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Product Brochure For L78140

# Industrial Sheet Fiber Laser - BODOR C4 CE 3kW

4000 x 2000mm Table

Australian Service and Support



## Please Call

| | |
|---|---|
| ORDER CODE: | L78140 |
| MODEL (Type): | C Series C4-3kW |
| Laser Power (kW): | 3 |
| Cutting Table Capacity (mm): | 4000 x 2000 |
| Tube Size Range: | ~ |
| Max acceleration (G): | 1.5 |
| Positioning accuracy (mm): | ±0.05 |
| Repeatability (mm): | ±0.03 |
| Rapid Traverse (m/min): | 110 |
| Laser Type: | Fiber Laser |
| Laser Source: | BodorPower |
| Laser Head: | BodorGenius |
| Control System: | BodorThinker |
| Transfer Table - Motorised: | Yes |
| Max. Load Capacity Per Table (kg): | 1570 |
| Active Obstacle Avoidance: | Yes |
| One-Click Processing: | Yes |
| Visual Collision Avoidance: | Yes |
| Intelligent Remnant Layout: | Yes |
| Lightning Piercing: | Yes |
| High Speed Cutting Expert Database: | Yes |
| Auto Focus Laser Head: | Yes |
| Anti-Burning Mineral Casting Plate: | Yes |
| Nesting Software: | Yes -Compatible with Tekla |
| Drawing File (Type): | G Code, DXF, DWG |
| Nett Weight (kg): | 7400 |
| Machine Size (mm): | 11388 x 3235 x 2311 |

## Description

The BODOR C Series Fibre Laser Cutting Machine is a high-performance, fully enclosed industrial solution engineered to deliver exceptional cutting precision, and outstanding operational efficiency. Designed for modern metal fabrication environments, the C Series delivers fast cutting speeds, smooth motion control, and superior edge quality across a wide range of materials. Its precision engineered system reduces secondary processing requirements, improving throughput and maximise productivity while maintaining cost-effective operation for workshops and manufacturers.
The fully enclosed, Class 1 safety design with laser protective glass and laser light curtains ensures maximum operator safety while integrated dust and fume extraction points help maintain a safer, cleaner workspace.
Mortise and tenon type plate welded segmented bed, delivering exceptional structural strength and stability for high-precision cutting.
Combined with anti-burning mineral casting materials, this design extends service life and significantly reduces maintenance costs
Speed, precision, and safety combined with local service and support,
the BODOR C Series is an ideal solution to increase productivity and reduce operating costs.

## Features

- Visual collision avoidance - Our intelligent visual collision avoidance technology is able to detect motions and signal warnings to prevent possible collisions. You can select either high or low sensitivity modes to ensure operator's safety, no longer worrying about safety issues
- Active obstacle avoidance system - BodorGenius, Bodor’s intelligent laser head, uses sensors and algorithms to detect potential obstacles like tilting parts and automatically avoids a potential collision. It largely ensures the stability as well as operating efficiency in the cutting process.
- One-click processing Set - up your tasks ahead of time and let C series do the rest. Once the operation begins, C series will automatically complete edge searching, range checking, and cutting one after another. With C series, you can finish batch production easily without any repetitive procedures.
- Anti-burning mineral casting - Bodor's newly developed anti-burning casting material provides numerous advantages in slag removal, operations, and modular design. When in use, material residue automatically separates from the anti-burning plate, largely lowering maintenance costs and offering better durability. Its lightweight structure as well makes it easy to replace.
- Lightning piercing - The technology offers rapid, precise piercing with reduced time. It features monitored processes for efficiency, automatic focus adjustment for seamless piercing, and integration with Bodor Genius. This enables quick piercing in sync with the cutting head's movement, optimizing operations for medium-thick plates without additional time or motion.
- Intelligent remnant layout - To achieve maximum material utilization, all you need to do is uploading pictures of the remnant to the control system with your mobile phone. C series is able to automatically finish positioning as well as nesting. The higher the percentage of utilization, the more economical the process. Enjoy the benefits of significantly increased cost savings.
  Auto Focus - Applicable to various focal lengths, which are controlled by machine tool control system. Focal point will be automatically adjusted in cutting process to achieve the best cutting effect of different thicknesses sheets metal.

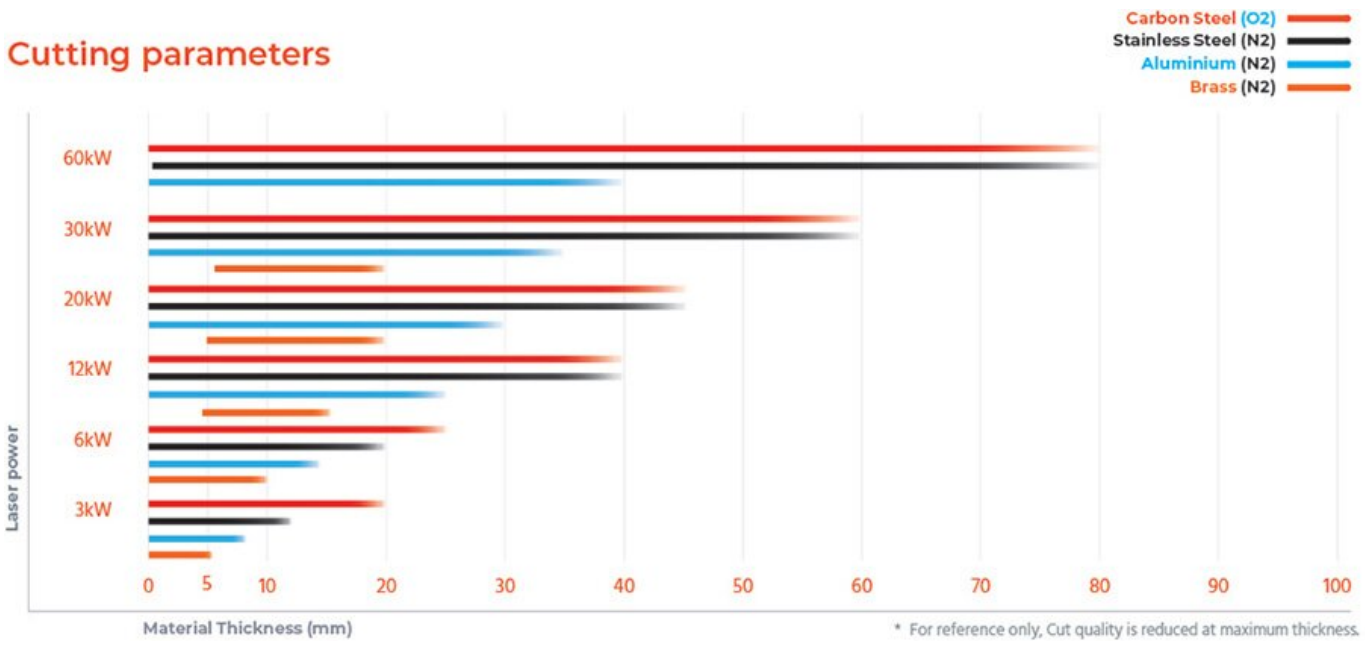
- Nesting software - Auto nest up to 50 individual parts, ensuring maximum efficiency and less waste.

## Includes

- Bodor's Genius: cutting head with programmable motorised lens and Collision Protection
- Bodor Power: is the backbone of any laser cutting system, and BodorPower takes it to the next level. This original laser source is the key to Bodor's high power processing (up to 60kW). It ensures longer lifespans, safer operations, and superior cutting results of every Bodor cutting machine.
- BodorThinker: serves as the intelligent core of Bodor's laser cutting solutions. This control system integrates seamlessly with MES and ERP systems, facilitating automated production process management and information exchange through standardised communication protocols.
- Full Class one laser safety enclosure with door interlocks
- Cutting view camera
- 21" LCD screen
- Local Service and Support
- Oxygen & Nitrogen Regulators with hoses
- *12 month warranty on machine parts & labor
- Commissioning & Testing Included (Metro Areas)
- Comprehensive Operator Training Included (Metro Areas)
- *Five year factory warranty on - Bodor Thinker Control System, Bodor Power Laser Source, Bodor Genius Laser Head.

## Optional Accessories

- MMF-4L - Laser Fume Extraction 5.5kW (W2723)
- Laser Scanning Cutting



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## Specific Features



Side View



Rear View




Anti burning mineral casting plate



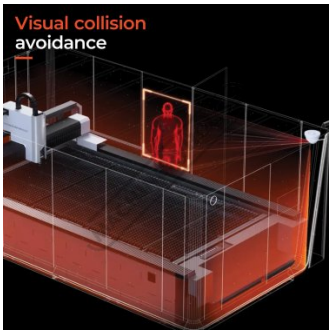

Intelligent remnant layout



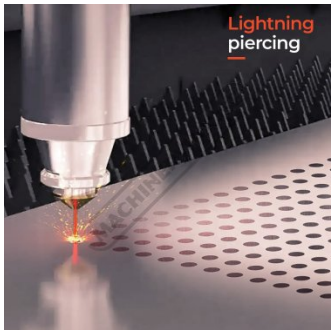

Active obstacle avoidance




One click processing




Visual collision avoidance




Lightning piercing



Modular Tables

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## Recommended Accessories

W2723
Laser Fume Extraction




C5400
High Pressure Rotary Screw Compressor for Fiber Laser Cutting



C5051
Pilot Air Compressor




I8100
3kW Sheet Laser

