

3A Process Control

YS/YG/YVi

YAMAHA SMT ASSEMBLY SYSTEM

Realtime management to innovate product quality

QA Option

Unveiled new visualization tool to notice and analyze in production line



Relation between result and reason appears during the production. Therefore you can detect the real reason and make an action, then you'll get the result.

For the details, refer to page 20

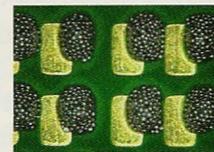
High quality mounting system based on combination of the printer and mounter

3A Process Control

Actual Adaptive Accurate Process Control

Possible cause for misregistration in solder printing

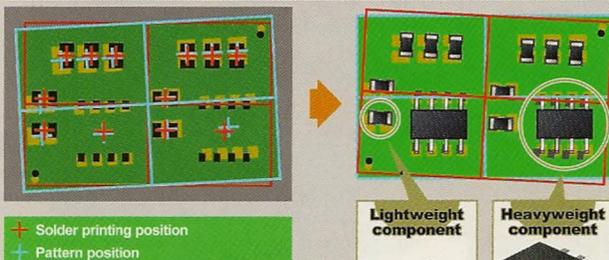
In general, the pattern-to-solder misregistration results, in many cases, from an error in the PCB pattern dimensions of which the causal factor lies in the material such as an error in the screen mask opening, expansion/contraction and distortion of PCB.



Highly accurate mounting position correction based on PCB to mask positioning information

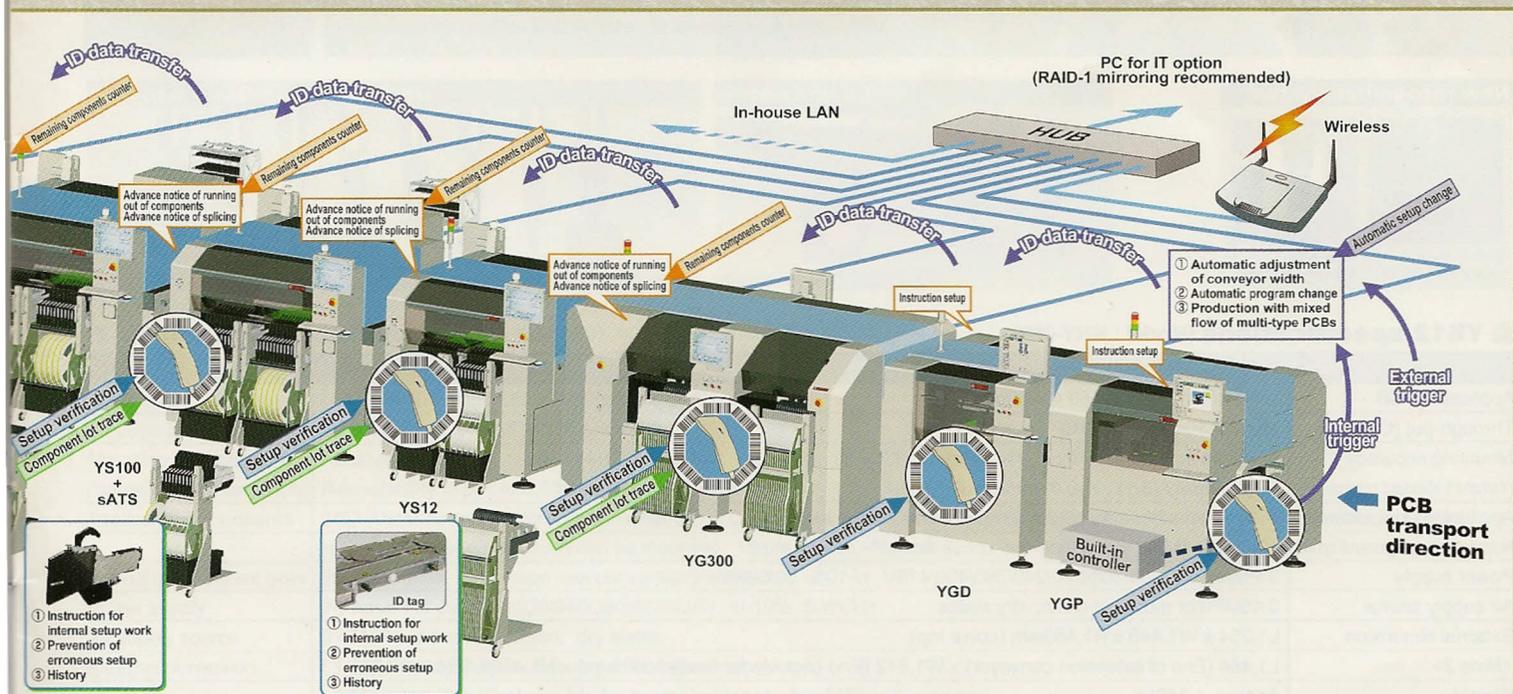
In case of light-weight components with which self-alignment effect is available, the effective mounting method is to correct the component mounting position so that electrode is mounted evenly on the printed solder instead of the pattern on PCB. The 3A process control can achieve this mounting position correction.

Printing and mounting of PCB with a dimension error (correction provided)



If the relative position relationship between PCB and mask during printing is known, it is possible to mount the component at the soldering position with high accuracy by executing XY correction and rotation correction to the entire coordinates of the PCB data.

Valid/invalid of correction can be set for each component.



FSi/CLi tape feeder

This FS/CL tape feeder can handle the wireless ID.



CLi type feeder plate

This feeder plate reads the wireless ID tag signals of the CLi feeder.



PDA

By following the information appearing on the display, the setup work is performed and by using the bar-code reader unit, the work is verified.

