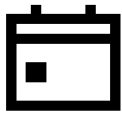


CONSTRAINED CAPACITY PRODUCTION LEVELING

Producing at levels to match changing customer demand can be extremely difficult, costly to implement, and very disruptive to any manufacturer's internal operations and supply chain. Constrained Capacity Production Leveling is an application within the Plex DemandCaster Supply Chain Planning solution that allows manufacturers the ability to minimize impacts of fluctuations in customers' demand by using constrained capacity planning, inventory planning, and level-scheduling techniques.



ESTIMATE RESOURCES

In today's environment of ever-changing demand requirements, your production planner cannot depend on offline spreadsheets with outdated formulas. Constrained Capacity Production Leveling provides the user with the tools needed for estimating the future capacity requirements on an average daily, weekly, and monthly basis so that future capacity utilization can be planned to ensure production at stable levels.



BALANCE CAPACITY

Creating a balance where your supply meets your demand is key to ensuring your organization's success and the Master Production Schedule ensures this balance. The Constrained Capacity Production Leveling application provides planners the ability to automatically smooth the Master Production Schedule for key finished goods work centers and ensure a consistent level of production that is balanced to fit within the available capacity of these work centers.



TEST SCENARIOS

Planning and replanning takes time and the consideration of many variables. Sometimes the user wants to see how the changes will affect the Master Production Schedule before promoting the Master Production Scheduling to production. The Constrained Capacity Production Leveling application provides a safe sandbox environment to test out the impact of changes before promoting to production. This environment helps the user try out different scenarios and gain valuable insight without impacting their live production plan.

BENEFITS

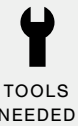
Bring more stability to your supply chain plans with the Constrained Capacity Production Leveling application

- Save production planners' time and improve their ability to generate a feasible and level Master Production Schedule and requirement plan
- Improve production capacity utilization
- Reduce production labor costs and increase productivity
- Lower overall supply chain costs

HOW IT WORKS

Use the following tools to achieve the best constrained plan:

1. Determine Capacity Requirements



Planned Suggested Orders, System Setting (Time or Quantity), Work Center Capacity Definitions



Develop an understanding of what your future average daily, weekly, monthly, and quarterly capacity requirements are over your planning horizon.

2. Define Daily Planned Capacity Utilization

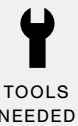


Work Center Capacity Definitions, Average Daily Capacity Load



The optimal planned capacity utilization levels are defined for critical work centers.

3. Generate Constrained Production Plan



Work Center Capacity Definitions, Planned Capacity Utilization, Work Center Scheduling-Frozen Time-Fence, Operation Sequencing Criteria, Suggested Orders



A comprehensive, constrained production plan from the time-fence through the end of the planning horizon.

4. Generate Constrained Supply Plan



Edit, Review, and Approve by User



A constrained and feasible supply plan is generated and sent to your ERP system for execution.