

Bottero
Glass Technologies

End user's sector:
Solar panel manufacturer

CASE *history*



Precision and versatility in the new special automated storage system for renewable energy.

Ferretto Group, in collaboration with Bottero Glass Technology, an important manufacturer of glass processing machinery, has developed an automated storage system for a leading Chinese producer of solar panels.

Objectives:

- Manage the storage of the various types of solar panels, sorted by category
- Implement panel quality control, picking the unit loads and where necessary repositioning them in the correct category inside the system
- Create a buffer between two different product processing stages
- Improve product traceability

Solution:

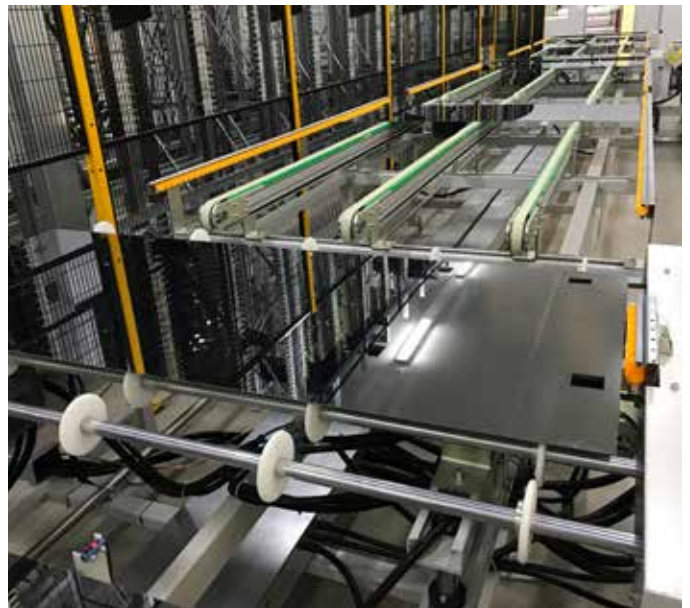
- An automated storage system connecting two production areas, equipped with three single-mast stacker cranes that slide on the same track and fitted with suction cups to handle 3 mm thick panes of glass
- Single-depth industrial racking system with 60 load levels
- Interface and management with WMS developed by Ferretto Group for the storage system incoming and outgoing lines

Technical details:

- Simultaneous management of the three stacker cranes on a single track
- Sharing of storage areas on the racking between the three stacker cranes, in automatic cycle
- Possibility to exclude one or more stacker cranes from the automated handling cycle

Added value:

- Improved product traceability and storage
- Optimised company production processes
- Optimised quality control processes



Storage system facts and figures:

Total surface area:	150 m ²
UL:	panes of glass for photovoltaic systems, dimensions 664mm x 1587mm x h 3mm, weight 8 kg
Overall capacity:	3,240 panes of glass for photovoltaic systems
Load levels:	60
Type and number of stacker cranes:	three single-mast
Handling systems:	suction cups