



PV Manufacturing Solutions Covering Ingot to Module

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PV | Li-ion | Semi

Well-known Intelligent Equipment Manufacturer

Founded in 2010, Wuxi Autowell Technology Co., Ltd. currently has more than 4000 employees. On May 21, 2020, Autowell was listed on the STAR Market and the stock code is 688516.



R&D personnel

1237



patents obtained

2361

* Including 1879 patents

* Data as of June 30, 2025



countries and regions

40+



customers around the world

1000+

* Data as of October 30, 2025



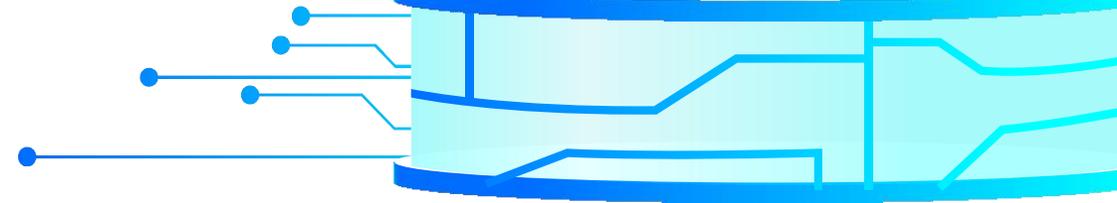
ATW's business has covered **1000** customer bases in **40** countries around the world.



ATW Smart Manufacturing



One Stop Shop



Star Product



PV Cell Stringer— Global No.1 Market Share

PV Products - Ultra High Speed PV Cell Soldering stringer (AM050K/KA)

10800 strips/hour

Suitable for 156~230 mm

Suitable for 5BB~24BB

- Compatible with the high-temp、 medium-temp、 low-temp soldering for **TOPCon, HJT, PERC cell**
- Support round, special-shaped and **thinner** ribbon which can be fully controlled and accurately positioned through the operation
- **Teflon conveyor**, preheating baseplate and flexible soldering are used
- **Retractable** conveyor realizes multi-cell stepping
- Cell Cut module and Soldering module run separately to reduce mutual interference
- Two modes, i.e. cell cut **with/without water**, are available, improving the reliability of module
- applicable to more soldering technics by update
- **0BB tech/ Multi-cut Cell** upgrade available



PV Products - High Speed PV Cell Interconnection System

(AM050K/KA&AM059BA)

10800+ strips/h

String rework $\leq 1.5\%$

Pre-lamination rework $\leq 5\%$

- **Strong compatibility:** integrating the cutting and soldering of cells and the layup and interconnection of strings, suitable for various cells and modules
- **Stable operation at high speed:** cycle time 40S, 1 v 1 docking mode helps reduce the risk of whole line shutdown
- **High yield:** ideal for thinner cells due to less transfer of string
- **Efficient and intelligent:** real-time quality monitoring of the interconnection process from cell to module, AI detection



AM050K

AM059BA

PV Products - PV Module Laminator (KM251/252)

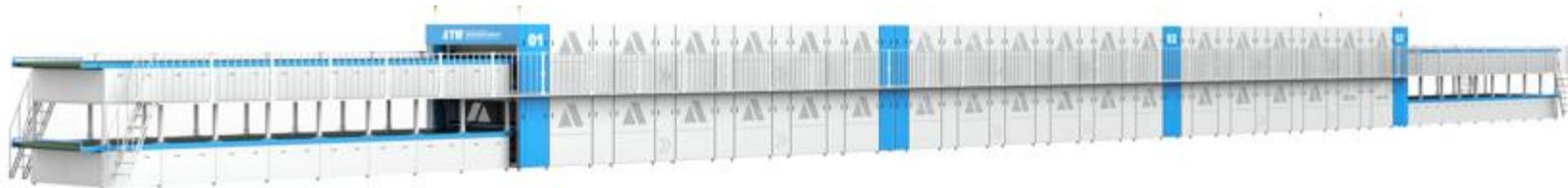


Effective lamination area: 2700mm*11500mm

Heating method: oil/electrical heating

Suitable for Crystalline silicon module / BIPV / Perovskite / Thin-film solar module / HJT solar module

- Equipment type: single/double layer triple stage
- Temp control range: Room temp - 180°C
- Equipment weight: 200t
- Temp uniformity control: **real-time current monitoring** of the heating module, 100+ temp measuring points serving the intelligent temp control system
- Optional functions: **upper heating, pins, flat press, inflation press, curved glass laminate**, etc.
- **Novel insulation approach: energy consumption reduced by 16%**
- **Tailored to your needs**
- **Trial lamination at ATW is possible**

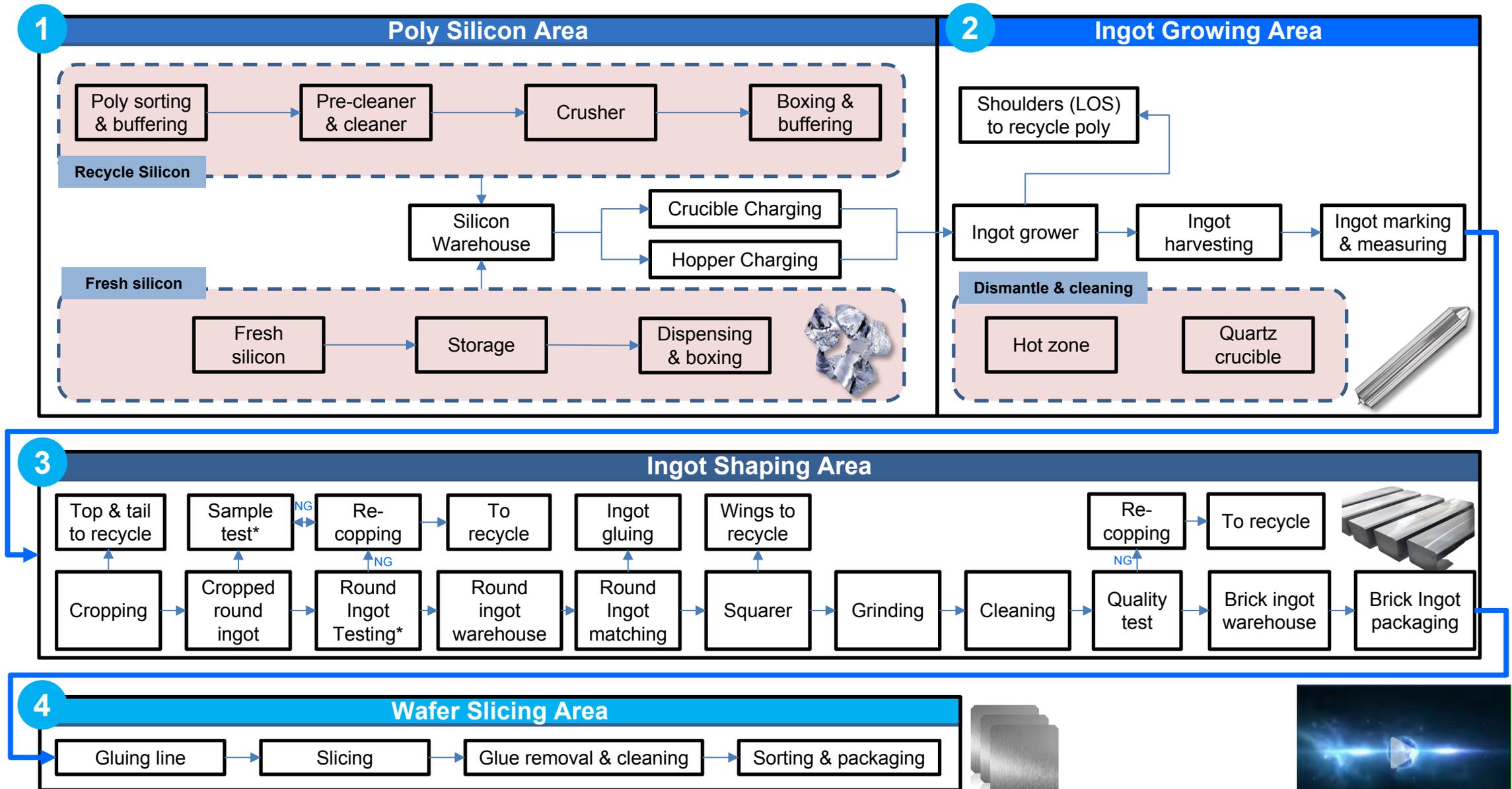


A decorative graphic on the left side of the slide, consisting of a series of curved, overlapping lines that create a sense of depth and movement, resembling a stylized 'A' or a series of concentric arcs.

**Core Business—
Complete Ingot Production
Line Solutions**

A decorative graphic consisting of a 4x4 grid of small blue dots, arranged in a square pattern.

Whole manufacturing process flow from ingot to wafer (standard)



Note: (1) Sample test: Oxygen & carbon detection ; (2) Ingot test: Minor crack, minority lifetime, resistivity, coding



PV Products - Crystal Growth Furnace (SC-1600-III)



Ingot



Wafer



Cell



Module



- **Better Oxygen Reduction**

Oxygen content in ingot is reduced to **9ppm**.

- **One-Click Smart Crystal Growth Solution**

Enables fully automatic crystal growth **from feed to body growth to tail growth**.

- **New-Generation Software Control System**

Leveraging the SCEC digital twin technology, helps build unmanned smart factories.



PV Products - Wafer Inspection System (AM018TH)

●
Ingot



Wafer

●
Cell

●
Module

20000wafer/hour

Suitable for 182~230 mm

**Compatible with both
full wafer and half-cut wafer**

Wafer crack≤0.1%

- Thickness / TTV / Saw Mark / Bow
 - Edge Length / Diagonal Length / Squareness / Parallelism
 - Resistivity
 - Side Edge / Stain / Micro-crack/Hole (Deep Learning)
- 3σ Accuracy
 - ✓ Thickness: 0.5μm
 - ✓ TTV: 1.5μm
 - ✓ Saw Mark: 2μm
 - ✓ Bow: 6μm
 - ✓ Size: 30μm

Long-wave near infrared light +InGaAs camera

Eliminate the interference of visible light, form vivid imaging, improve detection effect of micro-crack

Hole inspection module

Effective detection of tiny holes greater than 200μm, surface chip and bright point edge

AI + traditional algorithms

Customizable detection thresholds for strict control of quality



PV Products - Wafer Automation Pack Line (AM051BA)



●
Ingot



Wafer

●
Cell

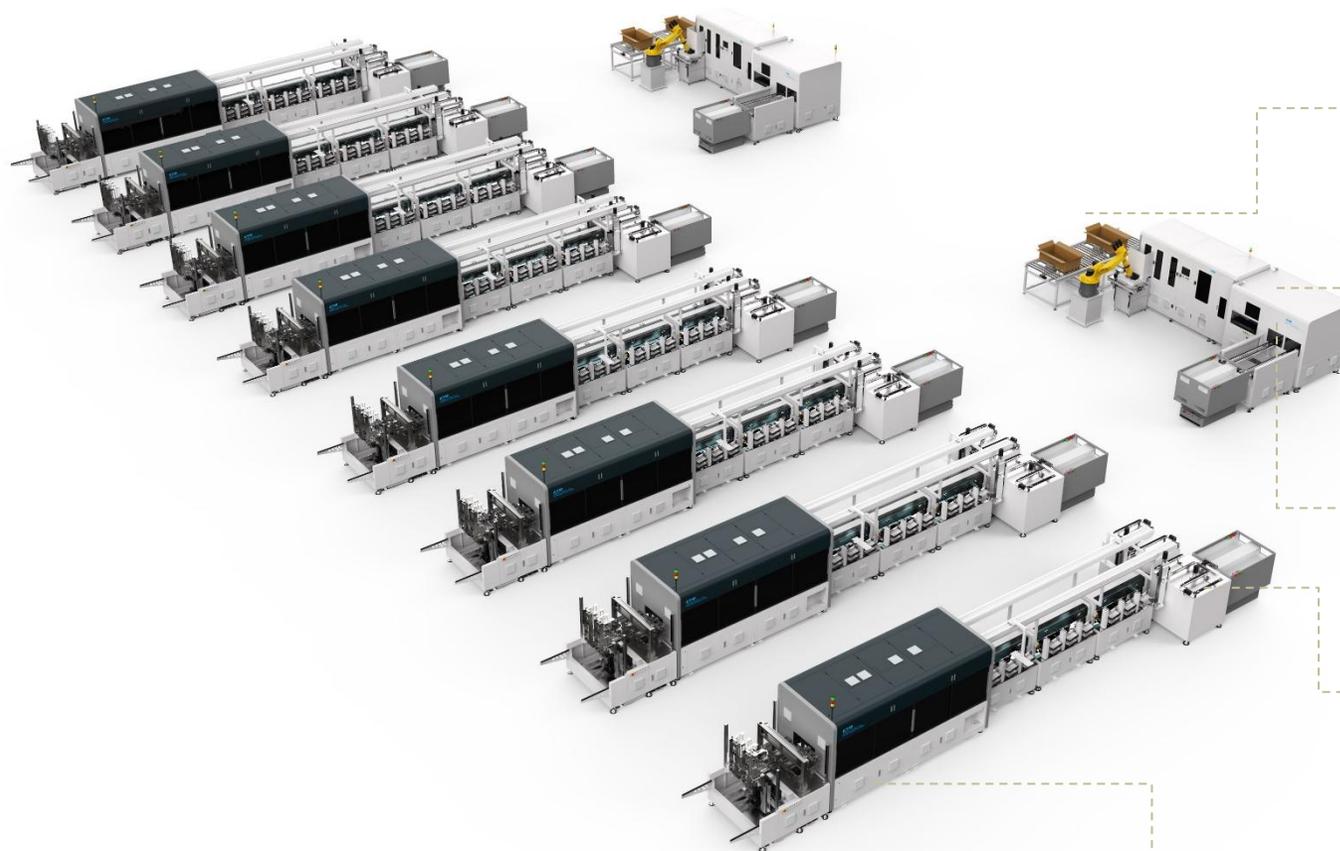
●
Module

Serve ≥ 4 wafer inspection systems

Miss rate: $\leq 0.01\%$

Compatible with both
full wafer and half-cut wafer

Information
intelligence



Fully automatic boxing line

Fully automatic bagging

Fully automatic wafer re-inspection

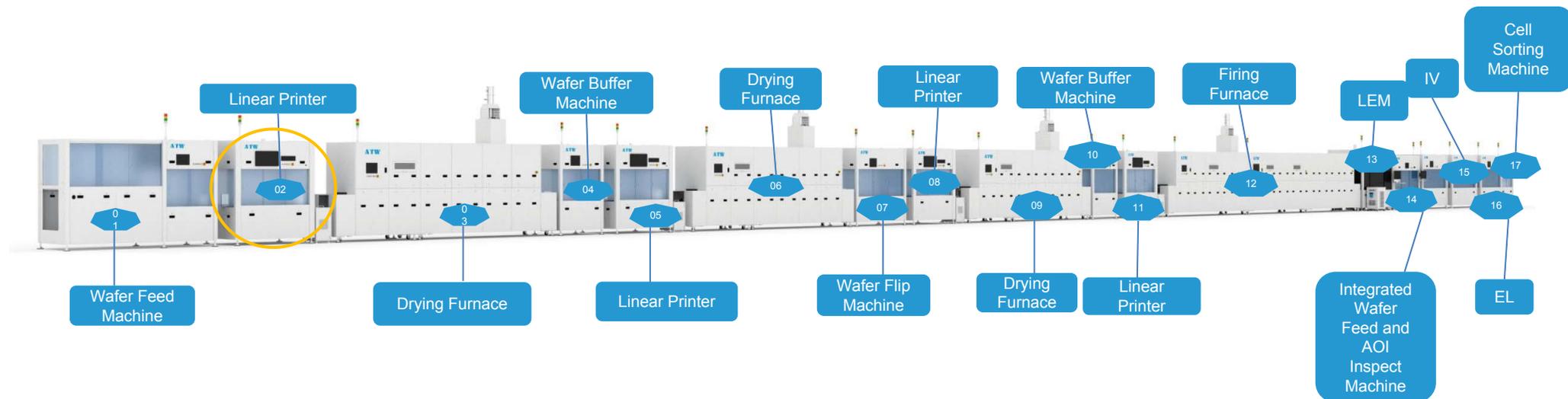
Fully automatic unloading AGV

Wafer Inspection System

PV Products - PV Cell Screen Printing Line (DM616/612)

New-generation full/half-cell line printing system—higher capacity, higher accuracy

- Faster speed due to linear and reciprocating printing; **CT for 182 cell ≤ 0.7s**;
- Strong expandability; **compatible with the printing of half-cut cell**;
- Driven by high-speed linear motor and DD motor leads to higher precision;
- Simple structure, **easy operation** and maintenance;
- Linear motors, PLC, servo motors and other control modules from globally leading brand are used ;



PV Products - LPCVD (MM650)

Next-generation LPCVD optimized for BC battery processes

- **Good** consistency and controllability of temperature zones;
- The use of our own patented air inlet improves the **uniformity and controllability** of the flow field;
- Long service life of quartz tube;



Prismatic Cell ESS Module PACK Assembly Line



Production
Capacity
8-40 PPM

Utilization Ratio
≥95%



AGV Navigation
QR Code Type or
Magnetic Strip Type

Safety Control

12 safety control points to ensure the safety of entire line.

Quality Control

15 quality control points to ensure the quality of whole line.

Structure Design

Standardized and modular design, stable and reliable structure.

Appearance Design

Professional metal plate design, sound isolation, noise reduction and compact.

High Flexibility

Compatible with multiple processes and different types of cells, easy to switchover.

High Automation

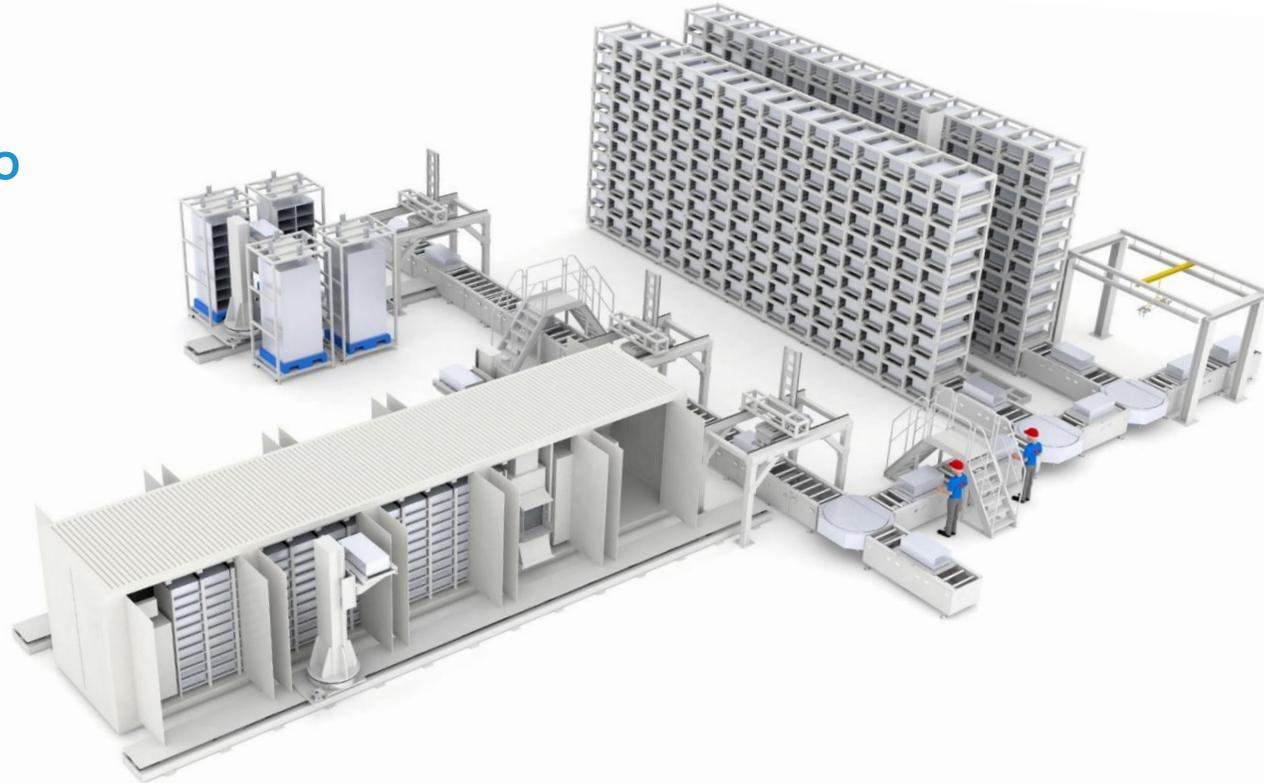
Highly automated, easy to operate and labor saving.

ESS Container Assembly Line



Production
Capacity
8-60 JPH

Utilization Ratio
≥95%



**High
Integration**

The integration of assembly line, heavy load handling system and test system

**Automation
of Key
Stations**

Automated process for key stages like insertion of PACK to container and PACK rack tightening

**Product
Safety
Control**

Quadruple positioning, overpressure protection and anti-drop functions are available for inserting PACK into container

**Automated
Logistics**

Auto loading of container, PACK and housing

40⁺ countries witnessed ATW service

70%⁺ worldwide market share of core products

10-year global service experience

24-hour online service

- 🕒 Excellent after-sales service in Chinese and English.
- 📄 Complete technical documents in Chinese and English, various installation and commissioning work instructions, videos, etc. are available for use.
- 🌐 An over 70% global market share of our core products enables ATW to provide service in a timely manner.
- 👥 A large share in overseas market represents many technicians are familiar with ATW products and it is easier for customers to hire technicians and maintain the equipment.
- 🛒 Most of our standard parts are purchased from internationally known suppliers to ensure top quality of our products and the disclosure of part model allows our customers to acquire these parts more easily.



As of December 31, 2025 equipment supplied by ATW has helped



1.5⁺ trillion kWh

Generate solar power



457⁺ million tons

Save coal



1154⁺ million tons

Reduce carbon emissions

**Based on the solar irradiance of Beijing*



**Build Smart Factory With New Technologies
And Promote Worldwide Intelligent Manufacturing.**

