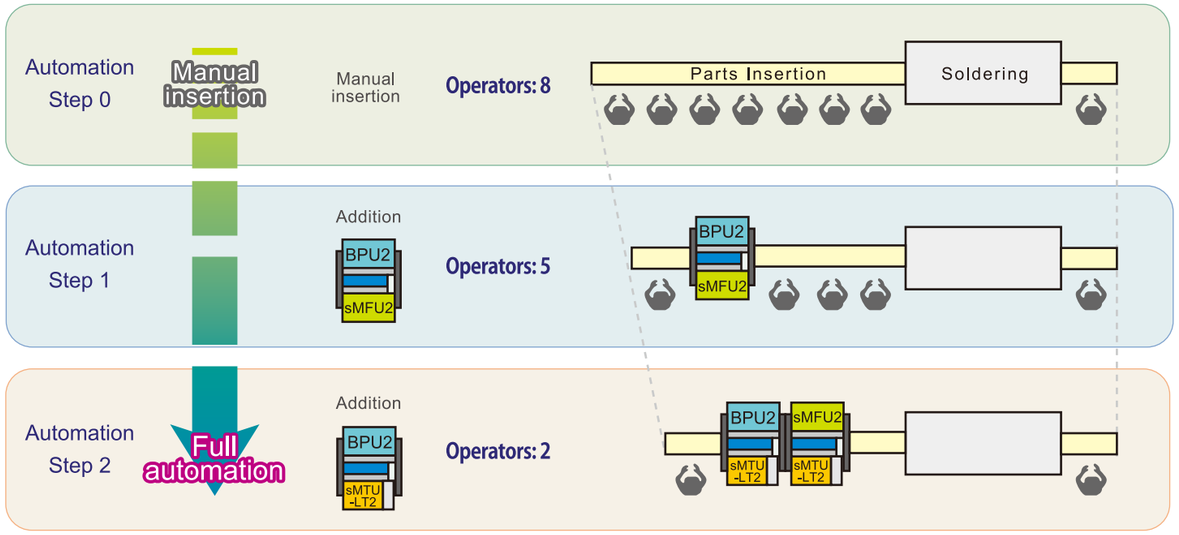
Achieving full-scale automation step by step

Even if starting small from the easiest processes to automate, with the highly scalable sFAB platform it is possible to step up to **full automation through incremental investments.**
Support production model changes by changing units, ensuring efficient use of your assets.



Production management system

sFAB-D uses the same integrated production system, Nexim, as Fuji's placement machines.
This makes it possible to collect essential production information in a comprehensive way.

Nexim

- Traceability
- Parts out warnings
- Part verification

Specifications		sFAB-D		
Panel size (L x W)	Single conveyor	48 x 48 to 500 x 435 mm		
	Cut & clinch	48 x 48 to 410 x 340 mm		
	Shift conveyance	48 x 48 to 550 x 340 mm		
Panel thickness	Single conveyor	0.4 to 8.0mm		
	Cut & clinch	0.4 to 4.0mm		
Head		sH08	sH02	sOF
Part size		1608 (0603") to 43 x 43 mm (diagonal 60.8 mm) Height 20 mm	1608 (0603") to 50 x 50 mm (diagonal 70.8 mm) Height 75 mm	1608 (0603") to 68 x 68 mm (diagonal 96 mm) Height 75 mm
Part weight		20 g	200 g	400 g
Thorutput *1		5,300 cph	3,200 cph	2,200 cph
Supported parts	Axial parts	Tape width: 52 mm, Lead diameter: φ0.4 to 0.8 mm, Lead pitch: 5(5.08), 7.5(7.62), 10(10.16), 12.5(12.7), 15(15.24), 17.5(17.78), 20(20.32), 22.5(22.86), 25(25.4) mm (inch)		
	Radial parts	Lead diameter: φ0.4 to φ0.8 mm, Lead pitch: 10 mm or less		
	DIP / odd-form parts	Part size: Up to 160 x 160 mm (diagonal 226.3 mm)		
Machine size (L x W x H)	Dual side operation	1,000 x 2,454 x 1,665 mm		
	Single side operation	1,000 x 2,339 x 1,665 mm		
Weight		1,570 kg		
Power		3-phase AC200 to 230 V ±10% (50/60 Hz)		
Air		0.5 MPa		
Air consumption		50 L/min (ANR)		

*1 Under optimum Fuji conditions.

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FUJI
innovative spirit

Extreme flexibility and limitless expandability

Modular Type Multi-purpose Automated Fabrication Machine SmartFAB

sFAB-D

Unparalleled versatility for handling any parts

Change configuration by units—heads, feeders and tray units—so that production can be changed quickly to suit to next models.

Part supply unit

Handles loose parts

BPU2

Handles ultra-large trays

sMTU-XL

sMFU2

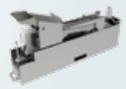
sMTU-LT2

Radial tape feeder

Axial tape feeder

Tape feeder

Stacked stick feeder



Return feeder
(for loose parts)

Head

sH08

High-speed insertion of small parts

sH02

Universal heads using various tools

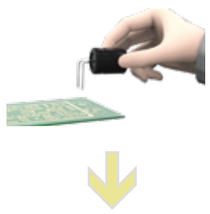
sOF

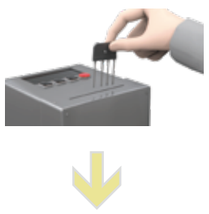
Wide part coverage using a single chuck

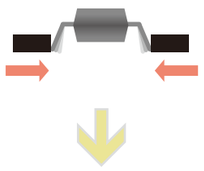
Automating preparation for insertion

Points of work efficiency are located outside the insertion stage.

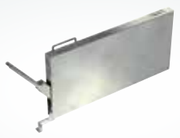
Manual insertion stages require a lot more work than just insertion.
Making this stage efficient leads to the reduction of a significant amount of work.







L-bend radial feeder



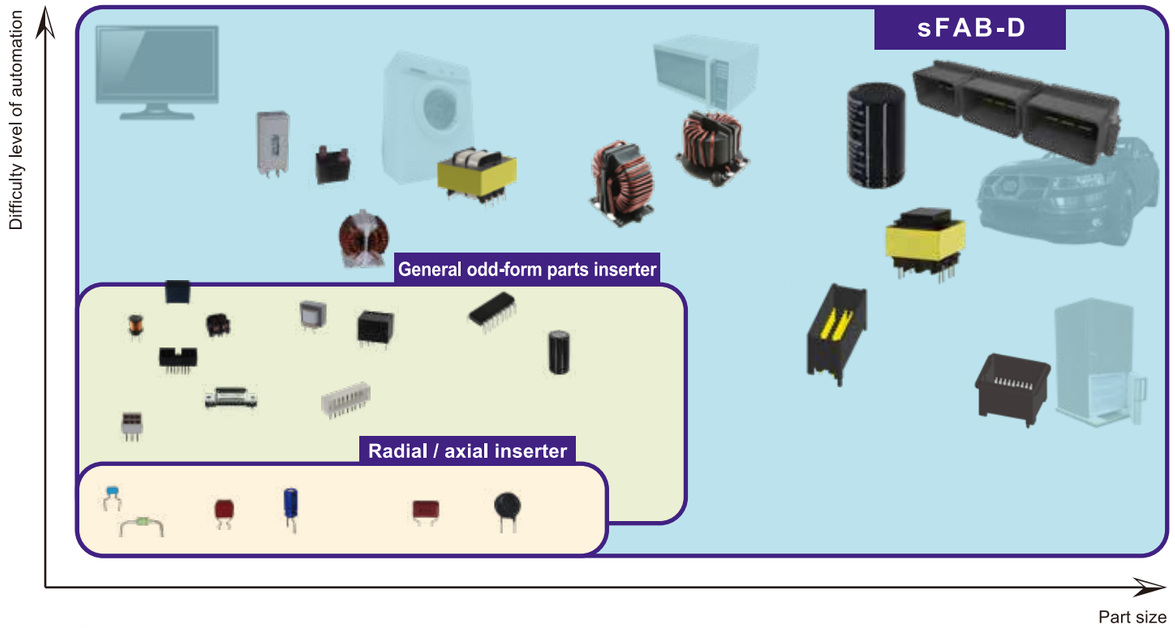
Lead cutting unit

Stick feeder
with lead correction

Unparalleled part support range

Because the sFAB-D can handle large and heavy parts unlike other insertion machines, a wider range of assembly applications can be automated with fewer variations of work quality and less time required to complete production.

Part sizes: Up to 200 x 200 mm, height 75 mm, weight 200 g



Automating manual work is the key to reducing costs

Significantly saves parts from discarding

Unique functions to adjust for variations in production lots and part tolerances contribute to a significant reduction in the amount of discarded parts.

No insertion defects

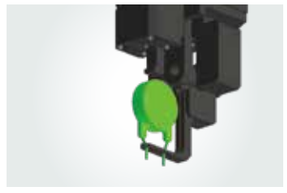
Insertion checks and direction checks prevent insertion defects.

Adjust for variations in panels on the machine

Even if defective insertion arises from poor accuracy of manufacturing insertion holes, **on-machine editing** enables users to check where insertion holes are and correct the insertion position on the spot.

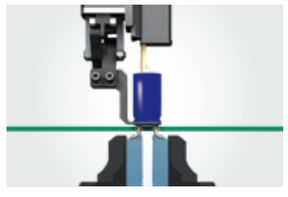
Three special features for insertion parts

Processing before and after insertion brings reliable, high quality insertion.



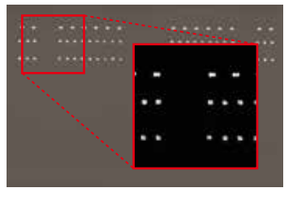
Lead chucking

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.



Various lighting patterns and highly accurate vision processing

Accurately imaging the tip of all leads ensures insertion with high accuracy, as well as checking for bent and missing leads.