

YN-D206-G 6000W High-Power Split-Type Ultrasonic Metal Welding Machine D-Series High-Voltage Wire Harness Copper-Aluminum Terminal Welding



YN-D206-G

Product Overview

Specifications

Parameter	Specification
Input Voltage	220V
Operating Frequency	20KHz
Output Power	6000W (Optional: 2000W/4000W/6000W/8000W/12000W)
Welding Area	15-50mm²
Machine Dimensions	1400×760×2000mm
Machine Weight	192KG
Applicable Metals	Copper, Aluminum, and Dissimilar Metals

Product Features

- **6000W High-Power Output** : Covers a welding area of 15-50mm², meeting high-strength operation requirements such as high-voltage wiring harnesses and large-section copper-aluminum terminals, significantly improving production line efficiency.
- **Digital Control System** : Precisely adjusts welding parameters (time, energy, amplitude, etc.), monitors welding quality in real-time, effectively increasing yield rate and reducing scrap rate.
- **Heavy-Duty Structural Design** : The machine weighs 192kg, paired with a high-rigidity frame, ensuring stable and reliable operation with minimal vibration deviation, guaranteeing welding consistency.
- **Flexible Multi-Power Options** : Supports power module expansion from 2000W to 12000W, allowing flexible upgrades based on production scale, avoiding equipment idle waste.
- **Dissimilar Metal Welding Capability** : Compatible with welding copper, aluminum, and copper-aluminum dissimilar metals without additional pretreatment, reducing raw material procurement costs.
- **Optimized for High-Voltage Wiring Harnesses** : Designed for high-reliability electrical connection scenarios such as automotive and aerospace, achieving low-resistance, high-strength termination processes.

Applications

- **New Energy Lithium Battery Production Lines**
es : Welding of power battery tabs, module busbars, and energy storage battery pack assemblies, with weld resistance $\leq 100\mu\Omega$, backed by extensive daily production line experience.
- **Automotive Wiring Harnesses and Connectors**
rs : Welding of high-voltage wiring harness terminals, motor lead wires, and IGBT modules, replacing traditional crimping, reducing contact resistance by over 60%.
- **Copper-Aluminum Transition Welding**
ng : Direct solid-state bonding of copper-aluminum dissimilar metals without transition pieces, widely used in charging piles and the electrical power industry.
- **Precision Electronic Components**
ts : Welding of micro terminals and sensor pins with a minimal heat-affected zone, suitable for medical electronics and instrumentation.

Certifications

CB	3C	CQC	UL	FCC	CE	GS	UKCA
SAA	RCM	PSE	KC	KCC	NOM	BIS	BSMI

