

# LS6090 PRO

The LS6090 is one of the most popular Laserscript machines due to its high power laser tube and large bed size. It is a versatile all-rounder supplied with a 2 inch focusing lens ideal for cutting and engraving with maximum precision at fast speeds.

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
- > 60W tube as standard with 80W and 130W power upgrade options available
- > Machine can be quickly 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
- > Allen Bradley Guardmaster safety switches prevent operation of machine with lid, laser tube door or debris drawer open

## Cut and Engrave:

- > Paper, card and print media
- > Plastic laminates
- > Fabric
- > Latex and rubber
- > Leather
- > Plywood and MDF
- > Acrylic, nylon and other non-PVC plastics
- > Wood and wood veneers

## Engrave Only:

- > Glass, granite, slate and marble
- > Anodised and coated metals
- > Uncoated metals\*
- \*ceramic marking compound required



# LS6090 specification:

**Laser power:** LS6090-60: 60W (80W max),  
LS6090-80: 80W (100W max),  
LS6090-130: 130W (150W max)

**Max cutting thickness:** 20mm acrylic

**Recommended maximum cutting thickness:** LS6090-60: 10mm acrylic,  
LS6090-80: 12mm acrylic,  
LS6090-130: 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:** 600mm 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)

\*higher speeds are achievable but engraving quality may be reduced

\*\*Water tank not supplied if water chiller option is purchased

## Dimensions:

### > Machine:

LS6090-60: 1400mm(l) x 1050mm(w) x 1100mm(h)

LS6090-80: 1800mm(l) x 1050mm(h) x 1100mm(w)

LS6090-130: 1800mm(l) x 1050mm(h) x 1100mm(w)

### > Machine weight: 210kg

> **Machine interfaces:** 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), 3 x UK/USA/EU electrical sockets for power connection of auxiliary devices

> **Cabinet safety:** Louvred cabinet panels, CE marked safety switches for lid, laser tube door and debris drawer, separately keyed main power switch for one-key operation

**Cabinet pass through:** Front 994mm x 2 stage 148mm / 296mm, rear 994mm x 75mm (Machine becomes a class 4 laser device if operated with the pass-through panels removed)

> **Other cabinet features:** Full width front mounted pull-out drawer for debris and offcut recovery

## Warranty:

> 12 months on site excluding consumables (laser tube and optics)

## Optional Extras:

> 80W and 130W laser tube upgrades

> Laser fume filtration system for enclosed spaces

> CW4000 water chiller unit

> Laser machine compatible antifreeze



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