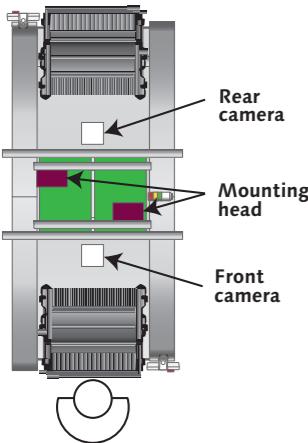


## Machine configuration



### Supply unit layout

Layout 1	Layout 2	Layout 3	Layout 4	Layout 5
8 mm taping : 120 Tray : 0	8 mm taping : 136 Tray : 0	8 mm taping : 94 Tray : 24	8 mm taping : 102 Tray : 24	8 mm taping : 68 Tray : 48
TF30	TF17 TF17	TF17 Tray	TF17 Tray	TF17 Tray

Model ID	NPM-WX										
Model No.	NM-EJM9D										
PCB dimensions	Single conveyor	Batch mounting : L 50 mm × W 50 mm to L 750 mm × W 610 mm	2 position mounting : L 50 mm × W 50 mm to L 350 mm × W 610 mm	Dual conveyor	Dual transfer ( Batch ) : L 50 mm × W 50 mm to L 750 mm × W 300 mm	Dual transfer ( 2 position ) : L 50 mm × W 50 mm to L 350 mm × W 300 mm	Single transfer ( Batch ) : L 50 mm × W 50 mm to L 750 mm × W 590 mm				
	Dual conveyor	Dual transfer ( Batch ) : L 50 mm × W 50 mm to L 750 mm × W 300 mm	Dual transfer ( 2 position ) : L 50 mm × W 50 mm to L 350 mm × W 300 mm								
Electric source	3-phase AC 200 , 220 , 380 , 400 , 420 , 480 V 3.0 kVA										
Pneumatic source <sup>*1</sup>	Min.0.5 MPa、200 L / min ( A.N.R. )										
Dimensions <sup>*2</sup>	W 1 410 mm × D 2 588 mm × H 1 444 mm <sup>*3</sup> / W 1 410 mm × D 2 318 mm × H 1 444 mm <sup>*4</sup>										
Mass	3 120 kg <sup>*3</sup> / 3 050 kg <sup>*4</sup>										
Placement head	Lightweight 16-nozzle head V3A ( Per head ) High-accuracy mode [ OFF ] [ ON ]	Lightweight 8-nozzle head ( Per head ) High-accuracy mode [ OFF ] [ ON ]	4-nozzle head ( Per head ) High-accuracy mode [ OFF ] [ ON ]	3-nozzle head V2 ( Per head ) High-accuracy mode [ OFF ] [ ON ]							
Placement speed * at optimum conditions	47 000 cph <sup>*5</sup> ( 0.077 s / chip )	35 000 cph ( 0.103 s / chip )	23 000 cph ( 0.155 s / chip )	18 000 cph ( 0.200 s / chip )	8 400 cph ( 0.429 s / chip ) 7 800 cph ( 0.462 s / QFP feeder ) 7 100 cph ( 0.507 s / QFP tray ) <sup>*6</sup>	6 500 cph ( 0.554 s / chip ) 7 300 cph ( 0.493 s / QFP feeder ) 6 350 cph ( 0.567 s / QFP tray ) <sup>*7</sup>	9 400 cph ( 0.383 s / chip ) 7 000 cph ( 0.514 s / chip )				
Placement accuracy ( Cpk $\geq$ 1 ) * at optimum conditions	$\pm 25 \mu\text{m}$ / chip	$\pm 15 \mu\text{m}$ / chip	$\pm 25 \mu\text{m}$ / chip $\pm 25 \mu\text{m}$ / QFP <sup>*8</sup>	$\pm 15 \mu\text{m}$ / chip	$\pm 20 \mu\text{m}$ / QFP	$\pm 15 \mu\text{m}$ / chip	$\pm 20 \mu\text{m}$ / QFP				
Component dimensions ( mm )	0201 chip <sup>*9</sup> / 03015 chip <sup>*9</sup> 0402 chip <sup>*9</sup> to L 8.5 × W 8.5 × T3 / T6 <sup>*11</sup>		0402 chip <sup>*9</sup> to L 45 × W 45 × T12 or L 100 × W 40 × T12		0603 chip to L 120 × W 90 × T40 / T45 <sup>*12</sup> or L 150 × W 25 × T40 / T45 <sup>*12</sup> or L 135 × W 135 × T18 <sup>*13</sup>						
Component supply	Taping	Tape : 4 / 8 / 12 / 16 / 24 / 32 / 44 / 56 mm Max.136 ( 4, 8 mm tape )	Tape : 4 to 56 / 72 mm		Tape : 4 to 56 / 72 / 88 / 104 mm						
	Stick	—	Max.32 ( single stick feeder )								
	Tray	Max.144 ( Front-rear tray stocker specifications )									

Please refer to the specification booklet for details.

\*4 : Dimensions and mass of the machine and two ASF<sup>\*15</sup> carts ( 60-slot ). \*11 : T 6 needs dedicated short nozzles and is

They differ depending on the optional configuration. □ 6.5 mm or less.

\*1 : Only for main body

\*5 : Under optimal operating conditions for the machine with dual lane mode. \*12 : T 45 is option.

\*2 : Excluding the monitor, signal tower and ceiling fan cover

\*6 : For any QFP □ 20 mm or less in size

\*3 : Machine dimensions and mass for standard configuration

\*7 : For any QFP □ 28 mm or less in size

( NPM-WX and ITF<sup>\*14</sup> cart ( 30-slot ) × 2 ).

\*8 : The placement angle recognition setting needs to be enabled.

They differ depending on the optional configuration.

\*9 : 0201 / 03015 / 0402 component requires a specific nozzle / tape feeder.

\*10 : 0201 component placement is optional.

( Under conditions specified by Panasonic )

\*11 : T 6 needs dedicated short nozzles and is

□ 6.5 mm or less.

\*12 : T 45 is option.

( PCB thickness + Max component height

≤ T 53; so, for T 45,

the max PCB thickness is 8.0 mm )

\*13 : □ 135 mm is option.

\*14 : Intelligent Tape Feeder

\*15 : Auto Setting Feeder

# Panasonic CONNECT

## Electronics Assembly System

Modular Placement Machine

Catalogue

2026

Model ID  
**NPM-WX**

Model No.  
**NM-EJM9D**



### 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 [connect.panasonic.eu](http://connect.panasonic.eu)

**NPM X**

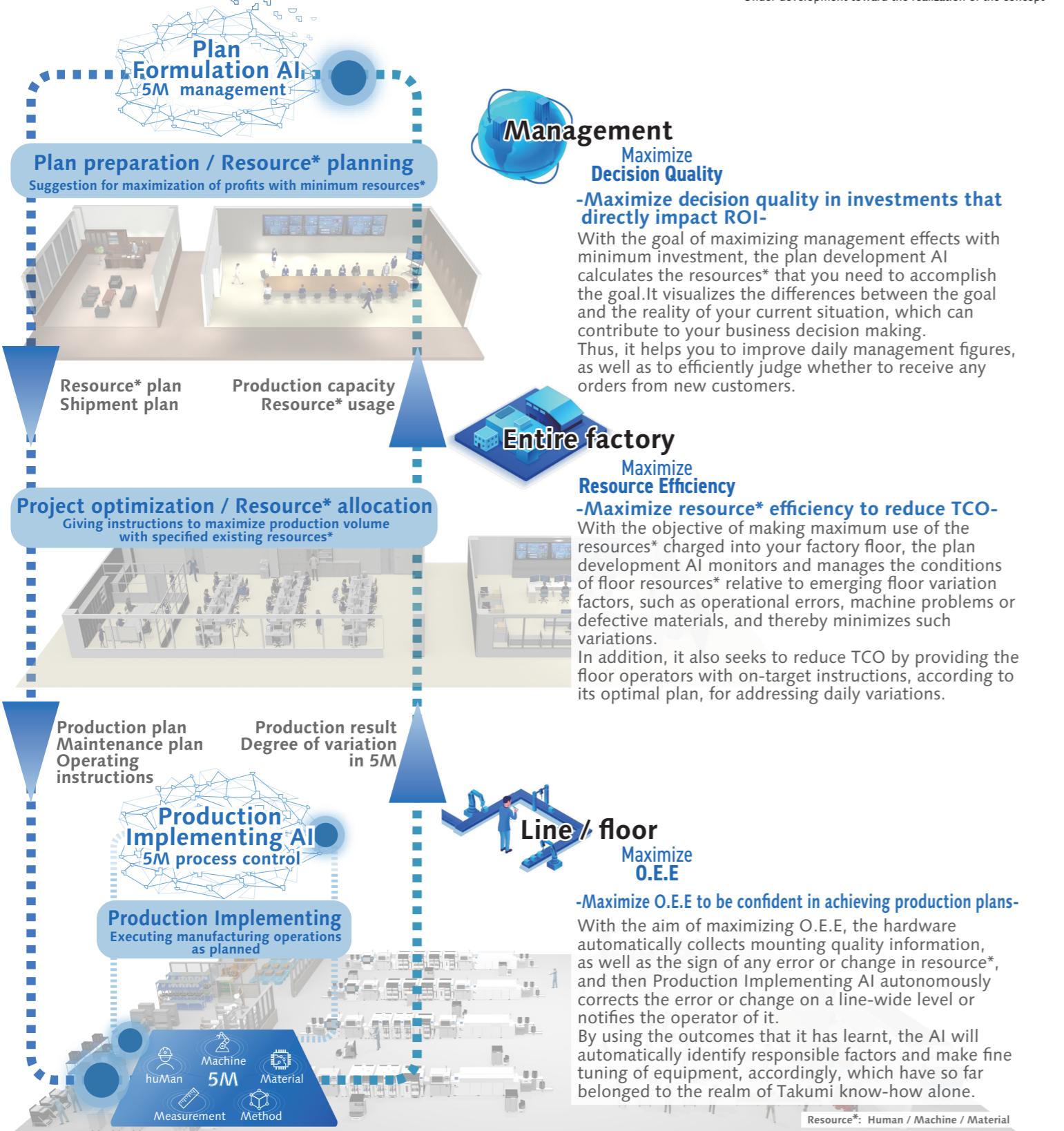


\*It may not conform to Machinery Directive and EMC Directive in case of optional configuration and custom-made specification.

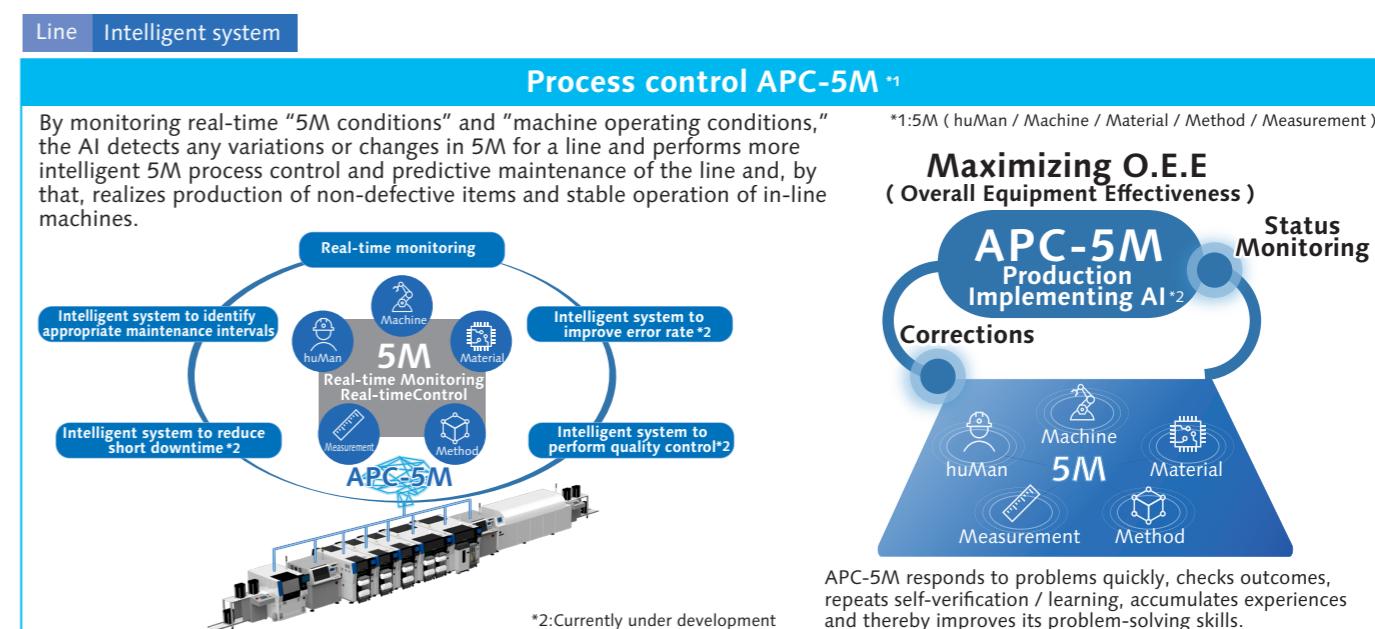
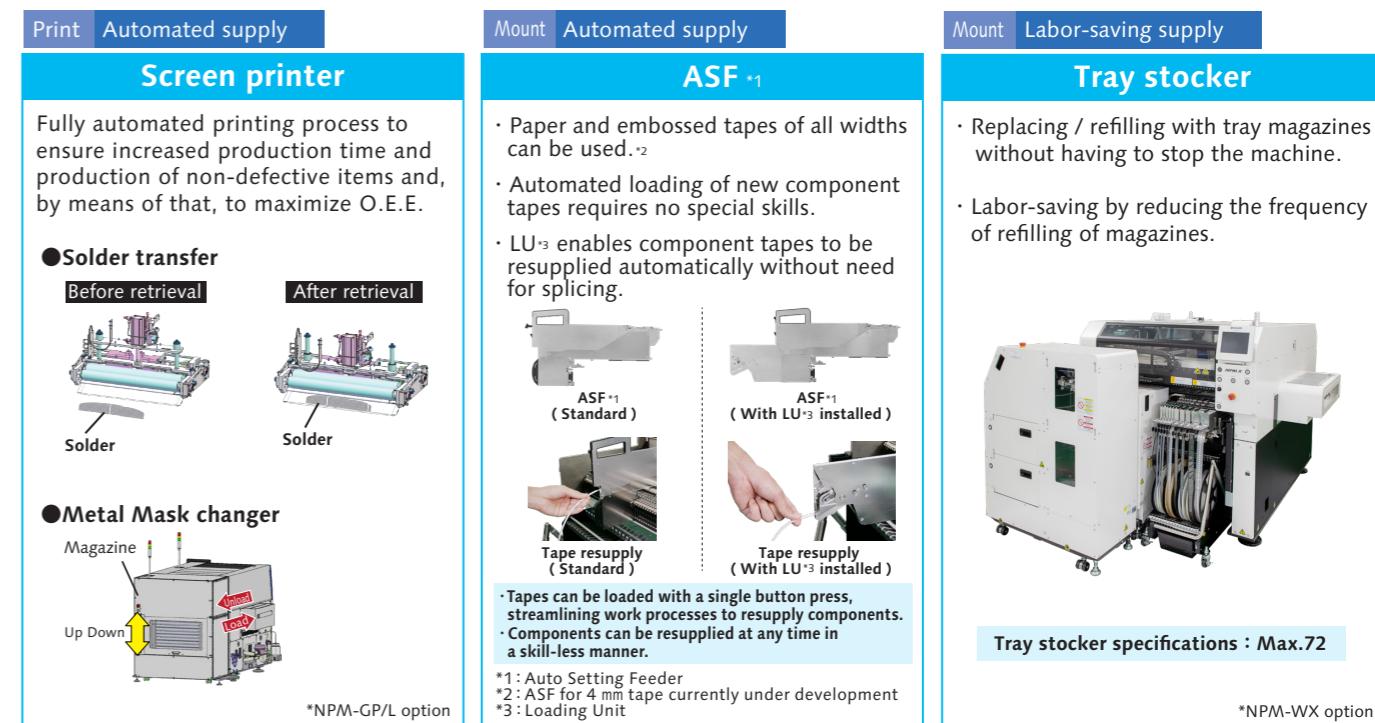
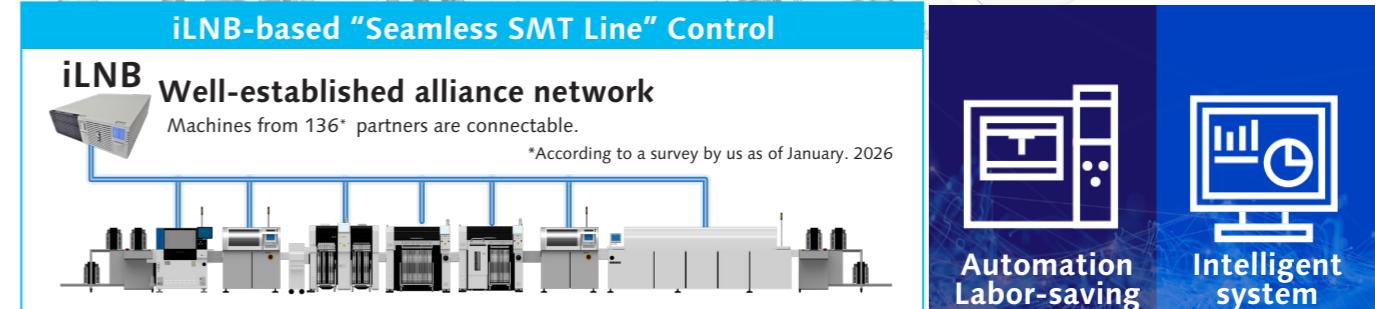
# "Autonomous Factory" Concept \*

A factory that immediately responds to every situation and continues to evolve autonomously

Ensuring the production of non-defective items through the integrated control of autonomous uninterrupted mounting lines and floors independent of any human intervention and judgment



Automation / Labor-saving Solution + Intelligent system Solution to Achieve Manufacturing That Is Further in Line with Production Plan



Realization of Autonomous Mounting Line

## NPM-WX's features

## New platform to realize Smart Manufacturing



NPM-WX

## 1 Evolved basic performance

## 2 Maximized actual throughput

## 3 Minimization of human-dependent work

## 1 Evolved basic performance

## Increased productivity / quality

## [ High-accuracy mode OFF ]

Max.speed : 94 000 cph\*

IPC9850 ( 1608 ) : 67 000 cph\*

Max.speed :  $\pm 25 \mu\text{m}$ 

## [ High-accuracy mode ON ]

Max.speed : 70 000 cph\*

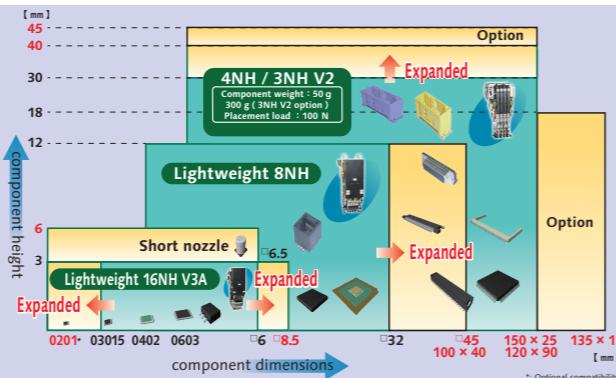
IPC9850 ( 1608 ) : 48 000 cph\*

Placement accuracy :  $\pm 15 \mu\text{m}$ 

\* : Tact time for the machine with the lightweight 16 V3A  $\times$  2 heads  
( The tact time with high-accuracy mode tuned OFF varies  
based on the optimal conditions of dual lane mode. )

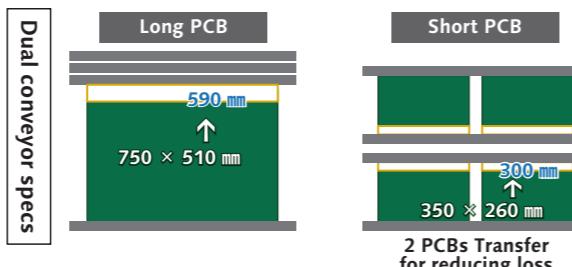
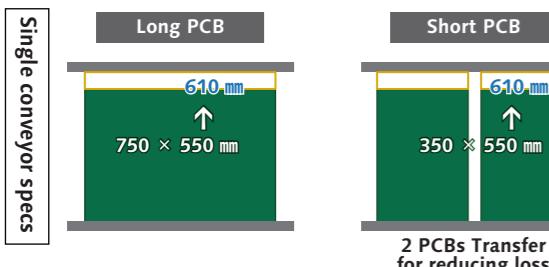


## Improved ability to support components



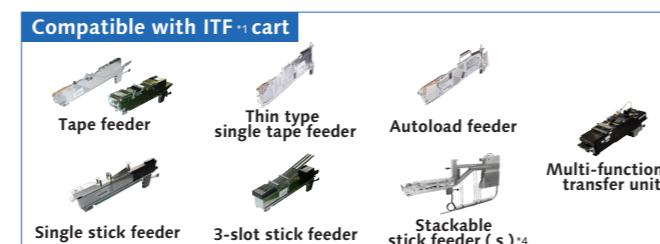
## Increased PCB adaptability

Increase in transportable PCB size. ( The following figures show increases compared to NPM-W2. )



## Greater versatility in supply units

Its overall versatility has been enhanced as it now allows you to make the following exchanges on your own.  
 - Exchanging ITF<sup>1</sup> cart ( 30-slot ) for ASF<sup>2</sup> cart ( 60-slot )  
 - Exchanging ITF<sup>1</sup> cart ( 17-slot ) / ASF<sup>2</sup> cart ( 34-slot ) for single tray feeder ( 24-product type )  
 A tray stocker ( 72-product type ), which can reduce the frequency of tray component feeding, is also installable.



\*1 : Intelligent Tape Feeder \*2 : Auto Setting Feeder \*3 : The dedicated tray feeder is necessary.

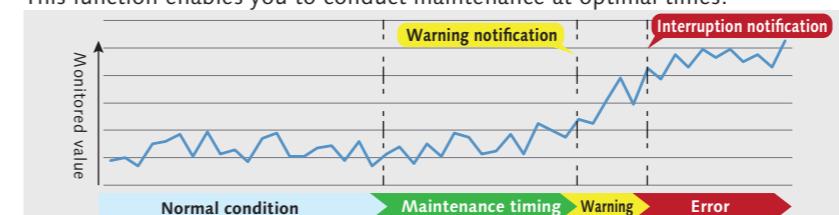
\*4 : L-sized one is available separately, depending on the component size. \*5 : Stick Feeder 3-slot \*7 : Dipping Unit

## 2 Maximized actual throughput

## APC system

## APC-5M: Real-time unit monitoring

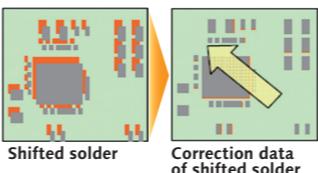
APC-5M monitors the conditions of target units in real time and provides notification of the timing of maintenance of each unit or any error condition that could interrupt production, depending on variations in monitored unit values. This function enables you to conduct maintenance at optimal times.



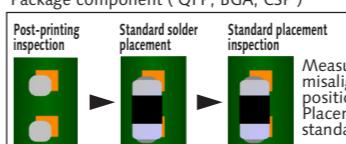
Judgment status	Target unit
Unmeasured	
Normal condition	
Semi-normal	
Warning	Head: Filter clogging Nozzle: Nozzle clogging Nozzle tip condition
Error	Feeder: Feed accuracy

APC-FB<sup>1</sup>  
Feedback to the printing machine

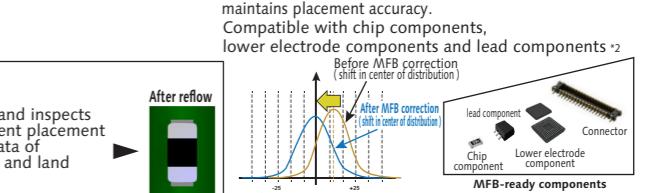
Based on the analyzed measurement data from solder inspections, it corrects printing positions. ( X, Y,  $\theta$  )

APC-FF<sup>1</sup>  
Feedforward to the placement machine

It analyzes solder position measurement data, and corrects component placement positions ( X, Y,  $\theta$  ) accordingly.  
Chip components ( 0402C / R ~ )  
Package component ( QFP, BGA, CSP )

APC-MFB2  
Feedforward to AOI / Feedback to the placement machine

The system analyzes AOI component position measurement data, corrects placement position ( X, Y,  $\theta$  ), and thereby maintains placement accuracy.



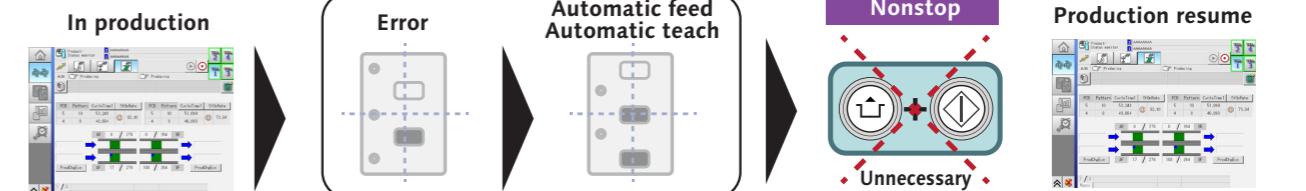
## Automatic recovery option

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. )

## Pickup position automatic teach in case of an error

## [ Automatically resume production after pickup position teach ]

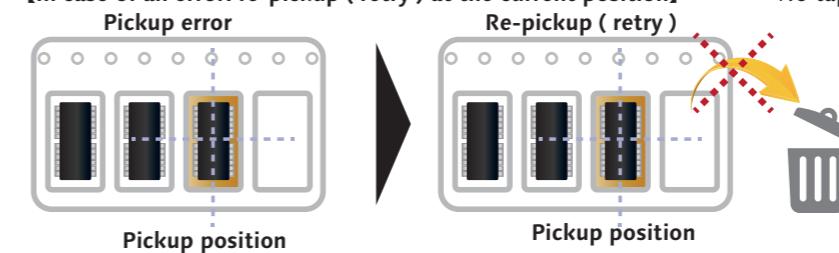


## Re-pickup of error component ( retry )

In case of a pickup error, retry pickup without feeding tape. It reduces discard components.

[ In case of an error: re-pickup ( retry ) at the current position ]

\*No tape feed

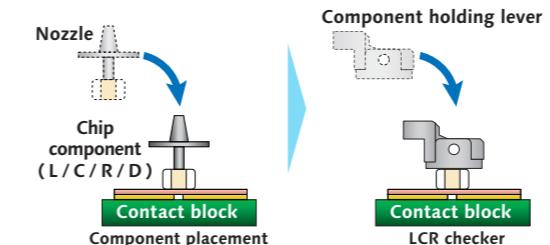


## No discard component because tape is not fed.\*

- When re-pickup ( retry ) is succeeded, the error is not counted.
- The number of re-pickup ( retry ) counts can be set.

\* : When re-pickup ( retry ) is succeeded.

## Automated constant check



An LCR check is performed on mounted components at the start of production, or during component supply or product changeover. It helps detect wrong reels loaded and defective components. In addition, because verified data is output to a file on LNB ( FA PC ), the data can also be used for trace management.

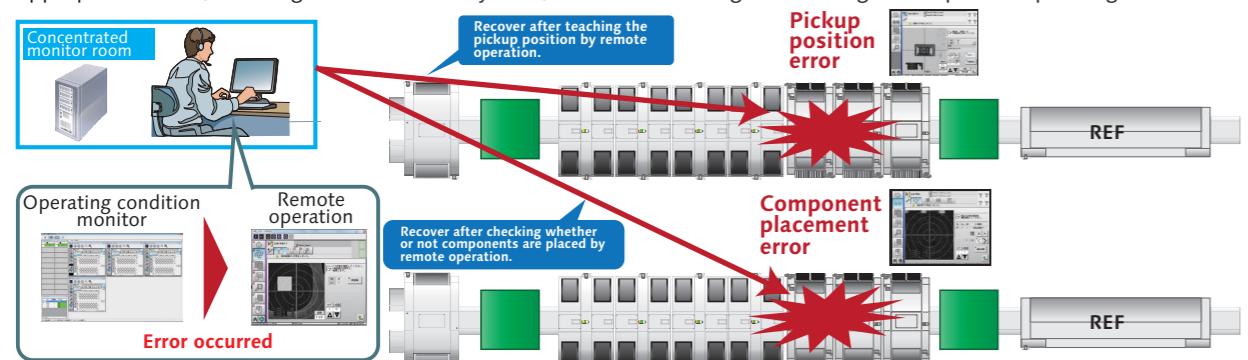
Component size	0402 to $\square 6$ mm
Component	Resistance, Capacitor, Inductor, Diode

## LCR checker

### 3 Minimization of human-dependent work

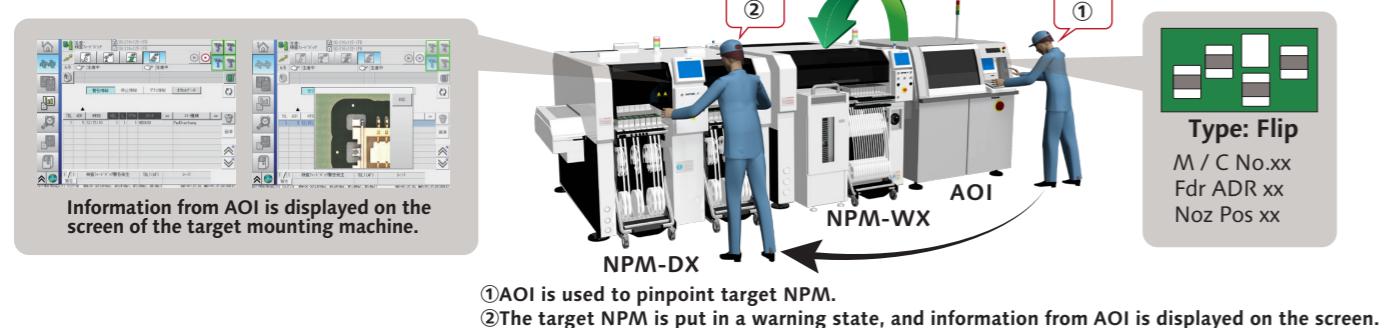
#### Remote operation option

Recovery by remote operation is available for the error of which recovery can be made based on human judgment alone. This enables concentrated on-the-floor monitoring, eliminating the time lost for the operator to detect error and take appropriate action, reducing the error recovery time, and thus achieving labor saving and improved operating rate.



#### AOI Info Display option

Information on components judged NG by AOI is displayed both on AOI and NPM.



#### 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.

#### Placement head maintenance

Good use is made of the machine's self-diagnosis function to automatically detect the maintenance timing of the placement head. In addition, the maintenance unit can be used to keep the placement head in working condition without requiring skills.

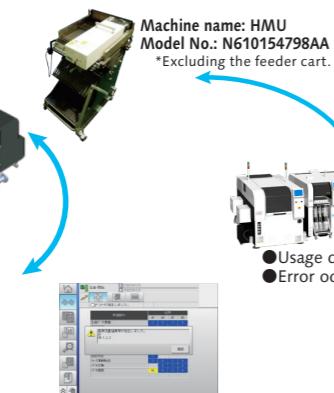
##### Load checker V2

Measures the "indentation load" imposed by placement head and has the machine and LNB displayed the measurement result (possible to measure even a low load of 0.5 N as well).



##### Head maintenance unit

To automate the inspection and maintenance of the placement head.



#### Parts supply navigator option

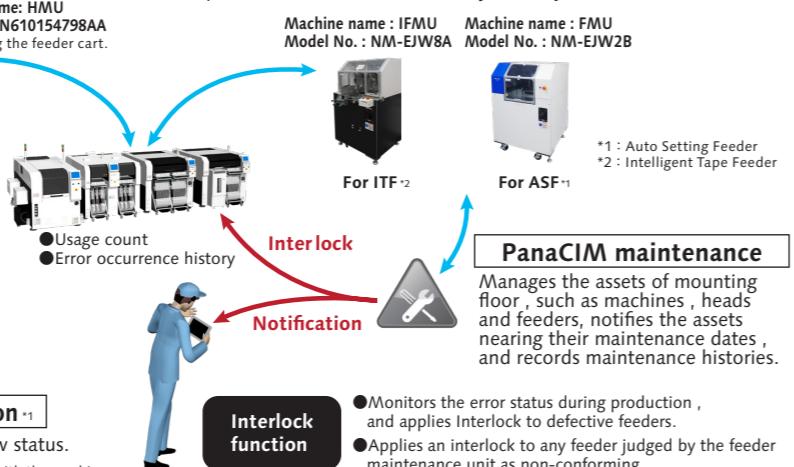
It is a parts supply support tool to present an efficient sequence of parts supply. Taking into account the length of time before parts shortage occurs and the least time-wasting moving path possible, the tool provides the operator with instructions for parts supply. This makes parts supply more efficient.

#### Feeder maintenance

Independent of operator skill, the feeder maintenance unit automatically performs feeder performance inspections and calibrations. Its combined use with the PanaCIM maintenance module can automatically prevent the inclusion of non-conforming feeders into production.

##### Feeder maintenance unit

It automates an inspection of major parts affecting the feeder's performance and calibrates the pickup position to prevent short-time stoppages and maintain quality. For FMU (exclusive to ASF<sup>①</sup>), the judgment accuracy has been improved and the X-directional adjustability has been automated.



##### Head diagnosis function

Checks the pneumatic circuit condition.

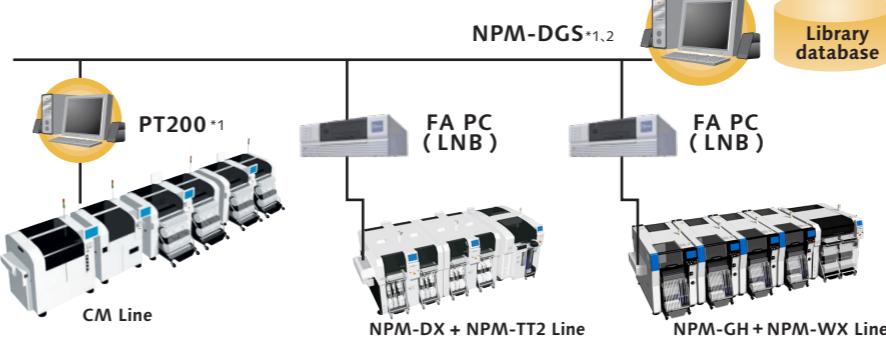
##### Blow error detection<sup>①</sup>

Checks the placement blow status.

<sup>①</sup> This function comes standard with the machine.

#### Data Creation System

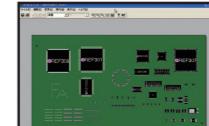
This is a software package that provides integrated management of component library and PCB data, as well as production data that maximizes mounting lines with high-performance and optimization algorithms.



NPM-DGS\*1,2

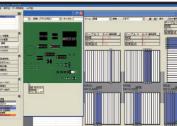
#### NPM-DGS (Model No.NM-EJS9A)

##### CAD import



Allows you to import CAD data and check polarity, etc., on the screen.

##### Optimization



Realizes high productivity and also allows you to create common arrays.

##### PPD editor



Update production data on PC during production to reduce the loss of time.

##### Component library



Allows unified management of the component library including mounting, inspection and dispensing.

#### Offline Camera unit V2

New component data can be created offline without relying on an individual operator's skill and proficiency, thus contributing to quality improvement and O.E.E maximization.

Thanks to adoption of a new component recognition camera and a wider variety of dedicated software functions, it now enables you to create component data more efficiently.

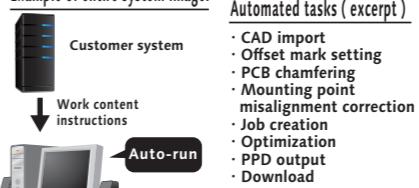


#### Offline Camera unit V2

#### DGS Automation option

Automated manual routine tasks reduce operation errors and data creation time. Manual routine tasks can be automated. By collaborating with the customer system, the routine tasks for creating data can be reduced, so it contributes to a significant reduction in production preparation time. It also includes the function to automatically correct the coordinates and angle of the mounting point (Virtual AOI).

##### Example of entire system image:

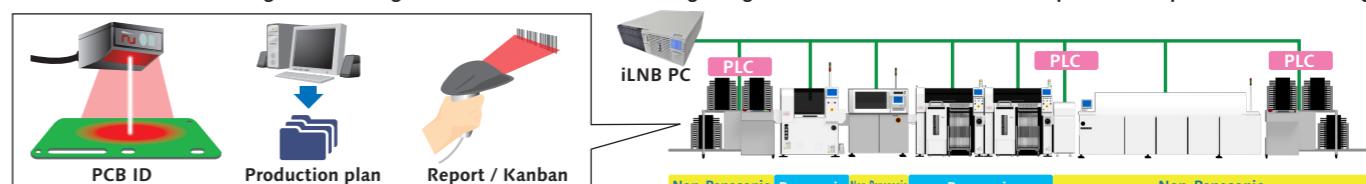


#### Changeover ability

All machines, including NPM, in SMT line are connected via iLNB, which allows automatic changeovers to be performed sequentially, starting from the first machine in the line.

##### Trigger for changeover

You can select from among the following three methods : PCB ID reading using an external scanner, Production plan, and Report / Kanban reading.



#### Open interface

Able to standardize the interfacing with your systems currently used. Provides data communication with our standard interfaces.



#### Host communication option

##### Events

Outputs a real-time event of equipment.

##### Other company's component verification

Communicates with your component verification systems.

##### Component management data

- Component remaining quantity data: Outputs component remaining quantity data.
- Trace data: Outputs data linked with component information\* and PCB information.

\*Entry of component information with PanaCIM material verification or other company's component verification (this option) is required.