

| Model ID | NPM-VF | |
|-----------------------|---|---|
| | Standard conveyor | Anvil conveyor (Option) |
| PCB dimensions | L 50 mm × W 50 mm to L 510 mm × W 460 mm | L 50 mm × W 50 mm to L 460 mm × W 400 mm |
| Max. PCB mass *1 | Up to 3 kg | |
| PCB thickness | 0.3 to 8 mm | |
| PCB flow | Left ← Right / Left → Right (Flow direction is selectable) | |
| Insertion direction | 360 ° (± 180 °) * 1 degree unit | |
| Insertion push force | Up to 100 N | |
| PCB Exchange time | 4.5 s | 5.5 s |
| Clinch specifications | — | Clinch angle : 60 degrees outward clinch Clinch pitch : 2.5 to 40 mm Lead bend angle : 10 ~ 40° Lead diameter : φ 0.4 mm to φ 1.0 mm (soft copper) φ 0.4 mm to φ 0.8 mm (hard copper / CP wire) |
| Applicable components | Max. dimensions : L 130 mm × W 35 mm × H 60 mm · L 150 mm × W 38 mm × H 29 mm / Max. component mass : 200 g | |
| Electric source | 3-phase AC 200 , 220 , 380 , 400 , 420 , 480 V 2.7 kVA | |
| Pneumatic source | 0.5 to 0.8 MPa , 200 L / min (A.N.R.) | |
| Dimensions | W 1 866 mm × D 2 332 mm × H 1 554 mm (Main body only) W 2 166 mm × D 2 332 mm × H 1 554 mm (When downstream extension conveyor is connected) | |
| Mass | 2 590 kg (Only for main body : This differs depending on the option configuration) | |

| Head Configurations | | |
|---------------------|--|--------------------------------------|
| 3-station head | Body chuck + Nozzle + Nozzle | Tact: Max. 0.65 s / component *2,3,6 |
| | Body chuck + Nozzle + Swing nozzle | |
| | Body chuck + Nozzle + Lead chuck | |
| | Body chuck + Swing nozzle + Lead chuck | |
| 2-station head | Body chuck + Body chuck | Tact: Max. 0.9 s / component *2,3 |

| Component Supply | | |
|------------------|--|--|
| Stick | S | Max. component dimension : W 20 × L 80 × H 20 mm / Max. stick width : 24 mm / Max. component mass : 2 kg in total (including stick mass) |
| | L | Max. component dimension : W 60 × L 80 × H 45 mm / Max. stick width : 64 mm / Max. component mass : 2 kg in total (including stick mass) |
| Radial tape | Max. body dimension : Max. Φ20 × H 30 mm / Lead pitch : 2.5 / 5.0 / 7.5 / 10.0 mm | |
| Tray | Max. tray dimension : L 230 × W 335 × D 69 mm / Max. pallets per feeder : 20 / Max. mass : 20 kg (magazine + pallet + tray + components) | |
| Bulk | ※4 Customized spec | |

| | | | | | | |
|-----------------------|-------|--|---------|---------|--------|------|
| Machine Configuration | | Max. number of products to be loaded | Stick S | Stick L | Radial | Tray |
| | Front | 30-slot fixed supply unit *5 | 15 | 7 | 10 | — |
| | Rear | 30-slot fixed supply unit | 15 | 7 | 10 | — |
| | | 13-slot fixed supply unit + single tray feeder | 6 | 3 | 4 | 20 |
| | | Twin tray feeder | — | — | — | 40 |
| | | Single tray feeder + Bowl feeder × 2 *4 | — | — | — | 20 |
| | | Bowl feeder × 4 *4 | — | — | — | — |

| System | | | | | | | | | |
|----------------------------------|---|------------|------------|------------|-------|-------|--------|---|---|
| Programming and Software | NPM-DGS · AM-LNB · LNB、Option : PanaCIM、iLNB | | | | | | | | |
| Optional functions | Component verification , Traceability , Automatic changeover , Host communication , iLNB line control including other company's machine | | | | | | | | |
| SMT components *7 | | | | | | | | Please refer to the specification booklet for details. | |
| Applicable components | Min. dimensions : L 5 mm × W 5 mm or larger (For tape, embossed tape of 12 mm or larger) | | | | | | | | *1 : PCB mass after insertion. (including carrier mass) |
| Placement specs | Head: Nozzle only Placement accuracy : QFP ±0.05 mm (Cpk ≧ 1) Max. tact time : 3 000 cph (per head) | | | | | | | | *2 : Except when anvil is attached |
| Supply unit (embossed tape) | Tape feeder width | 12 / 16 mm | 24 / 32 mm | 44 / 56 mm | 72 mm | 88 mm | 104 mm | *3 : During 2-head operation (configured similar to 2-beam specs) under optimum conditions. | |
| | 30-slot supply unit | 30 | 15 | 10 | 7 | 6 | 5 | *4 : Custom specs · Connection via the host feeder. | |
| | 13-slot supply unit | 13 | 6 | 4 | 3 | 2 | 2 | *5 : For front side configuration, select between 30 stations fixed supply unit (Std.) or feeder cart. (Option) | |
| | | | | | | | | *6 : For Body chuck + Nozzle + Nozzle *7 : Standard conveyor specs | |

Please refer to the specification booklet for details.
*1 : PCB mass after insertion. (including carrier mass)
*2 : Except when anvil is attached
*3 : During 2-head operation (configured similar to 2-beam specs) under optimum conditions.
*4 : Custom specs - Connection via the host feeder.
*5 : For front side configuration, select between 30 stations fixed supply unit (Std.) or feeder cart. (Option)
*6 : For Body chuck + Nozzle + Nozzle
*7 : Standard conveyor specs

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.

For details here

Panasonic GREEN IMPACT

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●Changes in specifications and appearance may be made without notice for product improvement.
●Please contact us via our website at <https://industrial.panasonic.com/ww/r/fw>

Model ID

NPM-VF

Model No.

NM-EJR9A

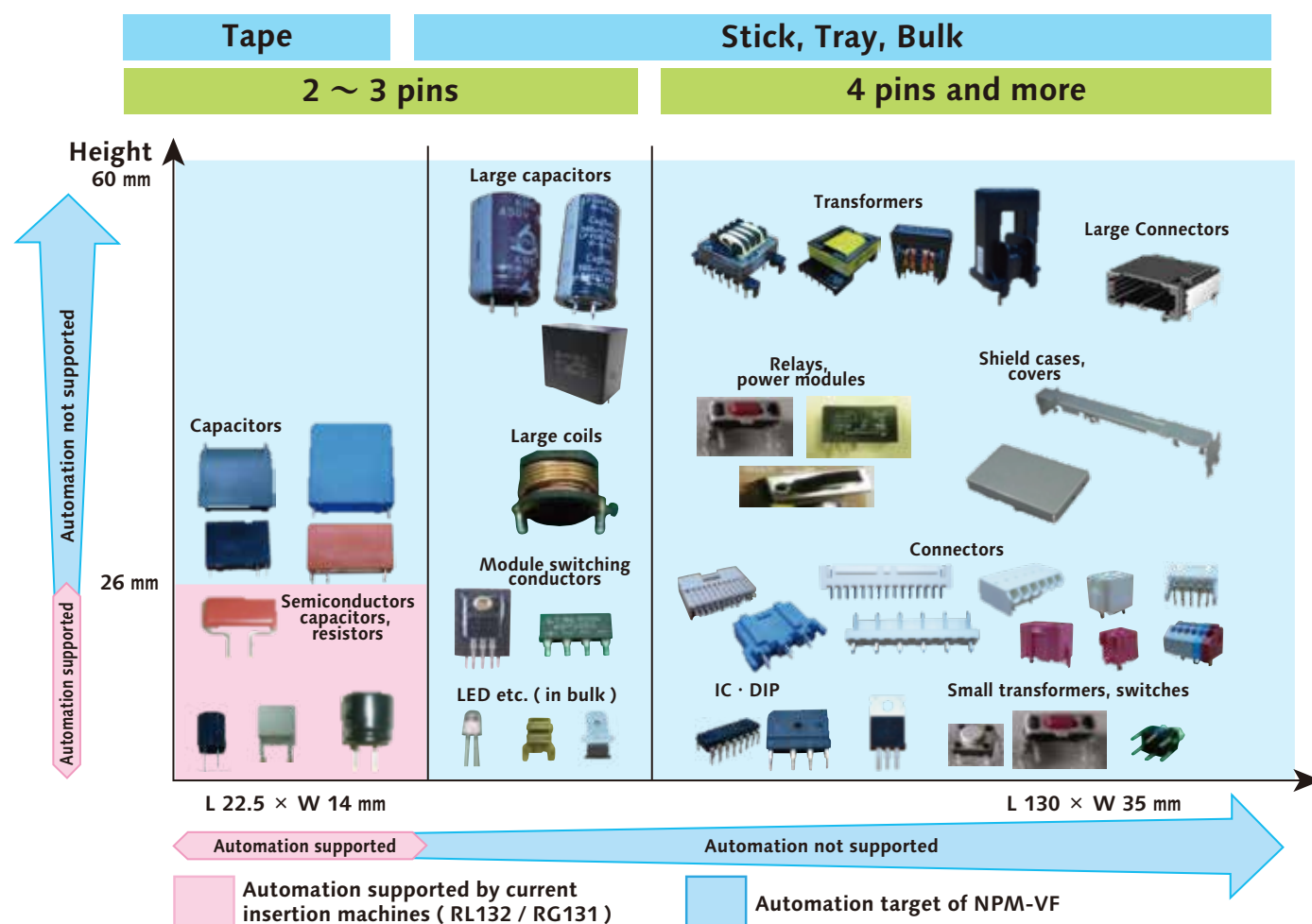


NPM-VF Innovating PCB assembly process via automation of odd-form components insertion

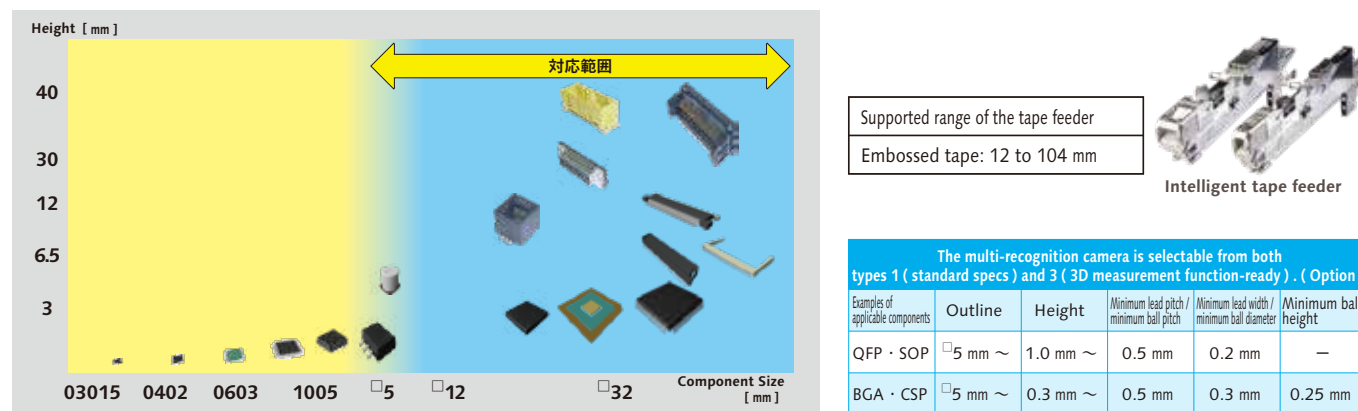
Features and aims of NPM-VF

- 1 Automation of odd-form components insertion process.**
In addition , SMT specifications* are also supported.
*supports both SMT placement + odd-form insertion (developing).
- 2 Versatile and flexible :** various configuration of head tools and machine feeder configuration to adapt to different types of components.
- 3 Contribute to manpower reduction and stable production**
with high productivity , flexibility , high quality insertion.

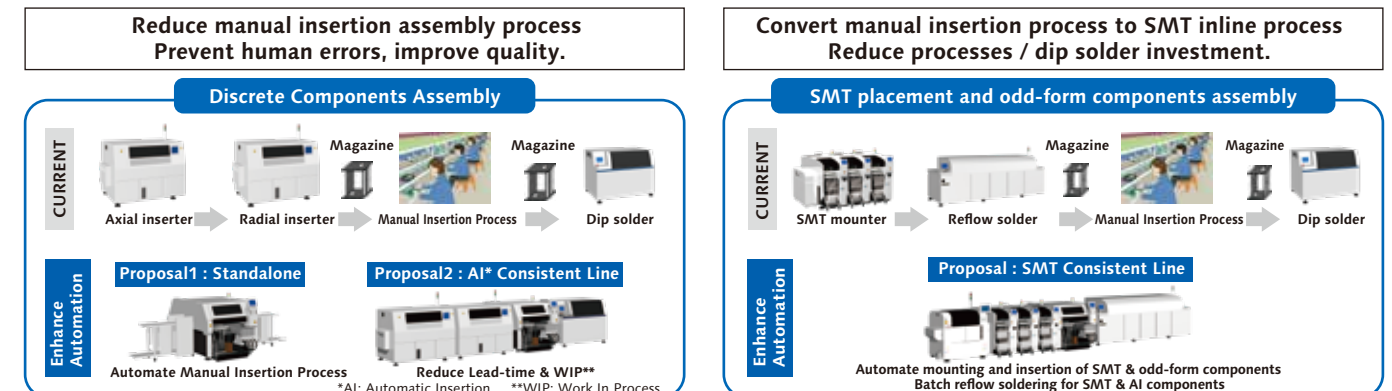
Applicable Components



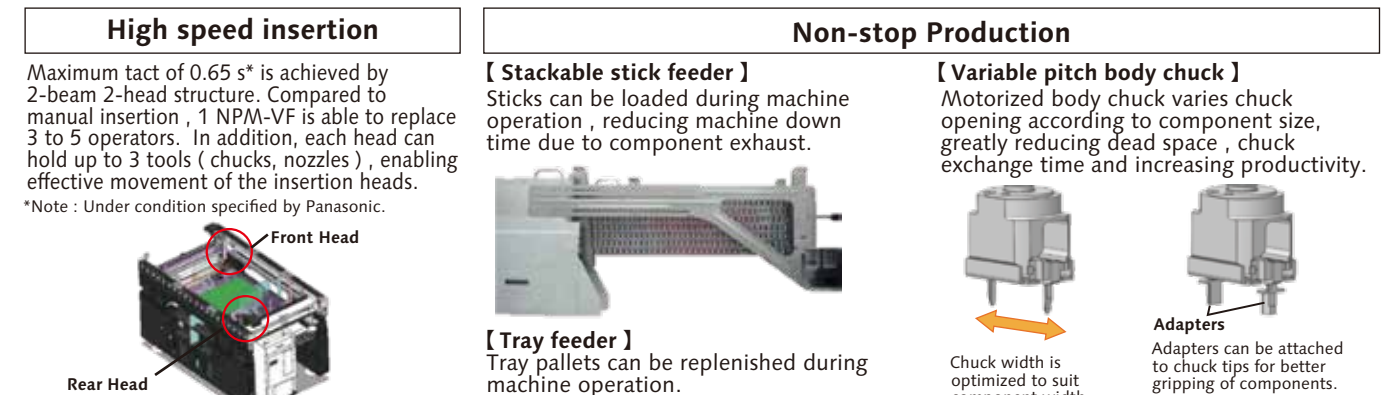
Support for SMT components



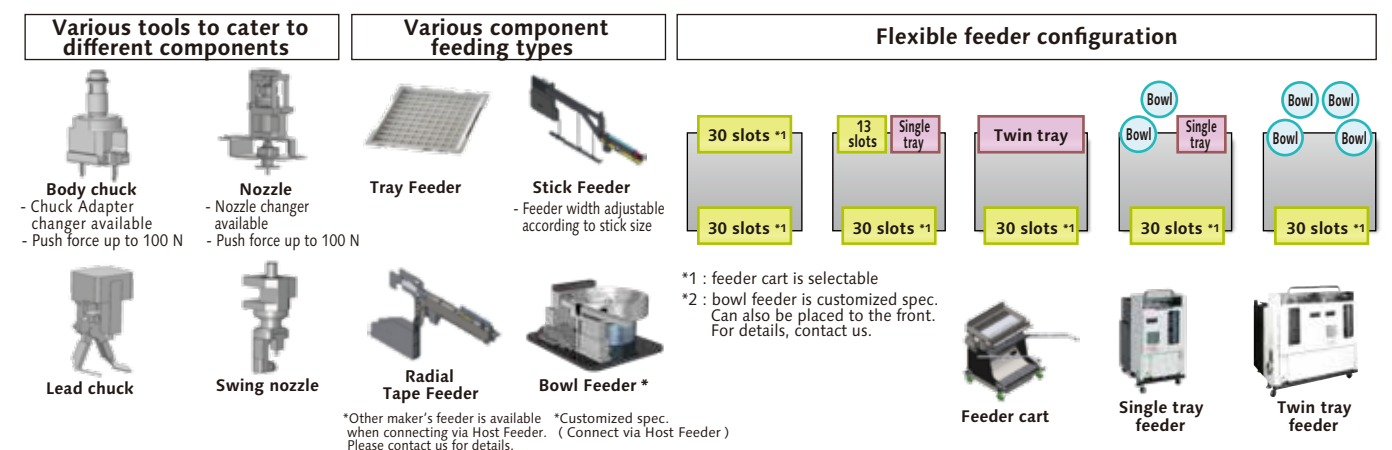
Line Solution



High Productivity



Versatility



Quality Insertion

