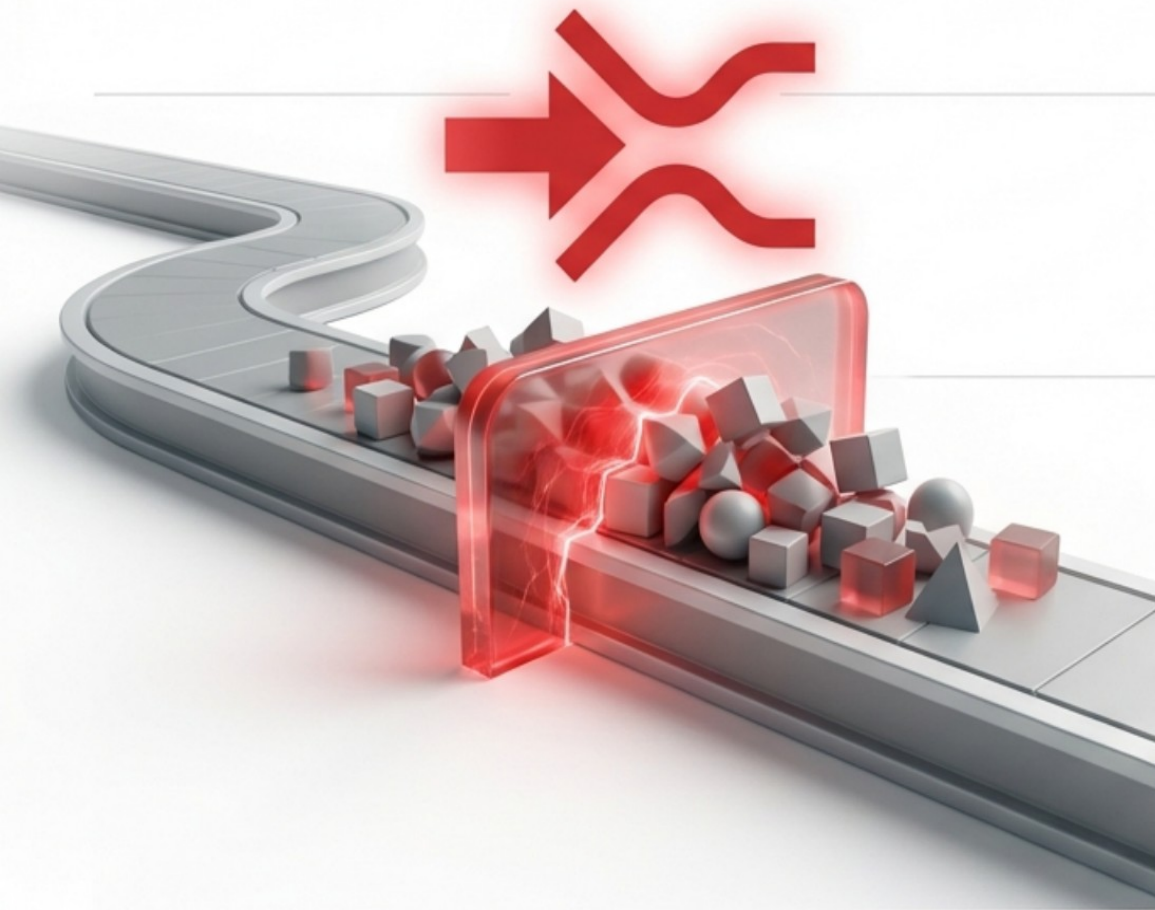




S-MVF01 Reciprocating Belt Feeder

Intelligent Bulk Feeding for the Modern EMS Factory

The Hidden Costs in Your Component Feeding Process



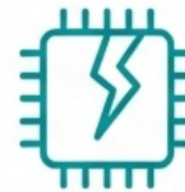
High Packaging Costs

Eliminate the recurring expense of tape-and-reel, tube, and other packaging for bulk components.



Production Bottlenecks

Overcome downtime from inefficient manual loading or the unreliability of traditional vibratory bowl feeders.



Component Damage

Reduce yield loss and quality issues caused by friction and impact during the feeding process.



Process Inflexibility

Avoid slow, complex, and costly changeovers required for different component types.

Eliminate Waste. Automate Feeding. Boost Flexibility.

The Southern Machinery S-MVF01 is an intelligent reciprocating belt feeder that replaces costly packaging and unreliable manual processes with a streamlined, versatile, and gentle bulk feeding system.



From Bulk to Pick-Point: An Intelligent Material Flow

Bulk Hopper:
Bulk components are loaded directly, without packaging.

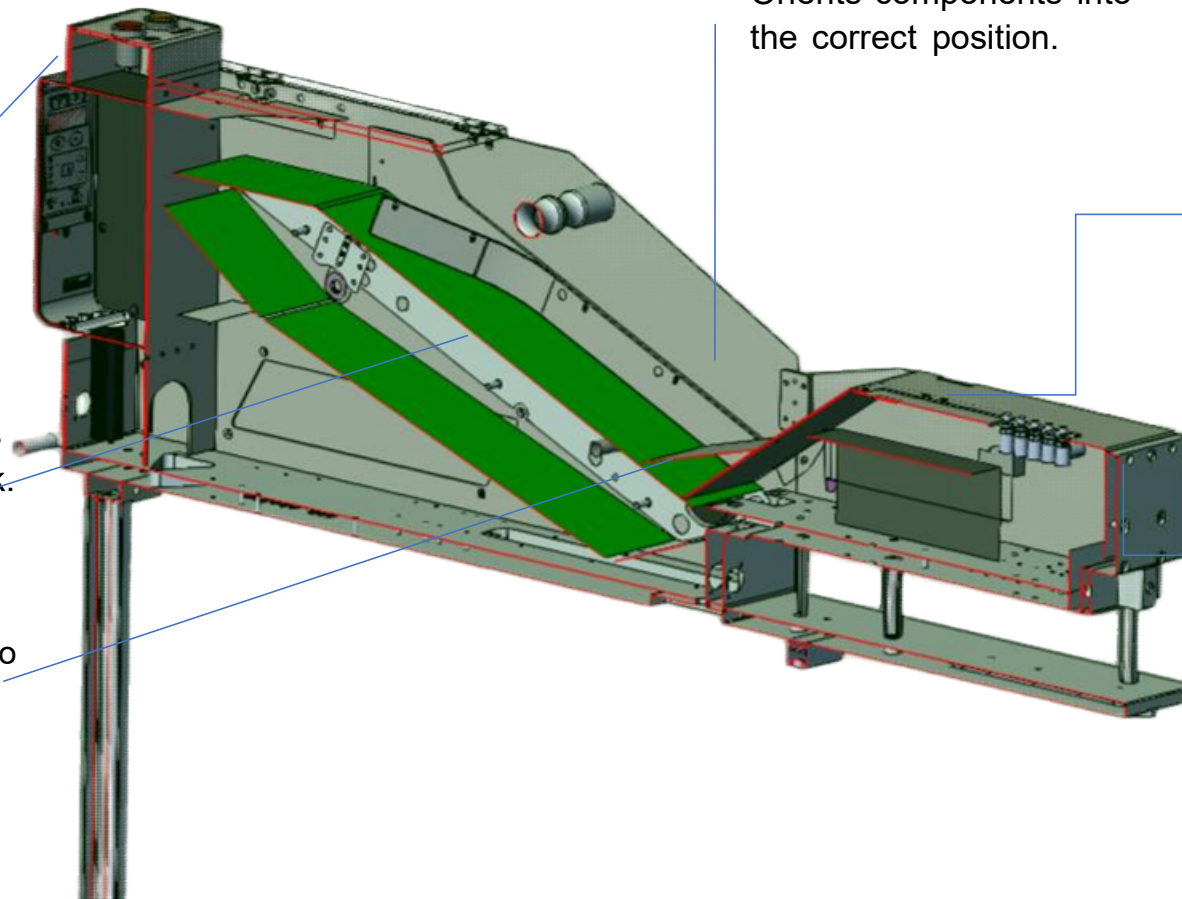
Motor-Driven Belt:
Gently lifts components up to the selection track.

Selection Track:
Orients components into the correct position.

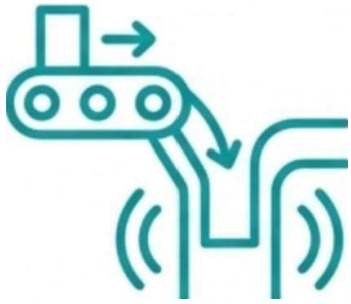
Selection Track:
Orients components into the correct position.

Belt Return:
NG(No-Good) materials are automatically returned to the hopper for recirculation, minimizing waste.

Direct Vibration Channels:
Correctly oriented materials are gently transferred to the final pick-up position.

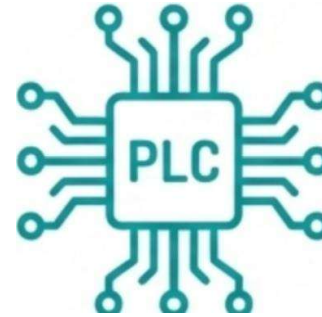


Engineered for Performance and Reliability



Dual-Stage Feeding

Combines a motor-driven belt for initial elevation with direct vibration feeding for precise final positioning.



PLC-Based Control

Powered by a robust Mitsubishi PLC for reliable, stable operation and straightforward system integration.



Precision Sensing

Utilizes Fiber Optic Induction to ensure accurate material positioning with a feeding accuracy of $\pm 1\text{mm}$.



Compact & Lightweight

Small footprint (850x140mm) and low weight (12Kg) allow for quick replacement and easy integration into existing lines.

Advantage: Handle Multiple Components with a Single Feeder

The S-MVF01's high versatility eliminates the need for multiple dedicated feeders. It is engineered to handle a wide range of materials with distinct physical characteristics.



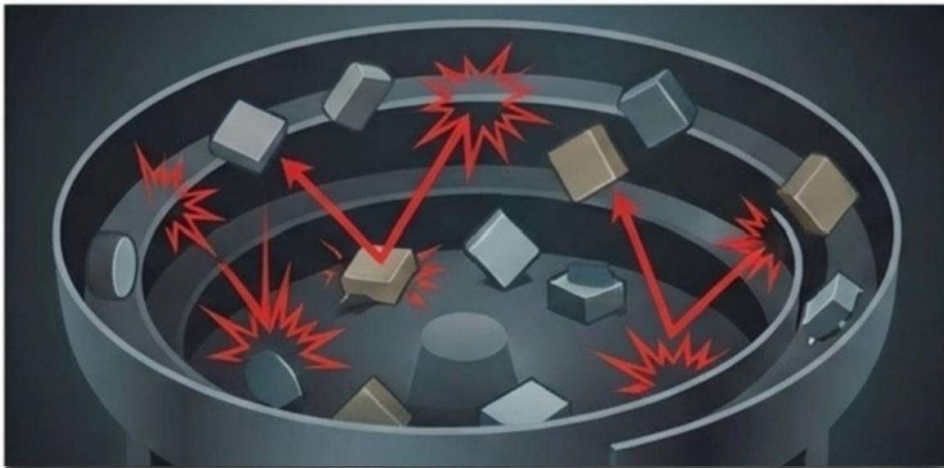
Applicable Materials: Connector, buzzer, network port, terminal, square capacitor

Applicable Material Size: From 3x3x3mm up to 20x20x20mm

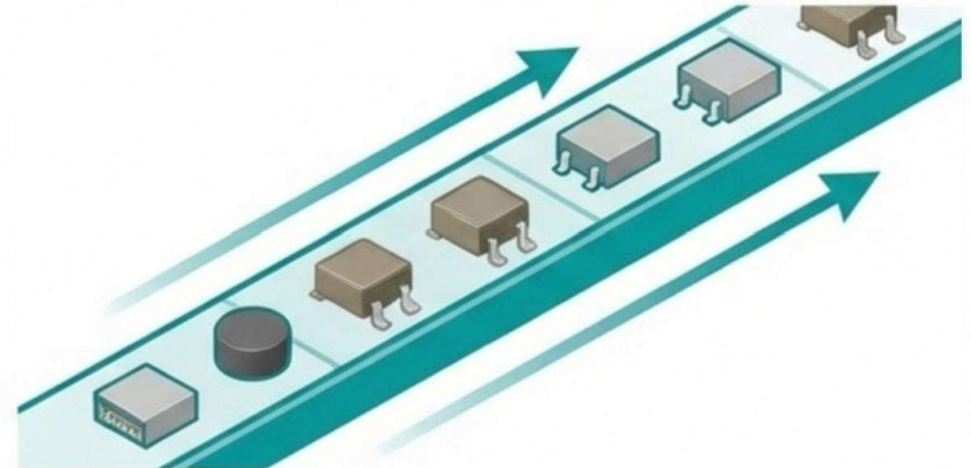
Advantage: Protect Component Integrity with Gentle Handling

Unlike abrasive vibratory bowl systems, the S-MVF01's belt and direct vibration method minimizes friction and impact. This preserves component integrity, reduces defects, and improves final product quality.

Traditional Bowl Feeder



S-MVF01 Gentle Handling



Advantage:Seamlessly Integrate with Your Existing Line

Designed for universal compatibility,the S-MVF01 can be equipped with any brand of placement machine.Flexible communication methods (IO Support or Self-Control)ensure a smooth and rapid integration.

Panasonic



Smart Solutions.Smart Factory.



The Benefit: A Direct Impact on Your Bottom Line



Boost Productivity: Achieve a consistent feeding speed of 1.5-2 seconds per piece, reducing placement machine idle time and increasing throughput.



Slash Operating Costs: Eliminate 100% of recurring costs associated with component tape, reels, and tube packaging.



Improve Product Yield: Gentle, damage-free handling prevents component damage, reducing defects, rework, and waste.



Increase Production Agility: Benefit from small size and quick replacement features that support high-mix, low-volume manufacturing environments.

Proven Reliability for 24/7 Manufacturing

1,000



Feeding Test

Achieved continuous feeds without a single abnormality.

48



Aging Test

Completed continuous hours of operation without failure.

S-MVF01

S-MVF01 Technical Specifications

Parameter	Value
Dimensions (LxWxH)	850 x 140 x 260 mm
Weight	12 Kg
Applicable Material Size	3x3x3mm to 20x20x20mm
Feeding Method	Motor Driven Belt + Direct Vibration
Feeding Speed	1.5 - 2 S/pc
Feeding Accuracy	±1mm
Operating Voltage	220V/50HZ
Working Pressure	0.4-0.6Mpa
Control	Mitsubishi PLC Based
Communication	IO Support or Self-Control

Southern Machinery: Your, Partner in Automation Excellence



Founded 2011, Shenzhen, China: Over a decade of manufacturing expertise.



Trusted by 237+ Global Clients: Proven expertise in SMT & THT machinery for smart EMS factories.



Our Promise: To deliver complete solutions that reduce costs, eliminate production bottlenecks, and provide reliable 24/7 support.



Ready to Optimize Your Assembly Line?

Contact our sales engineering team to discuss your specific bulk feeding challenges and receive a tailored solution proposal.

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Specialized in Design and Manufacturing SMT/THT Machines for Smart EMS Factories