Laserscript

CE

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
- Machine can fit through a standard single doorway without needing to be disassembled
- 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
- Complimentary options available including water chiller, 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
- 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**

*60W laser tube upgrade recommended **ceramic marking compound required

	LS6840-50	LS6840-60
Laser power	50W (60W maximum)	60W (80W maximum)
Maximum cutting thickness	20mm Acrylic	
Recommended maximum cutting thickness	10mm acrylic	12mm acrylic
Engraving speed	200-400mm/sec*	
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	RDWorks (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)	1170 x 760 x 1170	1380 x 760 x 1160
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 onsite 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:

- 60w 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

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