Laser Welding Solution ▸ Industry-Specific Welding Machine Series

Air-Conditioning Pipeline Laser Welding Machine

Penta Laser Air-Conditioning Pipeline Laser Welding Machine, featuring modularity, high efficiency, and reliability, is ideally suited for large-scale manufacturing environments with stringent requirements for production takt, space utilization, and digital management.



Characteristics

- One laser source supports multiple workstations in a compact, space-saving layout.
- Dual-station switching enhances processing efficiency.
- Multiple inspection methods ensure high welding qualification rates.
- Custom optical system ensures reliable welding of highly reflective materials.
- MES-compatible for real-time parameter monitoring and full digital process management.

Technical Parameters

Model	CJ 0303
Equipment Dimensions(mm)	2800 × 1320 × 2800
Air Supply(MPa)	0.3 - 0.5
Power Supply(Hz)	380VAC 50
Laser Type	FFRC - H, FFRC - SM, FFRQ, FFSC
Laser Power(W)	2000 ~ 6000
Welding Head Type	Collimating and Focusing Welding Head
Welding Dimensions(mm)	10 - 18 (Round Pipe)

Applications



Automobile Air Conditioning Pipe



Household Air Conditioning Pipe



Industrial Refrigeration Equipment Piping