Panasonic BUSINESS



Manufacturing Process Innovation



1-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 $\lfloor L50 \text{mm} \times \text{W} 50 \text{mm} \sim L 750 \text{mm} \times \text{W} 550 \text{mm} \rfloor$ 2 position mounting $\lfloor L50 \text{mm} \times \text{W} 50 \text{mm} \sim L 350 \text{mm} \times \text{W} 550 \text{mm} \rfloor$			
	Dual-lane*1	Dual transfer (Batch) L 50 mm \times W 50 mm \sim L 750 mm \times W 260 mm R Dual transfer (2 position) L 50 mm \times W 50 mm R R 350 mm R			
		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(0.433s/chip) 6 500 cph(0.554s/QFP)
Placement accuracy(Cpk≥1)		$\pm 30~\mu$ m/ chip ($\pm 25~\mu$ m/ chip+6)	±30 μm/ chip	$\pm 30 \ \mu\text{m/chip}$ $\pm 30 \ \mu\text{m/QFP}$ $\Box 12 \ \text{mm} \sim \Box 32 \ \text{mm}$ $\pm 50 \ \mu\text{m/QFP}$ $\Box 12 \ \text{mm}$ Under	±30 μm/QFP
Component dimensions (mm)		03015*7*80402*7 chip	0402*7 chip	0402*7 chip	0603 chip
		\sim L 6 \times W 6 \times T 3	~L12 × W12 × T6.5	~ L 32 × W 32 × T 12	~ L 150 × W 25(diagonal 152) × T 30
Component supply		Tape: 4/8/12/16/24/32/44/56 mm		Tape: $4\sim 56~\text{mm}$	Tape: 4 ~ 56 / 72 / 88 / 104 mm
	Taping	Max.120 (Tape: 4, 8 mm, Small real)		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	

se refer to the specification booklet for details Please consult us separately should you connect it to NPM-D3/D2/D. It cannot be connected to NPM-TT and NPM.

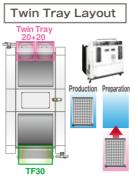
^{*5 :} Excluding the monitor, signal tower and ceiling fan cover.
*6 : ±25 µm placement support option. (Under conditions specified by Panasonic)
*7 : The 03015/0402 chip requires a specific nozzle/feeder.
*8 : Support for 03015 mm chip placement is optional. (Under conditions specified by PFSC,Placement accuracy : $\pm 30~\mu\text{m}/\text{ chip})$

Basic Specification

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







Directly connectable to NPM-W2

Support for single-/dual-lane transport

Selection of the mounting head according to production form Selectable from Lightweight16-/12-/Lightweight8-/3-nozzle head V2

Mutual compatibility with NPM series

Shared use of the placement head/nozzle, tape feeder and feeder cart



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.

①Polarity inspection ⇒ Detects wrong component orientation







Chamfering inspection

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





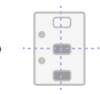
2D code recognition (lot number text)

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.)



Error



Automatic feed Automatic teach

PIP lighting unit

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



recognition camera



PIP lighting unit

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.

Please check the homepage for the details. panasonic.com/global/corporate/sustainability

Inquiries...

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