



The NPM-WX, the latest generation of the NPM platform, is the perfect solution for the expanding and digital future in electronics assembly.

NPM-WX / NPM-WXS

The NPM-WX represents the next generation of Panasonic's mounting production concept "Smart manufacturing". The platform represents higher line throughput and improved quality at lower cost thanks to integrated automated systems. APC system and automatic recovery are integrated to provide autonomous line control. The incorporated floor-management system and remote-operation option improve utilisation combined with lower labour costs. Feeder set-up and component supply navigation systems are available, helping to reduce the work variations. The NPM-WX can handle a wide variety of components, from 0402 chip components up to large components with a max. size of 150x25x40 mm. Parts can be supplied from tape, stick or tray-feeder. Feeder-cart flexibility can be provided by selecting the existing 30-input feeder cart or inserting two 17-input feeder carts. 4 different types of placement heads are available. Max. placement speed is 86,000 cph with a placement accuracy of +/-25 µm. Thanks to NPM-WX's integrated systems, component diversity and available options, it represents the perfect solution for automated SMT production for all kinds of product. The machine is fully compatible

Key Features

86000 cph with up to 136 feed reels

Ready for line automatization

Automatic recovery options

Lowest cost of ownership (TCO) with maintenance services

Advanced feeder setup and component supply navigation

single-beam solution: NPM-WXS single beam allows various operations ranging, from NPM-series backup to multiple connection configuration.



NPM-WX / NPM-WXS

<https://ap.connect.panasonic.com/sg/en/products/smart-factory/npm-wx-npm-wxs>

Model Number	NPM-WX: NM-EJM9D NPM-WXS: NM-EJM2E
PCB dimensions (mm)	Single-lane mode Batch mounting : L 50 × W 50 ~ L 750 × W 610 2-position mounting : L 50 × W 50 ~ L 350 × W 610 Dual-lane mode Dual transfer (Batch) : L 50 × W 50 ~ L 750 × W 300 Dual transfer (2-position) : L 50 × W 50 ~ L 350 × W 300 Single transfer (Batch) : L 50 × W 50 ~ L 750 × W 590 Single transfer (2-position) : L 50 × W 50 ~ L 350 × W 590
Electric Source	NPM-WX: 3-phase AC 200, 220, 380, 400, 420, 480 V 3.0 kVA NPM-WXS: 3-phase AC 200, 220, 380, 400, 420, 480 V 2.1 kVA
Pneumatic Source	Min.0.5 MPa 200 L/min (A.N.R.)
Dimensions (mm)	W 1 410× D 2 570× H 1 444
Mass	NPM-WX: 2 740 kg (Only for main body : This differs depending on the option configuration.) NPM-WXS: 2 660 kg (Only for main body : This differs depending on the option configuration.)
Placement Head	NPM-WX: 1 head on each side (front, rear) NPM-WXS: 1 head (rear camera is optional)
Taping	Tape : 4 ~ 56 / 72 / 88 / 104 mm
Stick	Front rear 17-slot feeder cart specifications : Max. 136 product types (4, 8mm tape) NPM-WX: Front rear 17-slot feeder cart specifications : Max. 32 product types (single stick feeder) NPM-WXS: Front rear 17-slot feeder cart specifications : Max. 16 product types (single stick feeder)
Tray	One side tray specifications : Max.24 Front-rear tray specifications : Max.48
Placement Head max Speed	Lightweight 16-nozzle head V2 (Per head): 43 000 cph (0.084 s / chip) Lightweight 8-nozzle head (Per head): 23 000 cph (0.155 s / chip) 4-nozzle head 3-nozzle head V2 (Per head): 8 400 cph (0.429 s / chip) 7 800 cph (0.462 s / QFP feeder) 7 100 cph (0.507 s / QFP tray) 3-nozzle head V2 (Per head) 9 400 cph (0.383 s / chip) 7 300 cph (0.493 s / QFP feeder) 6 350 cph (0.567 s / QFP tray)

Placement Head Placement Accuracy (Cpk \geq 1) Lightweight 16-nozzle head V2 (Per head):
 $\pm 25 \mu\text{m/ chip}$

Lightweight 8-nozzle head (Per head):

$\pm 25 \mu\text{m/ chip}$

$\pm 40 \mu\text{m/QFP}$ $\square 12 \text{ mm Under}$

$\pm 25 \mu\text{m/QFP}$ $\square 12 \text{ mm} \sim \square 32 \text{ mm}$

4-nozzle head 3-nozzle head V2 (Per head):

$\pm 20 \mu\text{m/ QFP}$

3-nozzle head V2 (Per head)

$\pm 20 \mu\text{m/ QFP}$

Placement Head Component Dimensions (mm)

Lightweight 16-nozzle head V2 (Per head):

0201 chip / 03015 chip 0402 chip- L 6 × W 6 × T 3

Lightweight 8-nozzle head (Per head):

0402 chip ~ L 45 × W 45 × T 12 or L 100 × W 40 × T 12

4-nozzle head 3-nozzle head V2 (Per head):

0603 chip ~ L 120 × W 90 × T 40 or L 150 × W 25 × T 40

3-nozzle head V2 (Per head)

0603 chip ~ L 120 × W 90 × T 40 or L 150 × W 25 × T 40