

NXT M6 III

-FUJI Multi-functional Modular Chip Mounter

I. Description:

The NEW NXT III 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.

The high-speed XY robot and tape feeder and the use of the newly developed "Fixed On-the-fly camera" can improve the placement capacity of all components, from small components to large special-shaped components. In addition, after using the new high-speed work head "H24 work head", the component placement capacity of each module is as high as 35,000 CPH*, which is about 35% higher than NXT II.

2. Corresponding to 03015 components, mounting accuracy $\pm 25\mu\text{m}^*$

NXT III can not only handle the smallest 0402 components currently used in production, but can also mount the next generation 03015 ultra-small components. In addition, by adopting a more rigid machine structure than existing models, unique servo control technology and component image recognition technology, it can achieve the industry's top* small chip placement accuracy: $\pm 25\mu\text{m}^*$ (30) $\text{Cpk} \geq 1.00$

3. Improved operability.

The highly acclaimed language-free GUI operating system of the NXT series has been inherited, and a new touch screen has been adopted and the screen design has been updated. Compared with the existing operating system, the number of keystrokes has been reduced, and the selection of subsequent instructions has been facilitated, which has improved operability and reduced operational errors.

4. Highly compatible.

The main units used in NXT II, such as the work head, nozzle placement table, component supply units such as feeders and tray units, material station brackets and material station bracket batch replacement trolleys, can be used intact in NXT III.

III. Specifications:

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	H24S/H24A	Standard mode	±0.025 mm Cpk≥1.00	

accuracy		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).