

Material and Resource Planning



Optimize resources and shorten lead times with efficient, forecast-based production plans

As a technique, material and resource planning (MRP) has been around for decades, helping manufacturers create more meaningful production plans. However, the challenges and pressures faced by manufacturers today, such as operating in a shortage economy, have driven the planning process to evolve in recent times.

As product lifecycles continue to shorten in conjunction with the push to constantly innovate, manufacturers are now using a combination of different planning techniques. Customers expect more options and quicker delivery times, leading to a much more demand-driven planning view. This modern approach instils agility into the process rather than just relying on the Master Schedule and Bill of Materials (BOM) as the key inputs.

The Material and Resource Planning capability is one part of a comprehensive solution set for manufacturers. It provides the latest tools and techniques, such as Demand Driven Material and Resource Planning (DDMRP), and the ability to create a plan for each individual part. This enables you to schedule and match demand with material supplies and resource capacity at an operational level.



Benefits

Trusted by manufacturers across the globe, our MRP capability lets you move to a more agile and profitable production process.



Enhanced service levels

Improve customer service levels and reduce average lead times



Greater cashflow

Less inventory on the shelves unlocks cash for you to use elsewhere



Higher margins

A more predictable plan reduces overheads and helps you avoid having to lower prices just to compete



Reduced raw material wastage

Accurate plans based on demand help you cut waste and meet sustainability goals

Key capabilities

Master Scheduling

- Supports single and multi-level master scheduling.
- User-defined planning bill of materials enables centralized multi-site master scheduling.
- Available-to-promise functionality ensures excellent customer service.
- Dependent and independent forecasted demands are supported when creating master schedules.

Material and Resource Planning

- Calculate material and capacity requirements based on master schedules and various supply/demand data.
- Plan using a variety of lot-sizing procedures—minimum, maximum and multiple quantities can be used.
- Notifications outlining the action needed with user-defined filtering and direct links to the detail.
- Supports intraday planning for fast-paced manufacturers that need goods to be finished the same day the order comes in.
- Short-term supply and demand can be balanced for parts down to a minute level across a variety of manufacturing modes.

Demand Driven MRP (DDMRP)

- Address real and anticipated demand, enabling you to easily identify demand linked to specific customer orders or commitments, as well as anticipated demand not tied to the current pipeline.
- Reduce overall lead time and cope with changing demands by managing strategic inventory buffers in the manufacturing process or supply chain.
- Dynamically generate and guide the execution of supply orders based on the average daily demand and any upcoming qualified spikes in sales.



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