



SPECIFICATION

WUXI HAIFEI INTELLIGENT EQUIPMENT CO. LTD

HFDB-100

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

Parameter	Specification
Equipment Name	Automatic copper braids crimping and cutting machine
Model	HFDB-100
Rated Duty Cycle	20%
Transformer Capacity	160 KVA
Cylinder Bore / Stroke	160 mm / 110 mm
Max. Working Pressure	10,000 N
Max. Primary Current	100 A
Current Adjustment Range	0% ~ 99%
Transformer Insulation Class	Class F
Throat Depth	425 mm
Max. Secondary Short-Circuit Current	38 KA
Lower Electrode Arm Deflection	< 0.1 mm (At max. cylinder pressure)
Max. Copper Platform Spacing	250 mm
Welding Area Range	4sqmm - 8sqmm

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 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 Frequency: 1000 Hz
2. Up to 64 sets of welding specifications programmable
3. Three-stage heating process: Preheat, Weld, Temper; the weld segment supports user-defined incremental and decremental segments
4. Programmable pressure control, up to 10 pressure segments definable (Optional)
5. Programmable I/O ports: 3-stage programmable output for better adaptation with PLC and robots
6. Weld spot counting function



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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