The Valor Production Plan solution is a finite-planning and scheduling tool for the electronics manufacturing industry that seamlessly connects the planner to the shop floor. Valor Production Plan supports factory planners as they generate production schedules, while adhering to the dynamic manufacturing environment and taking into account the frequent real-time changes that occur in the manufacturing stage.

The Valor Production Plan solution combines data from three different departments: (1) machine, line configurations, and resource availability from the shop floor, (2) work orders, schedules, and work hours from the ERP system, (3) and material availability and location from the supply chain. The combination of all three enables accurate short-term planning while creating the production plan that includes groups per line, static feeder settings, trolleys usage, Kanban/WIP, and resource allocation.

Intuitive constraint definition, along with tight SAP integration, makes Valor Production Plan an efficient, easy-to-use, decision-supporting tool that dramatically improves manufacturing efficiency.

**FEATURES**

- Includes realistic work-order scheduling based on actual factory capacity
- Allows intelligent grouping of products to minimize set up of machines when manufacturing multiple products
- Provides full flow coverage, including SMT, test, manual assembly/box-build, etc.
- “What-if” simulation allows immediate response to line-down scenarios
- Allows long-term planning, capacity forecasting, and assistance in new equipment investments
- Provides actual vs. planned, real-time performance analysis for a rapid response to bottlenecks
- Light weight, highly visual, easy to install

You can easily control optimization parameters such as due dates, production time, and changeovers, and then compare between different scenarios.
Intuitive, Easy-to-Use Production Planning

Set up your constraints through a simple, yet comprehensive, model that allows you to quickly set up all SMT and manual stations in your factory as a basis for the simulation. You can easily control optimization parameters, such as due dates, production time, and changeovers, and then compare between different scenarios. This allows you to intelligently choose between given plans to best fit your needs.

Meet Deadlines and Avoid Downtime

React to changes quickly using actual vs. planned performance tracking, allowing you to detect potential bottlenecks and avoid downtime. You can also import shift schedules or enable additional lines to see how they affect the ability to meet deadlines quickly and easily. You can update the schedules, such as adding shifts or control the number of active lines, to see how they affect due-date violations. Your plan can then be shared with the factory by exporting a calendar file for monitoring and visibility.

Experiment with What-If Scenarios to Optimize Your Plan

You can easily make on-the-fly optimization based on different scenarios (e.g., addition of unplanned work orders, missing resources such as feeders, or late material arrival), to support the planner’s decision-making process. Additional what-if scenarios can be made based on planned material arrival and material location data, which can be imported via integration with SAP and Valor Material Management.

Multiline Work Order and Product Grouping

Valor Production Plan can generate the optimal product groups (family setups or clusters) taking into consideration the machine capacity, feeder availability, work-order priority, and component range.

Seamless Integration with SAP

Unlike generic manufacturing-planning solutions, Valor Production Plan saves time and effort that is typically required to develop the custom interface between SAP and your planning process. You can extract work orders, required delivery dates, release data, and material stock levels from SAP ERP by simply configuring the location and parameters of your SAP PI module.

You can also update the parts reels quantities from SAP by selecting what to import and from where. Required quantity levels for each part in the work orders can be displayed, along with inventory levels and the quantity remaining after the work orders are executed.
Optimize Work In Progress

To avoid excessive amount of works in progress (WIP) and subassemblies in different stages of manufacturing, Valor Production Plan can generate an optimal plan that meets specified quantities in predefined stages. Easy configuration lets you assign a minimum and maximum WIP quantity for each standard component and subassembly throughout the production process. You can also define excessive storage costs to determine how much cost penalty comes from falling short or exceeding the defined WIP quantity.

WIP optimization in Valor Production Plan is performed through the intelligent multipline interface, displaying both the components and subassemblies, whether the total quantity is outside the defined threshold or not.

System Requirements

- 4th generation Intel Corei5 processor
- 8 GB RAM
- Double the amount of RAM for virtual memory (paging file size)
- 50 GB disk space
- Windows 7 is supported as 32 bit and 64-bit version
- Windows 8.1 and 10 are supported as 64-bit version

Avoid excessive amount of WIP and subassemblies in different stage of manufacturing by generating an optimal plan, meeting specified quantities in predefined stages.