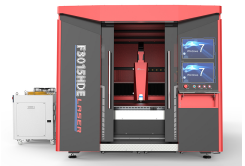
MERHEIN
Technical Datasheet

11 April 2026

3kW Laser Cutting Machine with Pallet Changer

This 3kW laser cutting machine features a pallet changer and a fully enclosed cover for enhanced safety and efficiency. The 3M configuration provides a substantial working area suitable for processing large materials.

ADDITIONAL IMAGES



Overview

High-Performance Fiber Laser Cutting

This 3kW laser cutting machine features a fully enclosed shuttle table and a rapid pallet changer, designed for high-efficiency metal fabrication. Equipped with a standard 3000x1500mm work area and camera monitoring, it ensures both safety and precision during continuous mass production. The climbing track system provides superior stability and consistent cutting accuracy compared to traditional pneumatic exchange platforms.

Technical Capabilities

Performance Metrics

3000 mm	1500 mm	3 kW	9 s
Work Table Length	Work Table Width	Laser Power	Min Exchange Time

Compatible Materials	Stainless Steel, Carbon Steel, Manganese Steel, Brass, Galvanized Plate, Aluminum Alloy

Machine Construction

Build Quality

- Aviation-grade aluminum extrusion crossbeam
- Industrial fabricated sheet metal structure
- Annealing and aging treatment for stress relief
- Precision CNC milling of structural components
- Double-drive 6-track crawling system

Safety & Operation

Safety & Monitoring

Fully Enclosed Table • Camera Monitoring • Europe Standard Safety • Dual-Screen Interface

Components

Integrated Components

System	Component Type
Motion Control	Servo Motors (Schneider/Yaskawa/Panasonic)
Transmission	Rack and Pinion
Gas Control	SMC Gas Control System
Cutting Head	Automatic Cutting Head
Operating System	Windows-based Interface

Service & Warranty

On-Site Support

Comprehensive on-site installation and operator training are provided over a period of 8-13 days. The buyer is responsible for technician travel expenses including round-trip airfare, local transportation, and accommodation.

Standard Warranty	One year for the whole machine (excluding consumables like nozzles and lenses)