

Handheld Laser Welding System

ATW Laser 1200

Laser welding is a very precise and efficient process, and it is often used in the manufacturing of medical devices, automotive parts, and other precision components. Laser welding is also used in the repair of delicate components, such as jewelry and watches.

Features and Benefits

- **Man-machine interface**
 - › 3 welding modes: continuous, pulse, and spot welding
 - › Graphic UI, concise and easy to understand
 - › Single knob to achieve adjusting common parameters, convenient and quick
 - › JOB function, user can save and recall 100 sets of welding programs
 - **Self-developed control system:** The host machine and wire feeder work synergically to realize optimal matching; the host machine and wire feeder can synchronously control the wire feeding speed and power
 - **Stable wire feeding:** 4-roll wire feeding mechanism with encoder feedback to achieve stable wire feeding, automatic wire breaking and without sticking
 - **Welding process:** The synergic control technology for laser power and wobbling is to realize the welding process for the situation where there is a plate thickness difference between thin and thick plates
 - **Protection mechanism:** gas shortage detection and protection, prevent the protective lens from suffering burning loss due to gas shortage; double safe operation protections of laser enabling and work-sense clamp; temperature and other protections of laser, to avoid too-high temperature
 - **Intelligent heat dissipation:** The 3D phase-changing heat dissipation technology makes the fan intelligently change its rotation speed, so as to realize stable running for a long time
- The ergonomically designed handheld welding torch is light in weight. Welders won't feel tired during the welding process.



Technical Specification

	ATWLaser1200
Rated input voltage/frequency (V /Hz)	1 phase, AC220V±10%, 50Hz
Input power of overall machine (KW)	3.6
Rated input current (A)	16
Laser output power (W)	100-1200
Laser cooling	Intelligent air cooling
Cable length (M)	5(standard configuration)
Welding mode	Continuous, Pulse, Spot welding
Laser center wavelength	1070+10 or 1080+10
Pulse frequency (Hz)	1-5000
Duty cycle of pulse (%)	10-90
Shielding gas	Argon, Nitrogen, Helium, etc. > 15 L /min
Max laser wobbling width (mm)	5
Dimension (mm)	660*330*640
Range of wire feeding speed (m/min)	0.30-6.00
Weight (kg/lb)	50 /110