

## M-Series 6-in-1 Fibre & CO<sub>2</sub> Laser System

The ultimate laser system, offering you 6 powerful operations in one compact machine, including: CNC fibre laser cutting, fibre laser welding, metal rust removal & cleaning, handheld fibre laser cutting, CO<sub>2</sub> laser cutting and CO<sub>2</sub> laser engraving.

By eliminating the need for multiple machines, slashing costs with 5x faster welding and delivering razor-sharp 0.02mm precision, the M-series makes high-performance laser processing of multiple materials more affordable and accessible than ever!



### Fibre laser cutting, welding and cleaning

Mild steel  
Stainless steel  
Aluminium  
Brass  
Zintec  
Galvanised steel  
and more...

### CO<sub>2</sub> laser cutting and engraving

Plywood  
MDF  
Acrylic  
Leather  
Slate  
Paper  
and more...

## M3 Pro

## M3 Ultra

Laser type	Fiber Laser + CO <sup>2</sup> Laser	Fiber Laser + CO <sup>2</sup> Laser
Laser Power	1,200w Fiber Laser + 80w CO <sup>2</sup> Laser	1,200w Fiber Laser + 130w CO <sup>2</sup> Laser
Functions	Welding / Cutting / Rust Removal & Cleaning / CNC Metal Cutting / CO <sup>2</sup> Cutting / CO <sup>2</sup> Engraving	Welding / Cutting / Rust Removal & Cleaning / CNC Metal Cutting / CO <sup>2</sup> Cutting / CO <sup>2</sup> Engraving
Welding Thickness	0.2 - 5 mm	0.2 - 5 mm
Cutting Thickness	Up to 10mm with 1,200W Fiber Laser Source / Up to 20mm with 80W CO <sup>2</sup> Laser Tube	Up to 10mm with 1,200w Fiber Laser Source / Up to 25mm with 130w CO <sup>2</sup> Laser Tube
Working Area	620mm x 620mm	1380mm x 920mm
Max Working Speed	600mm/sec	800mm/sec
Positional Accuracy (x/y)	±0.02 mm	±0.02 mm
Maximum Acceleration	0.6G	1G
X-axis Travel	760mm	1450mm
Y-axis Travel	620mm	960mm
Z-axis Travel	50mm	60mm
Laser Safety Class	Class 4 (class 1 enclosure when using as a gantry based system)	Class 4 (class 1 enclosure when using as a gantry based system)
Power Requirements	220V 1ph @ 24A	220V 1ph @ 24A
Wavelength	1,080 ± 10 nm	1,080 ± 10 nm
Assist Gas	*Oxygen / Nitrogen / Argon	*Oxygen / Nitrogen / Argon
Cooling Method	Air Cooling & Water Cooling	Air Cooling & Water Cooling
Machine Dimensions	620mm x 355mm x 610mm + 1250mm x 980mm x 950mm	620mm x 355mm x 610mm + 2185mm x 1780mm x 1100mm
Machine Weight	300kg	610kg
Cable Length	8m	8m

Prices from (excl VAT) £12,395

£13,995

\*A supply of assist gas is required to cut, weld and clean mild steel, stainless steel & aluminium (no gas is required for non-metal cutting & engraving)



### Included as standard

- Windows software and drivers
- Pre-configured and fully editable material library
- Auto-focus cutting head
- Capacitive height control
- Integrated red dot pointer
- Integrated cooling system
- Air assist, including integrated compressor
- Removable slats for supporting material
- 12 months parts and labour warranty (UK mainland only. Excluding consumable items)
- Unlimited technical support

### Optional extras

- Filtered extraction system, with separate spark arrestor unit
- Exhaust to atmosphere cowl
- Rotary attachment for cylindrical cutting & engraving
- Welding helmet
- High pressure compressor for metal cutting without oxygen or nitrogen
- On-site training

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