

Southern Machinery feeder solutions for SMT & THT

Enhancing efficiency and precision in electronics manufacturing, including axial, radial, tube, vibratory bowl, belt, label, and tray types

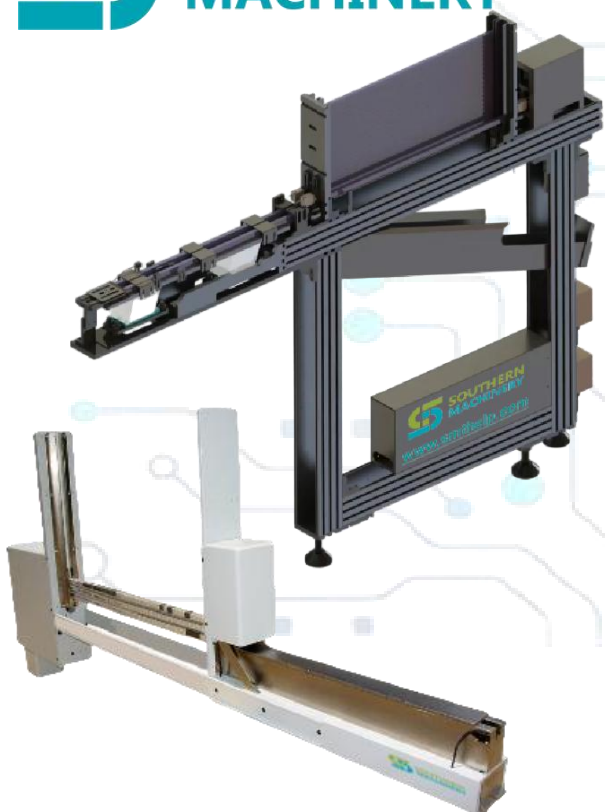
- Designed to automate the handling and placement of various electronic components,
- From standard to odd-form parts.
- Programmable controls,
- High compatibility with ANY SMT machines,
- Robust construction, and improved labor utilization,
- Aiming to reduce manufacturing costs and boost productivity in smart factories



STF1003 Tube Feeder

Functional features:

- Automate feeding of tube-mounted components, including DIPs and transistors (e.g., for screw locking), for SMT machines, non-standard equipment, and robotic arm integration.
- Saves labor, boosts machine utilization, shortens design cycles, and enhances production stability.
- Various sizes are available to suit specific site needs



Category	Parameter	Specification
Overall Dimensions	Length × Width × Height	1350 × 92 × 115mm
	Weight	25Kg
Applicable Materials	Material Types	Relays, terminals, transformers, square capacitors, round capacitors
	Material Size	3 × 3 × 3mm-25 × 25 × 25mm
	Tubes	PVC tubes, aluminum tubes
	Tube Length	200-650mm
	Tube Wall Thickness	≥0.6mm
Electrical parts	Feeding Method	Tube-fed incoming materials, multiple tubes stacked
	Feeding Power	Motor-driven spring
	Material Positioning Method	Optical fiber sensing+software compensation
	Fixing Method	Positioning key+pressing block, supports other fixed structures
	Material Receiving Tube	Avoidance via air cylinder, with a recovery box at the bottom
	Working Voltage	24V
	Average Current Peak Current	4A/6A
Feeding parts	Working Air Pressure	0.4-0.6Mpa
	Operation Mode	Button operation
	Upper Computer Connection	8-cores 16mm aviation plug
	Communication Mode	Supports IO communication or self-control without communication
	Software Control	Based on ARM(STC32)
	Drive Mode	Stepping motor
	Motor Type	57-type
	Maximum Motor Speed	600 rpm
Feeding Parts	Feeding Speed	0.8S
	Feeding Channel	Single-channel feeding(dual-channel feeding can be customized)
	Speed Gear	Four-gear adjustable
	Feeding Accuracy	± 0.5mm
Detection Records	Feeding Test	Achieve 1000 consecutive feeding times without abnormality
	Aging Test	Continuous operation for 48 hours without abnormality
	Spring Service Life	4 million times of bending resistance life



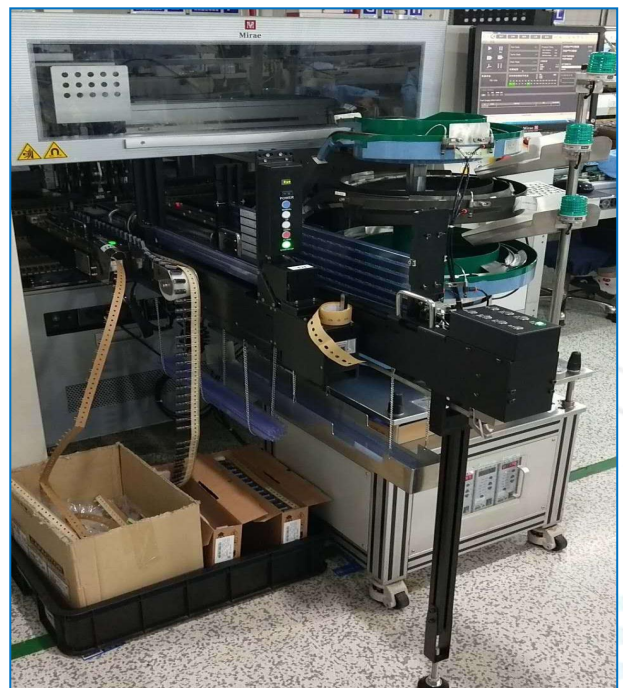
**Panasonic CM602 odd form machine
install tube feeder+bowl feeder**



**JUKI odd form machine install tube
feeder+bowl feeder+radial tape
feeder**



**YAMAHA odd form machine install
*tube feeder***



**Mirae odd form machine install tube
feeder+bowl feeder+radial tape
feeder**



Your Trusted Partner for SMT & THT Solutions

Founded in Shenzhen in 2011, Southern Machinery specializes in designing and manufacturing advanced SMT/THT machinery for PCB assembly automation. Our precision-engineered equipment delivers cost-effective, high-efficiency solutions for both high-speed mass production and delicate small-batch manufacturing, ensuring durability and user-friendly operation.

Leveraging Shenzhen's electronics manufacturing expertise, we provide not just top-tier machinery but also industry-leading knowledge and best practices to global clients.

Explore our solutions at www.smthelp.com, follow our innovations on:

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Shaping the Future of Electronics Manufacturing.

