

QMRP Base System

The QMRP™ Base System consists of the menu and security systems, inventory control, product structure processing, product costing, and manufacturing order processing. Additional functionality is provided by other fully-integrated modules:

Accounts Payable
Capacity Planning/Priority Dispatch
Cost Estimations/Quotations
Customer Order Processing
Electronic Data Interchange
Executive Information System
Faxing Capability
Fixed Assets
General Ledger

Labor Distribution
Manufacturing Cost Reporting
Master Scheduling
Material Management
Material Requirements Planning
Material Review Board Tracking
Purchasing/Receiving
Routings
Statistical Process Control

Highlights:

- Standard system options can be tailored to suit many different manufacturing environments.
- Menu system is user-customizable.
- QMRP security system restricts access to programs by user ID and terminal and assigns program and menu passwords.
- On-line documentation, accessible from any QMRP menu, can be maintained by the user to include company procedures.
- All standard reports include flexible sequencing and selection options.
- Historical inventory, manufacturing, financial, and sales data is accumulated and is retained for a user-determined length of time.
- Historical data can also be accessed by QANTEL® horizontal software packages such as QICLOOK™ to meet user's custom reporting requirements.
- Optional "shadow" records for each master file (e.g. item, customer, vendor, sales representative) can be maintained to include additional user-defined data.
- Flexible look-up routines are available for all master files and major transaction files.
- Record-level locking is applied during file updates.
- Processing is on-line and in real-time wherever appropriate.
- Data transfer to and from PC-based spreadsheets is easily implemented.



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Inventory Processing

QMRP™ Inventory Processing is designed to maintain on-line stocking levels for manufacturers with multiple distribution centers operating from one manufacturing facility. The system tracks on-hand, on order, committed stock, in-transit, and available quantities for each inventory item carried in each branch or warehouse location.

QMRP is a true multi-location inventory system. Stock is kept by branch, location, or both. Each branch may have any number of warehouse/bin locations per item. A further control level can be added for batch, lot, or individual item serial numbers.

Inventory Processing is fully-integrated with all QMRP modules for immediate update of stock levels. Purchasing, receiving, material requirements planning, parts picking, adjustments, customer orders, and shipping all interact with the inventory system to keep stock levels current. Programs within Inventory Processing allow evaluation and modification of stocking levels and pricing practices based on stock movements through the branches.

Highlights:

- \$ Each item can be independently controlled by any combination of branch, lot or serial number, and warehouse/bin location.
- \$ User-defined stock type controls costing and planning for manufactured, purchased, and assembled stock items.
- \$ History of all inventory transactions maintained for on-line inquiries and reports.
- \$ Six separate sales prices plus price matrix category provide unlimited item pricing options.
- \$ Average costs, current actual costs, standard costs, order quantities, inventory levels, floorstock quantities, committed quantities, and in-transit quantities are available on-line.
- \$ Costing for items can be controlled by lot.
- \$ Lot traceability is available down from the sales order or up from the component.
- \$ Each item has extensive user-defined classification and cross-reference codes, such as product class, ABC class, ECL code, buyer, planner, and item type.
- \$ Audit trail is maintained for inventory adjustments and interbranch transfers.
- \$ Optional interface to general ledger provides detail or summary postings of inventory transactions.
- \$ Item comments can be maintained and coded for automatic transfer to purchase orders, purchase requisitions, manufacturing orders, or sales orders.
- \$ Scrap percentage can be defined for planning purposes.
- \$ A separate catalog number can be maintained for each item.
- \$ Multiple MRP parameters can be specified, including lot size, safety stock, and maximum periods of supply.
- \$ Ability to enter a forecast spread factor to smooth forecast.
- \$ Accommodates multiple item lead times: manufacturing, order preparation, vendor delivery, stocking, and accumulated lead times.
- User-defined item status allows items to be classified (e.g., obsolete, slow-moving, seasonal) and ordering an item to be restricted in sales, manufacturing, or purchasing.



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Product Structure Processing and Product Costing

QMRP™ Product Structure Processing defines all of the elements required for finished good and subassembly bill of material structures, supporting up to 99 levels of bills and 15 levels of phantom bills. Components of a structure can be coded with both starting and ending effectivity dates and can be accessed by inventory item number or by a user-defined reference number. Hundreds of comments can be stored for the parent item and for each component of a product structure.

Product Costing calculates, on a global or individual item basis, the standard cost for each item with a product structure using data from the routing, work center, and inventory files. Labor, overhead, and raw material costs are calculated for each individual item; these incremental costs are then rolled into an accumulated cost for each parent item in the product structure. An audit trail of each cost change is printed when costs are updated. Optionally, the user may choose to do material-only cost rollups if the Routings and Work Centers module is not active.

Highlights:

- "What-if" simulation program checks the availability of required materials at all levels of the product structure.
- Mass change/delete capability provides efficient method of component substitution.
- Bill duplication function allows an entire structure to be copied to a new item or to a new ECL.
- Audit trail provides tracking of all changes to the product structure.
- Component effectivity dates are supported.
- Supports backflushing during manufacturing.
- Lead time offsets can be applied to components to reflect dates actually required within Planning and Manufacturing.
- Automatic low-level code updating.
- Product structure comments can be printed on shop paper.
- Multiple ECLs are stored simultaneously.
- Self-checking routines are included to prevent entry errors and "bill loops".
- Indented cost reports show bill of material levels at which material, labor, overhead, and service costs are incurred.
- Single-level, multi-level, and summarized bill explosion inquiries and reports are available.
- Where-used inquiries and listings are provided.
- Accumulated lead time is calculated automatically.



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Manufacturing Order Processing

QMRP™ Manufacturing Order Processing controls the creation, maintenance, deletion, release, printing, picking, receipt, and completion of work orders. This includes planned orders generated by the material requirements planning and master production scheduling functions, as well as pending manufacturing orders created at the user's option when sales orders are entered. The order release process optionally generates requisitions for purchased items and purchased services.

Highlights:

- \$ Fully cross-referenced pending manufacturing orders can be created on-line when sales orders are entered.
- \$ Shop paper consists of 3 sections: a header that identifies start and finish date, order number, order quantity, and other pertinent data; an operational routing showing the operations required and the expected timing; and a pick list of all components required to complete the job.
- \$ Manufacturing orders can optionally be released, printed, and picked in one step.
- \$ When the general ledger interface is activated, material issue and receipt transactions are updated to the general ledger in either detail or summary form.
- \$ Comments can be added to manufacturing orders.
- \$ Management priority of manufacturing orders is user-assigned.
- \$ Manufacturing order maintenance and parts picking updates can be run either on-line or in batch mode.
- \$ Work orders with material shortages print on an exception report and are held or released at user's discretion.
- \$ Shortages generated during order picking are stored and displayed on-line.
- \$ Automatic shortage fill option fills the oldest orders first as stock becomes available, providing a filled shortage listing.
- \$ Accommodates the requirements of process-type industries in which an item's stock number depends on the quality of the finished item.
- \$ Components can be substituted on-line.
- \$ Inventory, work-in-process, costing, and schedules are updated immediately.
- \$ Material backflushing is available during work order completion reporting for items on released orders and for items where no order has been released.



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