



SPECIFICATION

WUXI HAIFEI INTELLIGENT EQUIPMENT CO. LTD

HFDB-660

Automatic copper braids crimping and cutting machine



Disclaimer: Product images are for reference only. Actual products may vary due to continuous design improvements. The delivered unit shall be the final standard.

Automatic Copper Braided Crimping and Cutting Machine is a high-precision, fully automated solution designed for the new energy industry. This integrated system handles the entire process from feeding to precision cutting and squaring, ensuring stable quality that far exceeds manual operation.



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1. TECHNICAL SPECIFICATIONS

Item	Automatic copper braids crimping and cutting machine
Equipment Model	HFDB-660
Rated Duty Cycle	50%
Operating Environment	Temperature: 1~45°C, Humidity: 35~90%
Input Power Supply	Three-phase five-wire 380±10%V, 50Hz
Transformer Capacity	660KVA
Compressed Air Requirement	≥0.6MPa, 40μm filtration, flow rate 14.43L/cycle
Cooling Water Requirement	0.2~0.3MPa, 40μm filtration, resistivity ≥5 kΩ·cm, flow rate 50L/min
Cylinder Bore / Electrode Stroke	200mm / 150mm
Max. Working Pressure	24,000N
Max. Primary Current	200A
Current Adjustment Range	0%~99%
Transformer Insulation Class	Class F
Throat Depth	280mm
Max. Secondary Short-circuit Current	120KA
Lower Electrode Arm Deflection	Under max. cylinder pressure, electrode arm deflection < 0.1mm
Max. Copper Platform Spacing	400mm
Min and Max Size	16-90 mm ²
Energy Consumption Per Hour	528 KVA

2. CONFIGURATION

No.	Name	Brand	Origin
1	Solenoid Valve, Air Treatment Unit (FRL)	SMC	Japan
2	Water Flow Switch	CATO	China
3	Special Welding Main Cylinder	HAIFEI	HAIFEI
4	Medium Frequency Welding Transformer	HAIFEI, Nano Amorphous Material	HAIFEI
5	Welding Controller	HAIFEI	HAIFEI
6	Inverter	HAIFEI	HAIFEI
7	Low-voltage Electrical Appliances	OMRON/SCHNEIDER/Garnor	Japan/France/Switzerland
8	Pneumatic Components	SMC	Japan
9	PLC	Mitsubishi	Japan



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3. WELDING CONTROL FUNCTIONS

Output power frequency: 1000Hz;

Programmable up to 64 sets of welding specifications;

Three-stage heating process: preheating, welding, and tempering; the welding stage can be self-defined with increasing and decreasing segments;

Programmable pressure control, up to 10 pressure segments can be defined;

Programmable output I/O ports: 3-stage programmable output, better adapted to PLC, robots, etc.;

Weld spot counting function.

4. PROTECTION FUNCTIONS

- Abnormal water flow alarm and automatic shutdown

- Abnormal current alarm and automatic shutdown

- Abnormal pressure alarm and automatic shutdown

5. KEY FEATURES SUMMARY

High Power Output: Max. secondary short-circuit current up to 38KA, ensuring strong and reliable welds

Precision Control: 1000Hz medium frequency output with millisecond-level time accuracy

Flexible Programming: 64 sets of welding specifications, 3-stage heating with incremental/decremental control

Smart Integration: Programmable I/O ports for seamless PLC and robot integration

Comprehensive Protection: Multi-layer safety system monitoring water flow, current, and pressure

Robust Construction: Lower electrode arm deflection < 0.1mm under maximum pressure