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Product Brochure For L78244

Sheet Fiber Laser Cutting - Performance Series - BODOR P4 CE 30kW

4000 x 2000mm Table
Includes Automatic Sheet Exchange Tables



ORDER CODE:	L78244
MODEL:	P series P4-30Kw
Laser Power (kW):	30
Cutting Table Capacity (mm):	4000 x 2000
Max acceleration (G):	4
Positioning accuracy (mm):	±0.05
Repeatability (mm):	±0.02
Compound Rapid speed (m/min):	200
Z axis travel (mm):	350
Laser Type:	Fiber Laser
Laser Source:	BodorPower
Laser Head:	BodorGenius
Control System:	BodorThinker
Transfer Table - Motorised:	Yes
Max. Load Capacity Per Table (kg):	2510
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
One Second Edge Search:	Yes
Automatic Nozzle Change:	Yes 8 Nozzles
Automatic Nozzle Cleaning:	Yes
Anti-Burning Mineral Casting Plate:	Yes
Nesting Software:	Yes -Compatible with Tekla
Drawing File (Type):	G Code, DXF,DWD,PLT,ENG
Water Chiller:	Yes
Bevel Cutting:	Optional
Nett Weight (kg):	8100
Machine Size (mm):	10990 x 3420 x 2400

Description

The Bodor P Series sheet metal laser cutting machines are the epitome of cutting-edge laser technology and outstanding performance. Craftsmanship, automation features, and safety measures have been finely tuned in our P Series to provide an unparalleled cutting experience. High performance for your high efficiency

Features

- Camera edge finding - Camera edge searching ensures rapid material positioning and focus calibration. with an optical camera, the system automatically identifies the material's position and then locates its vertices and angular offset. This visual and algorithmic innovation simplifies operating procedures , largely reducing working time.
- 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.
- Semi-Automatic nozzle changer P series machine can replace nozzles without any human intervention. It also provides automated nozzle cleaning.
- 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 use the top camera or uploading pictures of the remnant to the control system with your mobile phone. P 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.

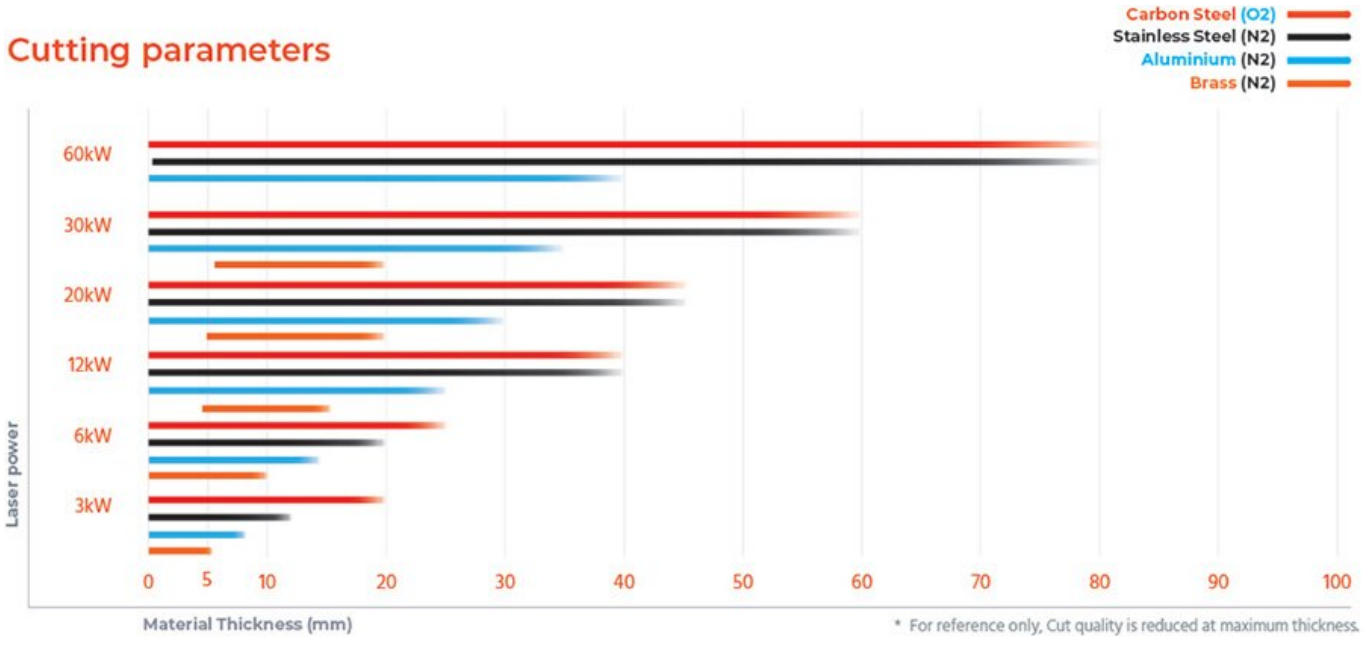
- Nesting software - Auto nest up to 50 individual parts, ensuring maximum efficiency and less waste.

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.
- Semi-Auto nozzle changer
- Full Class one laser safety enclosure with door interlocks
- Cutting view camera
- 21" LCD Touch 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-12L - Laser Fume Extraction 15kW (W2726)
- Bevel Cutting: The bevel cutting option of P series enables the production of high-precision bevel cuts in +/- 45 degrees, optimizing subsequent assembly procedures and welding performance while lowering production. (Available cuts include A-cut bevel, V-cut bevel, Top Y-cut bevel, X-cut bevel, and K-cut bevel) Note: Active anti-collision function , Nozzle changer, lightning perforation, not available with this option
- iTrans Full Automatic Loading and Unloading System



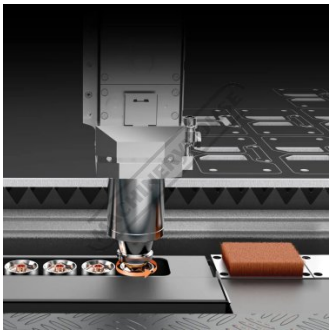
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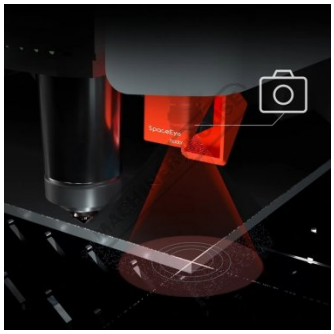
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Specific Features


Machine Side


Machine Inside


Nozzel Change & Cleaning

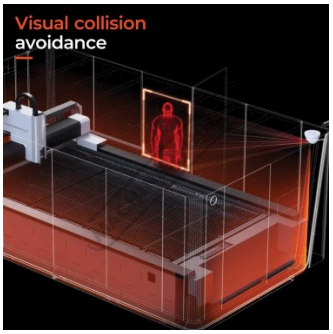

One-second edge finding



Active obstacle avoidance



Intelligent remnant layout



Visual collision avoidance



Anti burning mineral casting plate



One click processing



Lightning piercing


Optional Bevel Cut

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Recommended Accessories

W2726
Laser Fume Extraction



C5401
High Pressure Rotary Screw Compressor for Fiber Laser Cutting



C5051
Pilot Air Compressor

