

## LS3040 Desktop

The LS3040 is our largest desktop machine and is ideally suited for a wide range of applications. With a standard tube power of 35W it is available with 50W and 60W power upgrades for faster cutting and increased flexibility.

Critical safety features are integrated into the design. 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.



### MACHINE FEATURES:

Class 1 laser system

35W tube (40W peak) as standard with 50W (60W peak) and 60W (80W peak) power upgrade options available

Integrated water temperature probe with machine mounted LCD display

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

Honeycomb bed for supporting a wide range of materials and weights

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 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



	LS3040-35	LS3040-50	LS3040-60
<b>Laser power</b>	35W (40W maximum)	50W (60W maximum)	60W (80W maximum)
<b>Maximum cutting thickness</b>	12mm Acrylic		
<b>Recommended maximum cutting thickness</b>	8mm acrylic	10mm acrylic	10mm acrylic
<b>Engraving speed</b>	200-400mm/sec*(200mm/sec recommended for best quality)		
<b>Mounting</b>	Desktop / surface mounted		
<b>Laser source</b>	Water cooled CO2 gas filled glass tube		
<b>Cutting area</b>	420mm x 300mm (slightly reduced for engraving)		
<b>Z axis (table height) adjustment</b>	80mm manual adjustment		
<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>	100mm 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>	RDWorks (PC only), Lightburn (PC or Mac)		
<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>	930 x 670 x 430	1140 x 670 x 430	1380 x 670 x 430
<b>Machine weight</b>	50kg		
<b>Machine interfaces</b>	1 x USB		
	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		
	2 x UK/USA/EU electrical sockets for power connection of auxiliary devices		
<b>Cabinet safety</b>	Louvred cabinet panels, CE marked safety switches for lid and laser tube door, separately keyed main power switch for one-key operation		
<b>Cabinet pass through</b>	Front 535mm x 275mm, rear 465mm x 35mm (Machine becomes a class 4 laser device if operated with pass through panels removed)		
<b>Other cabinet feature</b>	Integrated water temperature probe with machine mounted LCD display panel		
<b>Warranty</b>	12 months return to base 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		
<b>OPTIONAL EXTRAS:</b>			
	50W and 60W laser tube upgrades		
	Laser fume filtration system for enclosed spaces		
	CW4000 or CW5200 water chiller unit		
	Sheet materials including acrylic, plywood, MDF veneers, engraving laminate		
	Laser machine compatible antifreeze		