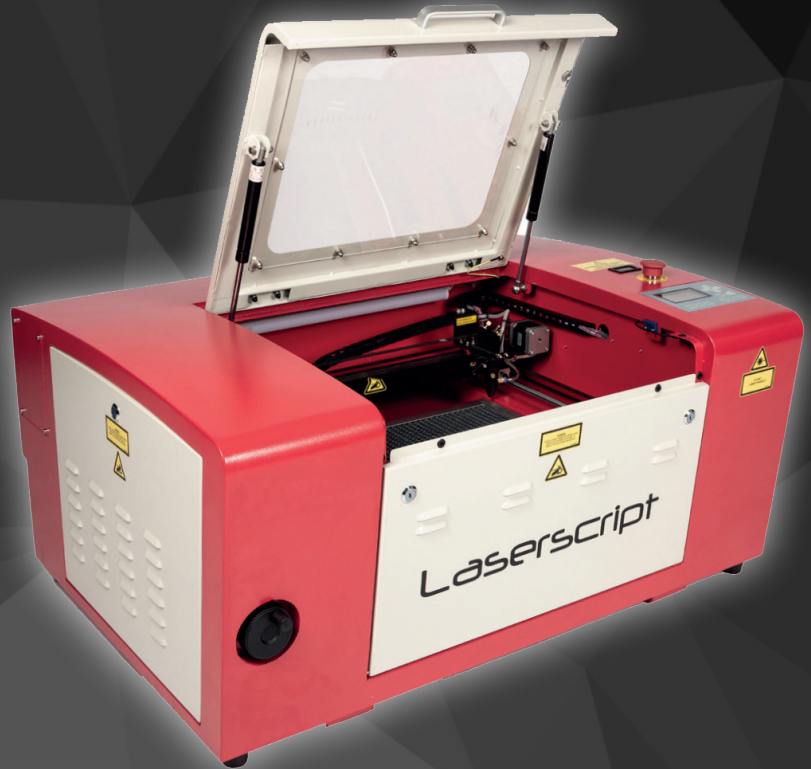


LS3040 Desktop

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:

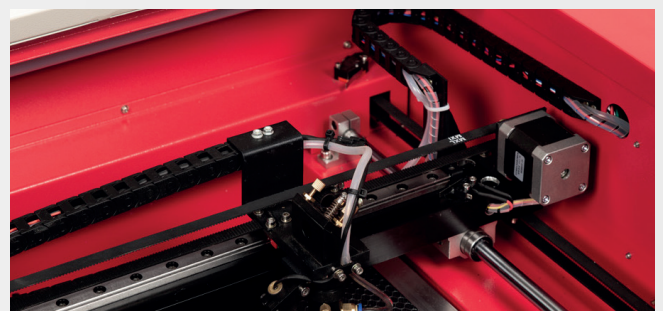
- › Class 1 laser system
- › 35W tube (40W max) as standard with 50W (60W max) and 60W (80W max) power upgrade options available
- › Integrated water temperature probe with machine mounted LCD display
- › Red dot pointer system for easily and quickly lining up your work
- › Honeycomb bed for supporting 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
- › 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



LS3040 specification:

Laser power: LS3040-35: 35W (40W max),
LS3040-50: 50W (60W max),
LS3040-60: 60W (80W max)

Max cutting thickness: 12mm acrylic

Recommended maximum cutting thickness: LS3040-35: 8mm acrylic,
LS3040-50: 10mm acrylic,
LS3040-60: 10mm acrylic

Engraving speed: 200-400mm/sec*(200mm/sec recommended for best quality)

Mounting: Desktop / surface mounted

Laser source: Water cooled CO2 gas filled glass tube

Cutting area: 420mm x 300mm (slightly reduced for engraving)

Z axis (table height) adjustment: 80mm manual adjustment

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:

LS3040-35: 930mm(l) x 670mm(w) x 430mm(h)
LS3040-50: 1140mm(l) x 670mm(w) x 430mm(h)
LS3040-60: 1380mm(l) x 670mm(w) x 430mm(h)

> Machine weight: 50kg

> **Machine interfaces:** 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

> **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 535mm x 275mm, rear 465mm x 35mm (Machine becomes a class 4 laser device if operated with pass through panels removed)

> **Other cabinet features:** Integrated water temperature probe with machine mounted LCD display panel

Warranty:

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

Optional Extras:

> 50W and 60W Laser tube upgrades

> Laser fume filtration system for enclosed spaces

> CW4000 or CW5200 water chiller unit

> Laser machine compatible antifreeze



UK
CA CE