

NXT M3II FUJI Modular High-Speed Placement Machine

I. Description:

The NEW NXT II is a highly productive, multi-functional modular placing machine. Built for speed, it features a faster XY robot and tape feeders, as well as a new H24 head that achieves 35,000 chips per hour. The NXT III supports the smallest parts being used in mass production with extreme placing accuracy.



II. Features

1. Improved productivity

A faster XY robot and faster tape feeders, as well as a newly developed "flying vision" parts camera, mean increased placing ability for all part sizes and types.

The new H24G high-speed head achieves 37,500 CPH (chips per hour) (Productivity priority mode) per module, a 44% improvement from the fastest speed of the NXT II.

2. 0201 mm Part Support, +/- 0.025 mm Placing Accuracy.

As well as supporting the smallest parts currently being used in mass production (0402 mm, 01005"), the NXT III can also handle the next generation of components heading for the market - 0201 mm parts.

By improving machine rigidity and further refining its independent servo control and vision recognition technology, Fuji has achieved a placing accuracy for small chip parts of +/- 0.025 mm* (3sigma, Cpk \geq 1.00).

3. Improved Usability

The GUI of the original NXT was widely praised for making use of intuitive and easy-to-understand pictograms instead of relying on language-based instructions. This interface is now combined with a touchscreen panel to make operation even easier.

This reduces the number of button pushes required and makes selecting commands easier, as well as improving quality by reducing the chance of performing the wrong command.

4. High Compatibility

Many of the main units from the NXT II such as placing heads, nozzle stations,

feeders, tray units, and feeder pallet exchange units can be used on the NXT III without any modifications.

III. Technical Parameters

Machine			M3 III / M3 IIIS	M6 III
Feeder slot quantity			20	45
Panel size (L*W)	Single conveyor		48x48 to 305 x610 mm	48x48 to 610x610 mm
	Double conveyor	Single conveyance	48x48 to 305x510 mm	48x48 to 610x510 mm
		Dual conveyance	48x48 to 305x280 mm	48x48 to 610x280 mm
Heads			H24S,H24A,DX*1,V12,H12HS(Q),H08M(Q)* ¹ ,H08(Q),H04SF H04,H02F,H01,OF*,G04F(Q),GL	
Throughput	H24S/H24A	Standard mode	35,000cph	
		Productivity priority mode	42,000 cph (43,000 cph)	
	H08M	Standard mode	13,000cph	
		Productivity priority mode	14,000 cph	
	H02F	Standard mode	6,700 cph	
		Productivity priority mode	7,400 cph	
Placing accuracy	H24S/H24A	Standard mode	±0.025 mm Cpk≥1.00	
		Heightened accuracy mode*	±0.015 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 Available on M6III

*2 Based on optimal conditions at Fuji placing rectangular chips (high-accuracy tuning).