



SPECIFICATION

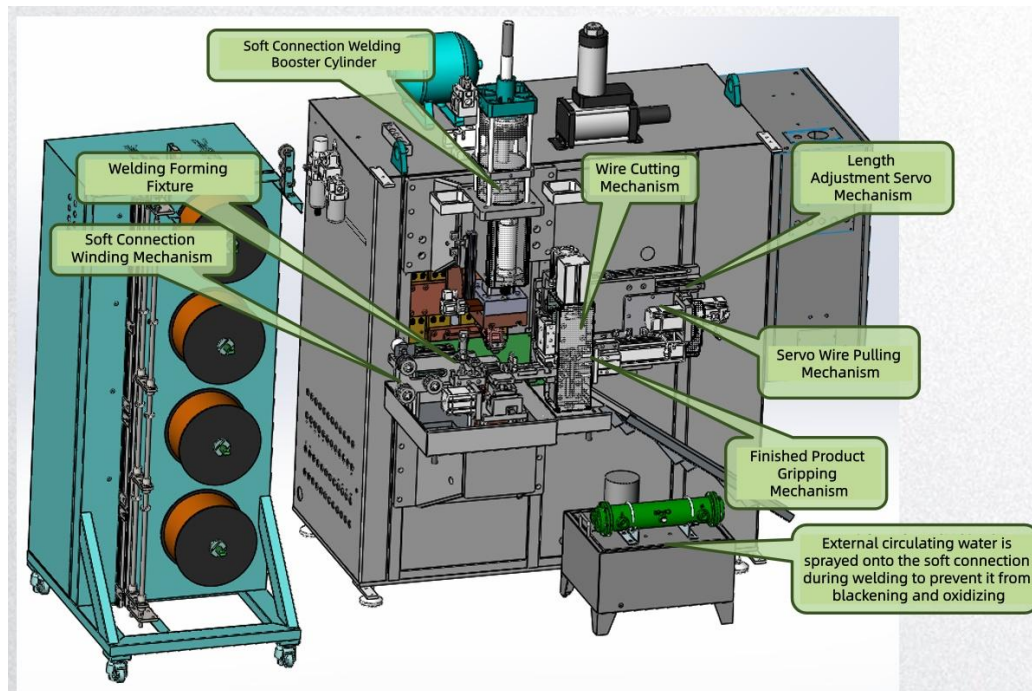
WUXI HAIFEI INTELLIGENT EQUIPMENT CO. LTD

HFDB-440

Automatic copper braids crimping and cutting machine



WUXI HAIFEI INTELLIGENT EQUIPMENT CO. LTD



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.

1. TECHNICAL SPECIFICATIONS

Item	Specification
Equipment Model	HFDB-440
Rated Duty Cycle	50%
Operating Environment	Temperature: 1~45°C; Humidity: 35~90%
Input Power	Three-phase five-wire system, 380±10%V, 50Hz
Transformer Rated Capacity	440KVA
Compressed Air Requirement	≥0.6MPa, 40μm filtration, flow rate 3.56L/cycle
Cooling Water Requirement	0.2~0.3MPa, 40μm filtration, resistivity ≥5 kΩ·cm, flow rate 50L/min
Primary Input Current	400A
Current Adjustable Range	0%~99%
Transformer Insulation Class	Class F
Secondary Maximum Short-circuit Current	100KA
Applicable Size Range	16-90 mm ²
Energy Consumption Per Hour	352 KVA



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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

3. WELDING CONTROL FUNCTIONS

1. Output power frequency: 1KHZ, time accuracy at ms level;
2. Up to 64 sets of welding programs can be programmed; the system has 3-level password protection.
3. Three-stage heating process: preheating, welding, and tempering; the welding stage can be defined with increasing and decreasing segments;
4. Programmable pressure control, up to 10 pressure segments can be defined;
5. Programmable output I/O ports: 3 programmable output segments for better adaptation with PLC, robots, etc.;

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