



SPECIFICATION

HAIFEI INTELLIGENT EQUIPMENT CO. LTD

Mid Frequency Diffusion Welder for Copper

Model: HFTD-100-Q

1 set

Part Name	Description	Brand / Model No.	Quantity
Power Supplies			
1 Mid Frequency Transformer	Max.short cut current 15KA	TD-100-Q HAIFEI, China	1 set
Pressure Supplies			
2 Air cylinder		HAIFEI, China	1 set
PLC controller			
3 PLC controller	Digital control circuit	Japan	1 set
	Touch Screen	Flexem, China	1 set
	Circuit breaker, air switch	Schneider, France	1 set
4 Inverse circuit	Medium frequency switch	IGBT Japan	2 sets
	Semi-control rectification	SCR Semikron, Germany	4 sets
	Welding capacitor	Japan	4 sets
	80% of the other components come from international brands		
5 Welding loop parts	copper strip and the copper plate, etc		1 set
6 Upper and bottom welding platform	high quality copper material, precisely machined		1 set
7 Cooling water circuit and protection circuit			1 set
	Water cooling	Water flow switch CATO, China	
The water flow switch is installed in the total circuit of water cooling system. If cooling water flow is insufficient, the controller will automatically give alarm and shut down.			
8 Infrared temperature detection system			1 set
9 Body frame	High strength thick steel plates		1 set
10 Down-to-earth switch			1 set
11 Welding Consumables			1 set
Graphite block			



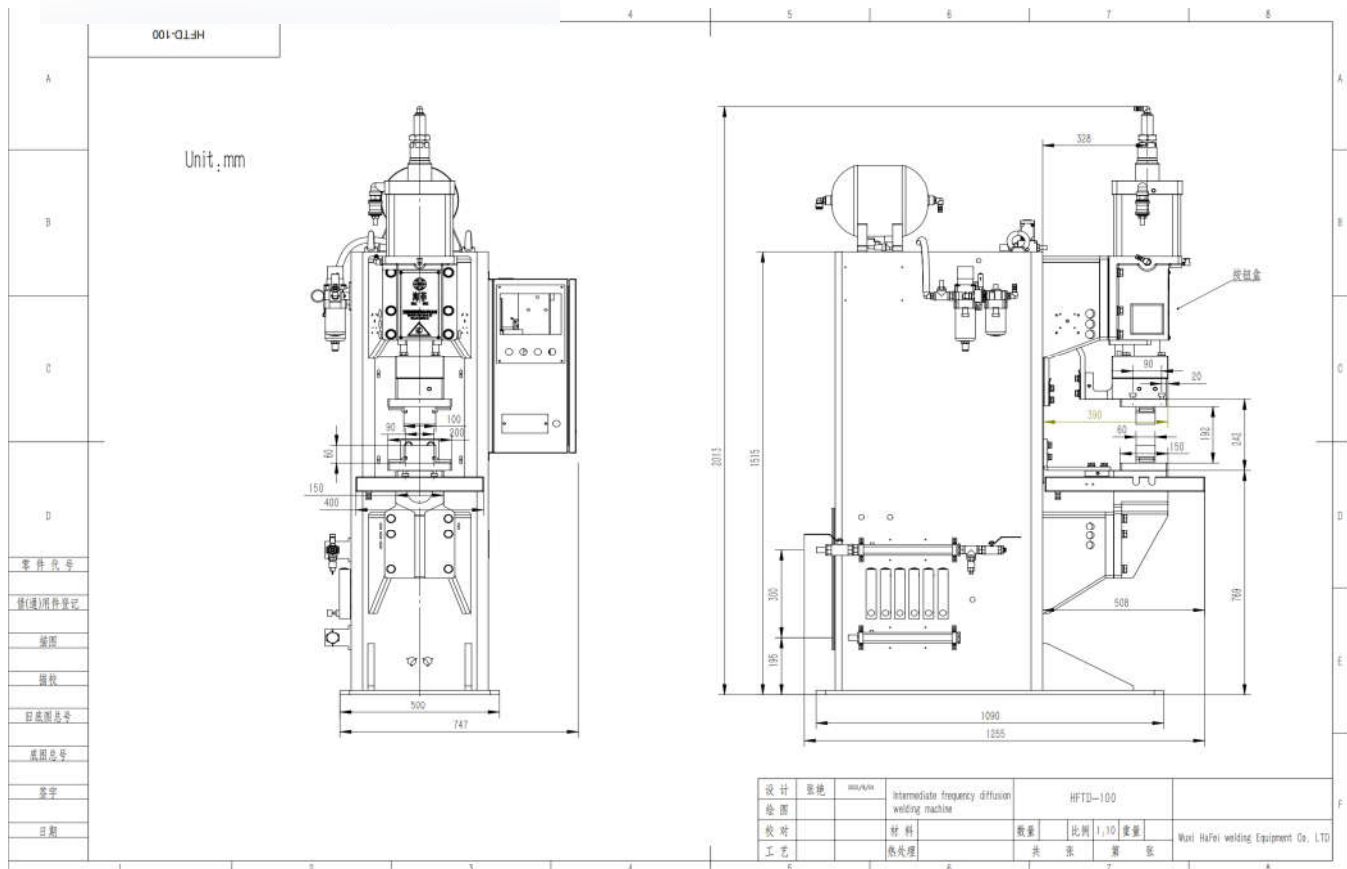
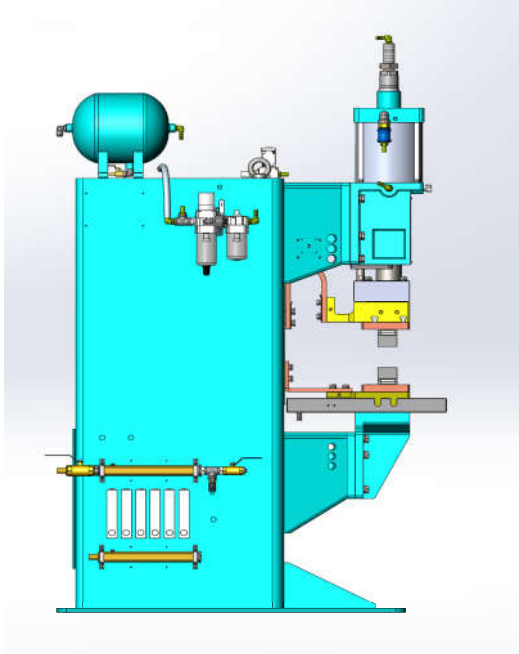
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The picture is only for reference.



Main Parameters

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Main Parameters

1	Part Name	Mid Frequency Diffusion Welder for Copper
2	Model	HFTD-100-Q
3	Rated capacity	100KVA
4	Rated duty cycle	50%
5	Input power	4150V±10% 50HZ 3 phases
6	Primary input current Max.	100A
7	Primary cable	3*25+2*16 mm ²
8	Secondary short-circuit current Max.	35KA
9	Secondary empty voltage	9V
10	Transformer insulation grade	Grade F
11	Cooling water demand	0.2~0.3MPa, 40 micron filtration, Resistivity of 5 kΩ. cm
12	Cooling water flow rate	25 L/min water temperature ≤30℃
13	Working pressure Max.	15KN
14	Throat depth	425mm
15	Maximum welding area	40*40*mm stack thickness 10mm
16	Working environment	temperature: 1~45℃ humidity: 20~80%RH