Panasonic
BUSINESS

2018

Electronics Assembly System catalog

Production Modular

NPM
NEXT PRODUCTION MODULAR

Manufacturing Process Innovation

Model Name

NPM-W2S

Model No.NM-EJM5E

CE

*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 ㎜ × W 50 ㎜ ～ L 750 ㎜ × W 550 ㎜	2-positin mounting	L 50 ㎜ × W 50 ㎜ ～ L 350 ㎜ × W 550 ㎜
	Dual-lane *1	Dual transfer (Batch)	L 50 ㎜ × W 50 ㎜ ～ L 750 ㎜ × W 260 ㎜	Dual transfer (2-positin)	L 50 ㎜ × W 50 ㎜ ～ L 350 ㎜ × W 260 ㎜
		Single transfer (Batch)	L 50 ㎜ × W 50 ㎜ ～ L 750 ㎜ × W 510 ㎜	Single transfer (2-positin)	L 50 ㎜ × W 50 ㎜ ～ L 350 ㎜ × W 510 ㎜
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 ㎜*3 × D 2 477 ㎜*4 × H 1 444 ㎜*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 ㎜ ～ □32 ㎜ ±50 μm/QFP □12 ㎜ Under	±30 μm/ QFP
Component dimensions (㎜)		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 ㎜ Max.120 (Tape: 4、8 ㎜、Small real)		Tape : 4 ～ 56 ㎜ 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)	Tape : 4 ～ 56 / 72 / 88 / 104 ㎜
	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	

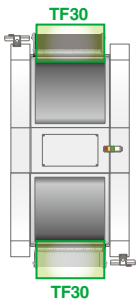
*Placement tact time,inspection time and accuracy values may differ slightly depending on conditions
*Please refer to the specification booklet for details.
*1 : Please consult us separately should you connect it to NPM-D3/D2/D. It cannot be connected to NPM-TT and NPM.
*2 : Only for main body
*3 : 1 880 ㎜ in width if extension conveyors (300 ㎜) 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 PFSC)
*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)

Model ID **NPM-W2S**
Model No.NM-EJM5E

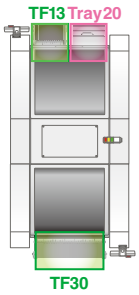
Basic Specification

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

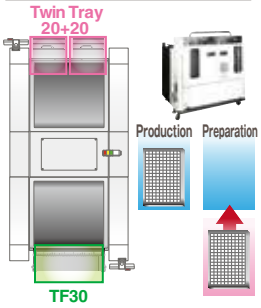
Rear & Front Feeder Layout



Single Tray Layout



Twin Tray Layout



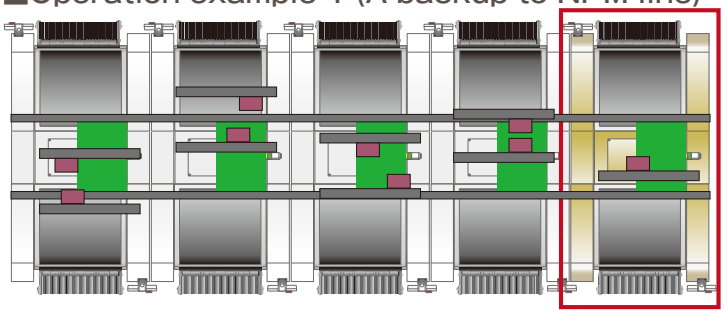
1 Directly connectable to NPM-W2
Support for single-/dual-lane transport

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.

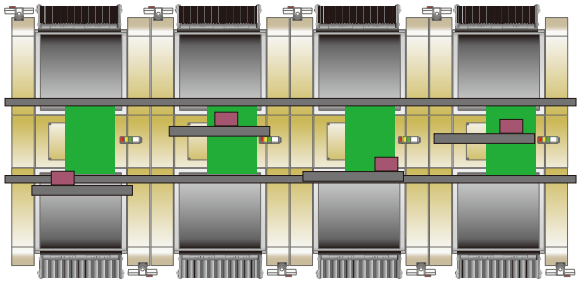
4 Adoption of 3-nozzle head V2
Capable of a max placement load of 100N.

■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

Tray component inspection before pick-up

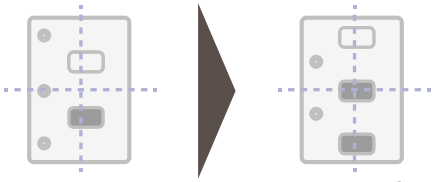
Inspect tray components before pick-up to prevent misplacement.

①Polarity inspection ⇒ Detects wrong component orientation

②Component lot number inspection ⇒ Detects wrong components

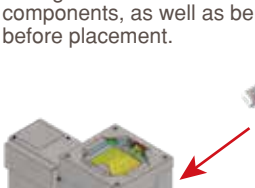
Automatic pick-up error recovery

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

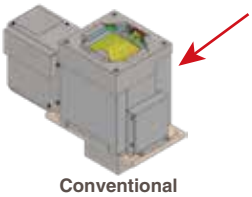


PIP lighting unit

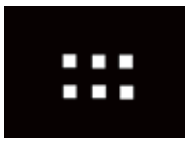
Recognizes the locations of insertion lead components, as well as bends in the components, before placement.



PIP lighting unit



Conventional recognition camera



Recognition images

⚠ 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.

Panasonic Group products are built with the environment in mind.
http://www.panasonic.com/global/corporate/sustainability.html

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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Ver.January 1, 2018

- Changes in specifications and appearance may be made without notice for product improvement.
- Homepage https://industrial.panasonic.com/ww/fa-jisso

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