

Planning Management

MPS

The first step for any manufacturing company utilizing a closed-loop MRP II System is in Planning and Forecasting. Based on the Business Plan, the company creates a production scheme that reflects the Business Plan with respect to planned rates of production. This is expressed by product produced, and usually in weekly intervals. This schedule is referred to as the Master Production Schedule. The eMIS Master Production Schedule specifically outlines the Sales Demands and the Forecasted Demands for products, while taking into consideration Customer Orders, Warehouse Demands, and Finished Goods Requirements. The ATP (Available to Promise) logic allows for accurate Quotes to Customers on new Sales Orders.

MRP

The eMIS Material Requirements Planning System compares requirements from Sales Orders and previously defined Forecasts, against current stock-on-hand and Planned Receipts, to produce a Master Planning Schedule. The system then explodes each assembly on the Master Plan to consider the requirements for individual components, while also considering the known lead-time for procurement of the individual components. Shortage conditions, as well as overstock conditions, are noted. This means you can maintain your Inventory at the most efficient level to maximize Productivity, Profits, and Customer Service. By identifying time-phased requirements for components and suggesting a plan to replenish stock, the eMIS Material Requirements Planning System can help your company meet its delivery schedule and Inventory level goals better than 95% of the time.

ESV Technologies

Features:

- The MPS module interfaces with the MRP module.
- The MRP module interfaces completely with other eMIS modules.
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- The eMIS MRP logic is regenerative by design, and has been structured in such a way that the regeneration of Material Requirements is extremely fast.
- Designed with a bucketless, user-defined Planning Horizon.
- Regenerations can be processed by a single stock location or by grouped stock locations.

- Pegs MRP orders to the next level and to the end-item level, which allows for the traceability of Material Requirements.
- The system supports unlimited intervals.

- Allows for the creation and maintenance of an Operation Schedule.
- Allows for Multi-Level MPS Planning.

Benefits:

- MRP is able to calculate the Material Requirements needed to produce the Master Scheduled Items.
- Closes the loop in your Manufacturing process.
- Improves the Production Plan since the Master Production Schedule is one of the main ingredients of Material Requirements Planning. By interfacing with the Production Management System, consumption of new orders prevents the Production Plan from being overstated.
- Changes from all departments are considered in each planning run. This ensures that all data is accurate and included every time data is processed.
- Pegging to true delivery dates can minimize Inventory levels.
- The system allows information to be processed by subgroups. This makes automated procedures faster and more specific.
- Time is saved in rescheduling by quickly identifying the priority of the various demands.
- Scheduling is simplified when Planning Horizons can be established, which specifically match those of your company.
- Determines the sequence in which Work Orders are to be processed.
- Simplifies control of complicated options and structures.

