



MATERIAL REQUIREMENTS PLANNING

WORLDWIDE BUSINESS SOLUTIONS

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System21 Manufacturing supports every level of the production process, from strategic planning to detailed control. It provides accurate and flexible reporting, production and product definition, timely planning and scheduling, with precise execution and control.

By supporting best manufacturing practices such as JIT, TQM and continuous improvement programs, System21 allows businesses to reduce inventories and working capital, and improve productivity and efficiency, resulting in real bottom line benefits.

System21 Material Requirements Planning generates a detailed material plan by resolving every element of supply and demand. Material Requirements Planning (MRP) provides a time-phased statement of production and purchasing requirements.

KEY FEATURES/BENEFITS

- integrated with other System21 applications
- MRP supports multiple companies, and through the multi-plant planning function, multiple business units, sites, plants and cells within a company
- multiple production models, each reflecting a combination of production entities, can be set up to model either physical or virtual production units. MRP can be run over any production model, giving complete flexibility for production planning and feasibility planning
- MRP can be used in discrete, repetitive and process flow environments
- regenerative, net change or selective runs may be selected
- MRP generates daily repetitive item schedules, purchase requisitions, vendor schedules or production orders as appropriate
- MRP recognises both primary and concurrent co-product planning methodologies. Pegging inquiries display secondary co-products and other outputs such as by-products and waste
- MRP can be either rate or batch based



SYSTEM21 MANUFACTURING SUPPORTS EVERY LEVEL OF THE PRODUCTION PROCESS, FROM STRATEGIC PLANNING TO DETAILED CONTROL.

- flexible demand policies defined at item/production facility level enable demand to be any combination of sales orders, production orders, intra-company orders, customer schedules, internal and external forecasts and Master Production Scheduling supplies
- annual or periodic sales and stock forecasts (by quantity or value) can be spread over time and profiled for seasonal demand management
- planning filters can be used to rationalise MRP scheduling
- MRP takes account of safety stock levels, operational and material shrinkage, material effectivity dates and run out policies, potency, shelf life and rework orders
- fully cascading rescheduling logic shows the impact of high level recommendations
- material requirements are offset to operation stages to ensure JIT delivery
- schedule time fences can be frozen by plan or item to ensure production stability
- purchase requisitions can be scheduled by expected or promised date whilst vendor schedules are produced for nominated vendors
- Master Production Scheduling items are visible in MRP inquiries and reports for demand pegging consistency
- summary and detailed supply and demand schedules show the projected available stock through the planning period
- the material plan can be maintained from an inquiry screen and production supplies can be updated interactively
- phantoms are fully traceable
- MRP can be valued at standard cost or using one of the user-defined cost sets to establish production and purchasing commitment. There is also a cost uplift simulation facility
- standard inquiries and reports are available by item, planner, product group, preferred supplier, value/usage category or product family.



GEAC ENTERPRISE SOLUTIONS™

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