

LS3020 Desktop

With a 35W laser tube, compact design and an A4 bed size, the LS3020 is ideally suited to hobbyists, model makers and architects. With a red-dot pointer, and 50mm table height adjustment as standard, it is far superior to some other entry level laser machines.

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 keyed on/off switch, unauthorised access and operation can be prevented.



MACHINE FEATURES:

Class 1 laser system

35W laser tube (40W peak)

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

Air assist to control heat and disperse smoke and debris around cutting nozzle

Available options include water chiller and fume filter

CE marked Allen Bradley Guardmaster safety switch prevents operation of machine with lid open

Cooling water temperature probe with digital LCD display

CUT AND ENGRAVE:

Paper, card and print media

Fabric

Leather

Acrylic and other non-PVC plastics

Plastic laminates

Latex and rubber

Plywood and MDF

Wood and wood veneers

ENGRAVE ONLY:

Anodised and coated metals

Slate and Granite



LS3020-35

Laser power	35W (40W peak)
Maximum cutting thickness	10mm Acrylic
Recommended maximum cutting thickness	6-8mm 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	300mm x 200mm (slightly reduced for engraving)
Z axis (table height) adjustment	50mm manual adjustment
Drive system	Stepper motor
Location precision	<0.01mm
Cooling method	Closed circuit water cooling
Cooling system	Separate IP68 submersible pump and 35 litre water tank (supplied)** optional water chiller available
Fume extraction	Integrated air extraction unit (supplied) Upgraded extraction unit and 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)	800 x 500 x 310
Machine weight	35kg
Machine interfaces	1 x USB 1 x mains power socket (3-pin UK kettle type cable supplied) 1 x integrated fume extraction interface 1 x water inlet and 1 x water outlet hose (6mm I.D. silicon) 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	CE marked lid safety switch, separately keyed main power switch for one-key operation
Warranty	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

OPTIONAL EXTRAS:

Stand-alone uprated fume extraction unit

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