



# NPM

NEXT PRODUCTION MODULAR

## Manufacturing Process Innovation



# NPM-TT

Model No. NM-EJM3D



\*It may not conform to Machinery Directive and EMC Directive in case of optional configuration and custom-made specification.

Model ID		NPM-TT				
PCB dimensions	Single-lane mode	L 50 mm × W 50 mm ~ L 510 mm × W 590 mm		PCB exchange time	Single-lane mode	4.0 s (With no component mounted on the reverse side of PCB)
	Dual-lane mode	L 50 mm × W 50 mm ~ L 510 mm × W 300 mm			Dual-lane mode	0 s* *No 0s when cycle time is 4.0 s or less
Electric source		3-phase AC 200, 220, 380, 400, 420, 480 V 2.5 kVA				
Pneumatic source *1		Min. 0.5 MPa, 200 L /min (A.N.R.)				
Dimensions *1		W 1 300 mm *2 × D 2 798 mm *3 × H 1 444 mm *4				
Mass		2 650 kg (Only for main body: This differs depending on the option configuration.)				
Placement head		8-nozzle head ( With Dual Heads )		3-nozzle head *5 ( With Dual Heads )		
Placement speed		36 000 cph (0.1 s/chip)		14 400 cph (0.25 s/chip) 11 000 cph (0.33 s/QFP)		
Placement accuracy (Cpk ≥ 1)		±40 μm/chip ±30 μm/QFP □12 mm ~ □32 mm ±50 μm/QFP □12 mm Under		±30 μm/ QFP		
Component dimensions (mm)		(01005") 0402 chip *6 to L 32 × W 32 × T 12		(0201") 0603 chip to L 150 × W 25 (diagonal 152) × T 28		
Component supply	Taping	Tape : 8~56 / 72 mm		Tape : 8 to 56 / 72 / 88 / 104 mm		
		Specifications for front/rear tray feeders : Max. 52 Specifications for front/rear feeder carts : Max. 120 ( 8 mm tape : double feeder, (small reel) )				
	Stick	Specifications for front/rear tray feeders : Max. 6 Specifications for front/rear feeder carts : Max. 14				
		Tray Max. 40 sheets (Front supply unit : Max. 20 sheets + Rear supply unit : Max. 20 sheets)				

\* Placement tact time, inspection time and accuracy values may differ slightly depending on conditions

\* Please refer to the specification booklet for details.

\*1 : Only for main body

\*2 : 1 820 mm in width if extension conveyors (260 mm) are placed on both sides

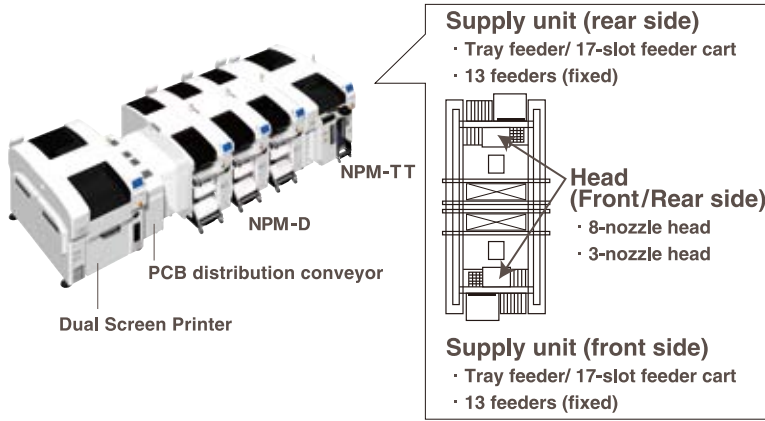
\*3 : Dimensions shown are specifications for front/rear tray feeders. Dimensions of specifications for front/rear feeder carts : 2 893 mm

\*4 : Excluding monitor and signal tower

\*5 : 3-nozzle head cannot be installed on NPM-D

\*6 : The 0402 chip requires a specific nozzle/feeder.

## Basic Specification

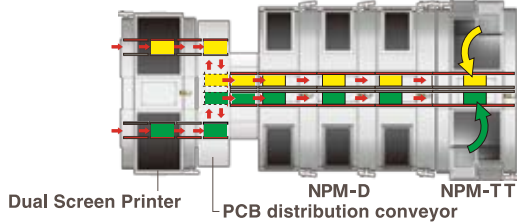


- Selectable specifications for the supply unit**  
Selectable tray feeder/feeder cart according to the type/quantity of packaging components
- Placement head (8- & 3-nozzle head)**  
Selectable 8-nozzle head/3-nozzle head to support odd-shaped components capability.
- Alternate/independent placement support**  
Optimum placement method is selectable according to a kind of PCB.
- Capable to directly link with NPM-D**  
Linking with NPM-D enables line configuration with high area productivity and versatility.
- APC system is supported (Option)**  
It realizes high-quality component placement, ranging from tiny chips to package-components

## Productivity

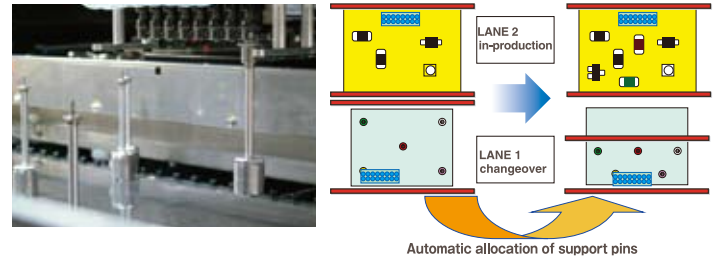
### High productivity through fully independent placement

Capable of fully independent placement of tray components improving cycle time of mid-, large-sized component placement with 3-nozzle head. Output of entire line is enhanced.



### Support Pin Automatic Change (option)

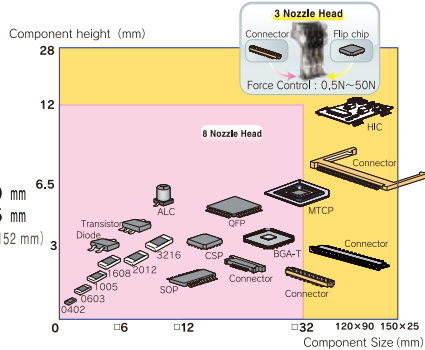
Automate position change of support pins to enable non-stop changeover and help save man-power and operation errors.



## Versatility

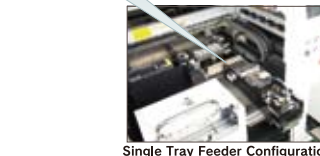
### Large Components

Capable to handle large components up to 150 x 25 mm. With split recognition, QFP of 80 mm Sq. can also be recognized.



### Transfer Unit (option)

Handle PoP components (Tape, Tray) by installing the multi-functional transfer unit at the 13 fixed feeder bank in the rear of the machine.



Single Tray Feeder Configuration  
\*Transfer unit (using 8 input slots) can be used only with the 8 & 3 nozzle heads.

### Feeder location free



Within same table, feeders can be set anywhere. Alternate allocation as well as setting of new feeders to produce in next production can be done while the machine is in operation.

\*Feeders will require off-line data input by support station (option).

## ! Safety Cautions

● Please read the User's Manual carefully to familiarize yourself with safe and effective usage procedures.

● To ensure safety when using this equipment all work should be performed according to that as stated in the supplied Operating Instructions. Read your operating instruction manual thoroughly.



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