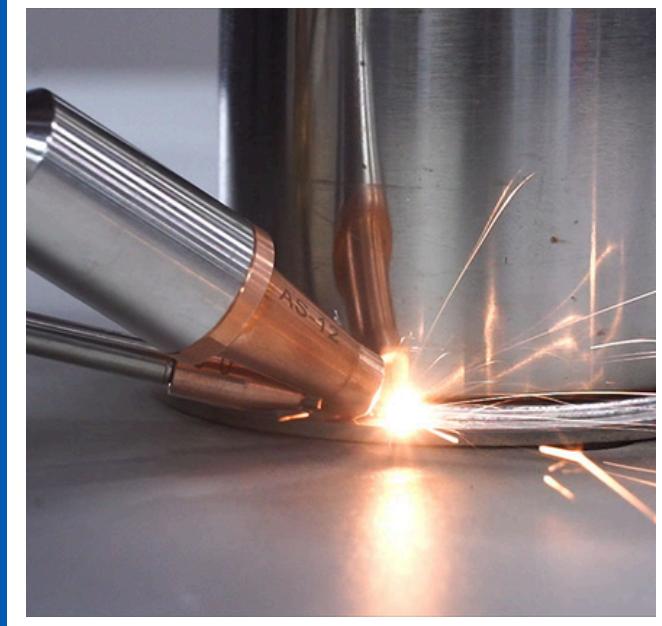
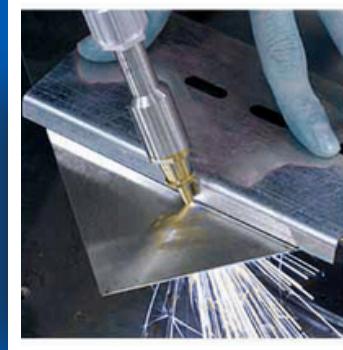


AW 4-IN-1 LASER WELDING MACHINE



Design Features

- **Lightweight Handheld Laser Head:** Weighing just 0.75kg (or under 1kg), this makes it more flexible and convenient to use, offering comfortable handling.
- **Red Light Aiming Assistance:** Helps improve processing precision by ensuring accurate alignment with the target area.
- **Interchangeable Copper Nozzles and Lenses:** Allows users to switch between different lens specifications for a variety of applications. The weld seam cleaning width reaches 10mm, with a 120mm rust removal width, and is ideal for cutting sheets 1-3mm thick.
- **Automatic Gas Control System:** Ensures precise gas flow control during welding to improve weld quality.
- **Efficient and Stable Laser Generator:** Guarantees stable output power, ensuring consistent welding speed and high-quality results.
- **Built-in Water Chiller:** Provides efficient cooling, maintaining the machine at optimal working temperatures.
- **10m Flexible Fiber Optic Cable:** Overcomes workspace constraints, enabling outdoor and long-distance welding.
- **Fully Automatic Wire Feeder:** Supports welding wire diameters from 0.8mm to 1.6mm, expanding the material range for welding. Simply switch to the wire-feeding nozzle for wire-fed welding.



4-IN-1 FUNCTIONS



Laser Welding

High-precision welding for thin to medium thickness materials with minimal heat affected zone.

- Butt welding, overlap welding, fillet welding
- Continuous and pulse welding modes
- Automatic wire feeding system

Laser Cleaning

Environmentally friendly surface cleaning without chemicals or abrasives.

- Rust and paint removal
- Surface preparation for welding
- No consumables required



Welding

Laser Cutting

Clean, precise cutting for various materials with smooth edge finish.

- Straight and contour cutting
- No mechanical contact
- Minimal material waste

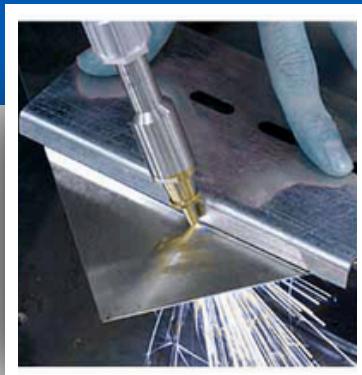
Laser Cladding

Surface enhancement and repair through precise material deposition.

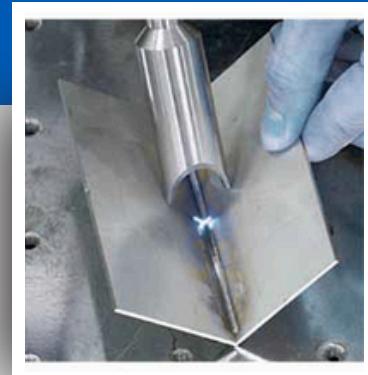
- Wear resistance improvement
- Corrosion protection
- Component repair and restoration



Cutting



Cleaning



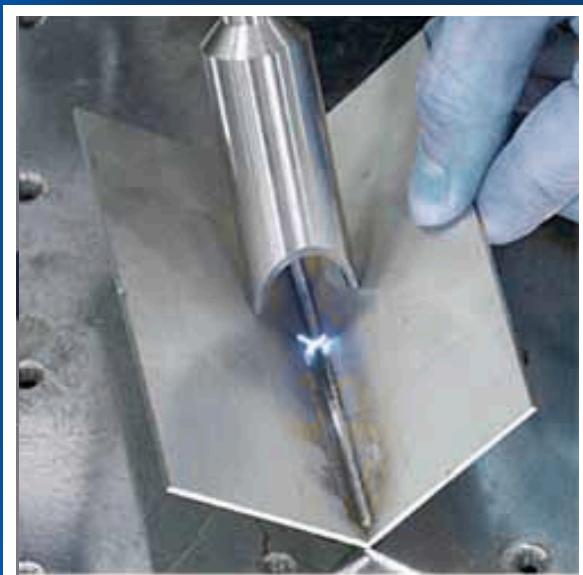
Cladding





TECHNICAL SPECIFICATIONS

Laser Power	1000W-2000W
Welding Speed	0.1-10m/min
Welding Thickness	0.1-6mm
Beam Quality	$M^2 < 1.8$
Wavelength	1070nm
Cooling System	Water Cooling
Power Consumption	3000W
Working Area	600x400x200mm
Positioning Accuracy	$\pm 0.02\text{mm}$
Operating Temperature	10-40°C
Humidity	<85%
Power Supply	380V/50Hz
Weight	85kg
Dimensions	800x600x1200mm





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INDIA'S BEST MANUFACTURER OF FIBER LASER CUTTING MACHINES



Sheet Cutting



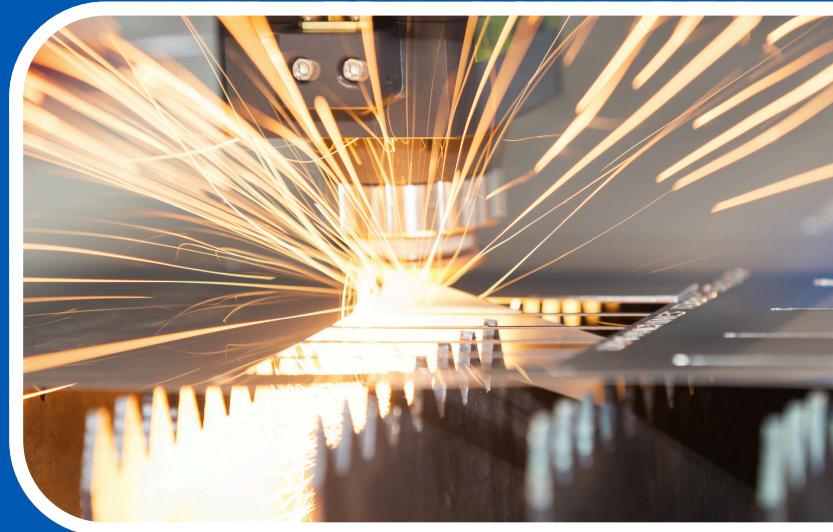
Tube Cutting



Laser Welding



QBH Splicing



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