

BOXFORD BFL2010 FIBRE METAL CUTTING LASER



INCLUDED ACCESSORIES

- Auto focus laser head as standard.
- Wireless operator keyboard.
- 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.

DESCRIPTION

The Boxford BFL2010 Fibre Metal Cutting Laser is a range of metal cutting fibre laser systems built to Boxford specifications.

The high precision metal cutting fibre lasers are ideally suited to all kinds of training, prototyping and low to medium volume manufacturing applications.

MATERIALS WHICH CAN BE FIBRE LASER PROCESSED

- Mild Steel
- Stainless Steel
- Aluminium
- Anodised Aluminium
- Zintec
- Galvanised Steel
- Brass
- Shim Steel

SUPPLIED WITH

- 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.

BOXFORD EXTRACTOR



AES OFFER INSTALLATION AND SERVICE SUPPORT FOR ALL EQUIPMENT

BOXFORD BFL2010 FIBRE METAL CUTTING LASER

TECHNICAL SPECIFICATION

	BFL2010 1.5 kW	BFL2010 2 kW	BFL2010 3 kW
Cutting Area	2000 x 1000 mm	2000 x 1000 mm	2000 x 1000 mm
Z Axis Travel	100 mm	100 mm	100 mm
Laser Power Source	1.5 kW	2 kW	3 kW
Laser Type	Fibre 1070 nm WL	Fibre 1070 nm WL	Fibre 1070 nm WL
Integrated Laser Cooling System	Water Chiller	Water Chiller	Water Chiller
Focus System	Auto Focus	Auto Focus	Auto Focus
Cutting Thickness	12 mm mild steel (with oxygen gas) 5 mm stainless (with nitrogen gas) 3 mm mild steel (with 6 bar compressed air) 2 mm stainless (with 6 bar compressed air) 3 mm aluminium (with nitrogen gas)	15 mm mild steel (with oxygen gas) 6 mm stainless (with nitrogen gas) 4 mm mild steel (with 6 bar compressed air) 3 mm stainless (with 6 bar compressed air) 4 mm aluminium (with nitrogen gas)	18 mm mild steel (with oxygen gas) 8 mm stainless (with nitrogen gas) 4 mm mild steel (with 6 bar compressed air) 3 mm stainless (with 6 bar compressed air) 6 mm aluminium (with nitrogen gas)
Max Cutting Speed	40 m/min	40 m/min	40 m/min
Max Acceleration	0.5G	0.5G	0.5G
Location Precision	<0.01 mm	<0.01 mm	<0.01 mm
Optics	<0.373 mrad beam	<0.373 mrad beam	<0.373 mrad beam
Machine Weight	1500 kg	1825 kg	2150 kg
Dimensions (L x W x H)	2100 x 3400 x 1850 mm	2100 x 3400 x 1850 mm	2100 x 3400 x 1850 mm
Mounting Safety	Floor Class 2 Closed	Floor Class 2 Closed	Floor Class 2 Closed
Operating Modes	Configuration Cutting	Configuration Cutting	Configuration Cutting
Compressed Air Requirements	Surface etching Extractor only - 6.0 bar @ 420 l/min Low pressure compressed air cutting and extractor - 6.9 bar @ 650 l/min		
Overall Footprint (with extract & ducting)	High pressure compressed air cutting and extractor - 18 bar @ 1100 l/min Extractor at side - 3100 x 3400 mm Extractor at rear - 2100 x 4400 mm		
Power Requirements	380V 3 ph. @ 32A	380V 3 ph. @ 32A	380V 3 ph. @ 32A

AES OFFER INSTALLATION AND SERVICE SUPPORT FOR ALL EQUIPMENT