

Demand-driven planning, scheduling, and execution software

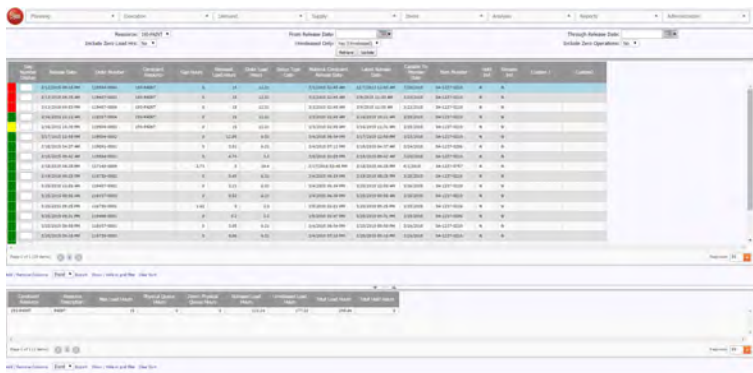
Improve flow, increase capacity, and gain a competitive advantage

SyncManufacturing™ software is the only system that offers a real-time, adaptive scheduling process that manages production from a value-stream perspective. SyncManufacturing creates a true, demand-driven, pull environment that takes a customer and order-centric view of the manufacturing process to optimize flow through the entire system rather than individual resources. Throughput is enhanced by decreasing work in process (WIP), boosting inventory turns, reducing cycle times and moderating variation across all resources.

SyncManufacturing uses a unique prioritization method based on cycle consume calculations to synchronize the workforce, method, materials and machines throughout the enterprise. Schedules and priorities are dynamically adjusted based on variability, empowering workers with clear knowledge of what to work on next.

CONLOAD™ is a patented continuous load methodology that is unique to SyncManufacturing. CONLOAD controls when work is released to the shop floor and determines the overall pace of the manufacturing process, which results in increased flow. The CONLOAD methodology embodies demand-driven manufacturing by focusing on constraints to set the pace and by gating work into production based on actual performance and the capacity of the shop floor. Demand signals are delivered upstream to work centers to produce only when downstream control points – or customers – indicate.

Our scheduling engine instantly identifies resource and/or material constraints, providing actionable information to resolve issues before they become problems.



Dynamic, Demand-Driven Flow

- **Flow-based, order-centric** scheduling and execution.
- **Real-time planning**, material synchronization and capable-to-promise data.
- **Manage variability** using up-to-the-minute floor execution prioritization capability and CONLOAD™ methodology for regulating workload released into production.
- **Balance work-in-process** at the level at which velocity and throughput are maximized.
- **Decrease expediting.**

Empowering Information

- **Align activity around flow-based metrics** for scheduling, queue-turns and throughput to ensure customer demands are met on-time, every time.
- **Gain real understanding of your true capacity**, leading to value-added innovations.
- **Support, enhance and accelerate continuous improvement.**
- **Develop planning strategies** through “What-if” capabilities.

Manage Constraints and More

- **Enable continuous improvement.**
- **Maximize profitability.**
- **Boost inventory turns.**
- **Reduce manual expediting.**
- **Balance work-in-process.**
- **Manage supply replenishments.**
- **Increase on-time delivery.**
- **Achieve consistent cycle times.**
- **Increase supply chain efficiency.**
- **Accelerate throughput.**

How it works

Demand-Driven SyncManufacturing™ manages variability in real-time by continuously aligning priorities to customer due date using a unique cycle consume percentage algorithm that synchronizes workforce, method, materials and machine-level input. It signals when all available inputs for an operation are ready, tracking all known variations and enabling operators to make the best possible decisions, and only elevating expediting when an order is truly in jeopardy of being late. By focusing on constraints and control points, SyncManufacturing regulates workflow using its patented CONLOAD™ methodology that continually monitors order status, quantifies process variability, adjusts material requirements accordingly, and subordinates WIP to levels that enhance inventory flow through the process. With every key resource in the supply chain in sync and focused on achieving the highest level of customer satisfaction and delivery requirements, the result is greater customer loyalty and a clear competitive advantage.





Synchrono® clients reduce waste, align themselves for optimized flow and dynamically adjust production plans as issues arise. With SyncManufacturing, manufacturers execute flawlessly, synchronizing processes to enhance flow, communicate effectively and meet customer demands on-time.

Focus on real-time constraints for maximum flow

- **Uses proprietary CONLOAD™ methodology** to pace work based on constraints.
- **Enables quick adjustment** of planning parameters when continuous improvement efforts are realized.
- **Prioritizes shop floor execution** and provides immediate feedback to operators.
- **Manages replenishment and order flow** by releasing only what the shop floor requires for focused performance.
- **Reduces WIP.**
- **Tracks cycle consume percentages.**
- **Provides “What-if” functionality** for evaluating multiple planning scenarios.
- Web-based and easy to use.
- Works with or independently of ERP, financial systems.
- Install via SaaS-based hosted model or on-premise.

SyncManufacturing and the Synchrono Demand-Driven Manufacturing Platform

The Synchrono® Demand-Driven Manufacturing Platform enables the real-time visual factory of the future, synchronizing your workforce, methods, machines, materials and information. And while SyncManufacturing provides great value by itself - as the core of the Synchrono Demand-Driven Manufacturing Platform, SyncManufacturing:

-  Clearly communicates operational performance and status via **SyncView™**.
-  Incorporates the status of kanbans and supermarket health from **SyncKanban™** into integrated manufacturing plan and execution.
-  Dynamically aligns production resources based on machine status signals from **SyncOperations™**.
-  Adjusts the production plan as needed based on escalation and action plans communicated from **SyncAlert™**.

