# **Quality improvement**

**Placement height control** 

Improves mounting quality by controlling

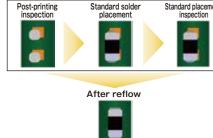
the mounting height based on PCB warpage

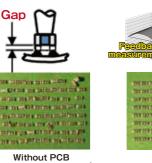
## **APC** system

## Feedforward to placement heads

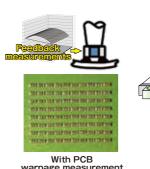
· Feed forward the offset values calculated from solder position

Chip components(0402C/R ~) Package component (QFP, BGA, CSP) Standard solde Post-printin



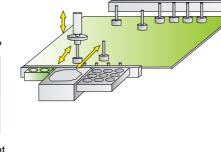


data and individual part thickness.



## Support pins are replaced automatically to reduce labor and operator errors during changeover.

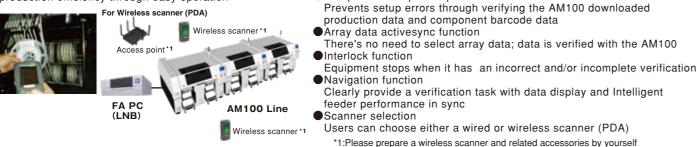
Automatic support pin replacement



## **Component Verification option**

### Prevents setup errors during changeover Provides an increase Component setup error prevention

of production efficiency through easy operation



LCM factory management system (PanaCIM)

Helps improve the entire factory's productivity and quality by supporting/directing operators and contributing to better management of the factory.





Automation reduces labor and helps improve quality

▲ Safety Cautions

•Please read the User's Manual carefully to familiarize yourself with safe and effective usage procedures.

Inquiries

## Panasonic Group products are ISO built with the environment in mind.

http://www.panasonic.com/global/corporate/sustainability.html

factories of the world and acquires the International Environmental 14001 Standard ISO 14001 Panasonic Corporation Process Automation Business Division

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Panasonic Group builds Environmental Management System in the

FAX +81-6-6862-0422

All data as of January 1, 2018 Ver.January 1, 2018 © Panasonic Corporation 2018





•Modular Placement Machine

•Mixing a wide variety of machine layouts and a wide range of options to offer you an optimum line suitable for all types of production



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



Feeder maintenance unit

• 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.

Automation reduces labor and helps improve quality

Automatic tape splicing unit



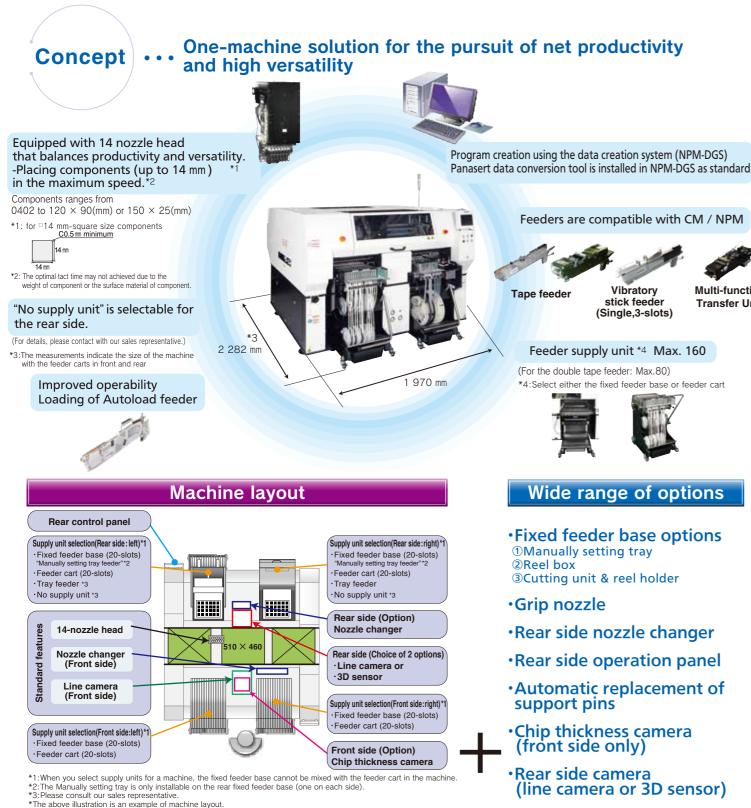


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\* It may not conform to Machinery Directive and EMC Directive in case of optional configuration and custom-made specification.

Model ID		AM100
Model No.		NM-EJM4D
PCB dimensions		L 50 mm × W 50 mm to L 510 mm × W 460 mm
Placement speed		35 800 cph (0.1006 s/chip), 12 200 cph (0.295 s/QFP 12 mm or less)
Placement accuracy(Cpk≧1)		±40 μm/chip ±50 μm/QFP °12 mm or less ±30 μm/QFP °12 mm over to °32 mm or less
Component supply	Taping	Tape : 4~56 / 72 / 88 / 104 mm
		Tape feeder specification: Max. 160         Tray feeder specification: Max. 120*1    (Tape : 4 / 8 mm tape (small reel))
	Stick	Tape feeder specification: Max. 40 Tray feeder specification: Max. 30 *1 (Single stick feeder)
	Tray	Tray feeder specification: Max. 20 *1 Manually setting tray specification: Max. 20 *2 (Option for the fixed feeder base)
Component dimensions		0402 chip*3 to L 120 mm × W 90 or L 150 mm × W 25 mm (T=28*4)
PCB exchange time		4.0 s (where there is no placement component on the rear side)
Electric source		3-phase AC 200 / 220 V ±10 V, AC 380 / 400 / 420 / 480 V ±20 V 2.0 kVA
Pneumatic source		Min.0.5 MPa to Max.0.8 MPa、 200 L /min (A.N.R.)
Dimensions		W 1 970 mm × D 2 019 mm *4 × H 1 500 mm *6
Mass		2 650 kg*7
*1:in case of Single tray *2:Whe *3:The 0402 chip requires a speci *4:For components with a height of 5:The D measurement indicates the For front and rear feeder cart sp		d and placement accuracy may vary depending on operating conditions. *Please refer to the 'Specification' booklet for details. When installed on both sides of the rear fixed feeder base. ecific nozzle/feeder. 0402 mounting compatibility is optional. t of 25 mm or more, a dedicated nozzle is required. Is the size of the machine with the fixed feeder bases in the front and rear. t specifications, D measures 2282 mm and, with the tray feeder connected (front side: fixed feeder base), 2105 mm. banel are not included. *7:The machine body plus 4 fixed feeder bases (varies depending on the machine layout).

# **Any-Mix Any-Volume Solution**



Trav feede

(20-stages)

Manually setting tray\*2

(10 kind of component

(Option

Feeder cart

(20-slots)

Fixed feeder base

(20-slots)

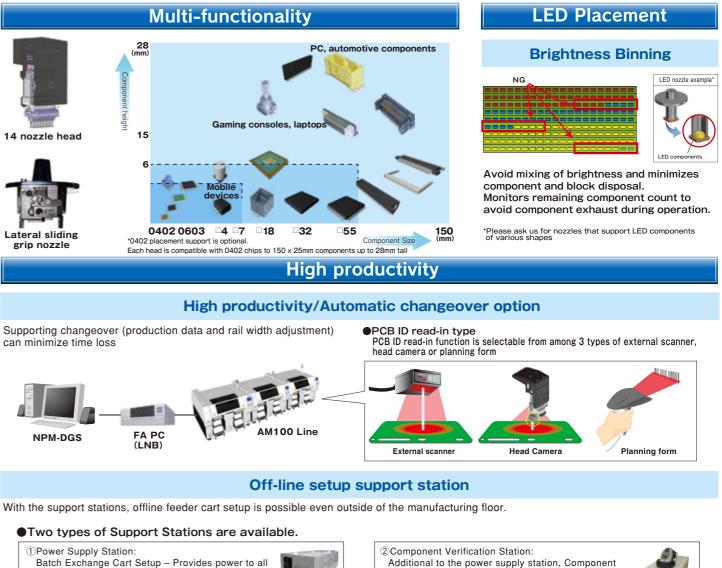
Reel hox

- Support station
- Height sensor (measuring PCB warpage)

Multi-function

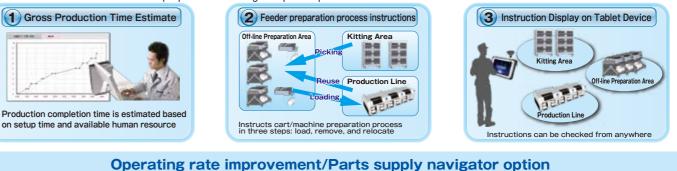
Transfer Unit

- Automatic changeover
- Component verification
- Upper communication
- PanaCIM ready



## Feeder setup navigator option

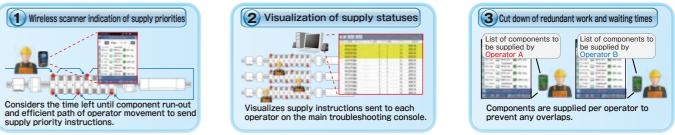
It is a support tool to navigate efficient setup procedure. The tool factors in the amount of time it takes to perform and complete setup operations when estimating the time required for production and providing the operator with setup instructions. This will visualize and streamline setup operations during setup for a production line.



feeders in cart. Feeder Setup - provides

power to individual feeders.

A component supply support tool that navigates efficient component supply priorities. It considers the time left until component run-out and efficient path of operator movement to send component supply instructions to each operator. This achieves more efficient component supply



Additional to the power supply station, Component Verification feature is added to this model. The station will navigate you to the location where feeders need exchange.

\*PanaCIM is required to have operators in charge of supplying components to multiple production lines.