



Panasonic's manufacturing operations optimizer automatically draws up production plans to reduce man-hours and enhancing production efficiency.

Manufacturing operations optimizer (MFO)

FeaturesThe Manufacturing Operations Optimiser (MFO) is a newly developed product for drawing up production plans required for onsite operations to reduce the man-hours needed for the production plan and, at the same time, to enhance production efficiency. MFO creates detailed schedules for productions and pre-set-up operations and calculates the required resources for production by simulating the manufacturing process of the entire SMT production floor. By simulating the planned production, the MFO answers questions about estimated production completion, indicates which production sequence is to be used for higher efficiency, proposes optimal machine set-up for higher efficiency, and indicates the number of staff needed to achieve the plan. MFO models the required production line, taking into account errors that can occur at the production machines, such as parts exchange. It optimises production taking into account multiple production lines. The offline set-up sequence can be optimised to adjust the requirement of staff and material. MFO support is not limited to machines of

Key Features

Drawing up production plans required for on-site operations

Detailed schedules for productions and pre-set-up operations

Calculates the required resources for production by simulating the manufacturing process



manufacturing operations optimizer (MHO) is the system to create detailed production schedules operations. Those production plans are mandat manufacturing processes and thus improves cycloroduction efficiency. It also calculates the numl required by simulating the entire SMT manufact.



Image of the systemMFO provides clear and easy to understand

Manufacturing operations optimizer (MFO)

https://latam.connect.panasonic.com/mx/en/manufacturing-operations-optimizer-mfo

t-up a រាជាបាលក្រអាស្រុក អាសារ អាស្រុក Main អាស្រុក Machines," "parts exchange by operators" and "operators' travel time," it models a mounting floor, and simulates provides various optimization production conditions including multiple mounting lines and off-line setup processes. production plan. production-seti upsures highly accurate simulation results. ing a table of function Production In consideration of multiple production lines, it optimizes a production plan based on the production conditions set up in [mounting process simulation]. This allows the "production line" and "production order" of each PCB to be calculated / provided automatically. [Optimization function] Setup plan It optimizes "off-line setup" sequence according to the production plan developed in optimization [production plan optimization]. This allows automatic calculation / provision of "priorities for setups in multiple lines," "a setup plan that takes into account the shred use of carts" and "effects of an increase / decrease in the setup number of operators on the production plan."*The optimization function of "In-line setup" is currently under development. [Optimization function] number of Based on the production conditions set up in [Mounting process simulation], it optimizes the number of operators required for each line and setup, allowing you to automatically operators optimization calculate / provide "the number of the operators required." Applicable machine NPM-X/NPM/AM NPM-DX, NPM, NPM-D/D2/D3, NPM-TT/TT2, NPM-W/W2/W2S, AM100 series Applicable machine CM/DT series CM602-L, CM232-M/212-M, CM101-D, CM402-L/M, CM401-L/M, DT401-F/M Applicable machine Screen Printer SP60/70/80/18, SPG/SPD/SPV Applicable machine NPM-VF series NPM-VF Applicable machine Panasonic's Machines not included in the ones mentioned above former machine Applicable machine Competitor's Competitors' machines (loader, screen printer, SPI, placement machine, AOI, reflow, etc.)