



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



Image of the systemMFO provides clear and easy to understand

t-up

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https://latam.connect.panasonic.com /pe/en/manufacturing-operationsoptimizer-mfo

t-up a	a ndoperater manag emen	In pobls deration of "error occurrence in production machines," "parts exchange by
t provides various optimization		production conditions including matches mounting lines and on-line setup processes.
, prod	uction plan, production-s	சூர்ப் சூsures highly accurate simulation results.
	[Optimization function] Production Jane of function list and	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 optimization	It optimizes "off-line setup" sequence according to the production plan developed in [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 operators optimization	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 calculate / provide "the number of the operators required."
	Applicable machine NPM-X/NPM/AM series	NPM-DX, NPM, NPM-D/D2/D3, NPM-TT/TT2, NPM-W/W2/W2S, AM100
	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 former machine	Machines not included in the ones mentioned above
	Applicable machine Competitor's machine	Competitors' machines (loader, screen printer, SPI, placement machine, AOI, reflow, etc.)