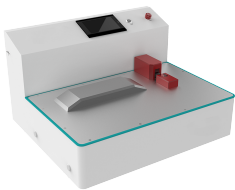


YN-X203-Y 3000W 20KHz
Ultrasonic Metal Welding
Machine - High Efficiency
Precision Metal Welding -
CE/FCC/ISO Certified



YN-X203-Y

Product Overview

Specifications

Parameter	Specification
Operating Voltage	220V / 50Hz
Frequency	20KHz
Power	3000W (optional upgrade to 4000W / 6000W)
Welding Area	0.35 – 20mm²
Welding Materials	Copper, aluminum, nickel, brass, and dissimilar metals such as copper and aluminum
Wire Diameter Range	0.5mm² – 35mm² (stranded copper wire)
Control Method	Intelligent digital control, one-key parameter setting
Cooling Method	Air cooling
Dimensions	670 × 520 × 410mm
Net Weight	88KG
Warranty Period	12 months for the whole machine / 24 months for core components (transducer + horn)
Certification Standards	CE / FCC / ISO9001

Product Features

- High Power and High Precision : 3000W rated power, 20KHz high-frequency output, welding time only 0.1-0.5 seconds per cycle, efficiency over 3 times that of traditional resistance welding.
- Wide Welding Compatibility : Welding area 0.35-20mm², supports direct welding of copper-copper and copper-aluminum dissimilar metals without solder or flux.
- Upgradable Power : Standard 3000W configuration, optional upgrade to 4000W/6000W, adaptable to different material thicknesses and welding requirements, one-time investment for long-term use.
- Heavy-Duty All-Steel Body : 88KG all-steel structure, excellent overall stability, no deformation under long-term operation, design life over 10 years.
- Intelligent Digital Control : Equipped with a microcomputer control system, capable of storing multiple welding parameters, one-key switching between different process recipes, reducing personnel training costs.
- Quality Inspection Compatibility : Can be used with quality inspection methods such as peel strength testing, conduction resistance testing (micro-ohmmeter), and metallographic cross-section analysis, complying with UL 486A and QC/T 29106 standards.

Applications

• New Energy Lithium Batteries

es Power battery tab welding, module Busbar and busbar welding, energy storage battery Pack assembly, extensive experience in daily battery production line integration, weld resistance ≤100μΩ.

• Automotive Wire Harnesses and Connectors

rs High-voltage wire harness terminal welding, motor lead wire welding, IGBT module connection, replacing traditional crimping processes, contact resistance reduced by over 60%.

• Consumer Electronics

cs Mobile phone battery tabs, laptop battery packs, drone lithium battery welding, welding dimensional accuracy ±0.05mm, meeting miniaturization needs.

• Copper-Aluminum Transition Welding

ng Direct welding of copper-aluminum dissimilar metals without additional transition pieces, widely used in new energy charging piles and the electrical power industry.

• Precision Sensors and Electronic Components

ts Micro terminal and pin welding, minimal heat-affected zone, no damage to component body, suitable for medical electronics and instrumentation.

Certifications

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

Winna Yingna Technology	Tel: +86 134 1065 0093	Email: liuyan@winna-group.com	WhatsApp: wa.me/86 13410650093	Web: winna- group.com
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