

Stainless Steel Laser Cutting Equipment

This equipment is designed for high-precision laser cutting of stainless steel. Its advanced design ensures fast speed, a small heat-affected zone, and good dimension stability.



Overview

High-Precision YAG Laser Cutting System

This industrial-grade YAG laser cutting machine is engineered for precision processing of various metal sheets, including stainless steel, carbon steel, and aluminum. With a robust 620W output and a generous processing area of 4100mm x 1500mm, it is ideal for diverse applications ranging from mechanical parts and electrical components to intricate crafts and advertising signage. The system ensures high-quality results with a minimum line width of 0.2mm and advanced geometric positioning accuracy.

Performance Metrics

Key Performance Indicators

620 W

Max Output Power

8 m/min

Max Cutting Speed

8 mm

Max Cutting Thickness

Technical Specifications

| | |
|--------------------------|-----------------|
| Model | TQL-LCY620-4115 |
| Processing Scale (L x W) | 4100mm x 1500mm |
| Laser Wavelength | 1064 nm |
| Pulse Frequency | 1-300 HZ |
| Minimum Line Width | 0.2 mm |

Precision & Accuracy

| | |
|--------------------------------|---|
| Geometric Positioning Accuracy | $d \pm 0.05 \text{ mm} / 1000 \text{ mm}$ |
| Re-orientation Accuracy | $d \pm 0.05 \text{ mm}$ |

Electrical & Cooling

| | |
|-------------------|------------------|
| Electrical Source | 380V/50HZ/100A |
| Cooling System | 7P water-cooling |

Physical Properties

| | |
|----------------|---------|
| Machine Weight | 4200 kg |
|----------------|---------|

Applications

Common Industry Applications

- Saw Blades
- Mechanical Parts
- Electrical Equipment Components
- Electric Cabinets
- Textile Machinery
- Billboards
- Automobile Parts
- Cooking Utensils
- Hardware
- Crafts
- Spectacle Frames
- Jewelry (Earrings/Rings)
- Advertising Letters

Applicable Materials

Stainless Steel, Carbon Steel, Alloy, Aluminum