

AIMEX III - FUJI Flexible Placement Machine

I. Description:

This is an all-in-one machine with scalability and the ultimate level of versatility necessary for increasing productivity for high-mix production. It features functions for performing operation smoothly in a short time for the work that comes with introducing new production and changing the product models to produce.

The machine flexibly supports various production for users in a variety of sectors including EMS, automotive industry, and more.



II. Equipment Features

1. Production for Large Panels or Simultaneous Production of Two Models

The AIMEX III can support large panels up to 774 (L) x 710 (W) mm in size. Simultaneous production of two different products is possible using our dual conveyor configuration machine. The AIMEX III also enables various production methods and supports a wide range of panel sizes.

2. Supporting 0402 (01005") to 74 x 74 mm with one head

Our DX head exchanges the dedicated tool in one action depending on the part size, from small chips to large odd-form parts. Also, using wide range nozzles together provides further efficient placement.

3. Dyna Head Dynamic Exchange

The AIMEX III offers dynamic exchange during production to the best tool for the job. Borderless production is made possible using the DynaHead to dynamically exchange between 12-nozzle, 4-nozzle and single nozzle tools.

4. Minimizing the changeover count

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.

5. Ramping up production smoothly

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

programs.

III. Technical Parameters

Machine			AIMEX III		
Feeder slot quantity			130		
Panel size (L*W)	Single conveyor		48x48 to 1,068x710 mm* ¹		
	Double conveyor	Single conveyance	48x48 to 1,068x610 mm		
		Dual conveyance	48x48 to 1,068x330 mm		
Heads			H24S,DX,V12,H08M(Q),H02F,H01,OF		
Throughput			1 robot	2 robots	
	H24S	Standard mode	35,000cph(H24Sx1)	70,000 cph (H24S x2)	
		Productivity priority mode	40,000 cph(H24Sx1)	80,000 cph(H24S x2)	
	DX		27,000 cph(12 nozzles) 12,000 cph (4 nozzles) 5,800 cph (1 nozzle)	54,000 cph (12 nozzles) 24,000 cph (4 nozzles) 11,600 cph (1 nozzle)	
	V12		26,000cph (V12x1)	52,000 cph (V12x2)	
	H08M	Standard mode	13,000 cph (H08Mx1)	26,000 cph (H08Mx2)	
		Productivity priority mode	14,000 cph (H08Mx1)	28,000 cph (H08Mx2)	
	Placing accuracy	H24S		±0.025 mm Cpk ≥1.00	
		V12		±0.038 mm Cpk ≥1.00	
H08M		±0.040 mm Cpk ≥1.00			
H02F		±0.025 mm Cpk ≥1.00			
Part supply units			Tape feeders,stick feeders,tray units,others		
Power source			3-phase 200 to 230V±10%(50/60 Hz)		
Air			0.5 MPa (ANR)		

*1.Support for panels up to 1,500x710 mm is available as an option