

Jewelry Laser Welding System with Microscope

This laser welding system uses an England-imported ceramic cavity. It is designed with eye protection and requires no maintenance in 10,000 hours.



Overview

Precision Jewelry Laser Welding System

This advanced laser welding system is engineered for high-precision jewelry manufacturing and repair tasks. Featuring a wide range of adjustable power, pulse width, and frequency settings, it delivers exceptional welding quality on precious metals like gold, silver, platinum, stainless steel, and titanium. Designed with operator comfort in mind, the system includes an integrated microscope and robust cooling, ensuring stable, maintenance-free operation for up to 10,000 hours.

Technical Specifications

Key Performance Metrics

150 W Max Laser Power	1064 nm Wavelength	50 Hz Pulse Frequency
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Welding Capabilities

Parameter	Value/Range
Minimal Weld Puddle	0.1mm
Spot Size Range	0.2 - 3.0mm
Pulse Width	d20ns
Protective Gas	Argon

System Details

Dimensions

- Laser optical system: 1000 x 480 x 1080mm
- Water cooling system: 400 x 350 x 880mm

Power & Electrical	220V / 50Hz / 20A (6KW Power Supply)
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Features

System Advantages

24-Hour Continuous Operation • Maintenance-Free (10,000 hrs) • Advanced Eye Protection • High-Temperature Ceramic Cavity

Compatible Materials	Gold, Silver, Platinum, Stainless Steel, Titanium
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