

C02 laser cutting & engraving machines

Our range of non-metal laser cutting and engraving machines are built to Boxford specifications, giving customers easy to use and fully integrated laser cutting capabilities to produce work of the highest standards.



Materials which can be laser processed:

Acrylic
Wood
Card
Cork
Foam
Glass
Marble
MDF
Paper
Rubber
Stone
Slate
Polycarbonate
Laminated plastics
and more...

Boxford C02 lasers include:

- Auto-focus
- Honeycomb and knife material bed
- Integrated water cooling system for C02 laser source
- Air assist including integrated compressor
- Windows software included, supporting DXF, JPEG, BMP, AI and more...
- Also compatible with Lightburn laser cutting software
- Pre-configured & fully editable parameter library
- 12 months machine warranty
- UK after sales and support



| | BGL350 | BGL460 | BGL690 | BGL1390 |
|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Engraving area (mm) | 500x300 | 600x400 | 900x600 | 1300x900 |
| Z axis travel (mm) | 250 | 250 | 250 | 250 |
| Laser power source | 50w | 80w | 80w | 100w |
| Laser type | Glass CO2 | Glass CO2 | Glass CO2 | Glass CO2 |
| Integrated laser cooling system | Water chiller | Water chiller | Water chiller | Water chiller |
| Table control | Electric | Electric | Electric | Electric |
| Cutting thickness (mm) | 0-15 | 0-15 | 0-20 | 0-20 |
| Max cutting speed | 600mm/sec | 600mm/sec | 600mm/sec | 600mm/sec |
| Max engraving speed | 1000mm/sec | 1000mm/sec | 1000mm/sec | 1000mm/sec |
| Location precision (mm) | <0.01 | <0.01 | <0.01 | <0.01 |
| Optics | 50.8mm STD | 63.5mm STD | 63.5mm STD | 63.5mm STD |
| Machine weight | 150kg | 175kg | 300kg | 410kg |
| Dimensions (w x d x h mm) | 1060x750x1020 | 1150x850x1020 | 1480x1010x1150 | 1860x1330x1150 |
| Mounting | Floor | Floor | Floor | Floor |
| Safety | Class 2 closed configuration | Class 2 closed configuration | Class 2 closed configuration | Class 2 closed configuration |
| Operating modes | Cutting, scan & vector engraving | Cutting, scan & vector engraving | Cutting, scan & vector engraving | Cutting, scan & vector engraving |
| Power requirements | 220V 1ph @ 6A | 220V 1ph @ 6A | 220V 1ph @ 8A | 220V 1ph @ 10A |
| Prices from (excl VAT) | £2,945 | £3,945 | £5,195 | £6,195 |



Optional accessories:

- Automated tilting rotary device for engraving cylindrical objects
- Lightburn software (compatible with PC and Mac OS)
- Filtered fume extraction/air filtration system*
- Set of replacement filters for extraction/air filtration system
- 50.8 (2.0") and 63.5 (2.5") focal length lenses

Included accessories:

- Integrated laser source cooling system (water chiller)
- Air assist including integrated compressor
- Honeycomb AND knife material beds
- Basic extraction fan and hose for external venting
- Windows software and drivers. Design software supports: AI, JPEG, BMP, DXF and more
- Warranty: 12 month warranty on laser systems, parts and labour (excluding consumable items - lenses mirrors, honeycomb table and extraction filters. (4 months warranty on laser tubes fitted to BGL350 & 460 machines. 10 months warranty on laser tubes fitted to BGL690 and BGL1390 machines).

