



# NPM

NEXT PRODUCTION MODULAR

## Manufacturing Process Innovation



Model Name

# NPM-W2S

Model No. NM-EJM5E



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

Model ID		NPM-W2S			
PCB dimensions	Single-lane*1	Batch mounting	L 50 mm × W 50 mm ~ L 750 mm × W 550 mm	2 position mounting	L 50 mm × W 50 mm ~ L 350 mm × W 550 mm
	Dual-lane*1	Dual transfer (Batch)	L 50 mm × W 50 mm ~ L 750 mm × W 260 mm	Dual transfer (2 position)	L 50 mm × W 50 mm ~ L 350 mm × W 260 mm
		Single transfer (Batch)	L 50 mm × W 50 mm ~ L 750 mm × W 510 mm	Single transfer (2 position)	L 50 mm × W 50 mm ~ L 350 mm × W 510 mm
Electric source		3-phase AC 200, 220, 380, 400, 420, 480 V 2.0 kVA			
Pneumatic source		0.5 MPa, 200 L / min (A.N.R.)			
Dimensions*2		W 1 280 mm*3 × D 2 477 mm*4 × H 1 444 mm*5			
Mass		2 390 kg (Only for main body. This differs depending on the option configuration.)			
Placement head		Lightweight 16-nozzle head	12-nozzle head	Lightweight 8-nozzle head	3-nozzle head V2
Max. speed		38 500cph (0.094 s / chip)	32 250cph (0.112 s / chip)	20 800cph (0.173 s / chip)	8 320 cph (0.433 s / chip) 6 500 cph (0.554 s / QFP)
Placement accuracy (Cpk ≥ 1)		±30 μm / chip (±25 μm / chip*6)	±30 μm / chip	±30 μm / chip ±30 μm / QFP □12 mm ~ □32 mm ±50 μm / QFP □12 mm Under	±30 μm / QFP
Component dimensions (mm)		03015*7*8 0402*7 chip ~ L 6 × W 6 × T 3	0402*7 chip ~ L 12 × W 12 × T 6.5	0402*7 chip ~ L 32 × W 32 × T 12	0603 chip ~ L 150 × W 25 (diagonal 152) × T 30
Component supply	Taping	Tape : 4 / 8 / 12 / 16 / 24 / 32 / 44 / 56 mm		Tape : 4 ~ 56 mm	
		Max. 120 (Tape: 4, 8 mm, Small reel)		Front/rear feeder cart specifications : Max. 120 (Tape width and feeder are subject to the conditions on the left) Single tray specifications : Max. 86 (Tape width and feeder are subject to the conditions on the left) Twin tray specifications : Max. 60 (Tape width and feeder are subject to the conditions on the left)	
	Stick	—		Front/rear feeder cart specifications : Max. 15 (Single stick feeder) Single tray specifications : Max. 15 (Single stick feeder) Twin tray specifications : Max. 15 (Single stick feeder)	
Tray	—		Single tray specifications : Max. 20 Twin tray specifications : Max. 40		

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

\* Please refer to the specification booklet for details.

\*1 : Please consult us separately should you connect it to NPM-D3/D2/D. It cannot be connected to NPM-TT and NPM.

\*2 : Only for main body

\*3 : 1 880 mm in width if extension conveyors (300 mm) are placed on both sides.

\*4 : Dimension D including tray feeder : 2 618 mm  
Dimension D including feeder cart : 2 513 mm

\*5 : Excluding the monitor, signal tower and ceiling fan cover.

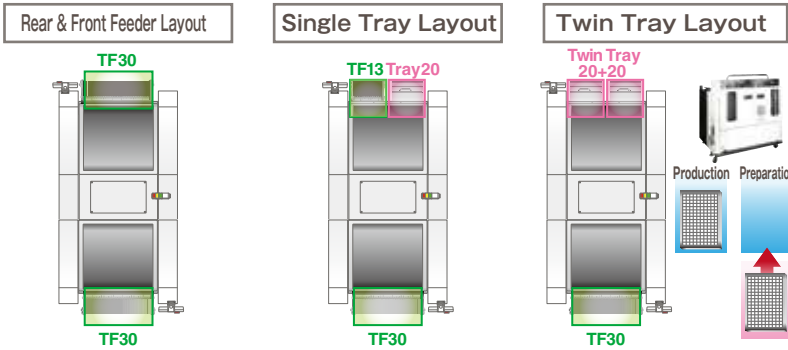
\*6 : ±25 μm placement support option. (Under conditions specified by Panasonic)

\*7 : The 03015/0402 chip requires a specific nozzle/feeder.

\*8 : Support for 03015 mm chip placement is optional.  
(Under conditions specified by PFSC. Placement accuracy : ±30 μm / chip)

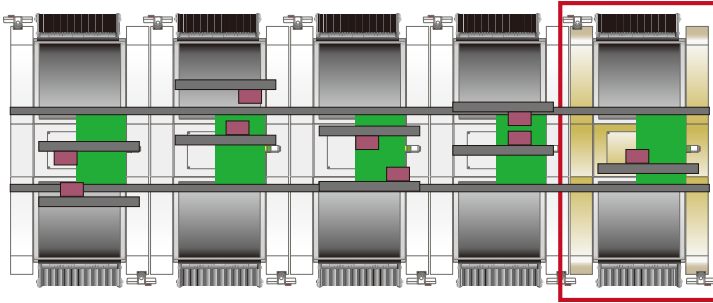
## Basic Specification

Conventional NPM series comes with one simple beam, allowing for various operations ranging from an NPM series backup to multiple connection configuration



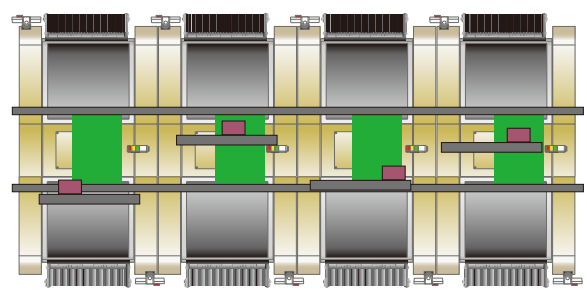
- 1** **Directly connectable to NPM-W2**  
Support for single-/dual-lane transport
- 2** **Selection of the mounting head according to production form**  
Selectable from Lightweight16-/12-/Lightweight8-/3-nozzle head V2
- 3** **Mutual compatibility with NPM series**  
Shared use of the placement head/nozzle, tape feeder and feeder cart  
\*For details, contact our sales representative.
- 4** **Adoption of 3-nozzle head V2**  
Capable of a max placement load of 100N.

### Operation example 1 (A backup to NPM line)



Line with 4 NPM-W2 models + 1 NPM-W2S model

### Operation example 2 (NPM-W2S connected line)



Line with 4 NPM-W2S models

## Optional functions

### Inspection option before pick-up

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

① Polarity inspection ⇒ Detects wrong component orientation

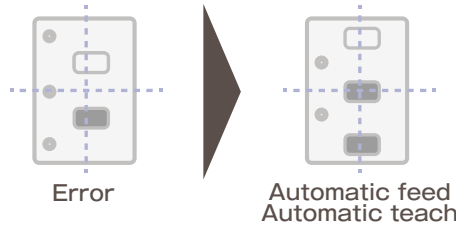


② Component number inspection ⇒ Detects wrong components, traces components.



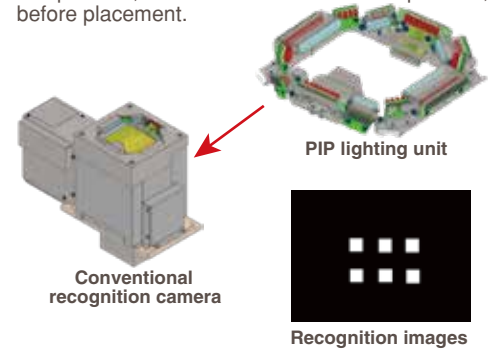
### Automatic pick-up error recovery

When pickup/recognition error occurred, the machine automatically corrects the pickup position without stopping, and resumes production. That improves machine operation rate.  
(Components: 4 mm embossed (black)/ 8 mm paper/embossed (black) tape component.  
\*Embossed tape (transparency) is not supported.)



### PIP lighting unit

Recognizes the locations of insertion lead components, as well as bends in the components, before placement.



## ⚠ 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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