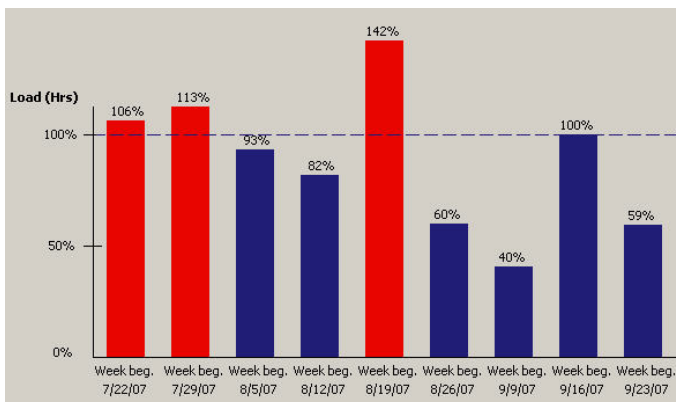


### Scope:

Catalyst Manufacturing® is a full-featured Enterprise Resource Planning (ERP) system designed to meet the planning, scheduling, and inventory needs of the small and mid-sized manufacturer in make-to-order, assemble-to-order, make-to-stock, and engineer-to-order/configure-to-order production environments.

### Advantages:

- Repository for all organizational data including customers, vendors, items, product route, bill-of-material, and work centers.
- Inventory transaction reporting from receipt of raw material to shipment of finished product. Labor transaction reporting to track actual units and hours posted by operation.
- Material and capacity planning tools to identify and respond to resource constraints that would otherwise limit throughput.
- Visibility of costs, delays, material shortages, and material and capacity requirements



### Key Features:

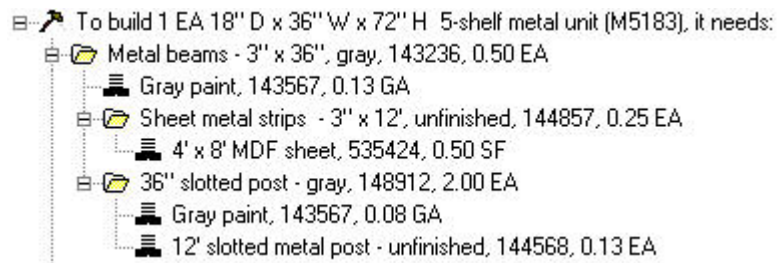
- MRP generated planned orders based on gross requirements netted against on-hand/on-order inventory
- Ability to maintain lot and serial number control with multi-level how-made/where-used lot traceability
- Streamlined shop order and purchase order release process
- Material management and control of outside process locations
- Allocation of inventory to highlight inventory available for new orders
- Features & Options setup and quote configuration for engineer-to-order/configure-to-order environments
- Finite capacity scheduling with Gantt chart production schedule board
- Material and labor backflush with backflush confirmation at receipt
- Consignment of finished goods at customer location
- Cycle Count module to identify inventory errors and apply corrective actions
- Net change physical inventory capability
- Over 150 standard reports



*Accelerate the way you do business*

## Setup Foundation Data

Catalyst makes it easy to setup your company data including customers, vendors, items, work centers, routes, and bill-of-materials. The base product configurations are built using modular **multi-level bill-of-materials** that can be viewed graphically or with indented BOM reports.



## Load Demand

Customer orders can be entered for either make-to-stock/make-to-order items or engineer-to-order/configure-to-order assemblies based on a quote. Available-to-Promise (ATP) and Capable-To-Promise (CTP) information can be displayed for each order line. Since order lines can be linked directly to a shop order, it's easy to obtain a quick snapshot of the status of in-process orders for make-to-order items.

Quote configurations can be built quickly from a base model and either modified manually or using a rules-based **features and options** approach.

## Run MRP

**Material Requirements Planning (MRP)** creates system-generated planned orders for make and buy items to be released by a planner or buyer as shop orders and purchase orders. MRP can be based on either customer orders and forecast or a **Master Production Schedule (MPS)**. MRP run options can be configured to apply time fences, use schedule dates, and specify other parameters to fit the particular business environment.

**Catalyst MRP**

**MRP Demand Source**

Independent demand sources  
 Master production schedule

**MRP Options**

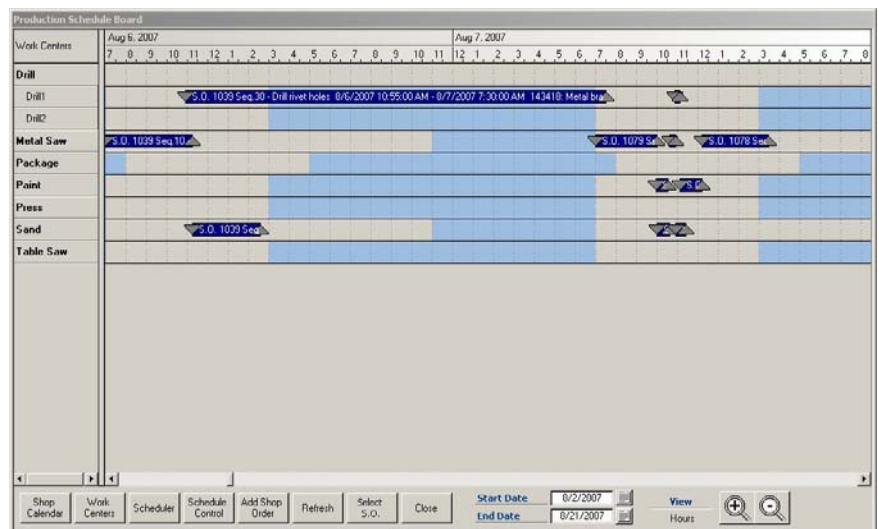
Include safety stock?       Use time fences?  
 Include forecast?           Use effective dates?  
 Use sequence position?       Use schedule dates?  
 Ignore remaining quantity?    Use planning horizon?  
 Update lead times?          \_\_\_\_\_ days

## Review Resource Availability

Prior to releasing orders to the shop floor, the planner must review material and capacity availability. Catalyst provides numerous planning tools, including material shortage reports and work center capacity load profiles, to accomplish this task and ensure that when a shop order is issued to production, the materials, machines, and operators needed to complete the job are available.

Catalyst also includes a **finite-capacity scheduling engine** to schedule open and released shop orders based on available capacity and pre-defined job selection rules. The scheduling of both machine and operator resources is based on available capacity for the resource as specified on the shop and operator calendars.



## Issue Shop Orders & Purchase Orders

Catalyst makes it easy to convert MRP system-generated planned orders into shop orders using the **Mass Release Control Board** and purchase orders using the **Purchase Order Consolidation** screen. Both screens list planned

Source	Item No.	Description	Rls Date	Need Date	Quantity	Release	Lot No./Cust. PO
PInd	143418	Metal braces - 3" x 18", gray	7/2/2006	7/27/2007	22,000.00	<input checked="" type="checkbox"/>	
PInd	144857	Sheet metal strips - 3" x 12", unfinished	7/2/2007	7/16/2007	26,685.75	<input checked="" type="checkbox"/>	968463
PInd	148912	36" slotted post - gray	7/11/2007	7/17/2007	1,702.00	<input type="checkbox"/>	
PInd	148912	36" slotted post - gray	7/13/2007	8/6/2007	8,000.00	<input type="checkbox"/>	
PInd	143236	Metal beams - 3" x 36", gray	7/15/2007	7/17/2007	493.00	<input type="checkbox"/>	

orders that need to be released by a specified date and include filters to limit the list based on specified criteria.

For make items, the planned orders can be linked to a customer order and assigned a lot number. The system also provides for checking material availability, scheduling, and printing shop order documents.

For buy items, the planned orders can be consolidated into a single purchase order or split into separate orders as desired.

## Shop Floor & Inventory Control

In the execution phase, Catalyst captures shop order receipts, material issues, inventory adjustments, and inventory transfer transactions. Labor transactions may also be entered to post the actual units and hours completed for each shop order operation.

A lot number or serial number is required for all inventory transactions entered for a lot or serial number controlled item. This enables complete **lot traceability** to show where lots have been used and how they have been made.

**Variance reports** can be used to identify missing or erroneous transactions, compare actual versus standard material and labor costs, and evaluate shop order operations that have not started or are behind schedule.

To help maintain the inventory accuracy required to run an MRP system, Catalyst provides tools to manage and control the **cycle count** and **physical inventory** process.

## Ship & Invoice

Catalyst supports shipment preparation activities to allocate, release, and pick the finished goods for staging. As the goods are loaded on the truck, Catalyst is used to prepare the shipping paperwork and print the packing list and bill of lading. When the truck departs, the shipment confirmation is processed to relieve the goods from inventory or transfer the goods to a customer consignment location. The shipment transaction creates the customer invoice that can be printed in Catalyst or exported to QuickBooks® for further processing.