BFL2513 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 manufacturing, prototyping and training environments.

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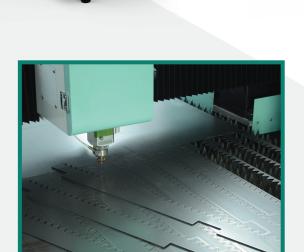


Materials which can be fibre laser processed:

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

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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Laser Power	1.0kw	1.5kw	2kw	3kw	4kw	6kw	
Cutting area (mm)			2500x1300				
Z axis travel (mm)			100				
Laser type			Fibre 1070n	m WL			
Integrated laser							
cooling system			Water chiller				
Focus system			Auto Focus	Auto Focus			
Drive system			Servo motor	Servo motors (Yaskawa, Japan)			
Cutting thickness							
Mild Steel ¹	12mm	14mm	18mm	22mm	25mm	25mm	
Stainless Steel ²	5mm	6mm	8mm	10mm	12mm	14mm	
Mild Steel ³	3mm	4mm	5mm	6mm	6mm	8mm	
Stainless Steel ³	2mm	3mm	4mm	4mm	4mm	5mm	
Aluminium ²	3mm	4mm	6mm	8mm	8mm	12mm	
Max cutting speed			40m/min	40m/min			
Max acceleration			0.5G				
Location precision			< 0.01				
Optics			<0.373mrad	<0.373mrad beam			
Machine bed maximum load			700kg	5			
Machine weight			4115kg				
Dimensions (w x d x h)				4411mm x 2080mm x 2131mm (4360mm deep with table extended)			
Mounting			Floor				
Safety		Class 2 closed configuration					
Operating modes		Cutting / Surface etching					
Compressed air				Extractor only - 6.0 bar @ 420 l/min			
requirements				Low pressure compressed air cutting and extractor - 6.9 bar @ 650 l/min High pressure compressed air cutting and extractor - 18 bar @ 1100 l/min			
				1363mm x 1348mm x 2198mm			
Software							
Preferred file type				.dxf, .plt			
				380V 3ph @ 32A			

¹ with oxygen gas ² with nitrogen gas ³ with 6 bar compressed air

Included as standard:

- Class 1 laser safety enclosure with CE marked safety switches
- · Auto focus laser head
- Intergrated Windows OS computer
- Programming & nesting software
- Wireless operator keypad
- Wireless keyboard and mouse
- Pull out table to assist with sheet loading
- Motorised up/down door
- Chiller based laser source cooling system
- Full day on-site UK mainland training
- Warranty 2 years (excluding consumable items such as nozzles, lenses, 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



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