

S7900 odd form insert machine

SOUTHERN

No.

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PRODUCT GUIDE www.SMThelp.com

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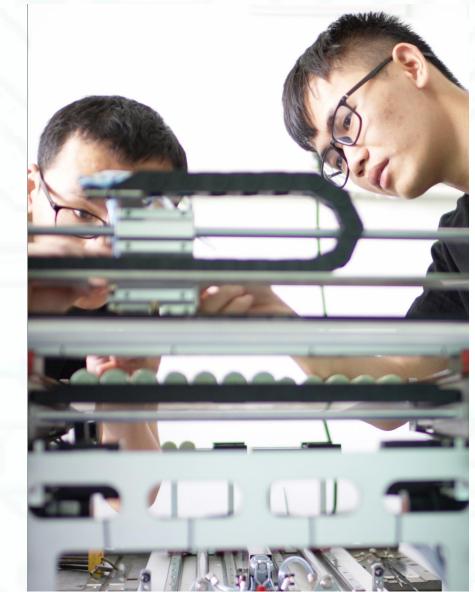
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MACHINERY Overview Of S7900 Odd Form Insertion Machines

Overview

The S7900 Series Odd Form Insertion Machine is a high-speed, versatile solution for automatically inserting components like terminals, pins, eyelets, tact switches, and oddform parts into PCBs. With customizable configurations to suit various components and feeding systems, it enhances efficiency in PCB assembly across industries such as home appliances, automotive electronics, and digital products.

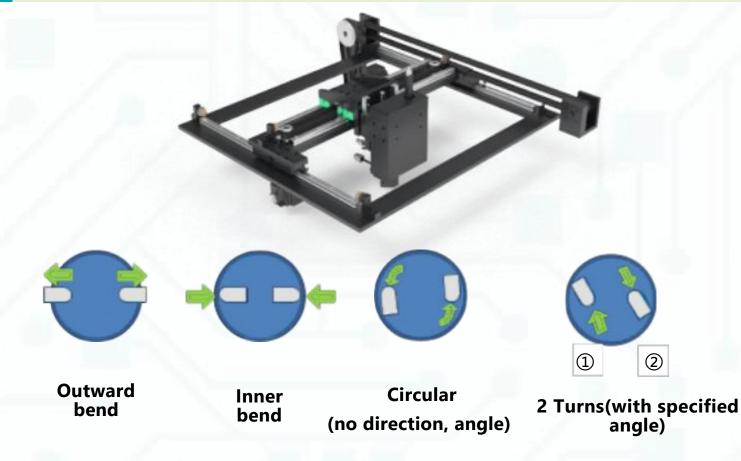
Vidio Link: https://www.youtube.com/watch?v=KMk6hHi3V-8



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SOUTHERN MACHINERY OPTIONS FEATURE : Lead Clinching Unit



As shown in the figure, there are 4 types of outward bending, inner bending, circular bending and 2 turns bending. Some models are applicable. Please confirm with the local sales representative before purchasing.

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Specification Model		S7900– II	S7900-IV	Model S7900-IV-P	S7900-VI	S7900-VI-P
Si	ze(LxWxH)	$1050 \times 1680 \times 1870$ mm	$1300 \times 1700 \times 2000$ mm	1550×1900×2100mm	$1300 \times 1700 \times 2000$ mm	1550×1900×2100m
	Weight	1250 kg	1650 kg	1750 kg	1730 kg	1800 kg
	ation System		0: 1 0:1	Windows	D 11 011	01 1 011
	o. Of Door	Single Side DoubleSide Single Side				
	Grating (Door) ir Supply	0.5-0.65 MPa(ANR)				
	Max Power	4.5 KW	5.4 KW	6.6 KW	5.2KW	6. 3KW
	Run Power	2 KW	3.3 KW	0.0 K	3.5 KW	0. 51%
	insertion Heads	2	4	4	6	6
Max Component Size		φ 50 (35×35)mm			ϕ 30 (17 $ imes$ 17) mm	φ50 (35×35)mm
Component Height		≤25mm	≤30mm	≤25mm	≤20mm	≤30mm
	nt Feeding Type			Nozzle/Clamp		
Speed /each Component		0.8 S	0.7 S	2S (with lead clinching)	0.6 S	0.6 S
Placemer	ntAccuracy CPK≥	±0.06mm	± 0.06 mm	\pm 0.05mm	\pm 0.06mm	± 0.05 mm
Insert Power		≤29.4N	≪98N	≤29.4N	≤29.4N	≤29. 4N
Insertion Direction				0-360°		
Insert	ComponentObject	Connector, Switch, Socket Transformer Coils, Ports, Capacitors, Resistors, IC, Etc				
PCB	8 Size(LxW)	$70 \times 70 \sim 300 \times 500$ mm	$70 \times 70 \sim 410 \times 500$ mm	$70 \times 70 \sim 450 \times 400$ mm	$70 \times 70 \sim 410 \times 350$ mm	$70 \times 70 \sim 410 \times 360$
Carrier Size (LxW)		Max 350×500 mm	Max 500×500 mm	Max 500×550 mm	Max410 imes 350mm	Max 410×360mm
PCB thickness				0.6-2.0mm		
Conveyor Space		25 mm/20 mm	30 mm/20 mm	25 mm/20 mm	20 mm/20 mm	30 mm/20 mm
Max.PCB Weight			5 Kg		2 Kg	5 Kg
	luded side width					
PCB Fixed Type Conveyor Type			Chain	Sero/Cylinder clamping	Belt	Chain
PCB Direction			Ullatii	Rto L/Lto R	Dert	Ullatii
Conveyor Section		3				
Conveyor Adjusting		Auto				
Conveyor Height		750 ± 20 mm		900±	20mm	
Lead Clinching Unit		/	/	Standard	/	Option
SMEMA		Standard Configuration				
MES	Connection			Standard Configuration		
Vision	Mark CCD (Top)			1		
System	Component	2	4	4	2	6
	CCD (Bottom)					
Max Stations	201 Radial Tape Feeder 218 Radial Tape Feeder 207 Radial Tape 90° Feeder	4	6	6	10	6
	259 Radial Tape Feeder 254 Radial Tape Feeder	6	12	12	20	12
	202 Axial Tape Feeder	4	6	6	10	6
	222 Tube Feeder	6	12	12	20	12
	203 Tube Feeder	4	6	6	10	6
	205 Bowl Feeder	4	4	4	8	4
	Tray Feedei	1	1	1	2	1
	Rema	ark:lf different type	s feeders mixed using	, the num.of feeders an	re depended on combina	ation.

*1 Air source is atmospheric pressure Frost point: -17° C or less, particulate powder: particle size 5 μ m or less, and Maximum oil concentration: 5mg/m3 or less, in addition to the machine installation requires an air source *2Varies depending on the conditions of use

*3Depending on different components

*4The use of the plug-in foot bend module replaces the top plate mechanism.

*50nly provide the original factory setting information. Need to be customized to match the customer's system (optional items)

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SOUTHERN MACHINERY Key Features Of S7900 Odd Form Insertion Machines

Key Features

Unified Design: Integrated structure and software for easy operation and maintenance.

Cost-Effective: Priced at one-third of comparable machines.

High Efficiency: Replaces three manual workers with faster speeds and lower maintenance costs. **User-Friendly:** Simple operation, with one-day training.

Global Support: 24/7 service, free installation and training, and spare parts delivered within a day.





Achieve high productivity in any environment

- Consistently high performance
- Flexibility to handle any application

Streamline changeover for high-mix

- Versatile machine configurations
- Flexible hardware and software tools

Maximize ROI

- Designed to thrive in low-utilization environments
- Superior to manual assembly

Enjoy lowest cost of operation and ownership

- Economical and environmentally friendly
- Built to maintain investment protection

ACHINERY Advantages Of S7900 Odd Form Insertion Machines

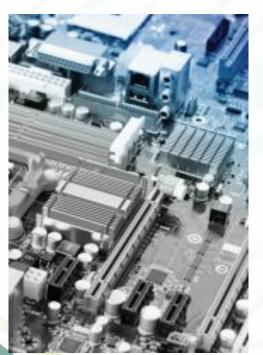


Mainstreaming odd-form for enduring profitability

A Shift in Focus – Adapting with Flexible Automation

In today's market of volatile labor costs, tight time-to-market demands, and increasing product complexity, electronics manufacturers face pressure to maintain margins. While efforts often focus on optimizing upline efficiency, significant productivity gains can be achieved by improving end-of-line odd-form assembly processes.





Comprehensive Odd-Form Automation Solutions

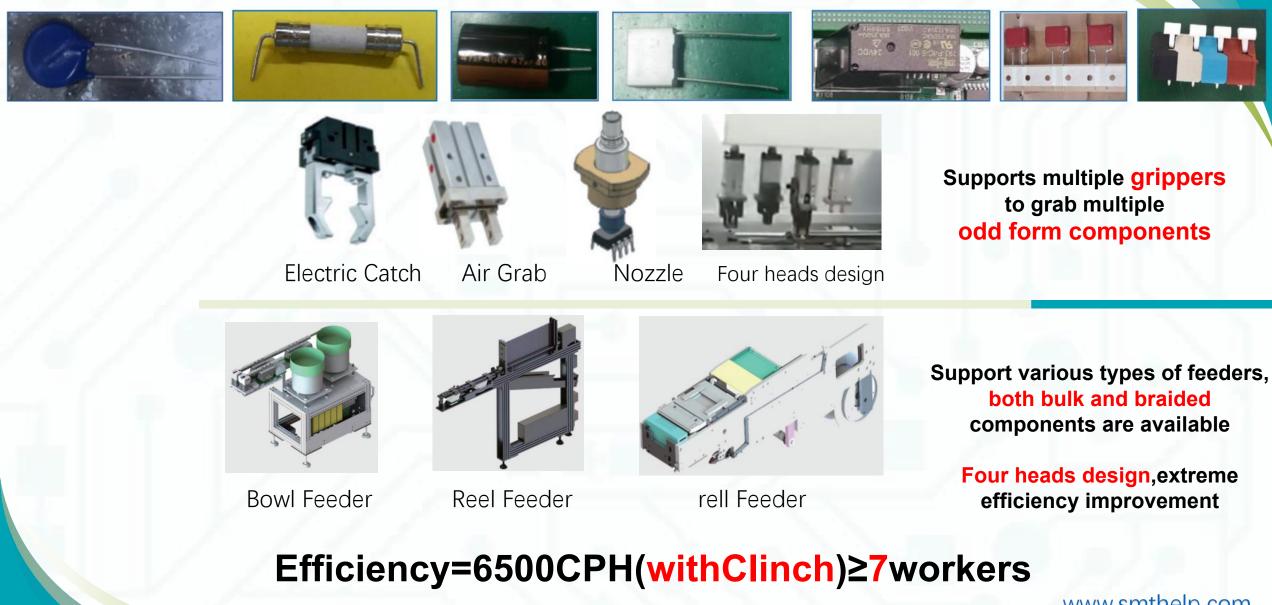
Southern Machinery offers flexible, customer-focused automation solutions, backed by over 20 years of expertise in odd-form assembly. Our flagship S7900 Platform delivers unmatched performance and versatility:

- Comprehensive solutions for all markets and applications.
- Industry-leading experience and knowledge base.
- High-speed platform for surface mount, odd-form, pin-in-paste, and semiconductor assembly.
- Compatibility with existing S7900 systems.
- Integrated through-hole and complex automation options for seamless single-vendor solutions.

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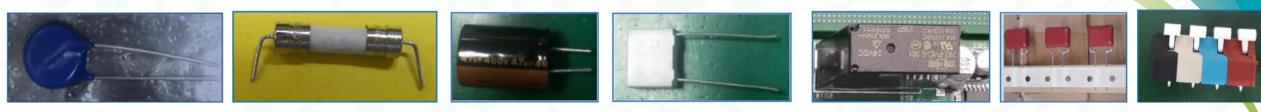


SOUTHERN MACHINERY Unmatched Versatility - S7900 Odd Form Insertion Machines



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SOUTHERN MACHINERY Unmatched Versatility - S7900 Odd Form Insertion Machines



Component Range:

Dimension:1400X1000X1

350X300mmFour heads

600mmPCB size:

design



Terminal



Eyelet



Pin

Wide range of applications,can insert 4 kinds of odd from components at the same time.

Tack Switch

Vidio Link: https://www.youtube.com/watch?v=KMk6hHi3V-8

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Southern Machinery 2023 Catalog

ABOUT US

With more than 20 years of SMT experience, continuously improve product quality, product quality is outstanding





We have cooperated with many highquality customers, and **the brand is trustworthy** Has an independent manufacturing plant and design team, with independent production and research and development capabilities



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Best After-sales service

- 7x24 Worldwide Support
- Free Installation/ Training
 - 1 day lead-time (spare parts)
- 1 Month customize solution



Welcome Inquiry



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