Manufacturing Process Innovation

NPM-TT2
Model No. NM-EJM1E

Model ID | NPM-TT2
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Pc3 dimensions | Single-lane mode L 50 mm × W 50 mm ~ L 510 mm × W 590 mm
M size | Dual-lane mode L 50 mm × W 50 mm ~ L 510 mm × W 300 mm
PCB exchange time | Dual-lane mode L 50 mm × W 50 mm ~ L 510 mm × W 260 mm

Placement head
Lightweight 8-nozzle head (Per head) | 3-nozzle head V2+ (Per head)
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Placement speed | 18 000 cph (0.20 s/chip)
PC size | 7 200 cph (0.50 s/chip)
M size | 5 900 cph (0.61 s/QFP)

Placement accuracy (Cpk ≥ 1) | ±40 μm/chip
≤32 μm/QFP | ±40 μm/chip
≤12 μm Under | ±30 μm/QFP
≤12 μm Under | ±30 μm/QFP

Component dimensions (mm) | 0402 chip*4 to L 32 × W 32 × T 12
Component supply | 0603 chip ~ L 150 × W 25 (diagonal 152) × T 30
Taping | Tape : 4 to 56 / 72 mm
Specifications for front/rear tray feeders : Max. 52
Specifications for front/rear feeder carts : Max. 120 (Tape : 4 ~ 8 mm)
Stick | Specifications for front/rear tray feeders : Max. 12 (Single stick feeder)
Specifications for front/rear feeder carts : Max. 28 (Single stick feeder)
Tray | Max. 40 (Front supply unit : Max. 20 + Rear supply unit : Max. 20)

*1: Only for main body
*2: 1 880 m (max) for 2nd and 3rd conveyors (260 m)
*3: Dimensions shown are specifications for front/rear tray feeders
*4: Excluding the monitor, signal tower and feeding fan cover
*5: 3-nozzle head V2 cannot be installed on NPMAC3
*6: The 0402 chip requires a specific nozzle/feeder.

It may not comply with Machinery Directive and EMC Directive in case of optional configuration and custom-made specification.
Basic Specification

Supply unit (rear side)
- Tray feeder/17-slot feeder cart
- 13 feeders (fixed)

Supply unit (front side)
- Tray feeder/17-slot feeder cart
- 13 feeders (fixed)

Head (Front/Rear side)
- Lightweight 8-nozzle head
- 3-nozzle head V2

Direct connectivity with NPM-D3/W2
Connecting with NPM-D3/W2 enables high area productivity & versatile line configurations. M-size dual conveyor option(s) required for direct connection with NPM-W2.

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

Selectable & configurable supply unit spec
Lines can be configured according to parts supply forms by rearranging a tray feeder/cart

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

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

Conventional recognition camera
Line camera + Vertical line camera (OP) + 3D sensor (OP)

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.

Productivity/Versatility

Feeder cart changeover spec (option)
Tray feeder and 17 inputs feeder cart and be exchanged at customer side to enable equipment configuration according to parts supply forms.

Tray component inspection before pick-up
Inspect tray components before pick-up to prevent misplacement.
1. Polarity inspection ⇒ Detects wrong component orientation
2. Component lot number inspection ⇒ Detects wrong components

Transfer Unit (option)
Handle PoP components (Tape, Tray) by installing the multi-functional transfer unit at the 13 fixed feeder bank in the rear of the machine.

*Transfer unit (using 8 input slots) can be used only with the lightweight 8-nozzle head & 3-nozzle head V2.

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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Inquiries:

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