

## C02 laser cutting & engraving machines

Our range of non-metal and mixed metal and 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  
Steel (BML1390 only)  
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 supporting DXF, JPEG, BMP, AI, Lightburn and more...
- Pre-configured & fully editable parameter library
- 12 months warranty
- UK after sales and support



	BGL350	BGL460	BGL690	BGL1390	BML1390
Engraving area (mm)	500x300	600x400	900x600	1300x900	1300x900
Z axis travel (mm)	250	250	250	250	250
Laser power source	50w	80w	80w	100w	150w
Laser type	Glass CO2				
Integrated laser cooling system	Water chiller				
Table control	Electric	Electric	Electric	Electric	Electric
Cutting thickness (mm)	0-15	0-15	0-20	0-20	0-30 1.5mm mild steel* 1.2mm stainless*
Max cutting speed	600mm/sec	600mm/sec	600mm/sec	600mm/sec	400mm/sec
Max engraving speed	1000mm/sec	1000mm/sec	1000mm/sec	1000mm/sec	200mm/sec
Location precision (mm)	<0.01	<0.01	<0.01	<0.01	<0.01
Optics	50.8mm STD	63.5mm STD	63.5mm STD	63.5mm STD	63.5mm STD
Machine weight	150kg	175kg	300kg	410kg	450kg
Dimensions (w x d x h mm)	1060x750x1020	1150x850x1020	1480x1010x1150	1860x1330x1150	2010x1550x1150
Mounting	Floor	Floor	Floor	Floor	Floor
Safety	Class 2 closed configuration				
Operating modes	Cutting, scan & vector engraving	Cutting & some engraving			
Power requirements	220V 1ph @ 6A	220V 1ph @ 6A	220V 1ph @ 8A	220V 1ph @ 10A	220V 1ph @ 32A
Prices from (excl VAT)	£2,945	£3,945	£5,195	£6,195	£11,995

\*A supply of oxygen gas is required to cut steel (BML1390 only)



#### Included accessories:

- Integrated laser source cooling system
- Air assist including integrated compressor
- Both 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, BGL1390 and BML1390 machines).

#### Optional accessories:

- Automated tilting rotary device for engraving cylindrical objects
- 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

