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JZ-520 DSS Furnace

The JZ-520 DSS furnace can produce up to 520kg high quality multi-crystal silicon ingots which are produced in less than 65 hours cycle time. The output of the equipment is large, the operation is simple and the interface is easy and clear for the operator. This design saves a lot of time for the operator to deal with the equipment. Thus the handling is optimized and costs are reduced. These DSS furnaces use quartz crucibles coated with high-purity silicon nitride. Through the rise of a temperature at gradient in the thermal insulation layer, directional solidification crystallization is in process. In the whole process of crystallization, only movement occurs in the separated thermal. Therefore, this design of DSS furnace greatly reduces the occurrence of the fault and greatly improves the stability of the furnace.

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2. Technical Parameters for JZ-520 DSS Furnace

No	Item and Name		Parameter	Additional
1	Ingots/Run	Weight	Up to 520 kg	
2		Dimensions (L×W×H)	840×840×330 mm	
3	Crucible Size	L×W×H	870×870×480 mm	
4	Cycle time	One Run	65h	
5	Inner Chamber Vacuum Level	Maximum	Below 1 Pa	
6	Temperature and measurement of Inner Chamber	Maximum Temperature	1575°C	
7	Chamber Size	Inner Diameter	Φ2100 mm	
8		Inner Height	2625 mm	
9		Moving Distance of Lower Chamber	950 mm	
10		Moving Distance of Steel Cage	380 mm	
11		Main Chamber (L×W×H)	3500×4200×4850 mm	
12		Platform (Include ladder) (L×W×H)	5295×4780×4185 mm	Optional
13	Weight	Main Chamber	5500kg	
14		Platform	3350kg	

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15	Compressed Air	Pressure	0.4 ~ 0.7MPa	
16		Volume	100L/min	
17	Argon	Pressure	Above 0.3MPa	
18		Consumption	70 ~ 75m ³ /Ingot	
19		Flow Volume Control Range	0 ~ 200L/min	
20	Helium (Optional)	Pressure	Above 0.3MPa	
21		Consumption	6 ~ 7m ³ /Ingot	
22	Cooling Water	Inlet Pressure	Maximum 0.45MPa	
23		Pressure Difference Between Inlet and Outlet	0.25 MPa	
24		Inlet Cooling Water Temperature	≤31°C (Recommend 24±1°C)	
25		Flow Volume	160-180 L/min	
26	Power for Vacuum Pumps	Voltage	380V	
27		Power	11.5kw	
28		Frequency	50Hz	
29		Phase	3 Phase	
30	Power for Electronic Control System	Voltage	380V	
31		Power	10kw	
32		Frequency	50Hz	
33		Phase	3 phase	
34	UPS Power			Optional
35	Power for Heating	Voltage	380V	

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36	System	Power	225kw	
37		Frequency	50Hz	
38		Phase	3 Phase	
39	Connector for Tubes	Diameter of the Tube Connector for Pressure Relief Safety Valve	φ150 mm	
40		Diameter of Argon Tube Connector	NW-16 mm	
41		Diameter of helium Tube Connector	NW-16 mm	
42		Diameter of Inlet and Outlet of the Cooling Water	Rc2.5"	
43	Vacuum Pump System	Vacuum Speed	300L/S	
44		Diameter of Main Inlet of the Pump	φ150 mm	
45		Diameter of Subsidiary Inlet of the Pump	φ16 mm	
46		Diameter of the Outlet	φ76 mm	
47	Forklift (Optional)	Lift Height	Maximum 2000 mm	
48		Lift Weight	Maximum 600kg	
49		Height of the Fore	1588 mm	
50		Width between the Fork	1300 mm	

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3. Standard Configuration :

No	Item and Name		Remarks
1	Main Chamber	Main Chamber Frame	Standard
2		Vacuum Chamber	Standard
3		Lower Chamber Driving	Standard
4		Insulation Driving	Standard
5		Hot Zone	Standard
6		Gas Circle and other Driving System	Standard
7		PC and PLC Control System	Standard
8		Heating Power	Standard
9		Temperature Measurement	Standard
10		Pressure Measurement	Standard
11		Pressure Relief Protection Device	Standard
12		Coolant Water System	Standard
13	Vacuum Pump System		Standard
14	Platform		Standard
15	UPS		Optional
16	Forklift		Optional

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