylic, nylon and other non-PVC plastics

Plastic laminates

Latex and rubber

Plywood and MDF

Wood and wood veneers

### ENGRAVE ONLY:

Glass, granite, slate and marble

Anodised and coated metals

Uncoated metals\*

\*ceramic marking compound required



	LS1290-80	LS1290-130	LS1290-150
<b>Laser power</b>	80W (100W maximum)	130W (150W maximum)	150W (160W maximum)
<b>Maximum cutting thickness</b>	20mm Acrylic		
<b>Recommended maximum cutting thickness</b>	12mm acrylic	15mm acrylic	15mm acrylic
<b>Engraving speed</b>	200-400mm/sec*		
<b>Mounting</b>	Free standing floor mounted on castors		
<b>Laser source</b>	Water cooled CO2 gas filled glass tube		
<b>Cutting area</b>	1200mm x 900mm (slightly reduced for engraving)		
<b>Z axis (table height) adjustment</b>	230mm motorised		
<b>Drive system</b>	Stepper motor		
<b>Location precision</b>	<0.01mm		
<b>Cooling method</b>	Closed circuit water cooling with flow protection switch		
<b>Cooling system</b>	Separate IP68 submersible pump and 35 litre water tank (supplied)** optional water chiller available		
<b>Fume extraction</b>	Separate air extraction unit (supplied) optional fume filter available		
<b>Extraction hose</b>	150mm flexible hose – 2 pieces 1500mm long each (supplied)		
<b>Air assist compressor</b>	Free standing oil-free diaphragm compressor (supplied)		
<b>Connectivity</b>	USB		
<b>Software</b>	Lasercut 5.3		
<b>Typical design software</b>	Adobe Illustrator, AutoCAD, Corel Draw, 2D design		
<b>Preferred file types</b>	.dxf, .plt		
<b>Operating system support</b>	Windows XP, 7, 8, 10		
<b>Minimum character size</b>	1.5mm x 1.5mm		
<b>Power supply</b>	220V (or 110V) +/- 10% 50Hz (or 60Hz)		
<b>Machine dimensions (mm)</b>	1780 x 1350 x 1220	2160 x 1350 x 1220	2160 x 1350 x 1220
<b>Machine weight</b>	300kg		
<b>Machine interfaces</b>	2 x USB (1 x USB cable for PC and 1 x USB socket for memory stick) 1 x mains power socket (3-pin UK kettle type cable supplied) 1 x air extract connection to suit 150mm hose 1 x water inlet and 1 x water outlet port (to suit supplied 6mm I.D. silicon hose) 1 x air inlet port (to suit supplied 6mm I.D. silicon hose) 6 x UK/USA/EU electrical sockets for power connection of auxiliary devices		
<b>Cabinet safety</b>	Lockable louvred cabinet doors, lid safety switch separately keyed main power switch		
<b>Cabinet pass through</b>	Lockable drop-down doors (front 1290mm x 2 stage 148mm / 345mm, rear 1290mm x 75mm)		
<b>Other cabinet features</b>	Full width front mounted pull-out drawer for debris and offcut recovery		
<b>Warranty</b>	12 months on site excluding consumables (laser tube and optics)		

\*higher speeds are achievable but engraving quality may be reduced \*\*Water tank not supplied if water chiller option is purchased

#### OPTIONAL EXTRAS:

130W Tube, 150W tube

Laser fume filtration system for enclosed spaces

CW4000 water chiller unit

Sheet materials including acrylic, plywood, MDF veneers, engraving laminate

Laser machine compatible antifreeze