OmegaCube ERP
MRP & Scheduling

Data Sheet

📅 MRP & Scheduling

OmegaCube ERP's Material Requirement Planning (MRP) & Scheduling capability enables manufacturers to automate workflows for an optimal production schedule by considering all available resources such as machines, materials and manpower.

It ensures optimum inventory levels, uninterrupted production, improved capacity utilization and on-time delivery to customers.

Material Requirement Planning

- BOM requirements evaluated at n-levels.
- Flexibility in defining Vendor lead time in BOM level or in items.
- User-defined planning horizon.
- Lead time calculation of due dates computed based on size of demand and process times.
- Automatic guidance on purchases to delay and/or expedite.
- Automatic pegging of supply when demand due dates change.
- User defined hard-pegging window allows user override of system computed pegging data.
- Incorporate outside process lead time into calculation.
- Integrates to EDI to compute and generate net requirements change.
- Consider revision numbers in MRP calculations.

Scheduling

- Define capacity based on individual machines or groups of machines.
- Define capacity based on employee hours.
- Link machine and employee expertise in capacity calculations.
- Backward and forward scheduling algorithm.
- Drive scheduling based on material availability.
- Define capacity based on shift, day, and month.
- Automatically adjust work order due dates, based on sales order due dates, when work orders are linked.
- Queue and move hours incorporated into scheduling calculations.

Material Purchasing

- Arrive at material requirements using MRP output and in conjunction with purchase module.
- Add or create existing purchase orders from MRP.
- Consolidate multiple purchases into a single PO per supplier and reduce tons of paperwork.
- Create and release blanket POs to suppliers from MRP.

MRP Triggers for Supply

- System generated actions to create requisitions, PO or RFQs to suppliers.
- Consider Lot size for supply triggers.
- Generate releases to blankets from MRP trigger.
- Trigger creation of sub-assembly work orders.
- Trigger creation of picking and shipping transaction.
- Automatic exception generation for excess supply in make-to-order environments.

Shop Floor Communication & MES

- Dispatch list by department automatically adjusts based on scheduling output
- Manage work execution by communicating work orders that can be started, or are about to move to the department.
- Operator can pull drawings, routing instructions, etc. directly from the dispatch list.
- Time reporting allows dispatch list to communicate progress on a work order.
- Automatically compute balance hours, generate notifications if work order is running late.
- Analyze current and future load on work centers and departments.
- Automatically update dispatch list after scheduling run.
- Predict and alert shop floor operators about late running work orders.
- Link machine and employee expertise in capacity calculations.
- Utilize backward and forward scheduling algorithm for efficient scheduling.
- Drive scheduling based on material availability.
- Utilize data from time reporting to compute progress and determine on-time completions.

Scheduler Functions

- Adjust capacity by shift, day or month.
- Analyze load in capacity centers by day, month, percentage or hours.
- Review Gantt chart to see how the work orders will progress in time.
- Analyze short-term and long-term capacity. Monitor what work orders are running late.

MRP Alerts and Exceptions

- Automatically generated alerts and exceptions allow users to take actions to create, delay, expedite, or cancel supply based on fluctuating demand.
- Predicts delay in schedule due to delays in purchasing.
- Generates exceptions for delays due to outside services purchase.

Flexible Capacity

- Define capacity based on employee hours, individual machines or groups of machines, shift, day and month.
- Use company calendar to specify working days, holidays and use for scheduling and MRP.
- Specify shifts and capacity for each capacity family and/or machines.
- Adjust capacity for each day, month, and shift.
- Link tool and machine downtime into capacity calculations.

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Since 1999, OmegaCube has consistently believed in building and delivering powerful products with a single philosophy,

No two companies operate exactly the same, and they need flexibility in their systems in order to sustain their competitive edge, always.

Begin your first step towards business growth through automation!
Get in Touch with us today.

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