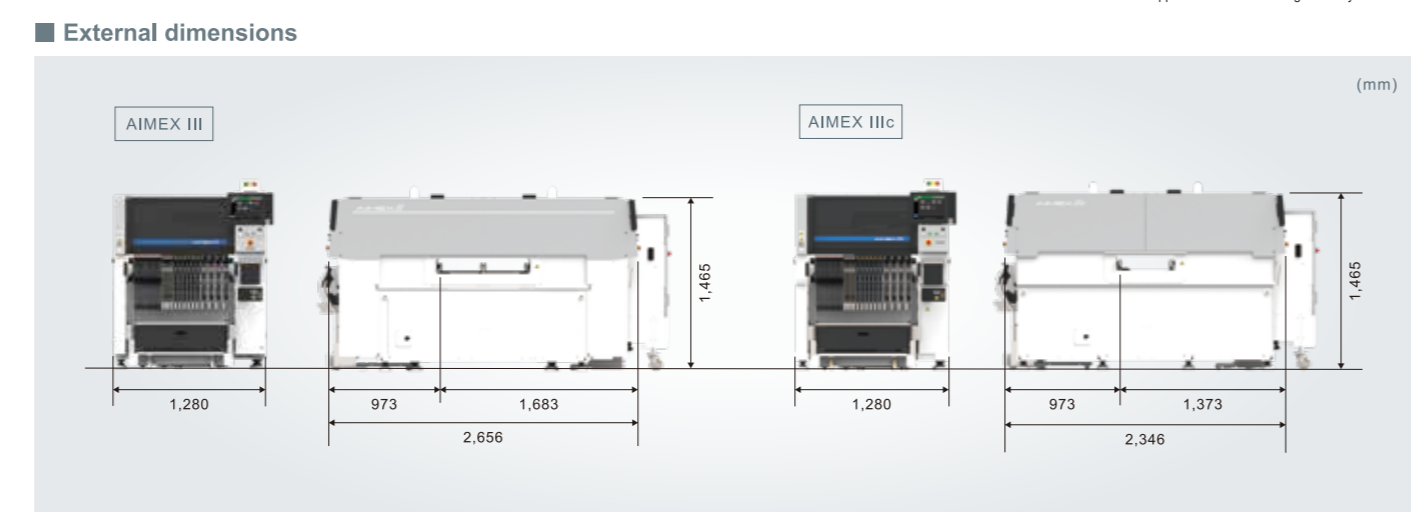
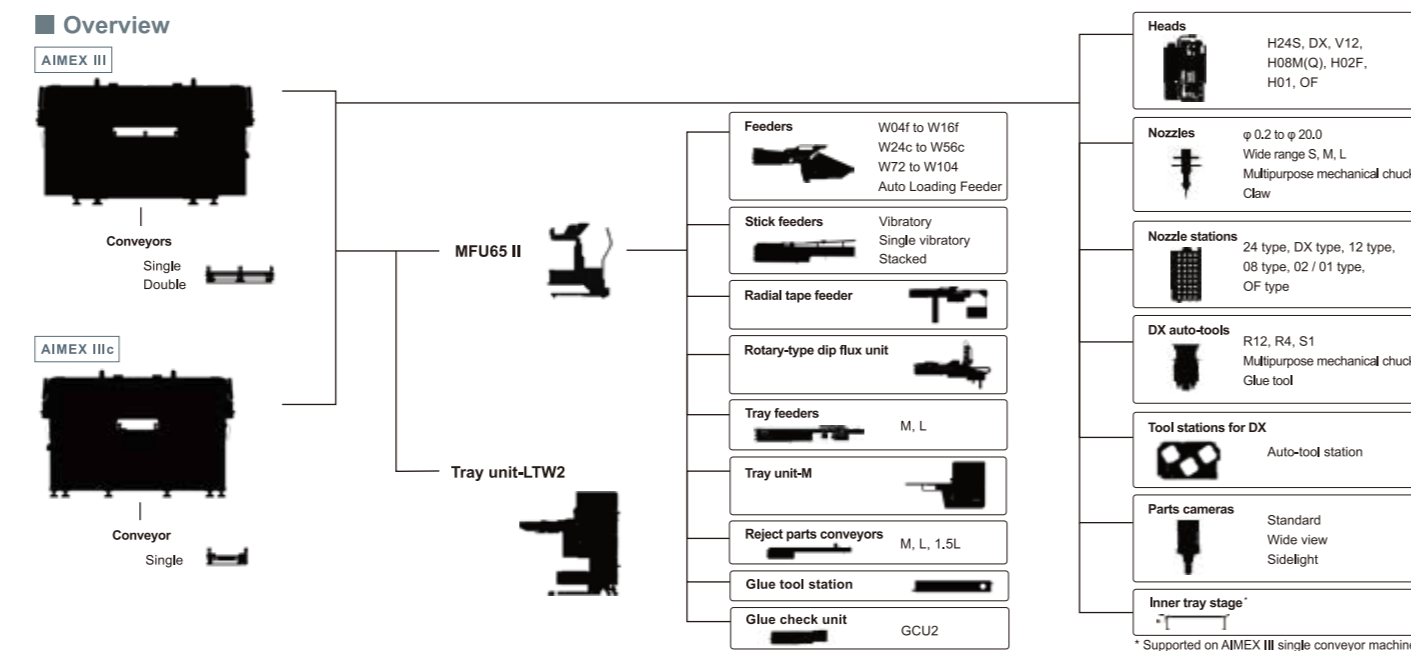




+ Space saving
Compact design
with a reduced length
AIMEX IIIc

+ High capability
Supports production for large panels and
simultaneous production of two models
AIMEX III



Specifications

Machine	AIMEX III		AIMEX IIIc		
Feeder slot quantity	130		130		
Panel size (L x W)	Single conveyor	48 x 48 to 1,068 x 710 mm ¹⁾	48 x 48 to 508 x 400 mm		
	Double conveyor	Single conveyance 48 x 48 to 1,068 x 610 mm Dual conveyance 48 x 48 to 1,068 x 330 mm			
Power source	3-phase 200 to 230 V ±10% (50/60 Hz)				
Air	0.5 MPa (ANR)				
Air consumption	Single robot	40 L/min (ANR)			
	Twin robot	60 L/min (ANR)			
Weight	Single robot	1,490 kg	1,370 kg		
	Twin robot	1,720 kg	1,530 kg		
Heads	H24S, DX, V12, H08M(Q), H02F, H01, OF				
Throughput ²⁾	Head type	H24S	DX		H08M(Q)
			R12 (12 nozzles)	R4 (4 nozzles)	
Placing accuracy ²⁾ (Application position accuracy)	Normal mode	±0.025 mm	±0.038 mm	±0.040 mm	±0.100 mm
		±0.025 mm	±0.038 mm	±0.040 mm	±0.100 mm

¹⁾ Support for panels up to 1,000 x 710 mm is available as an option.
²⁾ Under optimum Fuji conditions.
³⁾ Option

FUJI CORPORATION

19 Chausuyama, Yamamachi, Chiryu, Aichi, 472-8686 Japan

Tel : +81 566 81-2110
Fax: +81 566 83-1140

* Details in this document are subject to change without notice due to constant product development.
* Information in this catalog is current as of February 2022.
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Flexible high-mix production



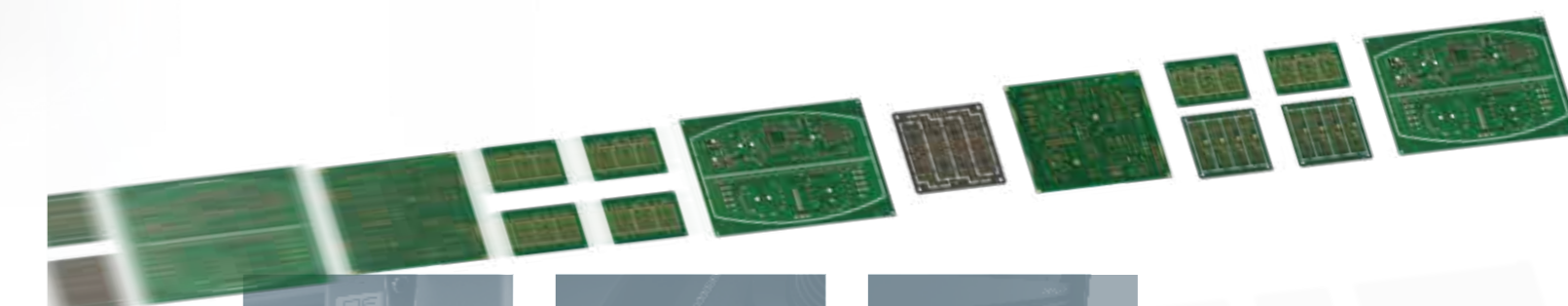
AIMEX III **AIMEX IIIc**



BEST
Introducing the best configuration
for high-mix production

- Industry leader in loadable parts quantity, with up to 130 part supply positions.
- Is the best choice for any type of production, with the flexibility to support part type changes.
- Supports from very small parts to large parts with one machine.
- Allows for ease when ramping up new production or when responding to errors if they occur.

MATCH



Versatility

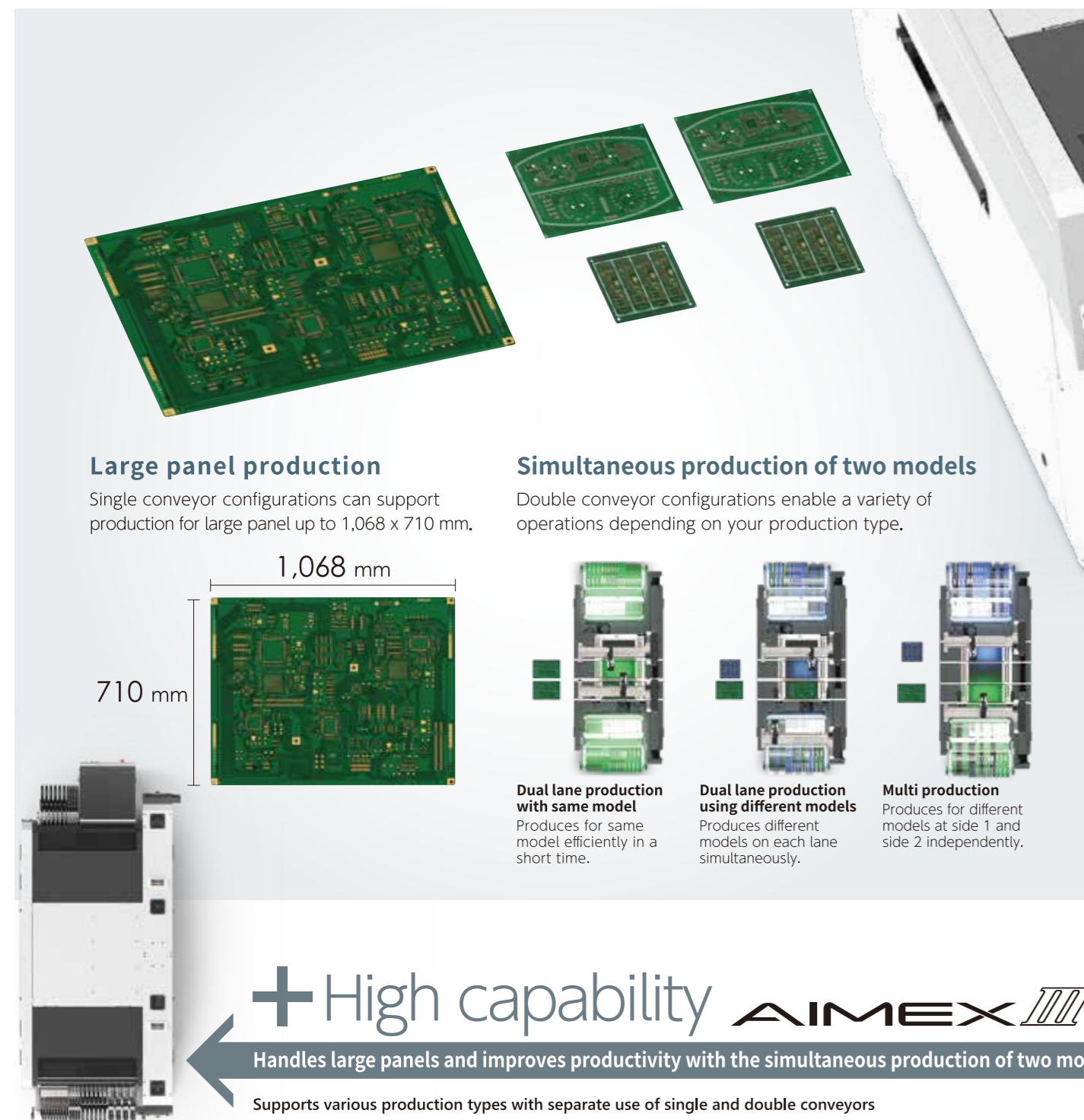
Flexibly supports high-speed placement of chip parts, as well as high-mix production using many large parts and odd-form parts.

High quality

Multiple types of checks prevent defects from occurring.

Simple

The time and effort required is reduced drastically through benefits such as the reduction of the number of changeovers. Operation is easy, and ramping up of production progresses smoothly.



Large panel production
Single conveyor configurations can support production for large panel up to 1,068 x 710 mm.

Simultaneous production of two models
Double conveyor configurations enable a variety of operations depending on your production type.

Dual lane production with same model
Produces for same model efficiently in a short time.

Dual lane production using different models
Produces different models on each lane simultaneously.

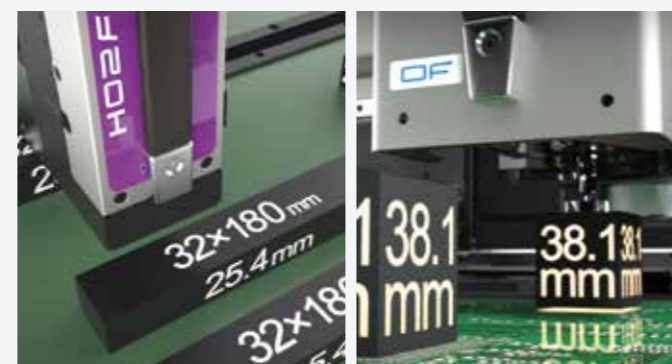
Multi production
Produces for different models at side 1 and side 2 independently.

High capability AIMEX III
Handles large panels and improves productivity with the simultaneous production of two models
Supports various production types with separate use of single and double conveyors

01 Versatile capability for enabling high-mix production



Supporting 0402 (01005'') to 102 x 102 mm parts placement and glue application by one head
A DX head exchanges the dedicated tool in one action depending on the part size, from small chips to large odd-form parts. A glue tool enables the machine to perform glue application in addition to parts placement.



Placement and pressure insertion for larger parts and odd-form parts
Using an OP head and tray unit-LTW2 combination supports parts with a height of up to 1.5 inches (38.1 mm) and pressure insertion of up to 98 N. Large and odd-form parts can be handled using nozzles and mechanical chucks.

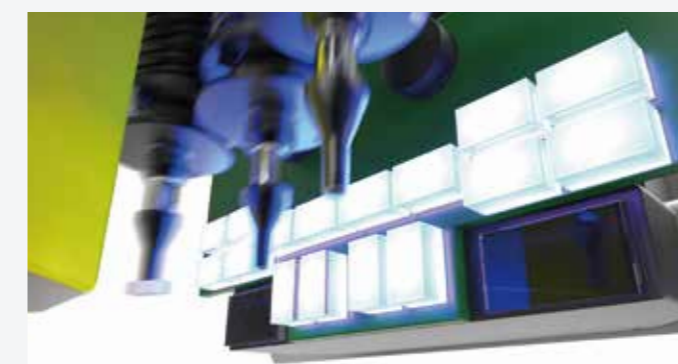


Supporting a wide variety of parts
This machine supports various types of part supply packages, from tape parts to tray and stick supplied parts, meeting the needs of high-mix production.

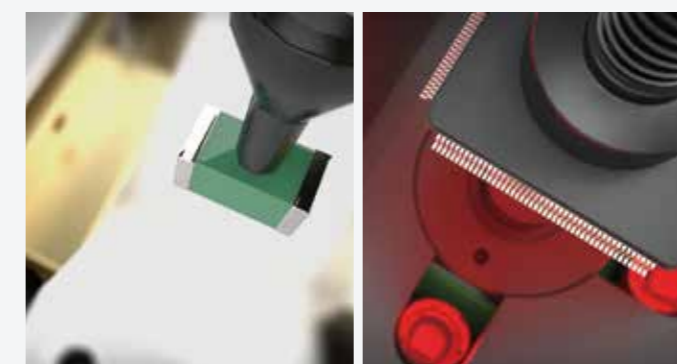


Place a large volume of very small parts in a short time
This machine can be loaded with H245 heads for placing 0201 mm parts with an accuracy of ± 0.025 mm. With the two head configuration, the machine can reach up to 80,000 cph using productivity priority mode.

02 Functions supporting high quality placement

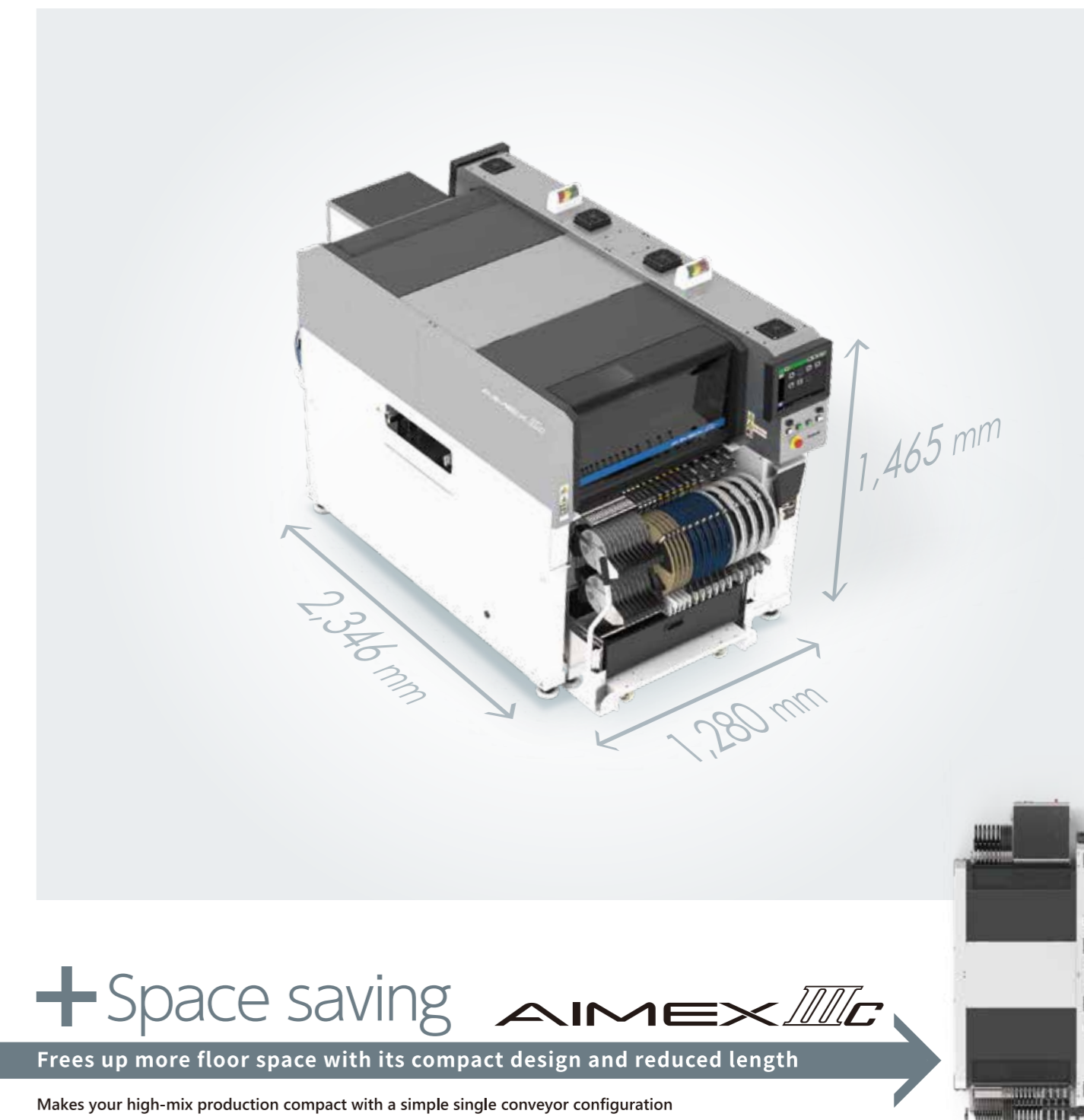


Checking every part at full-speed (IPS)
This IPS can cater to a wide range of checks, from part pick-up stance to parts remaining on nozzles, as well as upside-down checks for minimold parts. High-speed vision processing sustains placement quality without any drop in throughput. (Option for some heads)



Eliminating placing defects through multiple checks
High quality placement is achieved with one machine by preventing defects before they can occur through the use of LCR checks, coplanarity checks for leads and bumps of parts such as IC devices. (Option)

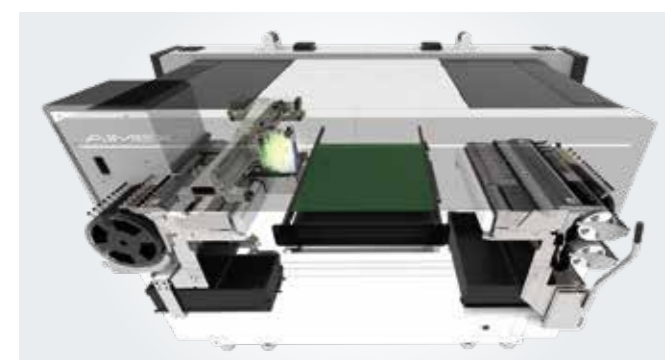
3 key points
Three key points when choosing the best machine for high-mix production

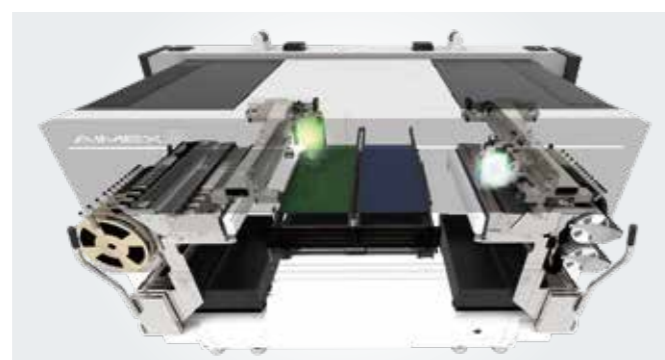
Space saving AIMEX III
Frees up more floor space with its compact design and reduced length
Makes your high-mix production compact with a simple single conveyor configuration

Dimensions: 2,346 mm (width), 1,280 mm (depth), 1,465 mm (height)

Sample machine configurations



Large panel production (single robot with single conveyor)
● DX x 1
● MFU65 II x 1
● Tray unit-LTW2 x 1
● Single conveyor



Simultaneous production of two models (twin robots with double conveyors)
● DX x 2
● MFU65 II x 2
● Double conveyor

03 Simple functions for handling various part types with ease



Minimizing the changeover time
Changeover time can be reduced by performing MFU batch changeover and by the machine having up to 130 slots for feeders which makes it possible to load all of the required parts.



Flexible optimization to match your operation methods
Optimization becomes more flexible using Nexim optimizer as practical operation methods are taken into account. This includes grouping production programs to minimize the number of changeovers, performing batch exchange of feeders using an MFU, and changeovers which are performed without stopping production.

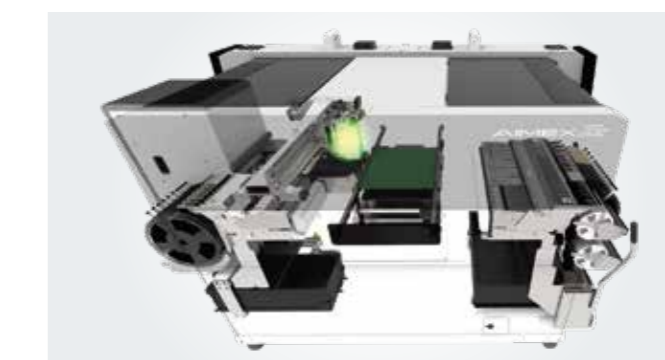


Ramping up production smoothly
Automatic data creation and on-machine editing using a large touchscreen panel to support ramping up new production and quick response to sudden changes to programs.

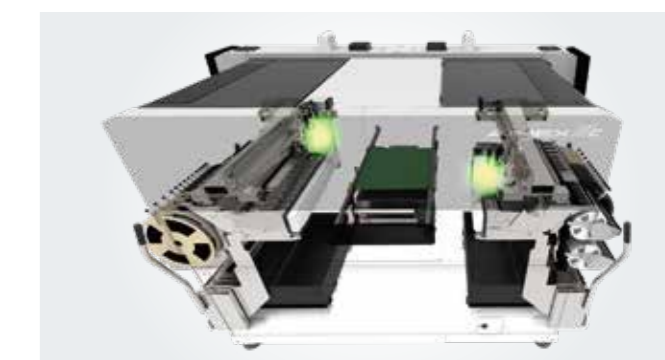


Faster part data creation tool, ASG 2.0
ASG 2.0 (Auto Shape Generator 2.0) improves the performance by 42% compared to its previous version. This expands the capability of creating data automatically even for parts with unique shapes that have not been supported in the past. The on-machine ASG, the function to update part shape data on the machine, is now compatible with ASG 2.0 and further reduces the time required for adjustment.

Sample machine configurations



Simple high-mix production
● DX x 1
● MFU65 II x 1
● Tray unit-LTW2 x 1
● Single conveyor



High-speed chip shooter
● H245 x 2
● MFU65 II x 2
● Single conveyor