

P.ENERGY LO072AR



The automatic layup station **P.ENERGY LO072AR** is a robotic system that takes the strings of cells from the Tabber&Stringer machines and places them correctly aligned onto the glass.

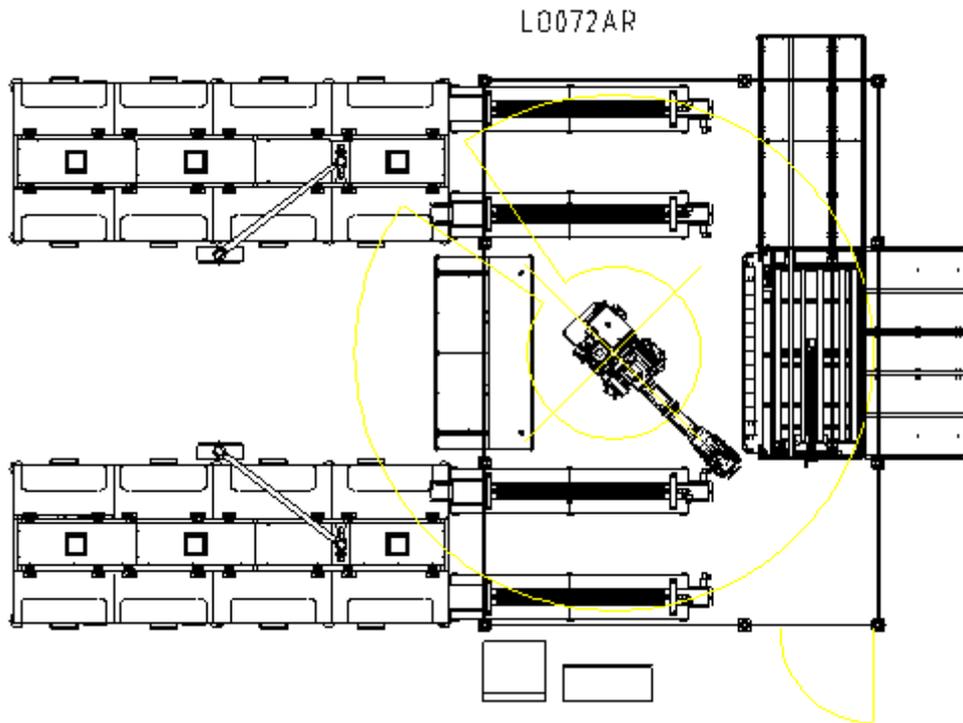
This station is composed of:

- an ABB/KUKA robot
- a system to centre and align the PV strings
- a system which handles and centres the glass and the first sheet of EVA.

The robot picks up the strings from the tabbing/stringing machine, and after having aligned them, places them on the sandwich glass + first EVA foil.

PHOTOVOLTAIC MODULES EQUIPMENT





The system can work with up to two Tabber&Stringer machines **P.ENERGY TS900GOLD**, or with a single double track **TS1200GOLD** or **TS1800GOLD**. It is also possible to connect it to stringer machines of other suppliers.

The station **P.ENERGY LO072AR** can be placed in the automatic assembly lines **P.ENERGY PLANET** and **P.ENERGY STAR** as connection between the Tabber&Stringer machines and the laminators.

It can be also connected to the external lightning table **P.ENERGY LT200A** where the operator solders the interconnections and checks the integrity of the cells and of the electrical connections.

The positioning of the glass and of the first sheet of EVA can be manual or automatic (with the film-cutting machine **P.ENERGY FC200VI**).



1. Technical data

Weight: 1300 kg

Overalls dimensions: 10400 x 6900 x 2200 mm

Power: 22 kW

2. Optional

The station can be connected to three inline quality inspection tools which test the PV strings before the placing them on the glass:

P.ENERGY SS012A: is a strings sun simulator that checks the power of each string through an IV test. Only the strings with equal or higher power than the defined set point will be placed on the glass.

P.ENERGY SC012A: is a string visual inspection system with camera. The system checks the correct alignment of the strings along its axis and the presence of broken cells or missing tabs.

P.ENERGY EL012A: is a string electroluminescence test. The system heats the strings and an IR camera checks the presence of "death" areas or bad connected cells.

It is possible to sort the strings before the positioning on the glass and to reject the bad ones. The use of more than one quality system together or the installation of one of this system with faster model of tabbing/stringing machines, should be defined.

3. Inclusions

CE marked

Warranty: 2 years

Spare parts: 5 vacuum sucker; 10 fuses.