

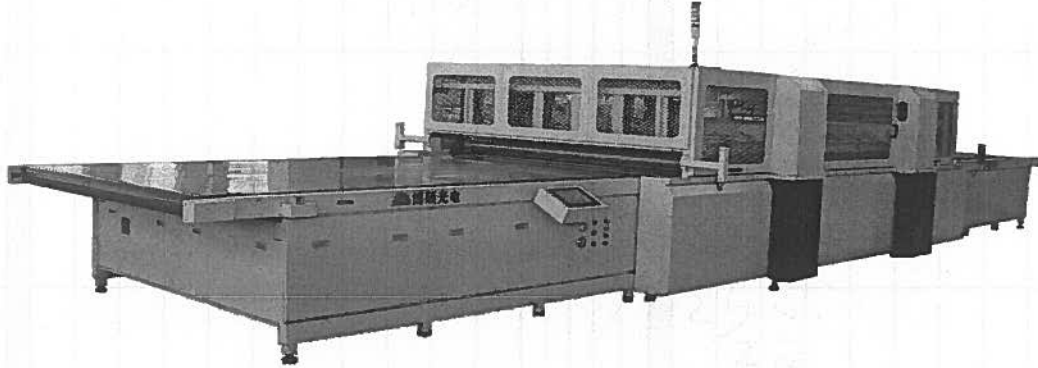


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Qinhuangdao Boostsolar Photovoltaic Equipment Co., Ltd

BSL2236OAC-III Automatic Solar Module Laminator

Technical Parameters



Main Parameters	Power Supply:	AC380V±10% 3Phases, 5Lines 50HZ
	Total Power:	75KW
	Working Power:	45KW
	Lamination Size:	2200mm×3600mm
	Lamination Chamber Height:	30mm
	Lamination Pressure:	0Mpa~0.1Mpa (Adjustable)
	Temperature Control Precision:	±1℃
	Temperature Uniformity:	Less than ±1.5℃
	Controllable Working Temperature:	30℃-180℃
	Vacuum Pump Speed:	70 L/S
	Working Vacuum Degree:	Less than 100Pa (Less than 2min)
	Equipment Weight:	18T
	Dimensions:	12250mm×3410mm×1830mm
	Air Supply Pressure:	0.6Mpa~0.8Mpa
	Transmit Weight Capacity:	More than 300Kg
	Working Noise:	Less than 70dbA
Configuration: Loading Conveyor + Lamination + Unloading Conveyor+ Heating System		
Configuration of Loading Conveyor	Power Control:	Frequency Converter + Reducer Motor
	Conveyor Belt:	Full Size Rubber Tape
	Drive Roller:	High strength design + Surface Teflon processing
	Transmit positioning:	Encoder + PLC + Sensor
	Loading automatically:	Loading Modules step by step. Stepping distance can be adjusted.
	Status Display:	Indicator light shows normal/fault state
	Manual Operation:	Inching Button
	Loading Position can be aligned automatically.	
Lamination	Cover Opening System:	Air-Powered
	Upper Cover Safety Locking:	Mechanical safety lock catch

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	Safety Protection: Safety Cover + Raster Protection+ Audible Alarm + Security
	Membrane Sheet: High-Temperature resistant & long life membrane sheet
	Membrane Sheet Installation: Quick fastener+ Bolts Tensioning
	Transmit Power: Frequency Converter + Reducer Motor
	Transmit Positioning: Encoder + PLC + Sensor
	Transmission Chain: Roller Chain
	Chain Guide Rail: Nylon Guide Rail
	Transport Sheet: Teflon Sheet
	Transport Sheet Cleaning: Dynamic brush roller
	Release Sheet: Same as Transport Sheet and synchronize with it
	Release Sheet Cleaning: Dynamic brush roller
	Vacuum Valve: Pneumatic cover plate valves
	Vacuum Measurement: Pirani vacuum gage
	Upper Chamber Negative Pressure Measurement: KEYENCE digital readout negative pressure gauge.
	Lower Chamber Negative Pressure Measurement: KEYENCE digital readout negative pressure gauge
	Compressed Air Pressure Measurement: KEYENCE digital readout negative pressure gauge.
	Inflating Speed: Fast, medium and slow speed is optional
	Laminating Process: Laminating Repeatedly
	Power Failure Emergency System: Manual emergency aerate of upper & lower vacuum chamber +manual open cover valve of upper cover
Configuration of Loading Conveyor	Transportation System: Stainless steel power roller +rubber ring
	Power Control: Frequency Converter + Reducer Motor
	Transmission Speed Measurement: Encoder + PLC + Sensor
	Cooling System: Cooling fan array (Equipped with speed control switch)
	Status Display: Indicator light shows normal/fault state.
	Manual Operation: Inching button
	Module Protection: Prevent collision sensor and drop sensor on unloading Conveyor.
Configuration Heating System	Heating Method: Heat transfer oil recirculation heating
	Heat Transfer Oil Model: SD340
	Oil Pump: RY65-40-200
	Overheating Protection: Software protection+ Hardware forced power failure
	Oil Pressure Protection: High/Low Pressure Forced Power Failure Protection
	Heater Monitor: Current Sensor + PLC Intelligent judging
Configuration Vacuum System	Vacuum Pump: 2x-70
	Vacuum Valve: Pneumatic cover plate valves
	Vacuum suction pipe counter-attack: Automatic air evacuation valve
	Vacuum Measurement: Pirani vacuum gage
	Negative pressure measurements: KEYENCE digital readout negative pressure gauge
	Vacuum Control Valve: SMC (two-position five-way valve)
Controller	Controller: SIEMENZ S7-200 226 controller
	Networking Technology: PROFIBUS-DP + TCP/IP

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	Computer interface:	PWS6A00T
	Temperature Control:	PLC+PID temperature control
	Vacuum control:	PLC + Japan SMC solenoid valve + Pneumatic baffle valve
	Inflating Control:	Computer Interface Pressure Setting + Japan SMC Solenoid Valve
	Main Power Supply Control:	Mechanical Breaker can be lock
	Backup Power:	Laminator can provide backup power to realize emergency open cover and air charge function
Safety System Configuration	Interrupt Lockout Device of Main Power Supply Breaker	
	Many emergency stop buttons	
	Oil heater overheating alarm & outage	
	Oil heater high & low voltage alarm & outage	
	Vacuum chamber air leakage judgment alarm	
	Upper Cover mechanical locking to prevent falling	
	Safety Light Curtain protection	
	Gas circuit cutoff protection when power supply interrupt	
	Motor over-current protection	
	Heater over-current protection	
	Loading position sensor protection	
	Gas circuit cutoff protection when power supply interrupt	
Main Components	PLC:	Siemens
	Temperature Control Module:	Siemens
	Analog Input Module:	Siemens
	Communication Module:	Siemens
	Mini type Disconnecting Relay:	Idec
	Low-voltage Apparatus:	Schneider
	Button switch:	Fuji
	Transducer:	Omron
	High Vacuum Gauge:	Inficon-Pilot Vacuum Gauge
	Negative Pressure Gauge:	Keyence
	Air Compressed Sensor:	Keyence
	Pneumatic Valve:	SMC
	Cylinder:	Airtac
	Electric Motor:	Shengbang
	Sensor:	Dubuque
	Main power switch:	Schneider
	Compressed air ducts:	Airtac
Facility Requirements	Power Supply:	AC380V±10% 3 phase5 line 50HZ/60HZ
	Air pressure pump:	1Mpa Pressure + gasholder
	Cooling Water Tank for Vacuum Pump:	1 Cubic Meter Volume +1 circulating pump

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