

DF900 Specification

Photovoltaic equipment



Photovoltaic multi-wire cutting equipment DF900

DF900 crystal silicon multi-wire cutting equipment is a specialized equipment developed for large-size, high-precision and large-capacity photovoltaic materials. It is compatible with a variety of large-size products and has a cutting length of up to 900mm.

Product features :

- Adopts 3-axis design, strong compatibility, and multi-specification products can be quickly switched(166、182、210、230) 。
- The spacing of the cutting rollers is optimized, the line bow is small, the cutting speed is fast, and the quality is high.
- The overall casting structure of the equipment has a high damping coefficient and excellent shock absorption performance.
- The retractable line roller is under the cutting chamber, and the equipment runs more stably, which can meet the cutting requirements of high line speed, high quality, and low line consumption.
- Adopts high-speed axle box, with a maximum line speed of 2400m/min, large load and high precision.
- The guide wheel distance and winding distance are optimized, the torsional force and tension fluctuation are small, the one-sided torsion is <5 turns, and the disconnection rate is less than 0.5%.
- High dynamic response closed-loop PID algorithm + cyclic compensation calculation scheme, disturbance response time of 1ms, thread diameter resolution of 0.5um, tension control accuracy of 0~0.2N, operating cutting tension fluctuation of 0.2N, tension sensor accuracy of 0.001, tension arm swing angle <0.5.
- Adopts a high-speed bus control system and uses a synchronous motor to control a high-speed water-cooled motor, which is stable and reliable, and can meet the wire diameter requirements of various specifications used in bulk in the industry.
- The control system is energy-saving and consumption-saving, and has the function of power-off and continuous power-off.

Technical parameters :

Project	Content	Technical parameters
Product name	Model	DF900
Processing capacity	Max processing billet size	(□166-□230) *900
Cutting main roller	Outer diameter of main roller	Φ180-170
	Weight	About 94kg
	Quantity	3
Diamond thread	Core wire diameter	0.025-0.16mm
	Spool storage capacity	120km
	Max round-trip routing speed	2400m/min
Workbench	Workbench lifting stroke	345mm
Cutting fluid	Liquid storage capacity	600L
	Pump flow	13000 L/H

Power supply	Power supply	380V±10%、50Hz (Host)
	Rated power	274KW
Dimensions	Dimensions	About 4400X2100X3100mm
and weight	Weight	About 15000KG

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