



NPM

NEXT PRODUCTION MODULAR

Manufacturing Process Innovation



NPM-**TT2**

Model No. **NM-EJM1E**



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

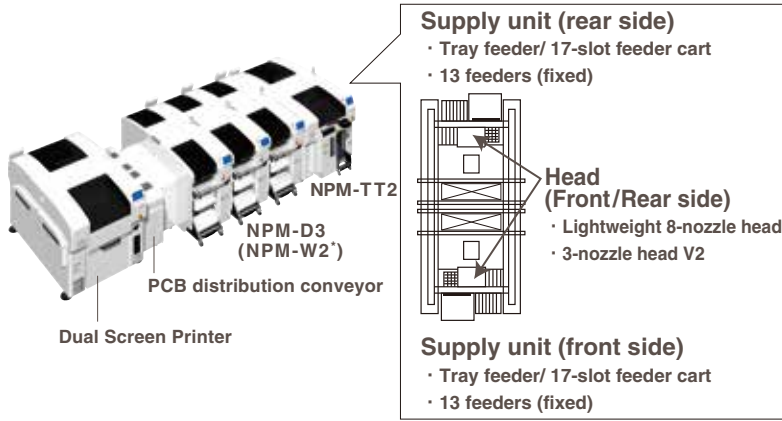
Model ID		NPM- TT2	
PCB dimensions	PC size	Single-lane mode	L 50 mm × W 50 mm ~ L 510 mm × W 590 mm
		Dual-lane mode	L 50 mm × W 50 mm ~ L 510 mm × W 300 mm
	M size	Single-lane mode	L 50 mm × W 50 mm ~ L 510 mm × W 510 mm
		Dual-lane mode	L 50 mm × W 50 mm ~ L 510 mm × W 260 mm
PCB exchange time		Single-lane mode	4.0 s (With no component mounted on the reverse side of PCB)
		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		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		2 690 kg (Only for main body. This differs depending on the option configuration.)	
Placement head		Lightweight 8-nozzle head (Per head)	3-nozzle head V2 *5 (Per head)
Placement speed	PC size	18 000 cph (0.20 s/chip)	7 200 cph (0.50 s/chip) 5 900 cph (0.61 s/QFP)
	M size	17 460 cph (0.21 s/chip)	6 984 cph (0.52 s/chip) 5 723 cph (0.63 s/QFP)
Placement accuracy (Cpk ≥ 1)		±40 μm / chip ±30 μm / QFP □12 mm ~ □32 mm ±50 μm / QFP □12 mm Under	±40 μm / chip ±30 μm / QFP
Component dimensions (mm)		0402 chip *6 to L 32 × W 32 × T 12 Tape : 4 to 56 / 72 mm	0603 chip ~ L 150 × W 25 (diagonal 152) × T 30 Tape : 4 to 56 / 72 / 88 / 104 mm
Component supply	Taping	Specifications for front/rear tray feeders : Max. 52 Specifications for front/rear feeder carts : Max. 120 (Tape : 4, 8 mm)	
	Stick	Specifications for front/rear tray feeders : Max. 12 (Single stick feeder) Specifications for front/rear feeder carts : Max. 28 (Single stick feeder)	
	Tray	Max. 40 (Front supply unit : Max. 20 + Rear supply unit : Max. 20)	

* 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 the monitor, signal tower and ceiling fan cover.
*5 : 3-nozzle head V2 cannot be installed on NPM-D3
*6 : The 0402 chip requires a specific nozzle/feeder.

Basic Specification



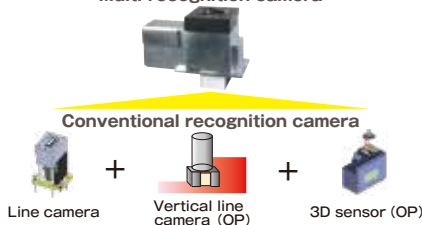
- 1 Direct connectivity with NPM-D3/W2**
Connecting with NPM-D3/W2 enables high area productivity & versatile line configurations
※M-size dual conveyor(option)is required for direct connection with NPM-W2.
- 2 Placement head (Lightweight 8-nozzle head & 3-nozzle head V2)**
Selectable Lightweight 8-nozzle head/3-nozzle head V2 to support odd-shaped components capability. 3-nozzle head V2 placement load: max.100 N
- 3 Selectable & configurable supply unit spec**
Lines can be configured according to parts supply forms by rearranging a tray feeder/cart
- 4 Adoption of Multi Recognition Camera**
Higher speed recognition inspection of parts in the height direction enables high-speed and stable mounting of odd-shaped components
- 5 Alternate & independent mounting support**
Optimum mounting methods can be selected according to production PCB

Changeover capability

Multi Recognition Camera

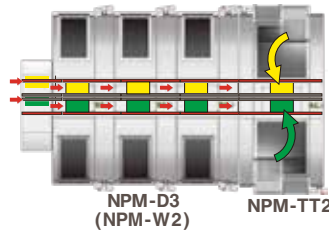
Recognition data is consolidated with NPM-D3/W2. In addition, the recognition speed became higher including vertical inspection of parts condition.

Multi-recognition camera



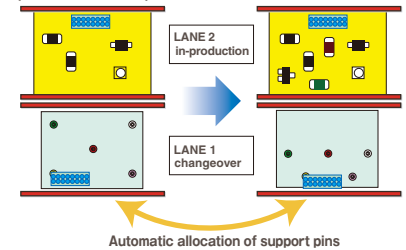
High productivity through fully independent placement

Capable of fully independent placement of tray components improving cycle time of mid-, large-sized component placement with 3-nozzle head V2. Output of entire line is enhanced.



Support Pin Automatic Change (option)

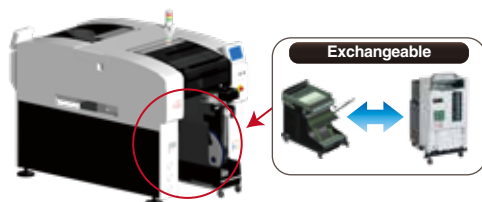
Automate position change of support pins to enable non-stop changeover and help save man-power and operation errors.



Productivity/Versatility

Feeder cart changeover spec (option)

Tray feeder and 17 inputs feeder cart and be exchanged at customer side to enable equipment configuration according to parts supply forms.



Tray component inspection before pick-up

Inspect tray components before pick-up to prevent misplacement.

①Polarity inspection ⇒ Detects wrong component orientation



②Component lot number inspection ⇒ Detects wrong components



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.



*Transfer unit (using 8 input slots) can be used only with the Lightweight 8-nozzle head & 3-nozzle head V2.

⚠ 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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ISO 14001

Panasonic Group builds Environmental Management System in the factories of the world and acquires the International Environmental Standard ISO 14001.

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