



Automate manual insertion without extra processing

The machine has high compatibility with existing processes such as lines using flow pallets or lines performing batch production.

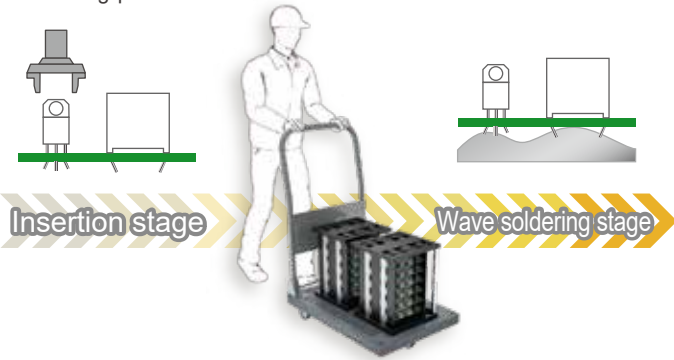
Line directly connected to a wave soldering machine

Can convey the general 16-inch reflow pallets as they are.
Easy to directly connect to the wave soldering unit.



Batch production line

By cutting and clinching, there is no concern about parts falling over or coming out when transporting from magazines. It is possible to keep stable part quality even in the wave soldering process.



High quality insertion
with excellent cost performance

Modular Type Multi-purpose Automated Fabrication Machine

sFAB-SH



Production management system

The integrated production system, Nexim, is the same as that which is used Fuji's placement machines. This makes it possible to collect essential production information in a comprehensive manner.



- Traceability
- Parts out warnings
- Part verification

Specifications		sFAB-SH	
Panel size (L x W)	Single conveyor	48 x 48 to 500 x 435 mm	
	Cut & clinch	48 x 48 to 410 x 420 mm	
	Shift conveyance	48 x 48 to 550 x 420 mm	
Panel thickness		0.4 to 6.0mm	
	Cut & clinch	0.4 to 4.0mm	
Supported parts		Radial parts, Axial parts, DIP / odd-form parts	
Head		sH02-SH	sH08-SH
Part size		1608 (0603") to 123 x 42 mm Height 55 mm	1608 (0603") to 43 x 43 mm (diagonal 60.8 mm) Height 39.5 mm
Part weight		200 g	20 g
Thorutput *1	Connector parts	3,050 cph	3,900 cph
Machine size (L x W x H)		1,000 x 2,450 x 1,675 mm	
Weight		1,534 kg	
Power		3-phase AC200 to 230 V ±10% (50/60 Hz)	
Air		0.5 MPa	
Air consumption		50 L/min (A.N.R)	

*1 Under optimum Fuji conditions.

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Unparalleled part support range

Because the SmartFAB can handle large and heavy parts which cannot be handled on other insertion machines, a wider range of assembly can be automated. This can shorten the work time and make quality stable compared to manual insertion. By replacing heads, you can use two different specifications and get the maximum effect with a minimum investment.

sH02-SH head

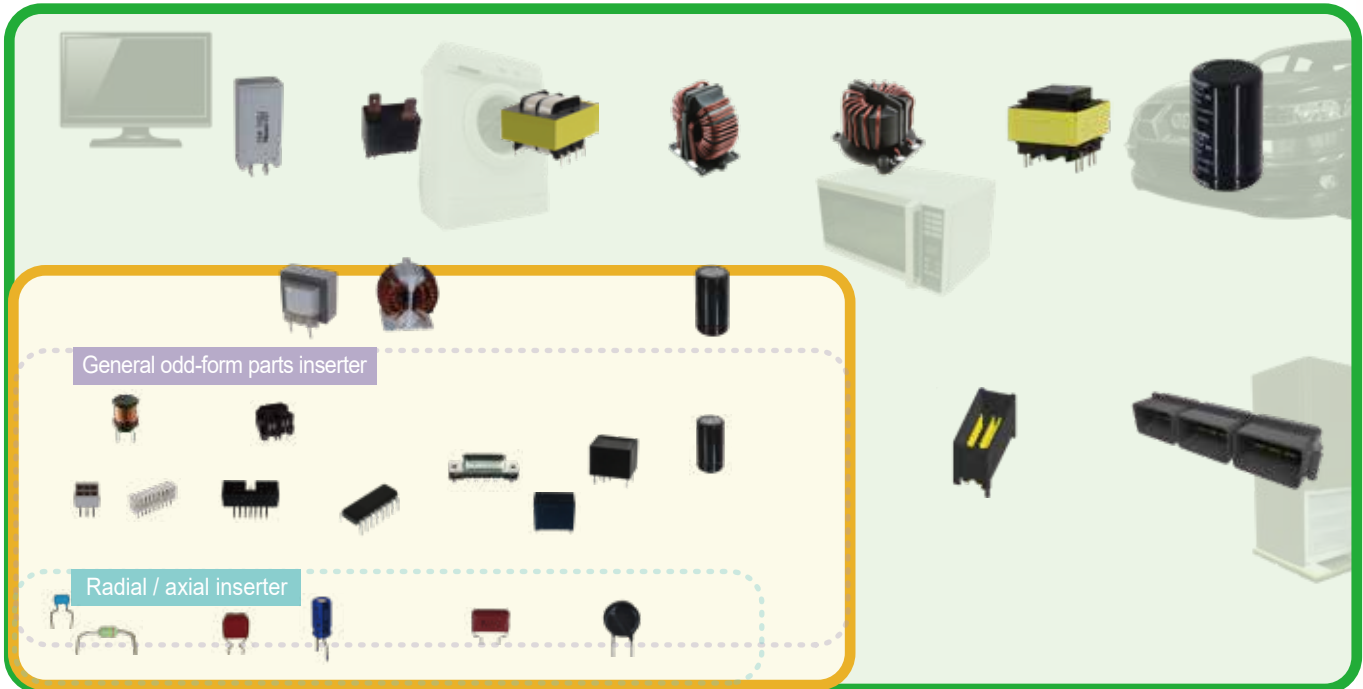
Supports large parts up to 55 mm tall and 200 g in weight

■ For large parts on power boards and automotive boards

Supports a wide range of parts from axial part, radial parts to large transformers, coils, and capacitors.



Difficulty level of automation

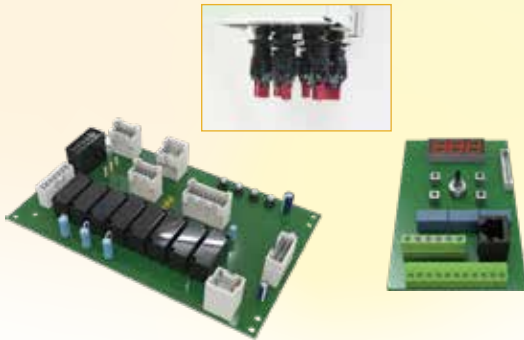


sH08-SH head

Supports high-speed handling of small parts up to 39.5 mm tall and 20 g in weight

■ For control boards

Performs high-speed insertions by transporting up to eight parts at once. Optimum for parts such as axial parts, radial parts, connectors, buzzers, and compact transformers.



Part size



Freely change the part supply units

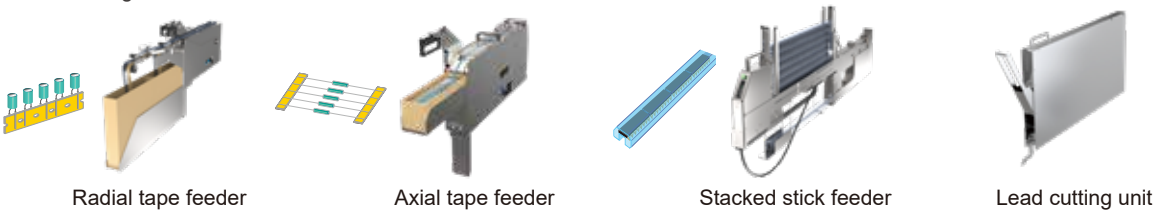
You can put together the optimum production line by using the various feeders and tray units based on the production type.

BPU2	Loose parts supply unit	sMTU-LS	Tray parts supply unit	sMFU-SH	Feeder unit
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Feeders

It is possible to set up to 32 radial feeders when the machine has an sMFU-HS and a fixed feeder pallet. It is also possible to support parts supplied in sticks and parts supplied in axial tape. Previous processes such as lead cutting are also automated.



Reliable insertion support

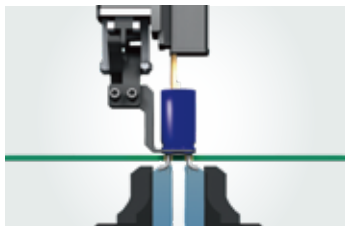
Stable insertions are possible from the functions that focus on leads.

Lead chucking



Parts are held by leads. This keeps the lead pitch stable, which in turn leads to a reduction of discarded parts.

Cut and clinch



Leads are cut and clinched from behind the panel, preventing inserted parts from falling and coming out.



Eliminate insertion defects

Greatly reduce excess costs by stopping insertion defects that cause yield loss and post-soldering repairs that frequently occur in the manual insertion process.

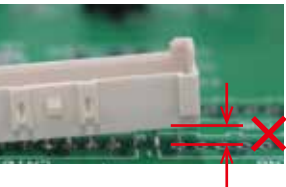
Direction mistakes

Parts are accurately inserted after checking the direction.



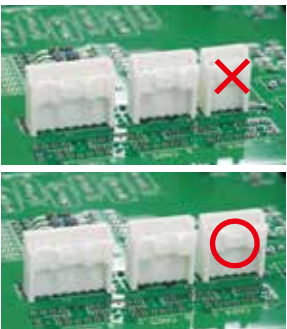
Raised parts

Parts are reliably inserted all the way.



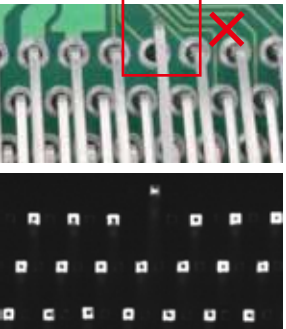
Insertion of incorrect similar parts

Parts are not mistaken for similar parts by using high-accuracy vision recognition.



Missing and bent pins

All leads are recognized even for connectors with many pins.



Image