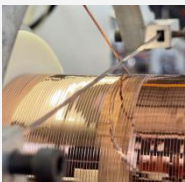




PV Round Wire Production Line

Spare Parts & Maintenance Guide

The spare parts and maintenance recommendations provided in this document are based on standard operating conditions for GRM PV round wire production equipment.

Category	Name	Image	Function	Why It Wears Out	Remarks
Spare Parts	Tin coating pulley		Coats melted tin onto the copper wire	Rubbing from the wire	Stock can be managed based on production and replacement frequency to avoid delays.
	Air Knife		Blows off extra tin to control thickness	Get eroded by tin spray; can get clogged	
	Wire Guide Pulleys		Keeps the wire moving straight	Rubbing from the wire	
	Precision Resistance		Keeps the wire tension just right to avoid breaks	Wears out over time; can become less accurate	
	Sensor		Measure winding length and detects tin coating position	Can get dirty damaged by oil /heat	
	Glass Tube		Provide visibility and hide-temperature resistance	Fragile nature of glass	Consider stocking 3–4 spare
	Steel		For take-up Unit		

	Disconnecting Cylinder		For take-up Unit	Sensitivity degradation may occur over time	
Key Consumables	Tin		Main material coating	/	/
	Flux		Reduces surface tension of solder to improve welding quality and reliability	/	/
	Nitrogen gas		Prevents oxidation of copper wire and welding ribbon at high temperatures	/	If usage is high, consider investing in a nitrogen generator for long-term cost savings.
	Copper Wire		Requiring precise dimensions and good conductivity	/	/
	Spool		Holds the finished wire ribbon	Can break or get lost.	Maintain an internal cycle of spools to avoid production downtime.

	Alcohol		Used for cooling	/	Add to the annealing water tank at a ratio of 1:20 with water
	Equipment lubricating oil		Keeps machine parts moving smoothly	/	Lubricate sliders and linear bearings of the storage rack every 3 days

** Actual replacement cycles may vary depending on production speed, working environment, material characteristics, and daily operating conditions.*

By following recommended maintenance procedures and preparing critical consumables in advance, manufacturers can improve production efficiency, reduce downtime risks, and ensure long-term equipment reliability.

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