

STJW-200



**Precision Welding for
Modern Jewellery Craftsmanship**

STJW-200 Jewellery Welding Machine

Precision Welding for Modern Jewellery Craftsmanship

STJW-200, the latest innovation by **STPL**, is a state-of-the-art laser welding solution designed specifically for the jewellery industry. Powered by advanced **Nd:YAG laser technology**, the STJW-200 delivers unmatched precision, power, and performance for delicate and intricate welding tasks. Whether it's fine repair, complex joint welding, or creating new masterpieces, this compact and powerful machine ensures seamless results with minimal thermal impact — making it the ultimate choice for jewellers who demand excellence.

Key Features



High-Reflective Gold Pump Chamber:

Optimizes laser performance for consistent output.



Ergonomic Microscope Design:

Angled for operator comfort and extended usage.



German-Imported Lamp:

Ensures longer lifespan and high reliability.



16 Configurable Pulse Shaping Programs:

Suitable for different metals and applications.



Dual Channel Air Delivery System:

Enhances weld quality with precise airflow.



Air-Integrated Foot Pedal:

Hands-free operation synchronized with laser firing.



Built-In Powerful Chiller:

Supports 24/7 non-stop operation without overheating.



Integrated Gas Pressure Control:
Easy regulation of Air & Argon for clean welds.



Fully Enclosed Welding Chamber:
Ensures safety and minimizes material waste.



User-Friendly 7" Touchscreen Interface:
Simple controls for efficient welding.

Applications



Gold, Silver and
Platinum Jewellery Welding



Intricate Joining Stone Setting
and Assembly



Chain Repairs and
Intricate Joining



Custom Jewellery
Manufacturing

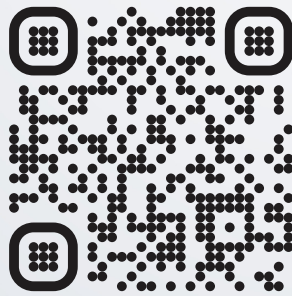
Technical Specifications

Machine Parameters	Details
Laser Type Nd	Nd:YAG (Flashlamp)
Laser Wavelength	1064 nm
Laser Class	Class 4
Maximum Average Power	200 W
Maximum Peak Power	2.5 kW
Pulse Duration	0.1 – 20 ms
Pulse Frequency	1 – 25 Hz
Maximum Pulse Energy	Up to 50 J
Spot Diameter	0.2 – 3 mm (0.1 mm optional)
Cooling Type	Water Cooled
Wave Programs	Pulse Shaping
Vision System	Microscope / CCD (Optional)
Internal Laser Control	Joystick
External Control	7" Color Touch Screen
Maximum Gas Pressure	7 bar
Power Supply	230 VAC, 50 Hz, 7 KW
Weight	150 Kg
Dimensions (L x W x H)	950 mm x 492 mm x 1260 mm

Having Customer Base in More Than
30+ Countries & 5 Continents



India | Botswana | Brazil | Cambodia | China | Dubai | Ghana
Hong Kong | Indonesia | Japan | Laos | Mauritius | Romania
Russia | Singapore | South Africa | South Korea | Spain
Sri Lanka | Switzerland | Taiwan | Thailand | Turkey
United States | Vietnam | Zimbabwe



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