HPC Laser

Laser experts since 2007

CO2 LASER CUTTER & ENGRAVER (LS6840 PRO)



The HPC LS6840 CO2 Laser Cutter & Engraver combines precision, speed and versatility to deliver outstanding cutting and engraving results across a wide range of materials.

Easy to operate and built for reliable performance, it helps businesses, schools and creative workshops boost productivity, reduce costs and bring even the most intricate designs to life.

Innovative Features:

- **Powerful Laser Performance:** Class 1 laser system with a 50W tube as standard and optional 60W upgrade for increased cutting capability.
- **Integrated Water Chiller:** Built-in CW5200 chiller ensures consistent laser cooling and can be removed when required.
- **LightBurn Software Integration:** Take greater control of your laser with powerful, intuitive software for precision design, easy setup and efficient cutting and engraving
- **Integrated Camera Alignment:** Enables precise design positioning and efficient nesting to maximise material usage, minimise waste and reduce production costs
- **Flexible USB Connectivity:** Run designs directly from your PC or USB memory stick, with dual USB ports for convenient, hassle-free operation.
- **Easy Installation:** Innovative split-frame design allows access through doorways as narrow as 660mm.
- **Precision Alignment:** Dual red-dot pointers ensure fast, accurate material positioning, reducing setup time and waste.
- **Versatile Motorised Bed:** Adjustable bed height and non-reflective aluminium slats accommodate various materials and thicknesses. Optional honeycomb bed available.
- **High-Quality Optics:** Precision optical components deliver accurate, consistent results and long-lasting reliability.
- **Extended Cutting Capacity:** Front and rear pass-through panels accommodate larger materials and projects.
- **Integrated Air Assist:** Reduces heat build-up and clears smoke and debris for cleaner, more consistent cutting results.
- **Cooling System Protection:** Water-flow safety switch helps protect the laser tube against cooling system failure.
- **Optional Accessories:** Fume filtration and rotary attachment options expand capabilities, including engraving cylindrical objects.
- **Advanced Safety Interlocks:** Allen-Bradley Guardmaster switches prevent laser operation when the lid or laser tube access door is open.

Cut It, Engrave It, Create It:

- **Wood, Plywood & MDF**
- **Acrylic (cast & extruded)**
- **Fabric, Textiles & Leather**
- **Paper, Card & Cardboard**
- **Rubber (certain types only)**
- **Engraving Only Glass, Stone, Ceramic & Coated Metals**

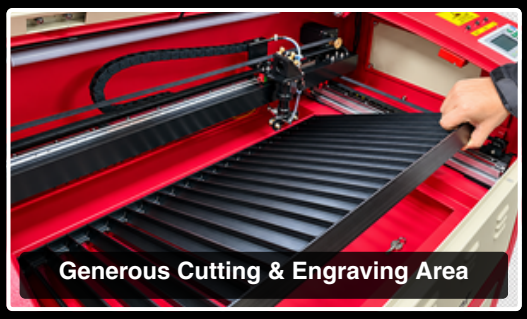


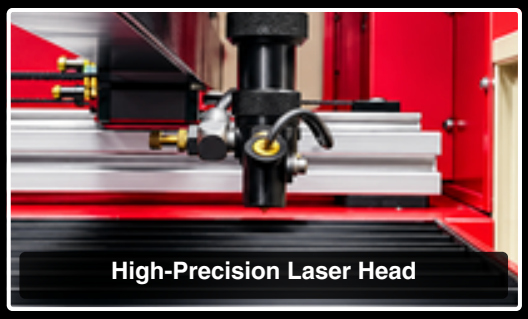


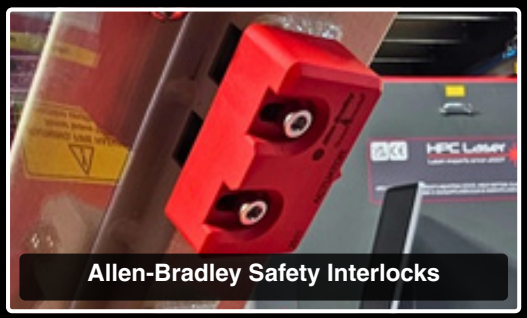


Key Features:













LS6840 PRO Specification:

Laser Power:
LS6840-50: 50W (60W max)
LS6840-60: 60W (80W max)

Max Cutting Thickness: 20mm acrylic

Recommended Maximum Cutting Thickness:
LS6840-50: 10mm acrylic
LS6840-60: 12mm acrylic

Engraving Speed:
400-800mm/sec

Mounting: Free standing floor mounted on castors

Cutting Area:
680mm x 400mm (slightly reduced for engraving)

Laser Source:
Water cooled CO2 gas filled glass tube

Z Axis (table height) Adjustment:
230mm motorised

Drive System: Stepper motor

Location precision: <0.01mm

Cooling Method:
Closed circuit water cooling with flow protection switch

Cabinet Safety:
CE marked safety switches for lid and laser tube door, separately keyed main power switch for one-key operation

Cooling System: Built-in active water chiller.

Fume Extraction:
Separate air extraction unit (supplied); optional fume filter available

Extraction Hose:
100mm flexible hose - 2 pieces 1500mm long each

Air Assist Compressor:
Free standing oil-free diaphragm compressor

Connectivity:
USB

Software:
RD Works (PC only), LightBurn (PC or Mac)

Typical Design Software:
Adobe Illustrator, AutoCAD, Corel Draw, 2D design
Typical design software: .dxf, .plt

Operating System Support:
Windows XP, 7, 8, 10, 11

Power Supply:
220V +/- 10% 50Hz

Dimensions:
Machine:
LS6840-50: 1170mm(l) x 760mm(w) x 1170mm(h)
LS6840-60: ----------

Machine Weight: 175kg

Optional Extras:
60W Tube upgrade
Laser fume filtration system for enclosed spaces
Laser machine compatible antifreeze

Warranty:
12 months on site excluding consumables (laser tube and optics)
Extended Warranty & Service Plans Available.

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