BFL2010 Fibre Metal Cutting Laser

A range of metal cutting fibre laser systems built to Boxford specifications. Our high precision metal cutting fibre lasers are ideally suited to all kinds of training, prototyping and low to medium volume manufacturing applications.



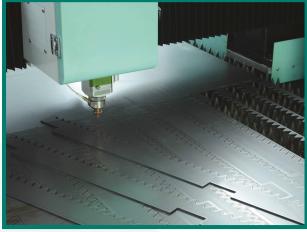
Boxford Fibre metal cutting lasers include:

- Fully enclosed system for optimal fume and debris management
- Rigid construction and motion system incorporating high quality Taiwanese linear guide rails and racks, together with Japanese servo drives, allowing speeds of up to 40 metres per minute to be achieved
- Integrated PC control system
- Automatic head focus system for automatically adjusting focal length
- Automatic capacitive height control system for optimal cutting
- Integrated red dot beam pointer for plate location/orientation and program dry run
- Superior fibre laser with up to 100,000 hours life span
- Integrated cutting table with removable slats and material recovery tray
- Optional Boxford supplied extraction system, which is IFA certified and meets the highest testing level (W3), facilitating the extraction of fumes from high alloy steels with over 30% chromium and nickel content

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Materials which can be fibre laser processed:

Mild steel
Stainless steel
Aluminium
Anodised aluminium
Zintec
Galvanised steel
Brass
Shim steel
and more...





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	BFL2010 1.5kw	BFL2010 2kw	BFL2010 3kw
Cutting area (mm)	2000x1000	2000x1000	2000x1000
Z axis travel (mm)	100	100	100
Laser power source	1.5kw	2kw	3kw
Laser type	Fibre 1070nm WL	Fibre 1070nm WL	Fibre 1070nm WL
Integrated laser cooling system	Water chiller	Water chiller	Water chiller
Focus system	Auto Focus	Auto Focus	Auto Focus
Cutting thickness (mm)	12mm mild steel ¹ 5mm stainless ² 3mm mild steel ³ 2mm stainless ³ 3mm aluminium ²	15mm mild steel ¹ 6mm stainless ² 4mm mild steel ³ 3mm stainless ³ 4mm aluminium ²	18mm mild steel ¹ 8mm stainless ² 4mm mild steel ³ 3mm stainless ³ 6mm aluminium ²
May outting around	40m/min	40m/min	40m/min
Max cutting speed Max acceleration	0.5G	0.5G	0.5G
Location precision (mm)	<0.01	<0.01	<0.01
Optics	<0.373mrad beam	<0.373mrad beam	<0.373mrad beam
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Machine weight	1500 kg	1825 kg	2150 kg
Dimensions (w x d x h mm)	2100x3400x1850	2100x3400x1850	2100x3400x1850
Mounting	Floor Class 2 closed	Floor Class 2 closed	Floor Class 2 closed
Safety	configuration	configuration	configuration
Operating modes	Cutting	Cutting	Cutting
Compressed air	Surface etching 6.0 bar @ 420 l/min	Surface etching	Surface etching
requirements	Low pressure compressed air cutting - 6.9 bar @ 650 l/min		
Overall footprint (with extract &	High pressure compressed air cutting - 18 bar @ 1100 l/min Extractor at side - 3100x3400mm Extractor at rear - 2100x4400mm		
ducting) Power requirements	380V 3nh @ 32A	380V 3nh @ 32A	380V 3nh @ 32A
rower requirements	380V 3ph @ 32A	380V 3ph @ 32A	380V 3ph @ 32A

¹ with oxygen gas

² with nitrogen gas

³ with 6 bar compressed air



Included accessories:

- · Auto focus laser head as standard
- Wireless operator keypad
- · Wireless keyboard and mouse
- · Pull out table to assist with sheet loading
- · Chiller based laser source cooling system
- Full day on-site UK mainland training
- Warranty 2 years (excluding consumable items such as: cutting tips, lens protective glass, support slats and extraction filters)



Optional accessories:

- Bespoke downdraught fume extraction/ air filtration system
- Stand alone compressor for facilitating low pressure non-gas cutting and extraction
- High pressure compressor for non-gas cutting of thick materials
- Additional cutting head consumables (cutting tips, lens protective glass, etc)
- Set of replacement filters for extraction/ air filtration system

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