

ROCI WELD

Hand Held Laser Welding Machine



Vision

Our Vision is to build an organisation which will be seen as a reliable source of welding and cutting equipments.

Mission

Warpp Engineers Pvt. Ltd. is the business of manufacturing and marketing welding and cutting equipments. Our mission is to keep improving & upgrading the products and services, thereby providing effective solutions to customers.



LASER is a single-wavelength light, unlike normal light with many wavelengths. The laser beam provides a concentrated heat source that can be used for many applications like welding, cutting, cleaning, etc

ROCI WELD series laser welding machines are laser beam welding machines that are very simple to use and perform cutting and cleaning operation along with welding. These machines come with built-in water chilling unit and external cold wire feeders.

Advantages of Laser Beam Welding

- Narrow Heat Affected Zone(HAZ)
- Precision Welds
- Low heat input
- Low energy consumption
- High strength welds
- Suitable for open-air use
- Capable of welding dissimilar metals
- Much faster welds when compared with TIG (4 times faster)
- Excellent weld finish with minimal need for post-weld cleaning
- Easy to operate
- Can transmit over long distances with minimal power loss

Power source



- Easy to use
- Highly reliable MAX Photonics power source
- Water-cooled torch for extended duty cycle
- Auto beam cutoff protection when the torch is moved away from the workpiece
- Lightweight torch with Back Reflection Protection technology to prevent damage to optical components
- Isolated optoelectronic module design for easy integration
- Superior beam quality and stability
- Compact and maintenance-free design
- Exceptional material processing performance
- High-quality triple-clad fiber for longer cable life
- Specially designed lasers with optimal core diameters for welding applications

Wire Feeding Unit



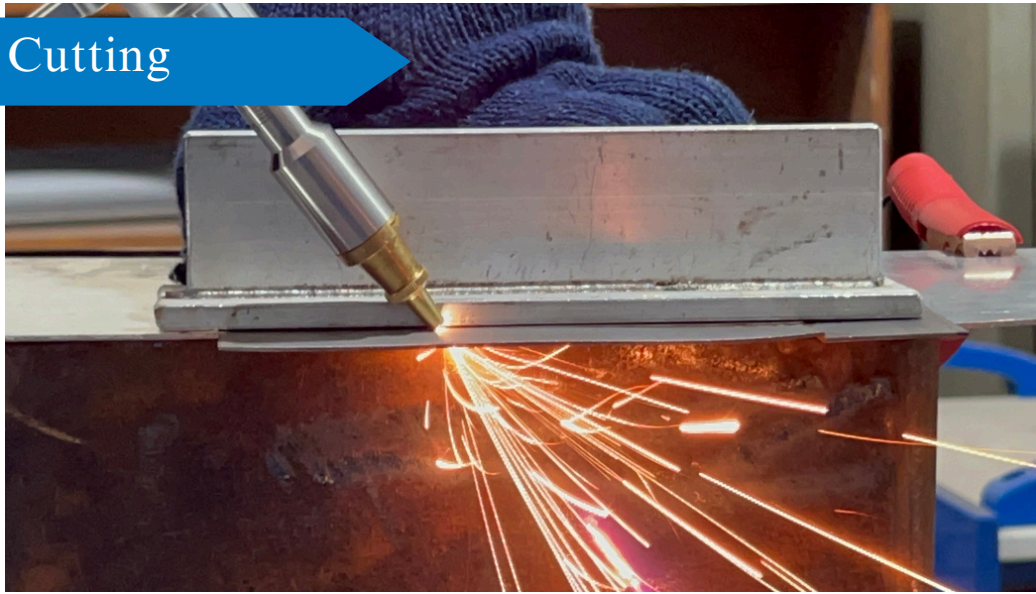
- Digital display for parameter with preset function
- Adjustable Wire feed rate
- Wire Retract function

Hand Held Torch



- Light Weight
- Water cooled for continuous operation
- Red beam for seam tracking

Cutting

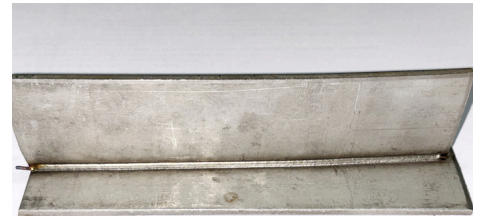


Welding

CS



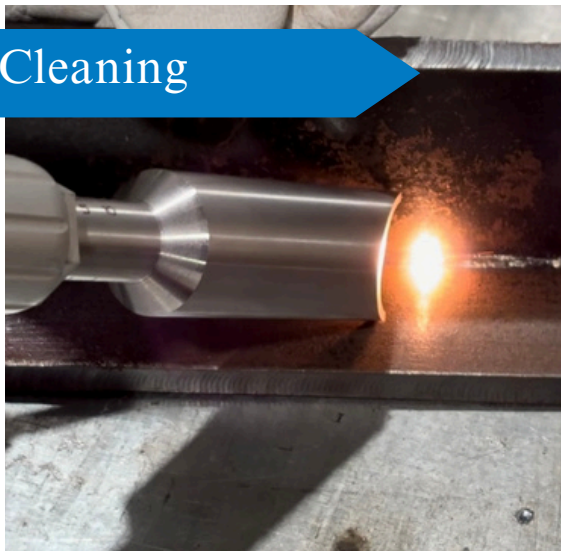
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Cleaning



Application Industry

- Automotive Industry
- Decorative Industry
- Signboard Manufacturer
- Furniture Equipment Manufacturer
- Pharmaceuticals
- Sheet Metal Industry
- Weld Overlay

Scope of supply



- LASER Power source with chiller
- Hand-held torch with 10-meter-long fiber cable
- Wire feeding unit with wire feed liner
- A Starter kit consisting of consumables for cutting, welding, and cleaning, extra lenses, lens cleaning buds, and a spanner set
- Laser goggles and a pair of gloves
- Nitrogen regulator with flowmeter

Technical Specifications

Machine Model	ROCI WELD 1500	ROCI WELD 2000	ROCI WELD 3000
Input Supply	220 Volts Single Phase 50 Hz supply		
Laser Power (Watts)	1500	2000	3000
Controller	PLC with Touch screen HMI		
Beam Wobbling	5mm		
Fibre Cable Length	10 meters		
Tracking method	Red Beam		
Protection	Thermal overload, water loss and Back Reflection Protection		
Chiller capacity	1.5 TR	2 TR	3TR
Temperature range	0 ~ 40°C		
Wire Feed rate	10 ~ 100 cm/min		
Welding thickness in CS	≤4mm	≤6mm	≤8mm
Welding thickness in SS	≤4mm	≤6mm	≤8mm
Welding thickness in AL	≤1.5mm	≤2mm	≤3mm

Note: Specifications are subjected to change without notice



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