

This solution provides, in a timely manner, information useful for production operations in printed circuit board (PCB) production lines, where there is demand for high-mix, low-volume production. The solution makes possible mass customization with high efficiency and high quality.

As the first step of overall optimization, we will respond to the following needs of customers:



Identify the production progress and the operating status of equipment in real time.



Check the status of the shop floor from a remote location.



Detect equipment abnormalities as soon as possible, address them quickly, and improve the operating rate.

Blend JUKI's advanced products and Hitachi's operational know-how to achieve the digital transformation (DX) of manufacturing sites

Managing production progress and results

▼ Check the production progress



Visualize the difference between the production plan and the production results

▼ Check the operating status of equipment



Visualize the location and status of a problem

Benefits

- By identifying differences between productions plan and production results in real time, you can implement countermeasures and improvements in a timely manner to prevent or rectify delays in delivery.
- By ascertaining the operating status of production line equipment from a centralized location, you can promptly address equipment-related problems.

Managing automated warehouses

▼ Check the status of equipment in automated warehouses



Visualize the status of equipment in automated warehouses

Benefits

- By checking the availability of space in each automated warehouse, you can quickly identify places where parts can be stored.
- You can monitor the status of automated warehouses (including information about storage statuses, errors, and warnings) from a remote location.

Visualization



The PCB production optimization solution was implemented in Hitachi's Omika Works. The World Economic Forum (WEF) designated Omika Works a "Lighthouse" and recognized it as an advanced factory for its business achievements.

<https://www.hitachi.com/New/cnews/month/2020/01/200110.html>



Countermeasures

JaNets

PCB production line

JaNets



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