Technical Specifications of SOLAR PANELS Machines:

Automatic Laminator: ( Model: RO-B1 )

The Semi-automatic laminator is designed for different size of laminating of mono and polycrystalline solar cell with high productivity, The machine is suitable for both standard & fast cure EVA for assembly PV module. It use friendly touch screen panel to program cycle operation, controller to maintain uniform temperature. Must attention the size of laminator, make sure the entry of the building is enough

Control Unit:

PLC base auto cycle control, with manual control interface.
Manual operation option of each operation.
Automatic start of pre-selected working cycle with a start button.

Solar Cell Tester:

The solar cell tester machine to sort solar cells according to their electrical performance, tested under simulated sunlight.
Test period: < 3 second for each cell.
Working period: 24 hour
Measure the required electrical properties.
Solar Module Tester:

The Solar module measuring I-V characteristic of large size mono crystalline or poly crystalline. PV module.
Effective test range : all.W
Uniformity of test result: ± 3% to 5%
Measurement error of electric properties:±±2% to 6%
Power supply: 3 to15KW ,

EL Detector

EL tester means electroluminescent inspection.
Be used to check the solar panel of secluded split, cracked cell, rosin joint, wire break and other defects.

Main function of characteristics :
By using images can find: material other defects. the sides of the pneumatic feeding short, art and craft contamination
Testing fast and convenience was longtime 1s - 25s （ adjustable ）
Glass Washing Machine

Washing and dry solar PV glass automatic.
High efficient.
Improve solar panel’s quality
Total power: 10KW
Working speed: 2m To 20m/min

Framing Machine

The machine should be suitable to use for fix solar panel frame and lock the four corner of the frame.

Laser Dicing Machine:

The small solar module need made by small solar cell. such as the solar module under 50W.
The laser cutting machine be designed for dicing mono-crystalline & poly-crystalline solar cell. The machine have digital control work table movement operated user friendly instructions. The language of manual, instructions and operation are in English.
This kind of laser dicing machine is made by semiconductor laser, so do not need change the laser source. Save the production cost.
EVA, Back Sheet Cutting Station.

EVA and back sheets need cutting to size and uniformity. Electric cutter. High speed. High efficient. The station is a table with tough top for cutting EVA and TPT back sheet for solar module.

Solar Cell Soldering Station.

The soldering station includes operating platform with power distribution board, heating platform and its control system. Soldering template for both single cell soldering and string soldering.
**Soldering Ribbon Cutting Machine**

Full automatic cut the soldering ribbon,  
Do not need operator.  
High speed. High efficient.  
The machine can leveling the ribbon, so can improve the quality of soldering.

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**Module Transfer Carrier:**

Hand truck for transportation of Glass / Modules / Panel at different stage of production.  
The module carrier made of steel and continues welding with rubber combination.  
It should carry 10 sets of 240W solar panels at one time & strong mobile castors for free and smooth movement during transport of modules / panels.  
The wheels can be locked for safety and stability to avoid any accidental damage.  
Support 10 pcs of 300W modules each time

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**Ready Material Carrier:**

Hand truck for transporting the finished laying up module to be laminated, carry 10 pcs 300W solar panel with proper protection

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**Laying Up Station**

Provide horizontal surface to lay up the solar cell string,  
Stack solar cell string, tempered glass, EVA & back sheet and wire the solar cell string with ribbon.  
Testing simulator sun for voltage and current after wire.  
Support 300 W module.
Inspection Station.

Inspection of the finished lay up solar module before laminating. Inspect the items such as if the solar cell be broken, also the quality of laying up. The station with the observational mirror and light.

Trimming Table:

Table for trimming the EVA & TPT around the panel after lamination. Support 300w panel, Include the electrical knife.

Cell Sorting table:

Working table for select out solar cells from the faulty one. And classification the solar cell for solar production.