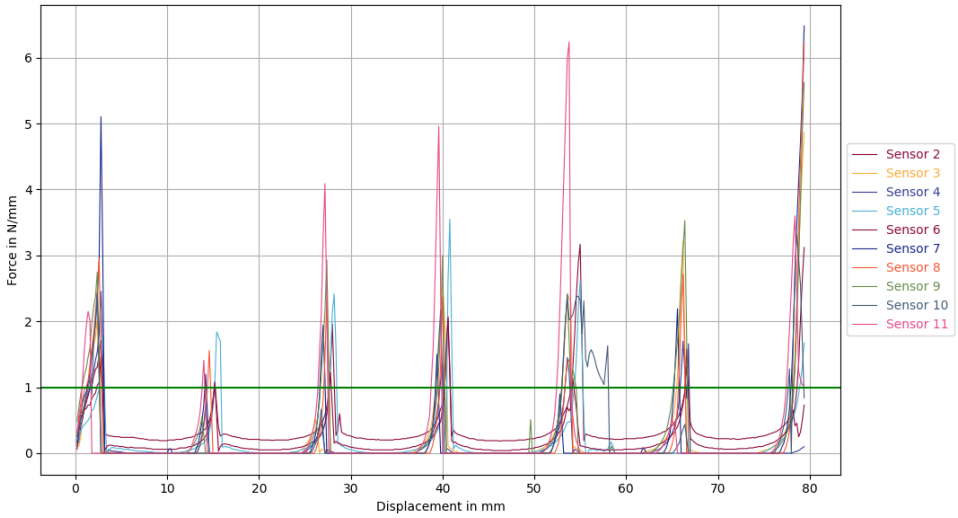
PEELEAN©

Designed to help you qualifying and improving the quality of your products by performing 180° peel tests very simply, precisely, efficiently and affordably.



- Dedicated to 180° peel testing activities
- 100% engineered & made in France by & for photovoltaic specialists
- Large peeling plate compliant from 30 mm up to M12 cut cells
- User friendly interface – No training needed
- Made of standard components from the most reputable suppliers
- Small and light, making it easier to carry on the field

Description

- PEELEAN photovoltaic version is specially designed to perform the first and most important quality test in the manufacturing process of a PV module, namely, the interconnections between the cells and their conductors.

- In compliance with recommendations from standards EN & IEC applicable to the photovoltaic sector, we have above all listened to the voice of :
  - manufacturers of PV modules and production equipment,
  - many research laboratories for several years in order to offer a simple, specific, relevant and accessible solution.

  This is why we have focused our development efforts on a machine entirely dedicated to the most possible ergonomic 180° peel tests, allowing the peeling of a wide range of photovoltaic interconnexion technologies. Moreover PEELEAN is compliant with photovoltaic cells of any size.

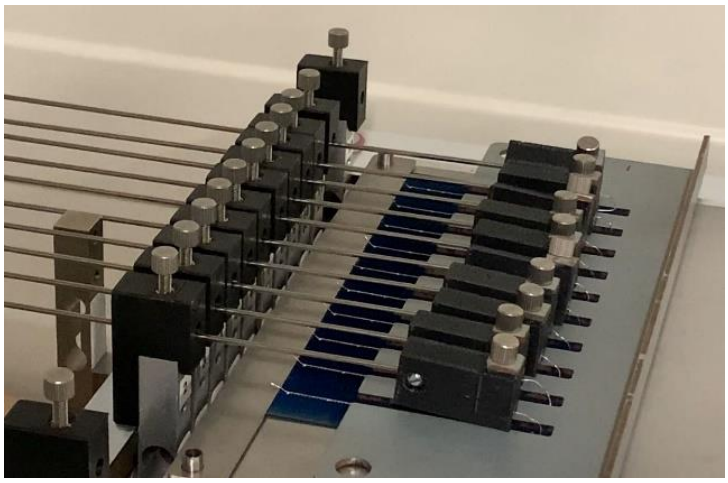
- The equipment is made to be used both in the shopfloor just beside your tabber-stringer, and/or in your lab or quality office.

- PEELEAN is powered with Raspberry PI and a 7'' touchscreen display which allows user friendly HMI. Bluetooth mouse and keyboard included can be connected for more convenience.

- PEELEAN is also a relevant equipment for 180° peel testing in other industries (on demand, with peeling plate & device adaptations)

Features

- Peel test according to user-defined parameters.
- A graph of peel values showing peel strength as a fonction of ribbon (or wire) position is created, displayed & can be saved. A low threshold value can be set as the lowest acceptable peeling force. Data are also available in a .csv file for further analysis
- PEELEAN is supplied with a set of specific PV clamp holders enabling to peel up to 12 ribbons or wires simultaneously.
- Adjustable position of the peeling clamp(s) enabling to deal with all cell sizes instantly
- Smart clamp for easy and strong gripping of thin ribbons or wires.

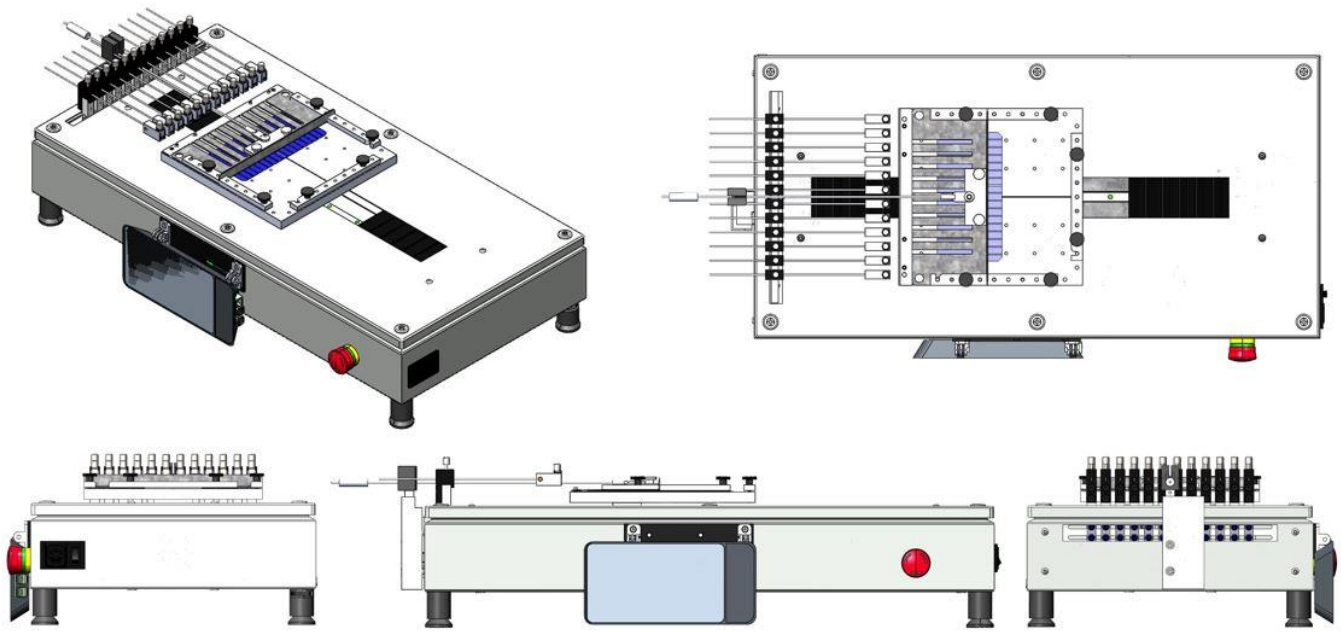


Complementary technical data

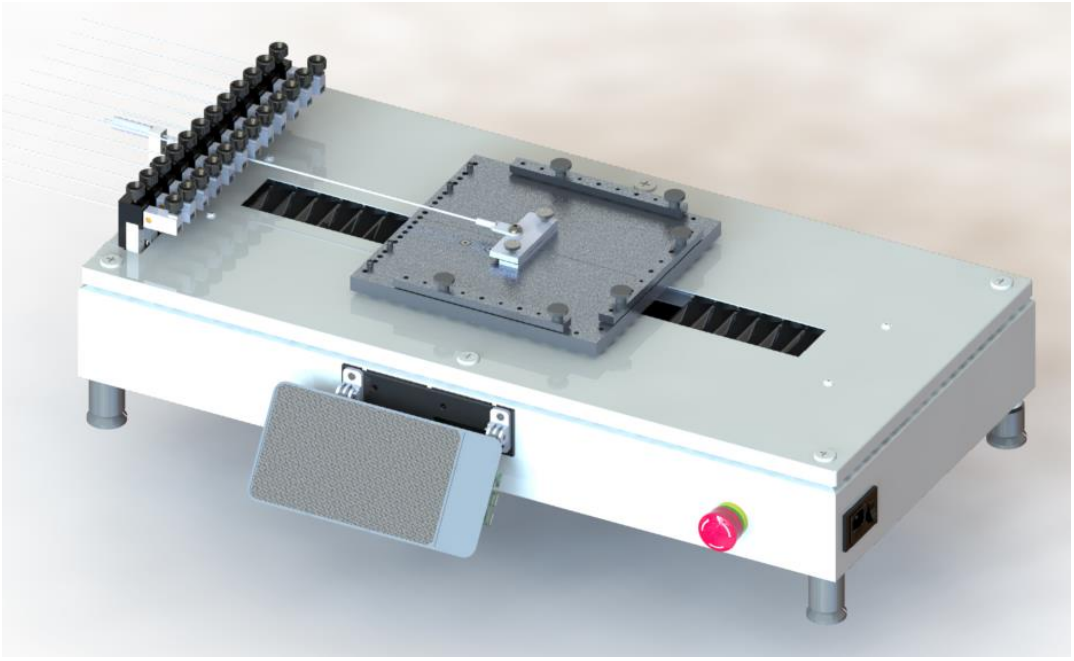
- Maximum peel lenght : 230 mm
- Min / Max tray speed : 10 to 300 mm/mn
- Maximum tray stroke : 500 mm
- Load cell capacity / maximum peeling resistance : 50 N (cell n°1 to 12). 300 N (cell n°13)
- Accuracy class : 0,05 % fs (full scale)
- Control system : Powered with Raspberry PI + 7" touchscreen display
- Voltage range : 88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)
- Frequency range : 47 ~ 63 Hz
- Operating temp. Range : 10°C / 40°C
- Automatic software update downloads thanks to wifi connexion

Dimensions

- L x l x h : 850 x 430 x 240 mm



300 Newtons configuration (sensor n°13) with related fixing accesories



50 Newtons configuration (sensor n°1 to 12) with related fixing accesories