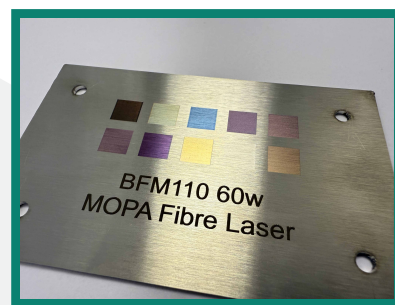# MOPA Fibre Laser

**boxford**

Boxford MOPA fibre marking and engraving lasers can take your product marking to the next level of professionalism.

In addition to being able to mark and engarve part numbers, QR codes and even high-definition photographs, a MOPA laser will allow you to mark steel in a variety of colours and has less impact on your material than standard Q-Switch fibre lasers.



## Mark steel in colour!



### Some of the many materials which can be laser marked and engraved:

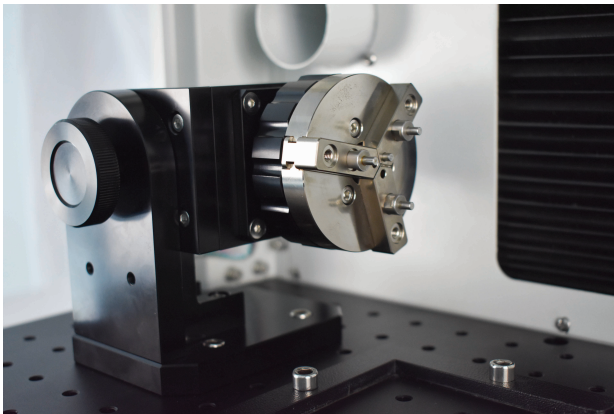| | | |
|---|---|---|
| Stainless steel | Anodised aluminium | Gold |
| Mild steel | Titanium | Bronze |
| Tool steel | Brass | Acetal |
| Shim steel | Copper | and more... |
| Aluminium | Silver | |

See our full range of manufacturing systems for education, design and industry on our website: **www.boxford.co.uk** or call us on **+44 (0)1422 324810**

# boxford

| | BFM110 20w MOPA | BFM110 30w MOPA | BFM110 60w MOPA |
|---|---|---|---|
| Marking area (mm) | 110x110 | 200x200* | 200x200* |
| Z axis travel (mm) | 300 | 300 | 300 |
| Laser power source | **20w** | **30w** | **60w** |
| Laser type | MOPA Fibre 1064nm | MOPA Fibre 1064nm | MOPA Fibre 1064nm |
| Beam quality | m2<2 | m2<2 | m2<2 |
| Pulse repetition frequency | 20-60KHz | 20-60KHz | 20-60KHz |
| Integrated laser cooling system | Air cooled | Air cooled | Air cooled |
| Miniumum line width | | | |
| Minimum character | 0.3mm | 0.3mm | 0.3mm |
| Location precision (mm) | <0.01 | <0.01 | <0.01 |
| | | | |
| Machine weight | | 90kg | |
| Dimensions (w x d x h mm) | | 470 x 720 x 740 | |
| Mounting | | Desktop | |
| Safety | | Class 1 closed configuration | |
| Operating mnodes | | Scan marking / engraving | |
| Power requirements | | Machine: 220V 1ph @ 6A | |
| | | Extraction: 220V 1ph @ 5A | |

| Prices from (excl VAT) | £6,195 | £6,695 | £8,445 |
|---|---|---|---|

*with optional additional 290mm focal length lens (110x110 work area when using included 160mm focal length lens)



Optional accessories:

- Automated tilting rotary device for engraving cylindrical objects
- Additional lens to increase marking area to 200mm x 200mm
- Filtered fume extraction



**Lightburn laser software supplied as standard**
(Windows, MAC & Linux OS compatible)

## Included features:

- Lightburn laser software, compatible with Windows, Mac and Linux OS, allowing easy import of AI, PDF, SVG, JPEG, BMP, DXF and more
- Ability to mark logos, vector graphics and photographs
- QR code, bar code and sequential number marking capability
- Motor driven Z axis adjustment with digital focus height readout
- Dual red dot focusing system for quicker positioning
- Drilled and tapped machine bed for part location and jig customisation
- Operator cycle start foot operated switch
- Fully enclosed cabinet with CE marked failsafe door guard swithces
- 12 months warranty (excluding consumable items such as extraction filters)



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