

**SOUTHERN
MACHINERY**


S SOUTHERN
MACHINERY

SOUTHERN MACHINERY: ELEVATING EMS OPERATIONS

Comprehensive SMT & THT Solutions for the Modern Technician

Seamless Integration | Scalability | Shenzhen Speed

www.smthelp.com

 www.smthelp.com

THE STANDARDS OF THE SMART FACTORY



QUALITY:

Precision placement reducing errors and rework.



SPEED:

High-volume throughput for fast-paced electronics manufacturing.

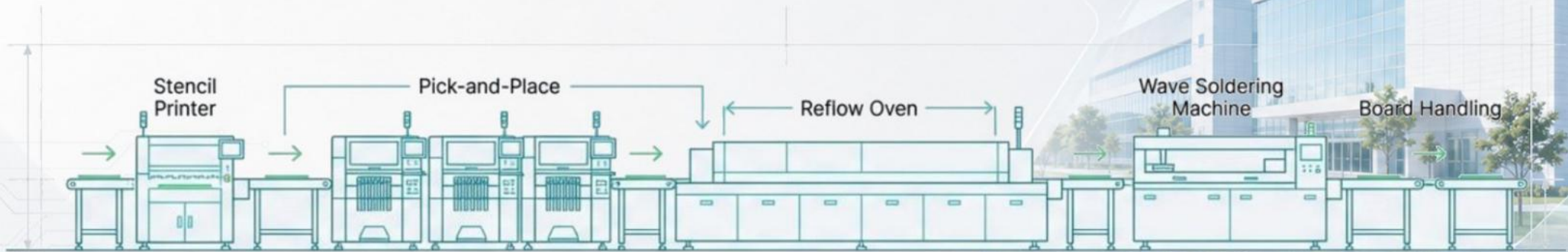


VISION:

Sharing the successful experience of 'Made-In-China' with customers worldwide.

Your production targets are our design philosophy.

END-TO-END LINE INTEGRATION



SCOPE

From Stencil Printing and Pick-and-Place to Wave Soldering and Board Handling.

PHILOSOPHY

Seamless integration with existing equipment (Panasonic, Mirae, JUKI, YAMAHA).

RESULT

Minimal downtime and maximum throughput. Clean, flat design with no gradients or shadows.

A modern, multi-story office building with large glass windows and a white facade. The Southern Machinery logo is visible on the upper right side of the building. The building is surrounded by greenery and a paved area.

RELATED PRODUCT INFORMATION

Please see our company's related product information below.

AOI • Insertion • Board Handling • Cleaning • Printing & Solder Paste Process

SMT & THT Inspection Solutions

AOI, 3D AOI, SPI, DIP AOI and First Article Inspection for Electronics Manufacturing



1 SMT AOI & 3D AOI



AIS40X Series-SMT



AIS43X Series-3D

2 THT & DIP AOI



AIS30X Series-THT



S-AX520 Series DIP AOI

3 Multi-side Inspection



AIS50X Series-Multi

Inline double-side inspection for components and solder joints

4 SPI Solutions



AIS63X Series-SPI

Inline Solder Paste Inspection for accurate print quality control

5 First Article Inspection



SF900

SMT First Article Inspection System
Fast programming, accurate verification,
automatic test report



High Precision Inspection

Advanced vision & algorithms ensure high accuracy and low false alarm



SMT & THT Compatible

Complete inspection solutions for SMT, THT and mixed technology lines



Inline & Offline Solutions

Flexible configurations for inline production and offline verification



Reliable Quality Control

Improve yield, reduce rework and ensure consistent quality





THT / SMT Insertion & Odd-Form Solutions

— Axial Inserters, Radial Inserters, Jumper Wire Inserters and Odd Form Insertion Machines —

1 Axial & Jumper Wire Insertion



S-2000
Jumper Wire Auto Insertion Machine



S-4000
Axial Inserter



S-4000H
Jumper Wire Axial Inserter

2 Radial Insertion Solutions



S-3820A
Radial Insertion Machine



S3010A
Radial Inserter



3000 Series
Radial Machine

3 Odd Form Insertion



S7900
Odd Form Insert Machine



S7020
Odd Form Insertion Machine



High Precision



Flexible Feeding



Stable Automation



THT / SMT
Compatible

Professional THT & SMT Automation Solutions Provider



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SMT LOGISTICS & BOARD HANDLING SOLUTIONS

Loaders, Destackers, Conveyors, AGV Logistics and Transfer Equipment
for Electronics Manufacturing

1. PCB LOADING & MAGAZINE HANDLING



SLD330D
PCB Magazine Loader



L Type
Magazine Loader



Dual Magazine
Line Loader



PCB
Vacuum Loader

2. DESTACKER & COMBO LOADER SOLUTIONS



PCB Destacker



Magazine & Destacker
Combo Loader



Magazine & Vacuum
Combo Loader

3. CONVEYORS & TRANSFER EQUIPMENT



S-350C
SMT Buffer Conveyor



SAC460
Telescopic Gate Conveyor



Flexible
PCB Handling



Stable
Board Transfer



Automated
Logistics



SMEMA
Compatible

SMT & THT Cleaning Solutions

— PCB / PCBA Cleaning, Stencil Cleaning, Fixture Cleaning, DI Water & Ultrasonic Systems —

1 PCB & PCBA Cleaning



SCM5600D
PCBA Cleaning Machine



SME-350MB
PCBA Inline Semi-Aqueous Cleaning Machine



SME210
Mis-Print PCB Cleaning Machine

2 Stencil Cleaning



SME800
Electric Stencil
Cleaning Machine



S-1688
Pneumatic Stencil
Cleaner



SME-750II
Pneumatic Stencil
Cleaner



SRH-K934
Stencil Cleaning
Machine Solution

3 Support Equipment



DI-250
Industrial Pure Water
Machine



SME5200
Fixture Cleaning
Machine



S-100A
Ultrasonic Cleaner



High Cleanliness
Superior cleaning performance
for reliable electronics.



Stable Process
Consistent results with proven,
reliable technology.



Energy Saving
Optimized design for lower
consumption and costs.



Factory Ready
Easy integration, plug-and-play
for modern production lines.



Printing & Solder Paste Process Solutions

Screen Printing, Laser Marking, Solder Paste Mixing and Auxiliary Equipment for SMT Electronics Manufacturing

1. Screen Printing Equipment



SP-300
Semi-Auto Screen Printer



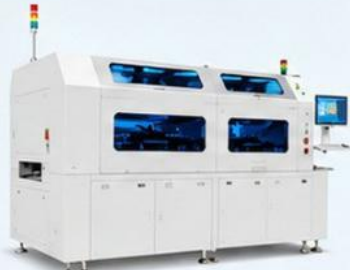
SP-350
Semi-Auto Screen Printer



SP-1200
Semi-Auto Screen Printer



H5
Automatic Visual
Screen Printer



SP1500
Fully-Automatic Inline
Stencil Printer

2. Laser Marking & Stencil Making



S-400T
Automatic Laser
Marking Machine



SL6060
SMT Stencil Laser
Making Machine

3. Solder Paste Mixing Equipment



S-PM440
Solder Paste Mixer



S-SPM01
Solder Paste Mixer



S-PM550
Needle Tube Solder
Paste Mixer

4. Printing Accessories & Automation

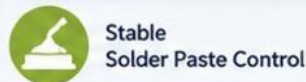


Squeegee Blades



GH-1001
SMT Manipulator

SMT Scraper Control Loop





SMT & THT FEEDER SOLUTIONS

— Label, Tube, Axial, Radial, Bulk, Stick and Vibratory Feeding Solutions for Automated Electronics Assembly —



SLF100X Label Feeder



SRF1001



SSPC101 Solder Chip Feeder



BF220L Vibratory Bowl Feeder



S-JVF02 Vibration Stick Feeder



RTF-2002 Radial Feeder



ATF-1002 Axial Feeder



TF-1001D Tube Feeder



S-MVF01 Bulk Feeder



FLEXIBLE FEEDING

Supports multiple component types and packaging forms



STABLE PERFORMANCE

Precision control and reliable operation for high consistency



CUSTOM SOLUTIONS

Tailored designs to meet your unique production needs



FACTORY AUTOMATION

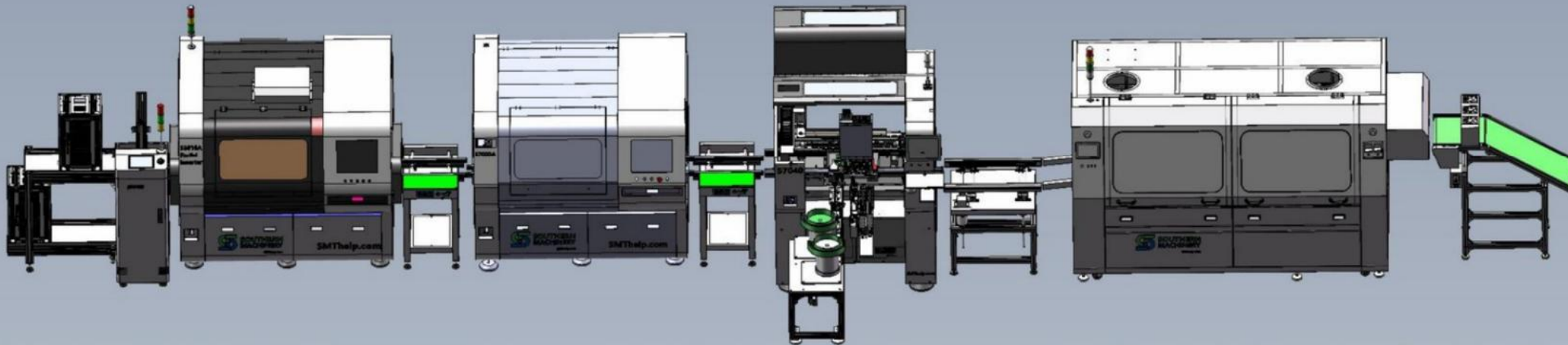
Seamlessly integrates with SMT/THT lines for smart manufacturing



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MASTERING AUTOMATION FOR THT

Radial & Axial Insertion Solutions



MACHINES

S-3000 Series, S-4000.

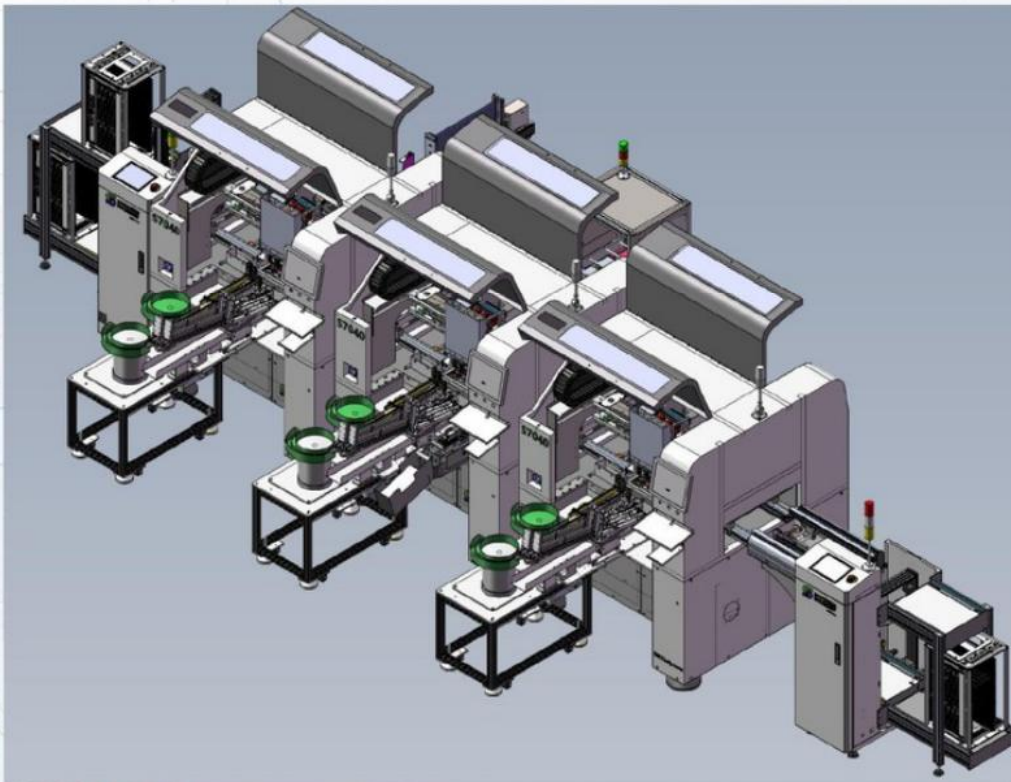
CAPABILITIES

Handling Radial component insert, Axial component insert, and Bulk LED.

WHY AUTOMATE?

Replace manual labor with consistent, high-speed precision.

SOLVING THE 'ODD FORM' CHALLENGE



THE PROBLEM

Non-standard components that defy standard feeders.

THE SOLUTION

S-70LD Odd Form Insertion Machine.

APPLICATION

Eyelet/Pin Insert, heavy components, complex shapes.

OUTCOME

Full automation of the 'difficult' parts of the board.

TECHNICAL SERVICES & TRAINING



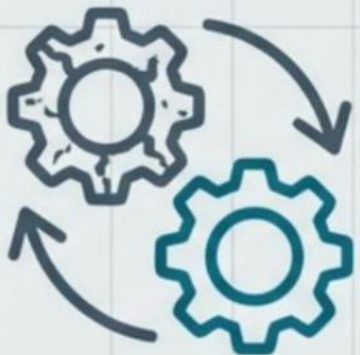
INSTALLATION

On-site commissioning and setup.



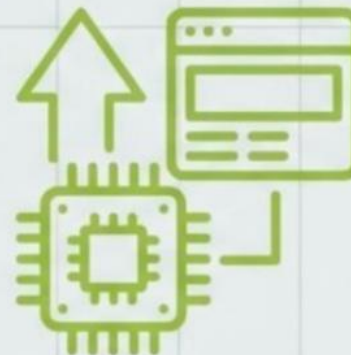
TRAINING

Operator programming, maintenance protocols, software usage.



OVERHAUL

Refurbishing older machines to factory specs.



UPGRADES

Software and hardware retrofit kits.

“Focus on your manufacturing—we handle the set-up.”

THE SMTHELP ECOSYSTEM in Machinery Blue

Concept:

A comprehensive support hub for the electronics manufacturing industry.

Maintenance:

S-6200 Nozzle cleaning machines, SMT Reel Scrap Tape cutters.

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Inventory:

Spare parts, Feeders, Nozzles (Design & Manufacturing).

Tagline:

Everything you need to keep the line moving.

FIELD EXPERTISE: BOOTS ON THE GROUND



- **Experience:** Technical experts with over 20 years in the electronic industry.
- **Commitment:** Engineers travel overseas 2-6 months each year.
- **Service:** On-site installation, troubleshooting, and training for senior engineers.

REVITALIZATION: RETROFIT & OVERHAUL



- **Services:** Machine troubleshooting, retrofit, overhaul, and relocating.
- **Upgrades:** Modernizing older SMT/AI machines to meet current standards.
- **Spare Parts:** Providing AI spare parts for all major brands.

BORN IN THE HARDWARE CAPITAL

Founded: March 2011, Shenzhen, China.

Structure: Privately held, approx. 20 employees.

Innovation: Software developed in-house with owned patents.

Mission: Incorporating the rich manufacturing experience of Shenzhen into global operations.



Custom Nozzles:

- Picking and placing THT components
- Interchangeable rubber tips for mounting dies

GLOBAL REACH, LOCAL SUPPORT



PLANNING



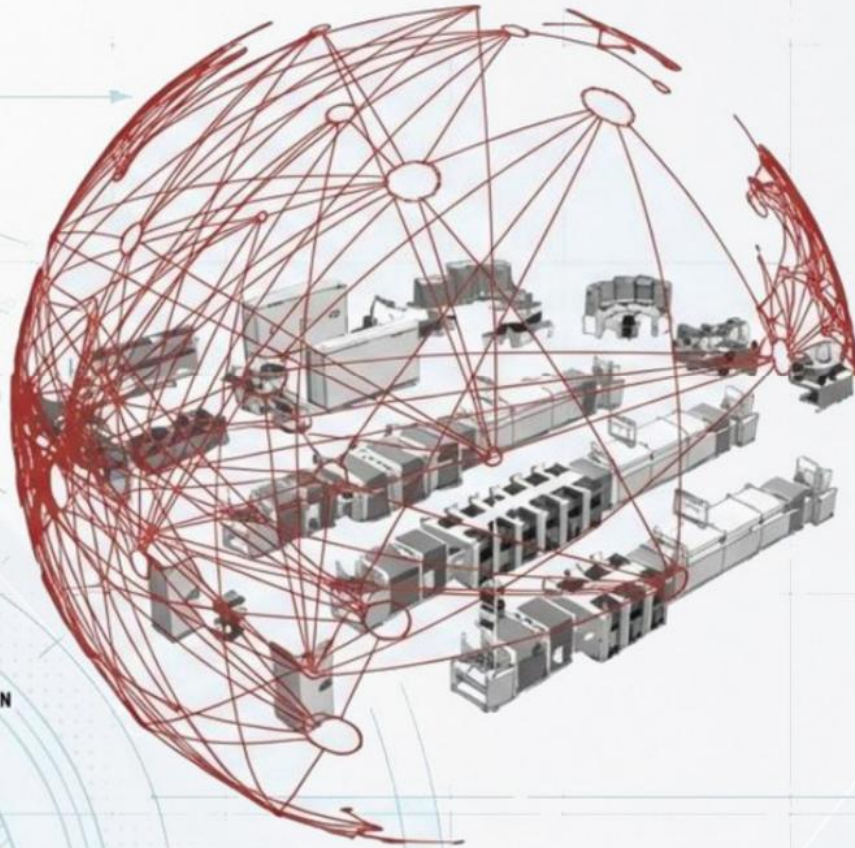
VIRTUAL PRODUCTION



PROCESS OPTIMIZATION



PRODUCTION



MATERIAL MANAGEMENT



PREPARATION



FACTORY MONITORING



FACTORY INTEGRATION

● NETWORK:

Complete sales network providing factory training and local market support.

● AVAILABILITY:

7*24 hours service anywhere via cloud technology.

● PARTNERS:

Trusted by 237+ EMS clients globally.



DRIVING THE INDUSTRIES OF TOMORROW

We power the production of:



Automotive:

Vehicle power supplies,
Car audio.



LED Technology:

Lighting, Displays,
Control systems.



Home Appliances: Air
conditioners, Microwaves,
Induction cookers.



Electronics: Power
supplies, Ballasts,
Electronic instruments.

 SOUTHERN
MACHINERY

LET'S OPTIMIZE YOUR PRODUCTION LINE



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