



## **MRP (Material Resource Planning) / APS (Advanced Planning & Scheduling)**

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*This document provides an explanation of the Material Planning capabilities that are provided through the SyteLine system.*

### **What is the purpose of Material Resource Planning?**

- Helps minimize inventory by bringing in parts when needed.
- Reduces shortages by planning for components well in advance.
- Helps produce products to meet customer due dates

### **What are the different types of planning solutions provided by SyteLine?**

- Traditional MRP
- Finite APS
- Infinite APS

### **What are the differences in the MRP / APS solutions?**

#### → **Traditional MRP**

- Simpler to use
- Less strict in terms of data accuracy (i.e. routings, bill of materials, lead times, inventory)
- Allows for backward planning
- Gives complete flexibility on how you can plan your purchasing and production
- Does not have as many tools to help you analyze allocations and shortages

#### → **APS (Finite & Infinite)**

- More realistic in planning a due date for the order
- Has a lot more tools to analyze shortages, load on a work center, etc.
- Time becomes a constraint, as well as material and capacity, which means it will not plan in the past.
- Requires a lot more accurate data on routings, bill of materials, lead times, inventory, etc.
- Needs a lot of periodic data maintenance to clean up old orders, POs, jobs, etc.

## How do I determine which solution is right for my company?

### → Level of Material Planning Maturity of your Company

- No past material planning experience- MRP or Infinite APS
- Higher level of maturity (have used APS for some time) - Finite APS

### → Customer Requirements

- Less flexibility in due dates - MRP
- Some flexibility in working with customers on setting due dates - Infinite APS

## What is involved in implementing MRP / APS?

### → Assess the Environment

- Order entry process
- Purchasing process - how you release POs
- Job releases process
- Production reporting process
- Analyze product lines and how they are manufactured

### → Training

- Train key users on system and all tools available

### → Piloting

- Take all users through a day in the life of your business using the MRP/APS environment

### → Go Live

- Take system live throughout the organization

### → Post Go Live Support

- User Support
- Consistently updating data and keeping it accurate

## **Do we need additional licenses to implement MRP / APS?**

- MRP and Infinite APS are part of the standard SyteLine package and you do not need a separate license for them.
- Finite APS is a more advanced solution and does require purchasing a separate license.

## **What are the benefits of implementing MRP /APS?**

- MRP / APS can be a valuable tool for your organization. Implementing MRP / APS can help:
  - Improve on-time delivery and order fulfillment
  - Achieve a quick return on investment
  - Decrease disruptions on the shop floor
  - Reduce material shortages
- MRP / APS changes the culture of your company, so everyone needs to be on board and involved throughout the process.