

ECOPROGETTI
SPECIALIST IN PHOTOVOLTAIC
PRODUCTION PROCESS



100% MADE IN ITALY

PV MODULE MANUFACTURING SOLUTIONS

MACHINES FOR EVERY STEP OF THE PRODUCTION LINE



WWW.ECOPROGETTI.COM

Examples of PV panel installations made with Ecoprogetti machines



ECOPROGETTI



MADE IN ITALY

Ecoprogetti Italy

Headquarters

TOTAL PRODUCTION AREA: 8000 sqm

SPECIALIZED IN MACHINES AND TURN-KEY LINES FOR PHOTOVOLTAIC MODULE PRODUCTION.

Ecoprogetti is the only 100% European company to design, produce and deliver complete turnkey production lines for the assembly and quality testing of high efficiency photovoltaic panels. Founded in 1998 Ecoprogetti is in the TOP 5 photovoltaic machine manufacturers for worldwide capacity.

ECOPROGETTI NUMBERS & FACTS

+26 GW production capacity supplied worldwide

+150 Employees worldwide

+170 Turnkey production lines delivered

25 Years of Ecoprogetti

5 Service Offices worldwide



Ecoprogetti is an ISO9001 certified company

PV MODULE PRODUCTION LINES EVERY MACHINE FROM ONE TRUSTED EQUIPMENT PRODUCER

SINCE 1998

Ecoprogetti has a long history of more than 25 years both in production process and production of machines, our portfolio of machines is complete, from the beginning to the end of the module production process.

YOUR PV PANEL IDEA. OUR EXPERTISE



From PV cells
to Tier-1 PV panels

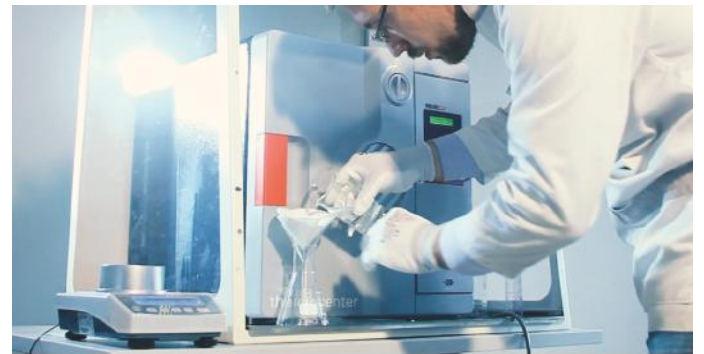
MADE IN ITALY

All Ecoprogetti machines are engineered, assembled and tested in Ecoprogetti's HQ in Italy with the highest European standards and EU made components.



TECHNOLOGY INNOVATION

With extensive practical experience and with a dedicated R&D center Ecoprogetti can develop machines to work with the latest technologies on the market, such as HJT, N-type TOPCon, Perovskite tandem and much more.



FROM THE IDEA OF THE BEST PV MODULE TO THE MANUFACTURING SOLUTIONS THAT WILL PRODUCE IT.

COLORED & AGRIVOLTAIC



BIFACIAL & HIGH EFFICIENCY



LIGHTWEIGHT & CUSTOM PANELS



ECOBUSSING A - AUTOMATIC BUSSING

PATENTED

The ECOBUSSING A performs the induction soldering of the interconnections between the strings of solar cells. The machine cuts and bends the ribbons of the chosen size and shape. The induction soldering is compatible with any bus bar/wire number and it uses Ecoprogetti's patented soldering system. Fully compatible to work on centralized panels.



FULLY ELECTRIC LAMINATOR
NOW ALSO IN STACKED CONFIGURATION



500MW HC - FULLY AUTO PRODUCTION LINE

COMPLETE SOLUTION FOR PV MODULE MANUFACTURING



500
MW/Year



100
panels/h



3 workers
per shift

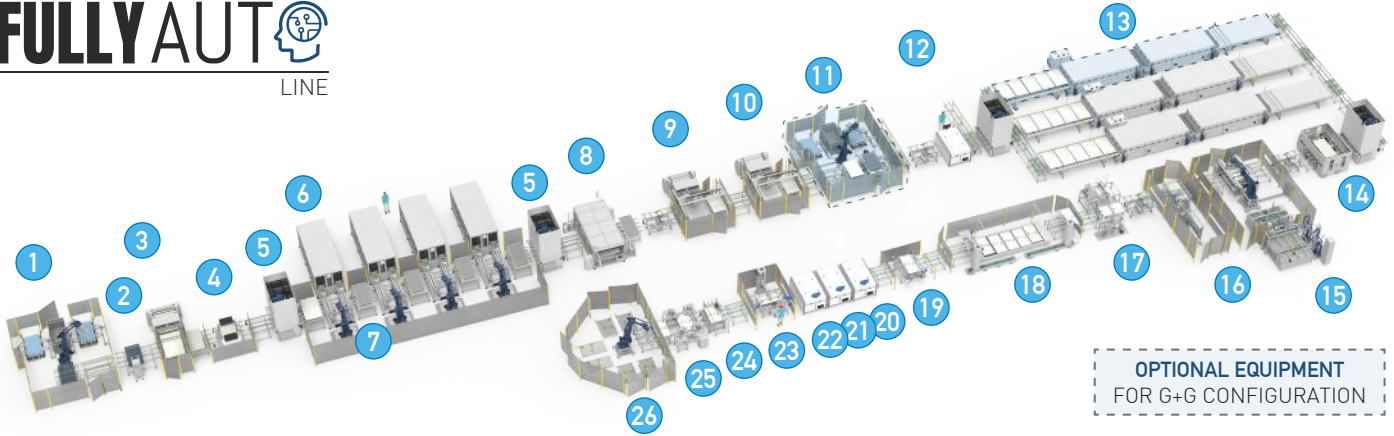


600 kW/h
6bar | 7800 nL/1'



3800 sqm
area required

FULLY AUTO LINE



HALF CELL



M10 - M12
182mm - 210mm



550-600 W
per module



3 shifts
of 8 hours



330
days/year

- | | | |
|-------------------------------|--------------------------------------|---------------------------------------|
| 1 Glass loader | 10 Back-sheet Cutter & Placer | 19 Fully auto Grinding |
| 2 Glass marker | 11 2nd Glass loader | 20 LED sun simulator |
| 3 EVA Cutter & Placer | 12 EL tester (pre-lamination) | 21 EL tester (post-lamination) |
| 4 EPE Stripe placer | 13 Laminator | 22 Hi-pot tester |
| 5 Buffer system | 14 Fully auto trimming | 23 Visual inspection |
| 6 Stringer machine | 15 Fully auto framing | 24 Fully auto labels printer |
| 7 Robotic pick & place | 16 Fully auto J-box | 25 Fully auto Corners placer |
| 8 Automatic Bussing | 17 Fully auto Potting | 26 Packing and Sorting |
| 9 EVA Cutter & Placer | 18 Curing tunnel | |



ECOPROGETTI MES, Ecoprogetti's Traceability System, from Order to Final product.

Consists in: Grading of PV panels and sorting accordingly; Raw Material Tracking & Bill of Materials; Digitalized plant reports; ERP integration

20MW MODULE PV PRODUCTION LINE



20
MW/Year



10
panels/h



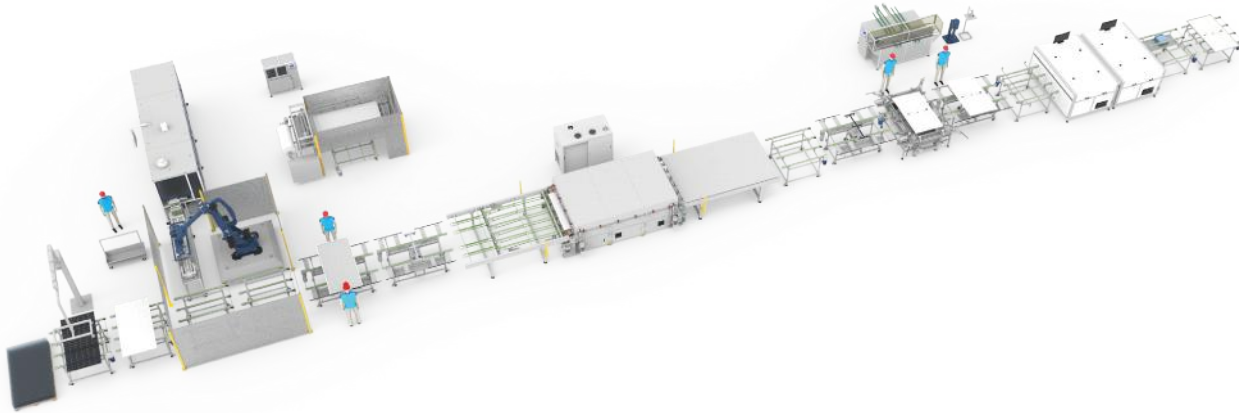
5 workers
per shift



150 kW/h
6bar | 900 nL/1'



750 sqm
area required



100MW HC SMART - SEMI AUTO PV MODULE PRODUCTION



100
MW/Year



25
panels/h



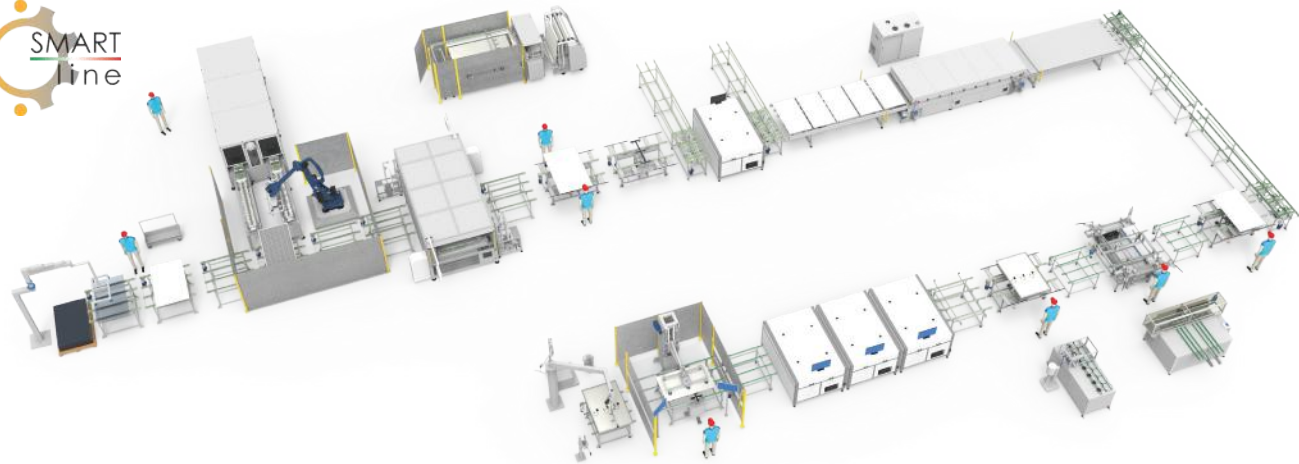
8 workers
per shift



200 kW/h
6bar | 2600 nL/1'



1300 sqm
area required



200MW HC NEXT - FULLY AUTO PV MODULE PRODUCTION



200
MW/Year



50
panels/h



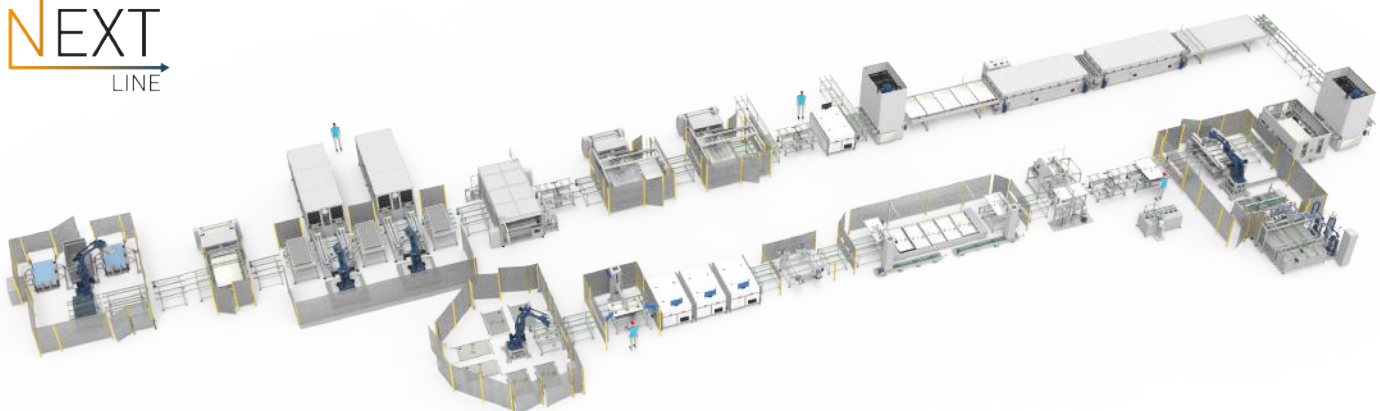
4 workers
per shift



300 kW/h
6bar | 4700 nL/1'



3000 sqm
area required





STRINGER MACHINES FOR YOUR PV PANEL PRODUCTION

Ecoprogetti's infrared stringer machines are designed to solder mono-Si and poly-Si solar cells into strings at a throughput of 2500 cycles/hour. The stringer machine can work with cells' sizes from 166 to 210 mm (9 to 12 BB/Wire) full, half-cut and 1/3-cut.

ETS 4000 - MBB STRINGER MACHINE

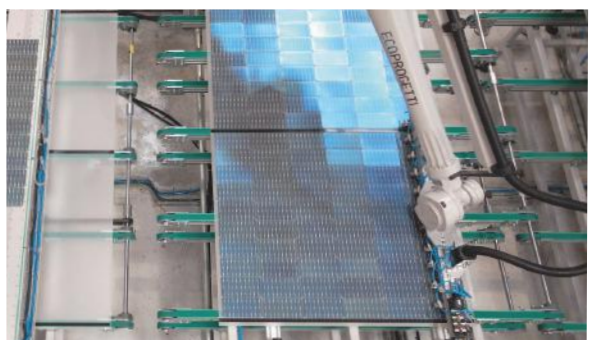
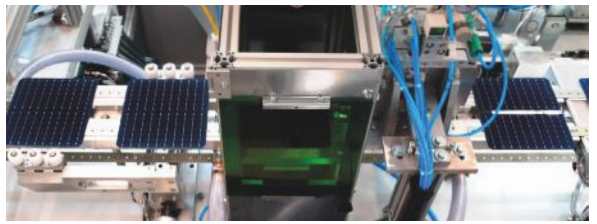
COMPATIBLE WITH 9-10-11-12 BB/WIRE

EMBEDDED CELL LASER SCRIBER

COMPATIBLE WITH ALL SOLAR CELLS' SIZES

| M6 | M10 | G12 | UPCOMING SOLAR CELLS |
|-----------|---------------|------------|----------------------|
| | | | |
| 166 mm | 182 mm | 210 mm | 230 mm |
| 9 Bus Bar | 10-11 Bus Bar | 12 Bus Bar | 16 Bus Bar |

COMPATIBLE WITH FULL & HALF SOLAR CELLS





COMPLETE TRAINING SESSIONS, FULL KNOW-HOW TRANSFER

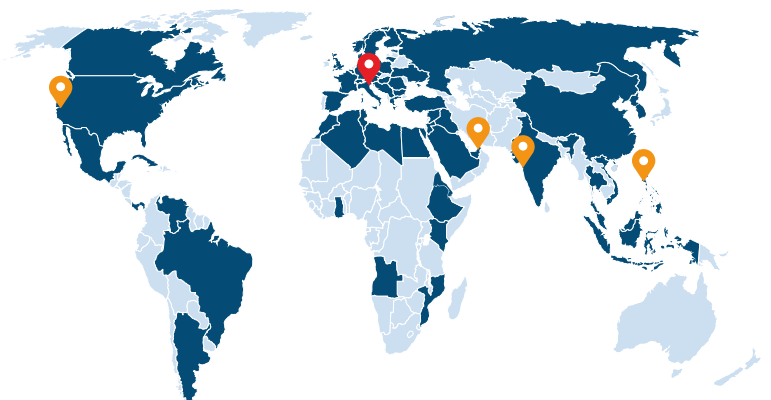
We provide our expertise on PV module production, covering each step of the production, costs optimization and certification of the PV modules. The training provided guarantees that our clients will be able to produce Tier-1 PV modules.

We guarantee tailored consultation for any inquiry involving the making, enhancement, installation and certification of photovoltaic modules.

SERVICE WORLDWIDE, ALWAYS CLOSE TO YOU

Our Services:

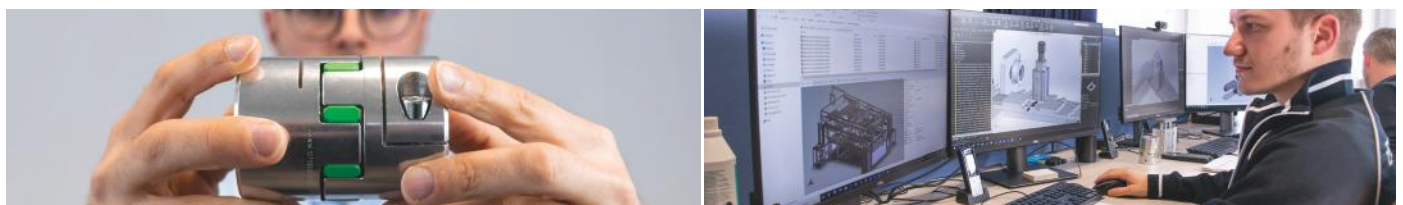
- 360° Service & Support
- Innovative production solutions
- Complete trainings on production process
- Quality testing solutions
- Tailor made projects
- Raw material procurement
- Certification support
- Installation & Commissioning
- After sales support & Remote assistance



 Production site

 Our offices

 Our customers are here



ECOPROGETTI'S AWARDS

- Machinery technology Excellence 2021 by Solar quarter awards.
- Intersolar Award 2018 with the 1st LED sun simulator for Bifacial modules.
- Gold award winner 2018 and 2019 as Manufacturing line Setup by Solar PV Module Tech India.
- Winner of Award 2018 for Solar PV Equipment by Solar+Power Awards.

inter
solar
award

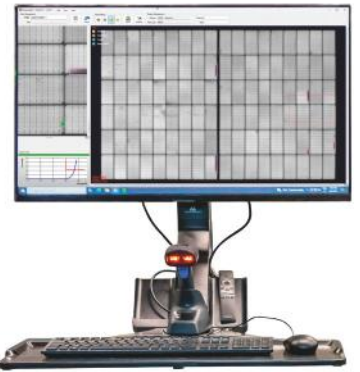




MONITOR YOUR PV PANEL QUALITY

A strict quality control at every stage of the production process ensures higher energy yields of the panels over a long life span.

Fully automated EL Tester



Automatic Cell tester



Fully automated LED sun simulator A+A+A++



Automatic HI-POT tester



MANUFACTURING EQUIPMENT FOR SOLAR PANEL PRODUCTION



GLASS LOADER



FOIL CUTTER



STRINGER



LAYUP



BUSSING



EL TESTER



LAMINATOR



BUFFER



TRIMMING



FRAMING



J-BOXES



LABELLING



HI-POT



SUN SIMULATOR



PACKING



ACCESSORIES

...AND MUCH MORE...

ALL MACHINES ARE DESIGNED & MANUFACTURED IN ITALY





ECOPROGETTI
SPECIALIST IN PHOTOVOLTAIC
PRODUCTION PROCESS

CONTACT US



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