

# 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	$d \pm 0.06 \text{ mm} / 1000 \text{ mm}$
Re-orientation Accuracy	$d \pm 0.04 \text{ mm}$

## Electrical & Cooling

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

## Physical Properties

Machine Weight	4200 kg
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## 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