

3D Laser Cutting Capability!



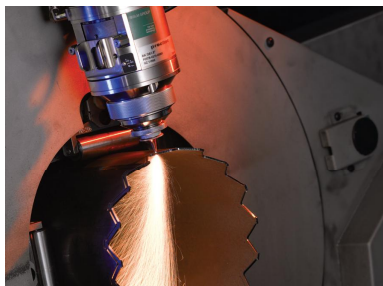
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The WEC Laser division has recently benefitted from substantial investments with the purchase of an Adige LT8 Tube Laser Cutting machine from BLM Group. The new machine adds 3D laser cutting to the company's list of available services

The Tube Laser excels for the highest flexibility and user-friendliness, as well as for top quality and extremely precise laser cutting, on a tube diameter range from 12 to 220 mm and a bar weight up to 35 Kg/m.

Equipped with tilting head, it allows on all sections (open and special profiles included) 3D cut processing. Thanks to the cutting head with tilting axes (3D) bevels and semi-bevels can be performed to simplify the fitting/welding operations of medium/large thickness tubes.

The LT8 is the second laser tube cutting machine from BLM purchased by Laser Engineering UK over the past 12 months and follows a £1.5m investment in new laser machinery for 2010 across our laser division, including a 7KW Trumpf 4m x2m laser cutting machine that now allows the company to cut up to 30mm in stainless and mild steel, and 20mm in aluminium.



TUBE LASER

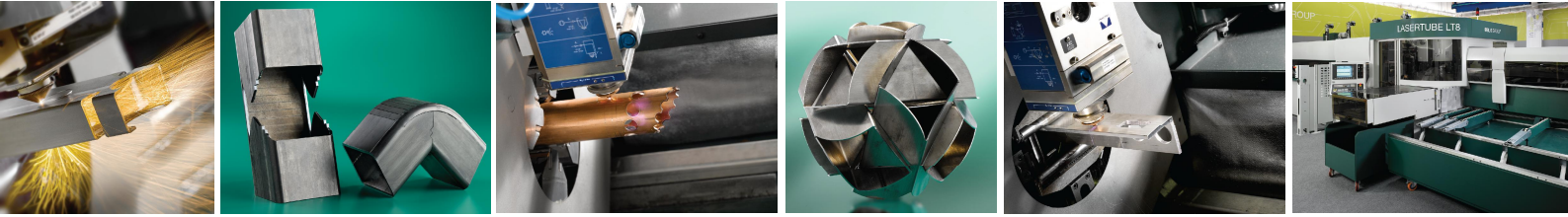
With two state-of-the-art tube laser cutting machines working around the clock, WEC Laser can offer laser cutting of tube, box and most open profiles such as angle and channel with a RotoLas capability that enables laser tube cutting and laser box section cutting up to a maximum envelope size of 414mm, 3m long and 12mm thick.

Our tube laser cutting machines can cut tubes and profiles with large diameters and wall thicknesses without sacrificing productivity no matter how complex it might be.

LASER CUTTING CAPABILITY:

- **Plate and Sheet Laser Cutting:** up to 4000mm x 2000mm
- **Tube Cutting and Box Section:** up to 8.5 meters long (8500mm input, 6500mm output) with a diameter of up to 220mm for tube, (200mm for box section). A wall thickness of 15mm can be achieved
- **3D Laser Cutting:** 3D tilting head
- **Mild Steel Laser Cutting:** up to 30mm thickness
- **Stainless Steel Laser Cutting:** up to 30mm thickness
- **Aluminium Laser Cutting:** up to 20mm thickness
- **CNC Bending and Folding:** capability up to 4m long and 250 tonne

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Tube Laser Specifications

For processing:

Tubes: round, square, rectangle, flat sided oval
Open profiles: angle, flat, channel (not H or I)
Special profiles: feasible but subject to verification

Capacity:

Round: min. 12mm – max. 220mm
Square: min. 12 x 12mm – max. 200 x 200mm
Rectangle and flat oval: any section that can be inscribed within a 285mm circle (with min. side 10mm – max. side 200)
Flats: min. 40 x 5mm – max. 200x 12 (processing care needed on thinner flats)
Angle and channel: min. 30 x 20 – max. 200 x 200mm (ditto)

Material thicknesses:

Mild steel: 15mm, Stainless: 6mm
Aluminium: 5mm, Mild steel with nitrogen: 6mm

Stock length for automatic loading: min. 2,500mm – max. 8,500mm
Maximum bundle loading weight: 5000kgs
Maximum weight per single tube: 35kgs/m
Maximum component length: 6,500mm
Minimum scrap length: 120mm
Laser source: Rofin slab 3.5kw

Capability:

3D tilting head
Open profiles and irregular section
Off-line and on-line nesting
Dual loading systems one to the front and one to the rear of the cutting line (you have a bundle loader at the rear and a step loader. The latter can be utilised for automatic loading of open profiles, sections that cannot be loaded through the bundle loader, prototypes or one-offs, emergency jobs at the front for low volume jobs)
Four unloading areas for cut pieces
Weld seam detection
Pierce booster
Estimating software for approximate cycle time estimation
Part viewer off line simulation for precise cycle time estimation
Direct file import for x_t, step and iges

