

LS1690 PRO

The LS1690 has a large capacity work area, capable of meeting high workload demands. It 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 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 split to fit through a standard single doorway (minimum doorway width 690mm)

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

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

Available options include water chiller, fume filter and rotary attachment for engraving cylindrical items

Louvred cabinet ventilation slots ensure maximum enclosure safety

CE marked Allen Bradley safety switches prevent operation of machine with lid or laser tube door 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



	LS1690-80	LS1690-130	LS1690-150
Laser power	80W (100W maximum)	130W (150W maximum)	150W (165W maximum)
Maximum cutting thickness	20mm Acrylic		
Recommended maximum cutting thickness	12mm acrylic	15mm acrylic	15mm acrylic
Engraving speed	400-800mm/sec* (400mm/sec recommended for best quality)		
Mounting	Free standing floor mounted on castors		
Laser source	Water cooled CO2 gas filled glass tube		
Cutting area	1600mm x 900mm (slightly reduced for engraving)		
Z axis (table height) adjustment	230mm motorised		
Drive system	Stepper motor		
Location precision	<0.01mm		
Cooling method	Closed circuit water cooling with flow protection switch		
Cooling system	Separate IP68 submersible pump and 35 litre water tank (supplied)** optional water chiller available		
Fume extraction	Separate air extraction unit (supplied) optional fume filter available		
Extraction hose	150mm flexible hose – 2 pieces 1500mm long each (supplied)		
Air assist compressor	Free standing oil-free diaphragm compressor (supplied)		
Connectivity	USB		
Software	RD Works (PC only), Lightburn (PC or Mac)		
Typical design software	Adobe Illustrator, AutoCAD, Corel Draw, 2D design		
Preferred file types	.dxf, .plt		
Operating system support	Windows XP, 7, 8, 10		
Minimum character size	1.5mm x 1.5mm		
Power supply	220V (or 110V) +/- 10% 50Hz (or 60Hz)		
Machine dimensions (mm)	2200 long x 1500 wide x 1100 high		
Machine weight	400kg		
Machine interfaces	1 x USB for PC (USB cable supplied)		
	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)		
	5 x UK/USA/EU electrical sockets for power connection of auxiliary devices		
Cabinet safety	Louvred cabinet doors, CE safety switches for lid and laser tube door, separately keyed main power switch for one-key operation		
Cabinet pass through	Front 1290mm x 2 stage 148mm / 345mm, rear 1290mm x 75mm (Machine becomes a class 4 laser device if operated with pass through panels removed)		
Warranty	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 and 150W laser tube upgrades

Laser fume filtration system for enclosed spaces

CW4000 water chiller unit

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

Laser machine compatible antifreeze