

Model ID

NPM-TT2

Model No.

NM-EJM1E

NPM

NEXT PRODUCTION MODULAR



*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 × W50 mm to L 510 mm × W 590 mm
		Dual-lane mode	L 50 mm × W50 mm to L 510 mm × W 300 mm
	M size	Single-lane mode	L 50 mm × W50 mm to L 510 mm × W 510 mm
		Dual-lane mode	L 50 mm × W50 mm to 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 *1		Min.0.5 MPa、 200 L / min (A.N.R.)	
Dimensions *2		W 1 300 mm × D 2 798 mm × H 1 444 mm*3 / W 1 300 mm × D 2 781 mm × H 1 444 mm*4	
Mass		3 090 kg *3 / 2 880 kg*4	
Placement head		Lightweight 8-nozzle head (Per head)	3-nozzle head V2 *5 (Per head)
Placement speed * at optimum conditions	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) * at optimum conditions		± 40 μ m / chip ± 30 μ m / QFP*6	± 40 μ m / chip ± 30 μ m / QFP
Component dimensions(mm)		0402 chip *7 to L 45 × W 45 × T 12 or L 100 × W 40 × T 12	0603 chip to L 120 × W 90 × T 30 or L 150 × W 25 × T 30 or L 135 × W 135 × T 13 *8
Component supply	Taping	Tape : 4 / 8 / 12 / 16 / 24 / 32 / 44 / 56 / 72 mm Max.120 (4、 8 mm tape)	
	Stick	Max.28 (Single stick feeder)	
	Tray	Max.40	

Please refer to the specification booklet for details.

*1 : Only for main body

*2 : Excluding the monitor, signal tower and ceiling fan cover

*3 : Machine dimensions and mass for standard configuration (NPM-TT2 and Tray feeder x 2).

They differ depending on the optional configuration.

*4 : Dimensions and mass of the machine and two ASF *9 carts (34-slot).

They differ depending on the optional configuration.

*5 : 3-nozzle head V2 cannot be installed on NPM-D3.

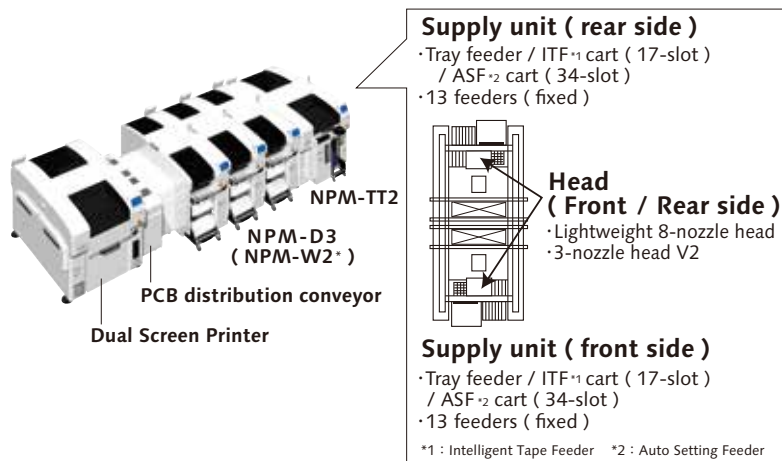
*6 : The placement angle recognition setting needs to be enabled.

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

*8 : □135 mm is option.

*9 : Auto Setting Feeder

Basic Specification



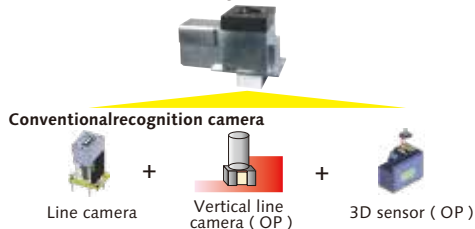
- 1 Direct connectivity with NPM-D3 / W2**
Connecting with NPM-D3 / W2 enables high area productivity & versatile line configurations
*M-size dual conveyor (option) is required for direct connection with NPM-W2.
- 2 Placement head (Lightweight 8- nozzle head & 3-nozzle head V2)**
Selectable Lightweight 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

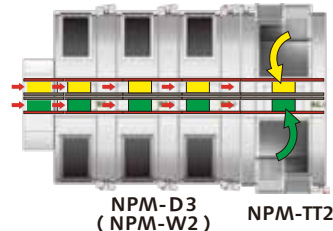
Recognition data is consolidated with NPM-D3 / W2. In addition, the recognition speed became higher including vertical inspection of parts condition.

Multi-recognition camera



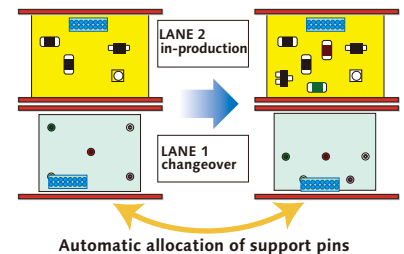
High productivity through fully independent placement

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)

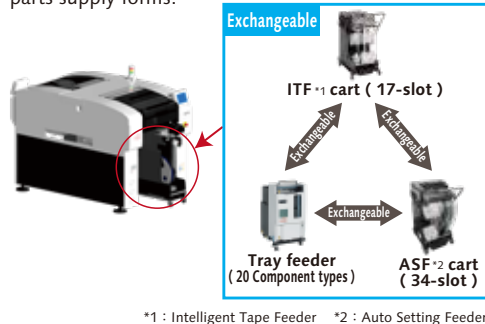
Automate position change of support pins to enable non-stop changeover and help save man-power and operation errors.



Versatility

Feeder cart changeover spec (option)

The tray feeder, the ITF^{*1} feeder cart (17-slot) and the ASF^{*2} feeder cart (34-slot) can be exchanged by the customer to configure the machine according to parts supply forms.



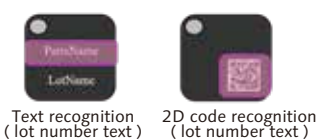
Inspection option before pick-up

Inspect tray or reel components before pick-up to prevent misplacement.

①Polarity inspection ⇒ Detects wrong component orientation



②Component number inspection ⇒ Detects wrong components, traces components.



Transfer Unit (option) *1, 2

The multi-functional transfer unit can be installed at the 13-slot feeder supply unit to handle PoP components (such as Tape and Tray).



*1 : The transfer unit (using 8-slot) supports both the Lightweight 8-nozzle head and 3-nozzle head V2.
*2 : DPU (Dipping Unit) for ASF (Auto Setting Feeder) cannot be installed.

⚠ 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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