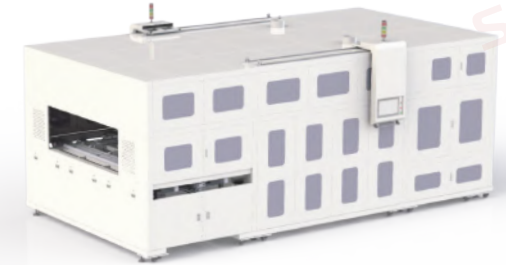




LAYUP & BUSSING INTEGRATION MACHINE



Features

- Equipped with a self-correction system, linear motor + absolute value servo system, correction accuracy $\leq 0.3\text{mm}$. X-axis adopts linear motor with high precision; Y-axis $\pm 100\text{mm}$. No cell overlap issue.
- Optional functions include busbar punching, chamfering, laser paint removal, and non-stop busbar loading. Optional virtual welding detection function. Optional busbar ironing function.
- Simple overall structure, easy to maintain. Fast single-cutting time for modules: 30-60min.
- The equipment is directly connected to the high-speed stringer, reducing the impact of cell overlap downtime on the line capacity compared to the original layout.
- Cycle time: $\leq 40\text{s}$, compatible with high-speed stringer.
- Welding information monitoring: automatic frequency tracking, welding energy monitoring, MOS tube temperature, and soldering iron temperature, with data uploadable to MES system in real-time.
- The equipment integrates layout, cell overlap, virtual welding detection, and busbar ironing functions, making the layout more reasonable. It reduces the number of times the robot grabs and the intermediate transfer links, reduces the overall layout cost, reduces the space occupation of the site, and improves the utilization rate of the site.

Functionality

- Cell specifications: 156*156-230*230(mm)/5BB-24BB
Busbar specifications: Coil feeding, thickness 0.20-0.45(mm), width 4/5/6/7/8(mm)
Busbar weight: $\leq 30\text{kg}$
Cycle time: $\leq 40\text{s}$
Welding tension: 5BB $\geq 4\text{N}$, 9BB $\geq 2\text{N}$, MBB $\geq 2\text{N}$
- Alignment characteristics:
High cell alignment accuracy $\leq 0.3\text{mm}$
Welding method: Electromagnetic induction welding
- Visual inspection: 6 cameras are used for alignment at the head, middle, and tail of the cell, with one camera for each position in two sets, allowing for secondary verification of alignment effectiveness, with no cell overlap issues. Virtual welding detection at the head, middle, and tail is performed using line-scan cameras with high scanning accuracy.
- Optional functions: Busbar punching, chamfering, laser paint removal, non-stop busbar loading, virtual welding detection, busbar ironing function, etc.

Specifications

Item	Value
Applicable glass size	length: 1640-2550(mm); width: 900-1450(mm)
Cycle time	$\leq 40\text{s}$
Power	peak power 35kW, average power 15kW
Power requirement	AC380V $\pm 5\%$, 3P+1N+1PE
CDA	0.6-0.8 (MPa) dry, clean compressed air; Consumption: 2000L/min
Control system	PLC+touchscreen +CCD vision inspection
Weight	7000kg
Dimension(L*W*H)	6300*3200*2550(mm)