



## Key Features

- **High Precision:** Advanced Raytools BM110 laser head ensures clean, smooth cuts for intricate designs
- **Powerful Performance:** Equipped with a 1.5 kW Raycus laser source, delivering consistent power for various material thicknesses.
- **Efficient Cooling System:** BLUE PENGUIN chiller ensures the laser source and cutting head maintain optimal temperatures based on environmental conditions.
- **Large Working Area:** A spacious bed size of 1500 mm x 3000 mm accommodates large sheets for diverse applications.
- **Reliable Motion Control:** Delta motors provide precise and stable movement, ensuring consistent cutting accuracy.
- **Enhanced Durability:** SHAC linear guides support heavy loads and provide long-lasting precision.
- **Precision Racks:** YYC racks ensure smooth, accurate, and stable operations.
- **Pneumatic Efficiency:** AIRTAC electronic magnet valves deliver reliable control of pneumatic components.
- **Automatic Focus:** The automatic focus system adjusts seamlessly to different materials and

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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thicknesses, optimizing cutting performance.

- **Advanced Machining:** The machine bed and plates are processed using state-of-the-art German CNC machines for over 72 hours to achieve exceptional accuracy and durability.
- **Auto Lubrication System:** An electrical lubrication system enhances machine longevity and ensures seamless performance.
- **Automatic Exhaust System:** Efficiently manages and removes fumes and debris for a clean working environment.
- **User-Friendly Interface:** Intuitive CNC control system for easy operation and precise customization.
- **Versatility:** Handles a wide range of materials including metals and alloys, ensuring adaptability for various industries.
- **Durable Construction:** Built with high-quality components to ensure long-term reliability and low maintenance.

### Feature Specification

**Laser Power** 1.0 kW (1000 Watts)

**Laser wavelength:** 1064nm

**Bed Size** 1500 mm x 3000 mm

**Cooling Type** Water Cooling

**Chiller** BLUE PENGUIN - Laser source temperature and cutting head control automatically adjusted based on environmental conditions.

**Laser Source** Raycus

**Laser Head** Raytools BM110

**Motor Brand** Delta - High-performance motors ensuring smooth and precise motion control, optimized for fiber laser metal cutting applications.

**Linear Guide** SHAC - Renowned for its durability, high load capacity, and precision, offering seamless operation and long service life.

### Electronic Magnet Valve

AIRTAC - Reliable and efficient, providing precise control for pneumatic systems.

**Focus System** Automatic - Ensures optimal focusing for different material

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thicknesses, enhancing cutting precision and efficiency.

**Rack** YYC - High-quality, durable racks providing excellent stability and precision.

**Bed Weight** 2200 KG

**Bed Teeth** 3.8 mm HEAVY

**Machine Bed and Plates**

Precision-machined on advanced German-made CNC machines, undergoing over 72 hours of continuous processing to ensure high accuracy and stability.

**Cutting Materials** Stainless Steel, Carbon Steel, Aluminum, Brass, and more

**Effective Cutting**

**Thickness** MS: 12 mm, SS: 6 mm, Aluminum: 3 mm, GI: 10 mm

**Cutting Speed** High-speed precision cutting

**Operating Voltage** 220V/380V (Customizable)

**Control System** User-friendly CNC Control Panel

**Positioning Accuracy**  $\pm 0.03$  mm

**Repositioning Accuracy**  $\pm 0.02$  mm

**Support Software** Compatible with industry-standard formats (DXF, PLT, etc.)

**Control Software** Raytools

**Auto Lubrication**

**System** Electrical lubrication system with a robust gear pump, offering optimal performance and complete functionality.

**Automatic Exhaust System** Yes

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