

Model ID	NPM-DX						
PCB dimensions *When the long spec. conveyor is selected	Single lane mode	L 50 mm × W 50 mm to L 510 mm × W 590 mm					
Dual lane mode	L 50 mm × W 50 mm to L 510 mm × W 300 mm						
PCB exchange time *When the short spec. conveyor is selected	2.1 s ( L 275 mm or less ) 4.8 s ( L 275 mm or over to L 460 mm or less )	*May differ depending on PCB specifications.					
Electric source	3-phase AC 200 , 220 , 380 , 400 , 420 , 480 V 5.0 kVA						
Pneumatic source *1	Min.0.5 MPa , 200 L / min ( A.N.R. )						
Dimensions *2	W 1 665 mm × D 2 570 mm × H 1 444 mm *3	/ W 1 665 mm × D 2 294 mm × H 1 444 mm *4					
Mass	4 040 kg *3	/ 3 980 kg *4					
Placement head	Lightweight 16-nozzle head V3A ( Per head )	Lightweight 8-nozzle head ( Per head )	4-nozzle head ( Per head )				
	High-accuracy mode [ OFF ]	High-accuracy mode [ ON ]	High-accuracy mode [ OFF ]	High-accuracy mode [ ON ]	High-accuracy mode [ OFF ]	High-accuracy mode [ ON ]	
Placement speed * at optimum conditions	49 000 cph *5 ( 0.073 s / chip )	35 000 cph ( 0.103 s / chip )	24 000 cph ( 0.150 s / chip )	18 000 cph ( 0.200 s / chip )	8 500 cph ( 0.424 s / chip ) 8 000 cph ( 0.450 s / QFP )	6 500 cph ( 0.554 s / chip )	
Placement accuracy ( Cpk ≥ 1 ) * at optimum conditions	±25 µm / chip	±15 µm / chip *6	±25 µm / chip ±25 µm / QFP *7	±15 µm / chip *6	±25 µm / chip ±20 µm / QFP	±15 µm / chip *6	
Component dimensions (mm)	0201 chip *8 *9 / 03015 chip *8 0402 chip *8 to L 8.5 × W 8.5 × T 3 / T 6 *10	0402 chip *8 to L 45 × W 45 or L 100 × W 40 × T 12			0603 chip to L 120 × W 90 or L 150 × W 25 × T 30		
Component supply	Taping	Tape : 4 / 8 / 12 / 16 / 24 / 32 / 44 / 56 mm Max.136 ( 4, 8 mm tape )				Tape : 4 to 56 / 72 / 88 / 104 mm	
	Stick	—	Max.32 ( Single stick feeder )				

Please refer to the specification booklet for details.

\*1 : Only for main body  
\*2 : Excluding the monitor , signal tower and ceiling fan cover  
\*3 : Machine dimensions and mass for standard configuration ( NPM-DX and ITF \*11 cart ( 17-slot ) x 4 ).  
They differ depending on the optional configuration.  
\*4 : Dimensions and mass of the machine and four ASF \*12 carts ( 34-slot ).  
They differ depending on the optional configuration.  
\*5 : Under optimal operating conditions for the machine with dual lane mode.

\*6 : Accuracy valid for components 6 mm square or smaller.  
\*7 : The placement angle recognition setting needs to be enabled.  
\*8 : 0201 / 03015 / 0402 component requires a specific nozzle / tape feeder.  
\*9 : 0201 component placement is optional.  
( Under conditions specified by Panasonic )  
\*10 : T 6 needs dedicated short nozzles and is 6.5 mm or less.  
\*11 : Intelligent Tape Feeder  
\*12 : Auto Setting Feeder

Model ID

# NPM-DX

Model No.  
NM-EJM8D



## ⚠ 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

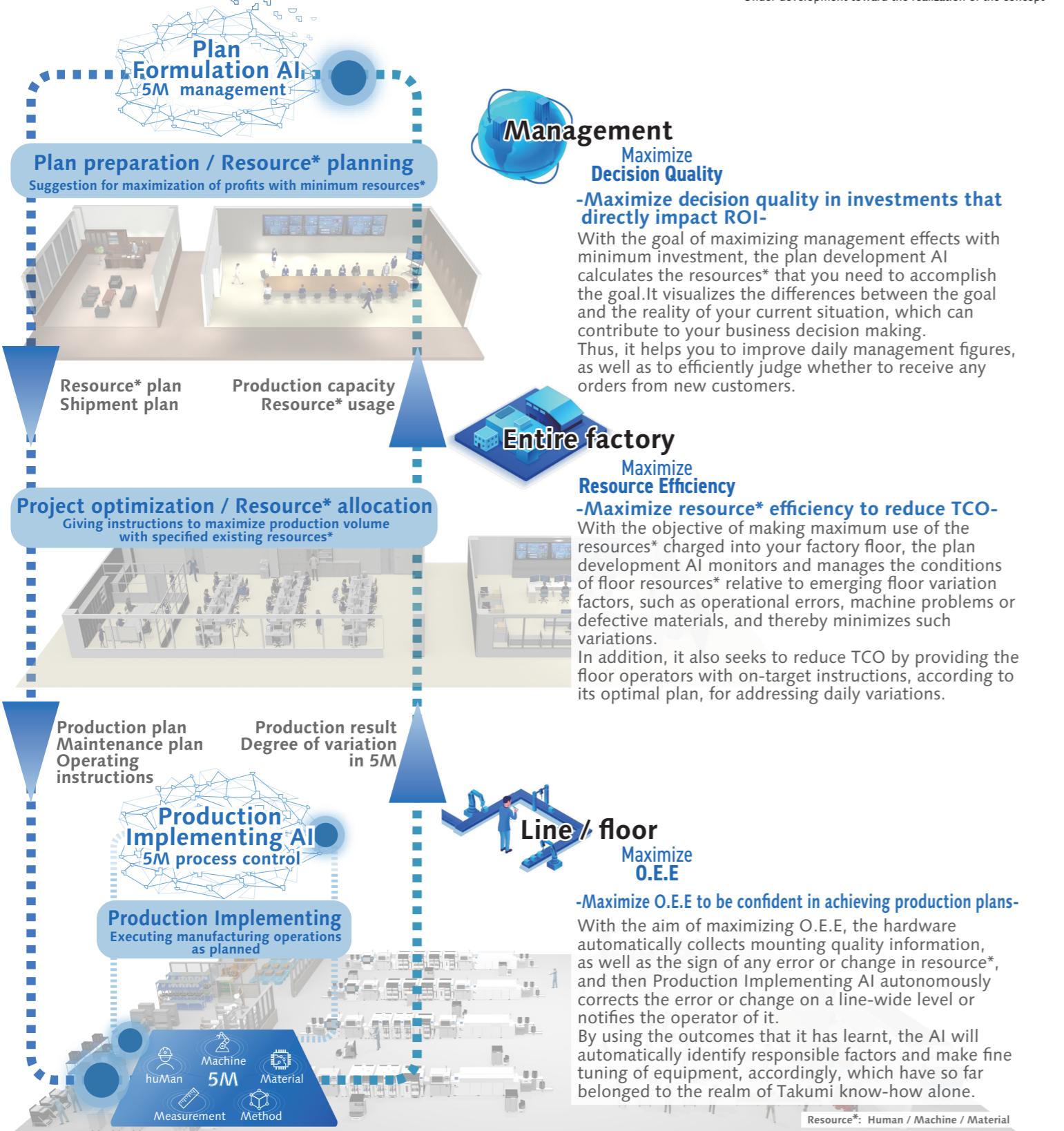


\*It may not conform to Machinery Directive and EMC Directive in case of optional configuration and custom-made specification.

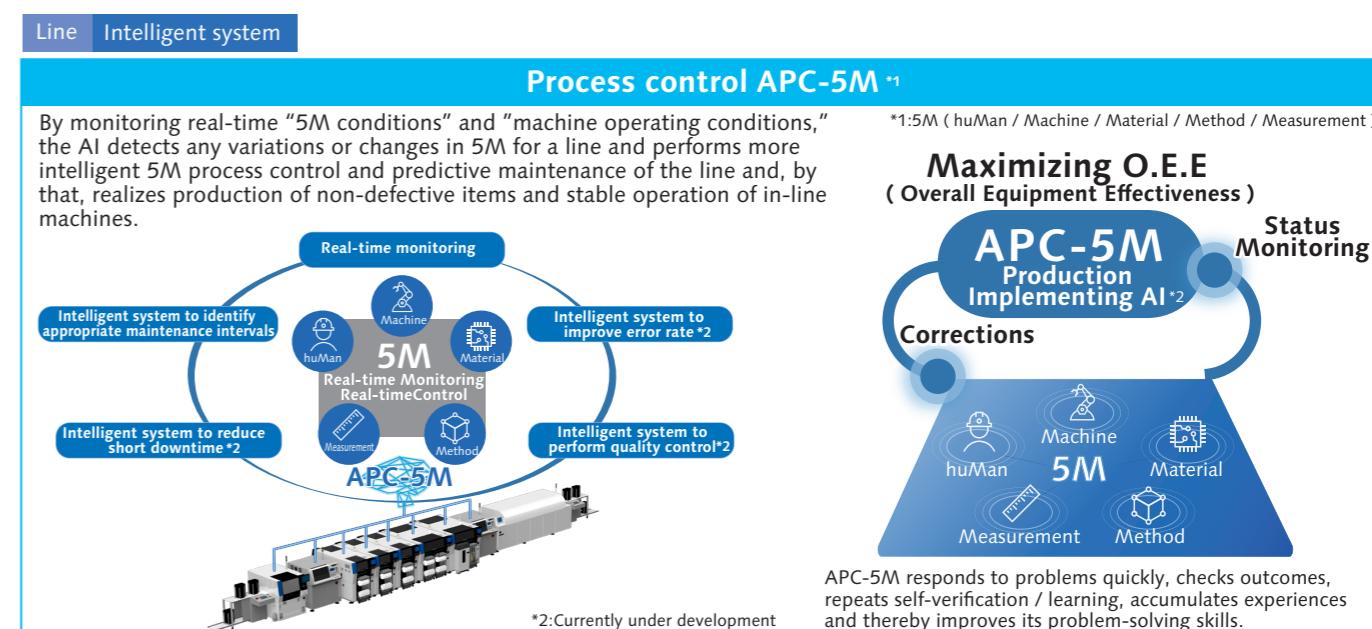
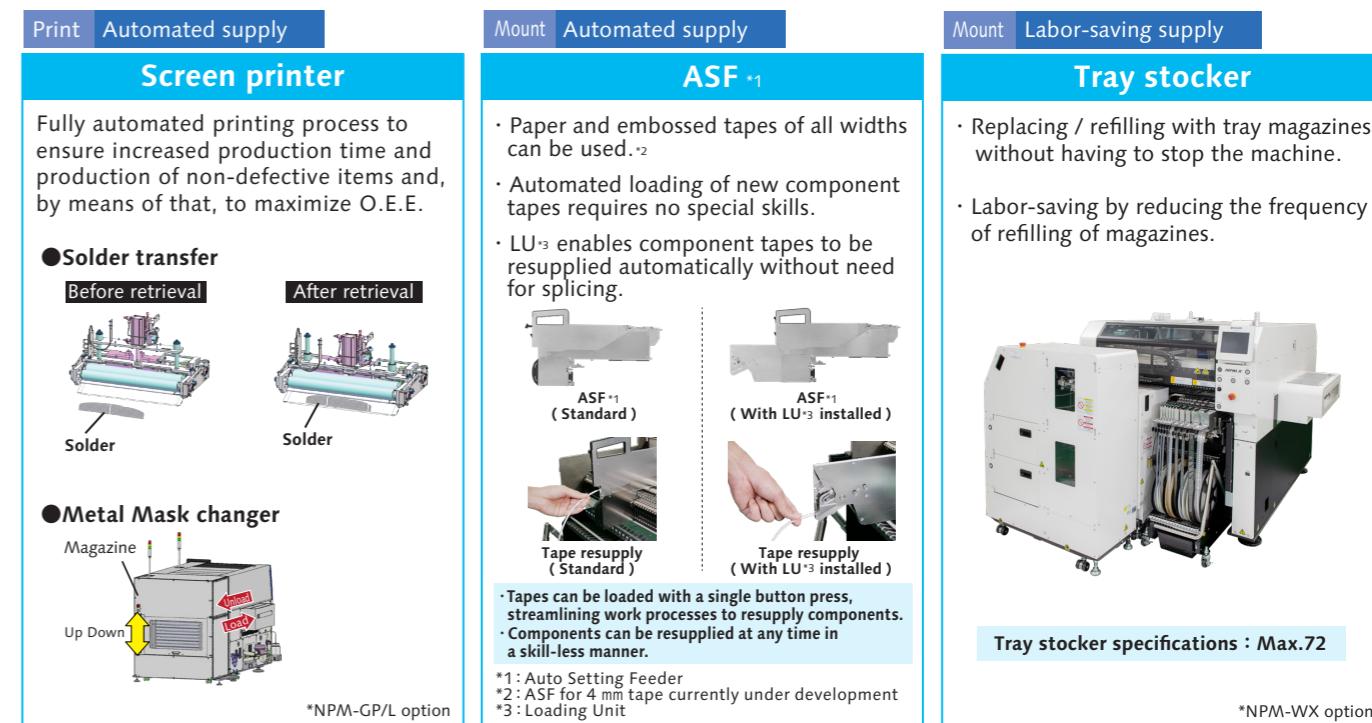
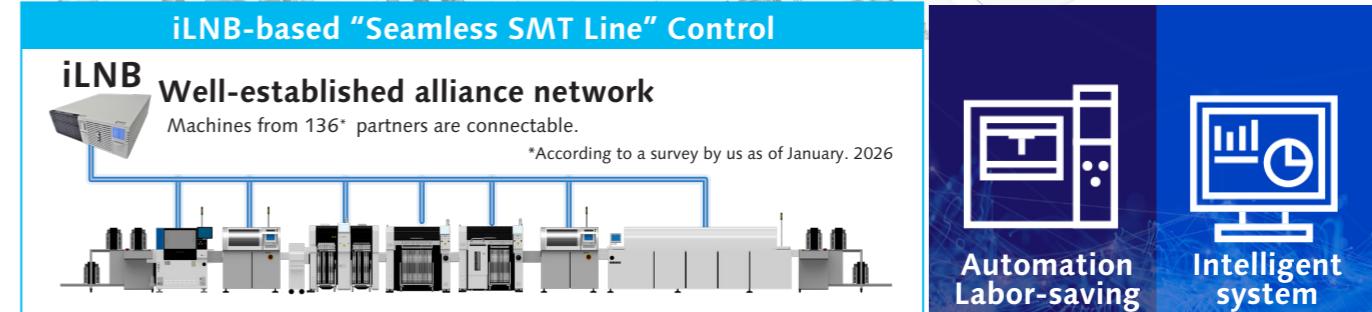
# "Autonomous Factory" Concept \*

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



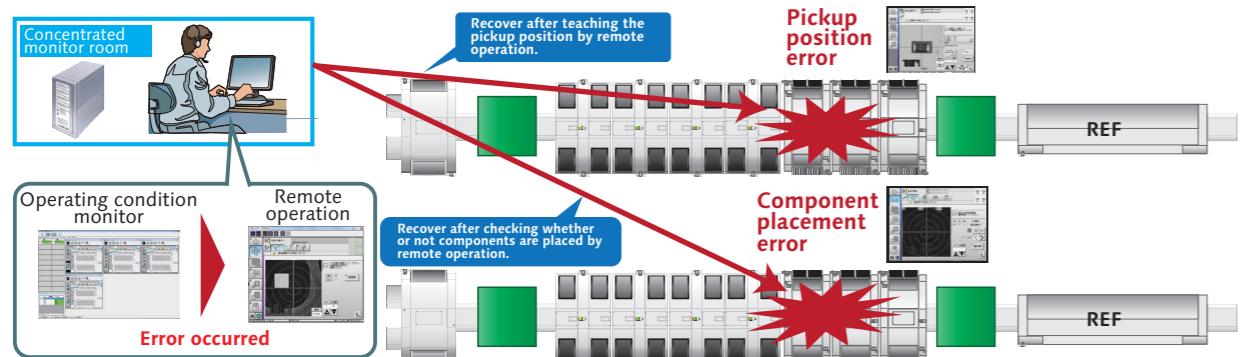
Realization of Autonomous Mounting Line



### 3 Minimization of human-dependent work

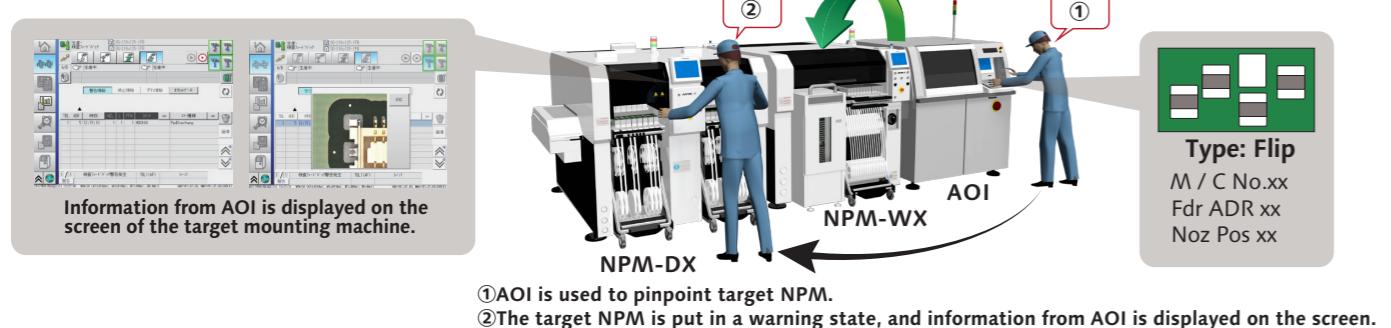
#### Remote operation option

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

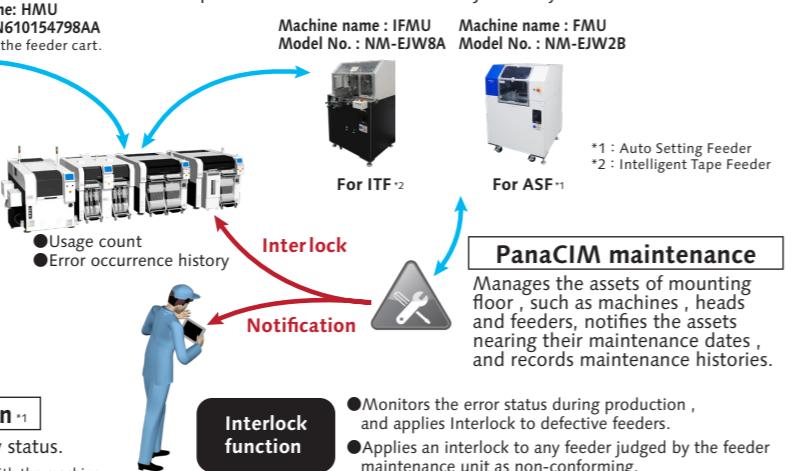
It is a parts supply support tool to present an efficient sequence of parts supply. Taking into account the length of time before parts shortage occurs and the least time-wasting moving path possible, the tool provides the operator with instructions for parts supply. This makes parts supply more efficient.

#### 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.

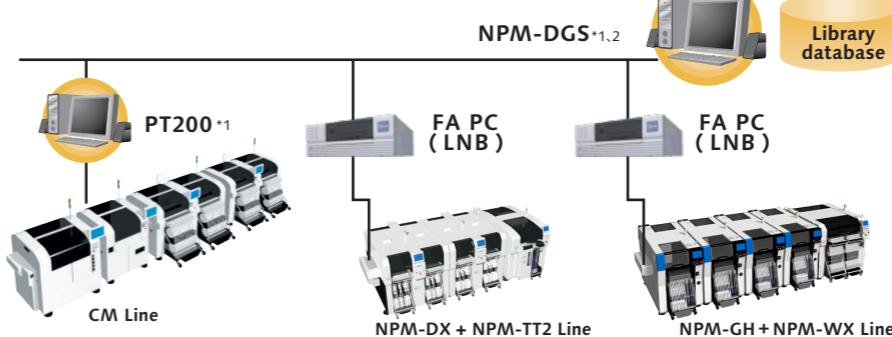
<sup>①</sup> This function comes standard with the machine.

##### Interlock function

- Monitors the error status during production, and applies Interlock to defective feeders.
- Applies an interlock to any feeder judged by the feeder maintenance unit as non-conforming.

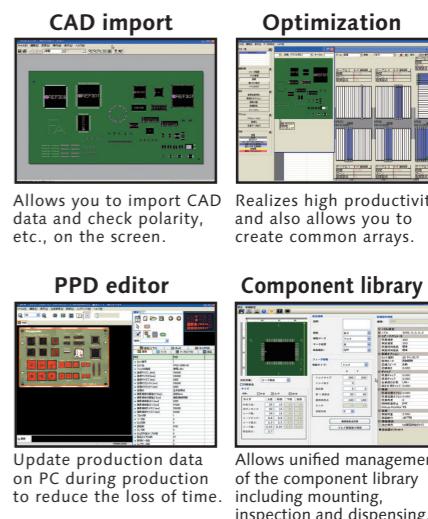
### Data Creation System

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)



### 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.

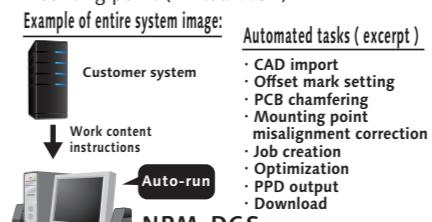
Thanks to adoption of a new component recognition camera and a wider variety of dedicated software functions, it now enables you to create component data more efficiently.



### 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).

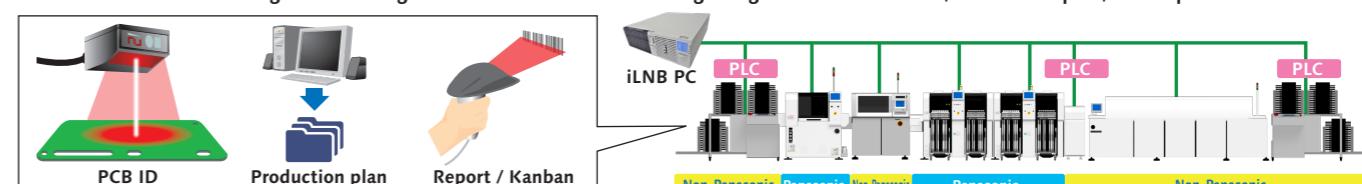


### Changeover ability

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.