

# LS6840 PRO

The LS6840 PRO is ideally suited for a wide range of applications. With a standard tube power of 50W it is available with a 60W upgrade for faster cutting and increased flexibility.

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
- › 50W tube as standard with 60W power upgrade option available
- › Integral CW5200 chiller included (it can be removed required)
- › Machine can be quickly split to fit through a doorway as small as 660mm wide
- › Dual red dot pointer system for easily and quickly lining up your work
- › Motorised bed height adjustment and 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 fume filter and rotary attachment for engraving cylindrical items
- › Louvred cabinet ventilation slots ensure maximum enclosure safety
- › Allen Bradley Guardmaster safety switches prevents operation of machine with lid or laser tube door 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\*\*
- \*60W laser tube upgrade recommended  
\*\*ceramic marking compound required



# LS6840 specification:

## Laser power:

LS6840-50: 50W (60W max)

LS6840-60: 60W (80W max)

**Max cutting thickness:** 20mm acrylic

## Recommended maximum cutting thickness:

LS6840-50: 10mm acrylic

LS6840-60: 12mm 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:** 680mm x 400mm  
(slightly reduced for engraving)

**Z axis (table height) adjustment:**  
130mm 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:** 100mm 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, 11

**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:

LS6840-50: 1170mm(l) x 760mm(w) x 1170mm(h)

LS6840-60: 1380mm(l) x 760mm(w) x 1160mm(h)

### > Machine weight: 125kg

**> 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 100mm hose, 1 x water inlet and 1 x water outlet port (to suit supplied 6mm I.D. silicon hose), 1 x quick couple air inlet port (to suit supplied 4mm PVC 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 and laser tube door, separately keyed main power switch for one-key operation

**> Cabinet pass through:** Front 735mm x 2 stage 98mm / 196mm, rear 695mm x 125mm (Machine becomes a class 4 laser device if operated with the pass-through panels removed)

## Warranty:

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

## Optional Extras:

**> 60W Tube upgrade**

**> Laser fume filtration system** for enclosed spaces

**> CW4000 or CW5200 water chiller unit**

**> Laser machine compatible antifreeze**



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