

THE PLEX MANUFACTURING CLOUD

Master Scheduling



Managing a fine balance between customer demand and available capacity and resources, while maintaining high customer service levels, is a complex process. You need an integrated master production scheduling system that helps you decide what to produce, how much to produce and when to produce, helping you set realistic expectations with customers.



Automated Detailed Production Planning

Plex Master Scheduling – a cloud-based production planning solution – moves your planning from manual spreadsheets to an integrated sales history-based forecasting and a confirmed sales orders/release schedules-based one. Plex Master Scheduling balances delivery projections with a supply plan optimized for service-level objectives, supplier lead times and various safety stock models – to deliver an optimized master production schedule (MPS) that drives your material and production requirements.



Rough-cut Capacity-driven Resource Utilization

Plex Master Scheduling identifies short- and long-term rough-cut capacity constraints with input from actual and planned orders to influence your production decisions. Plex Master Scheduling translates labor, machine hours, warehouse space, material quantities and even money resources, ensuring optimal utilization, delivering a more realistic production plan. For your lean operations, Plex Master Scheduling also makes recommendations for Kanban quantities.



Closed-loop Manufacturing Operations Management

Plex Master Scheduling builds a foundation for manufacturers to compute available-to-promise quantity for a given product. With seamless integration with the Plex Manufacturing Cloud, Plex Master Scheduling not only drives purchasing and production activities but also adjusts the MPS based on continuous updates from the shop floor. In effect, you are able to manage your operations with confidence and accuracy.

“Plex Master Scheduling holistically plans for your manufacturing operations.”

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Integrated Master Scheduling

- Execute forecasting and production planning on a user-defined schedule, integrated with the Plex manufacturing operations management and execution system functionality
- Automate the bi-directional integration with the Plex Manufacturing Cloud to push MPS to drive purchasing and production and to pull production performance for adjustments
- Use delivery performance to determine planning and safety lead times as well as recommend areas for lead time improvements
- Calculate key metrics for order performance including days late, percent on time, average order replenishment time, etc.

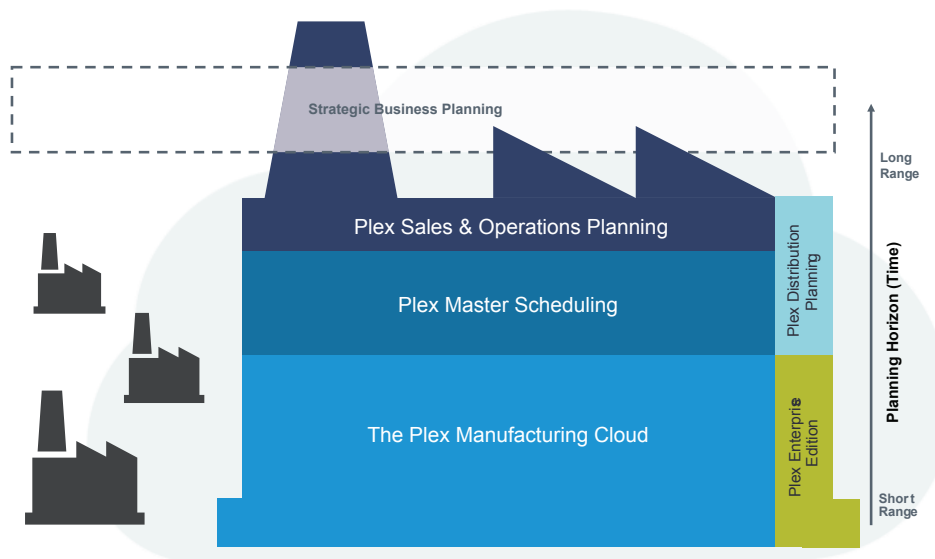
Optimized Capacity Utilization

- Include multiple shifts, number of resources, number of production lines, production calendar, machine utilization and more for true capacity calculation – across all manufacturing facilities
- Perform level loading for quarters and months to minimize variability in work center utilization

- Build supply plans based on quantity on hand, safety stock, sales forecast, and open and dependent orders, with an option to override safety stock and lead time settings
- Reschedule order quantities and due dates to remove over-capacity periods or adjust over-capacity periods with sub-contracting orders

Flexible Planning and Tracking

- Take advantage of a highly visual data-driven multi-variable production planning system
- Execute forecasting and planning at item level
- Time-phase planned replenishment orders as far out as needed
- Choose from a variety of best-fit forecasting algorithms that works best for each item
- View all demand history in Pareto order, to focus on items that are more important by revenue, margin and/or cost
- Apply different planning policies for various categories of items
- Compute order quantities using economic order quantity (EOQ) and/or fixed period methods



Plex delivers a multi-plant cloud-based supply chain planning solution, built on a manufacturing operations and business management foundation, for industry-leading customer service levels.