February 2015

NPM-W2 – the Solution for Any-Mix-Any-Volume Production.

As a major evolution from previous Panasonic SMT placement machine the NPM-W2 marking significant improvements in three points:
1. Achievement of both high-productivity and high-quality placement.
2. Faster and more efficient product changeover.
3. Enhanced coverage of component range and extra long PCBs.

The NPM-W2 Trilogy - Part 1

1. High-productivity and high-quality placement with NPM-W2
   The achievement of High-productivity and high-quality at same time is based mainly on three points:
   ► Development of Light-weight 16-Nozzle Head
   ► Two PCBs on one stage
   ► Multi recognition Camera

Light-weight 16-Nozzle Head on NPM-W2

NPM-W2 is offering two selectable productions modes: the High-Productivity-Mode and the High-Accuracy-Mode. Depending on the selected mode the throughput can be increased by 10% compared to the NPM-W machine. In High-accuracy mode, the placement accuracy vs NPM-W will be increased by 10µm to +/- 30µm. Optional +/- 25µm is possible.

Main factors to reach the improved productivity respectively the higher accuracy are the use of Light weight 16-Nozzle heads, the new Multi-recognition Camera, the possibility to load 2 PCB on one stage and last but not least the newly developed ultra-rigid machine frame.
Two PCBs on one stage to shorten the PCB loading time.

As a standard every lane can hold one PCB of size max of 750mm x 550mm in single lane mode or 2 PCBs of each 750mm x 260mm in dual lane mode.

Alternatively, however, it is possible to load two PCBs in each lane in case of maximum length of 350mm, as shown below. The benefit is a reduction of PCB loading time to a minimum of only 2,3sec.

A PCB will be mounted. At the end of mounting process the PCB will be unloaded and the second PCB in the lane will be moved to first place for mounting. At end of the production of the second PCB it will be unloaded and two new PCB will be loaded into the mounting position for consecutive mounting process.

Multi Recognition Camera to increase placement accuracy and speed.

While the MPN-W is equipped with three separate recognition systems, the MPM-W2 incorporates the multi-recognition camera known already from the NPM-D machine. That camera system replaces the line sensor, the vertical line camera and the 3-D sensor. On NPM-W2 recognition types 1, 2 or 3 can be selected depending on the application.
A positive effect is the faster scanning speed of any selected type of camera compared with the NPM-W cameras.

In addition, thanks to the new multi recognition system, the NPM-W2 is now capable to perform an upside-down placed component check for small leaded components. The previous line camera system was not able to detect such an error.

NPM-W2 Trilogy will be continued.
P-WEB - Panasonic Factory Solutions link to Customers.

Panasonic is offering to all registered customers the access to the P-WEB, which is Panasonic’s portal to share valuable information about production equipment.

P-WEB will inform about various topics such as important information about machine, as there are general technical information but also important machine safety related information. You will be informed about new products and its specification, discontinuation of machines and about spare parts related matters.

Possible updates to improve or to enhance machine capability is an important chapter. Furthermore maintenance advices and manuals are available as well as software related notifications.

Looking for something special? A detailed search function is available to quickly find any required topic or information.

With P-WEB Panasonic is offering a pool of important and useful information around machine and software.

For registration to the P-WEB please send your application by email to PFSE.INFO@eu.panasonic.com
Panasonic Factory Solutions exhibits on SMT in Nuremberg.
Meet us in Hall 7, Booth 329

**smthhybridpackaging**

Internationale Fachmesse und Kongress für Systemintegration in der Mikroelektronik
Nürnberg, 05. – 07.05.2015

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