

# 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 max)
- › 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
- › Plastic laminates
- › Fabric
- › Latex and rubber
- › Leather
- › Plywood and MDF
- › Acrylic, nylon and other non-PVC plastics
- › Wood and wood veneers

## Engrave Only:

- › Anodised and coated metals
- › Slate and Granite



# LS3020 Pro specification:

**Laser power:** 35W (40W max)

**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:** 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:** 800mm long x 500mm wide x 310mm high
- **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

## Warranty:

- 12 months onsite excluding consumables (laser tube and optics)

## Optional Extras:

- Stand-alone upgraded fume extraction unit
- Laser fume filtration system for enclosed spaces
- CW4000 or CW5200 water chiller unit
- Laser machine compatible antifreeze



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