

Jobscope, the most comprehensive job costing and integrated manufacturing information system for your order-driven company, balances critical requirements, function, and technology while offering the comfort and confidence necessary to overcome your unique manufacturing challenges.



Material Control

Purchasing

JOBSCOPE's Purchasing sub-system is fully integrated with other JOBSCOPE material and financial programs with which it must constantly communicate. JOBSCOPE's purchasing function is designed for order-driven manufacturers that require the flexibility to purchase items for stock inventory and directly to a contract. Emphasis is placed on easy identification of critical items, whether they are new requirements created by the entry of customer or internal orders, or on-order parts needing expediting to meet production and delivery schedules. This module is designed to ensure the timely procurement of parts required for production orders while delaying action on items with no pressing requirement. A true just-in-time materials management system, JOBSCOPE Purchasing will help maximize material availability, while at the same time reducing the amount of capital required to maintain raw material and stock inventories at their optimal level. Recently, JOBSCOPE's Purchasing module was altered to include enhancements that include a complete tool for purchasing users in a visual environment.

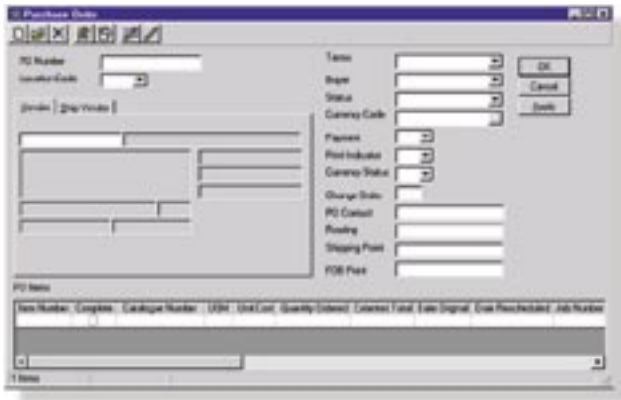


- Interactive, on-line purchase order entry
- Single and/or multiple purchase order line items, each with separate charging information
- Projected cash flow reporting
- Tape storage/retrieval system for closed purchase orders
- Automatic general ledger journal entry
- Vendor worksheet

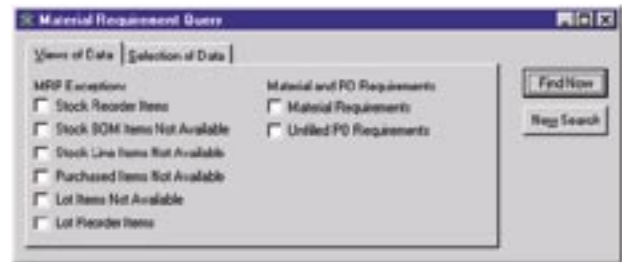
Purchasing

Purchase order creation requires only limited data entry due to the extensive use of information maintained in the Vendor and Bill-of-Material master files. Purchase order numbers may be assigned by the system. Only the fields requesting vendor number and the identifying code of the "Ship to" location are required for the creation of the purchase order header if the Vendor Master record is complete. You have the ability to associate documents with purchase orders and purchase order items.

The PO Browse feature allows you to view a list of purchase orders. You can browse for purchase orders by selecting "All" or narrowing your criteria with *PO Number, Vendor Number, Buyer, Location Code, Status, Date Issued Range, Payment Terms, Ship Vendors, and Contact Person.*



The Purchase Order screen allows you to maintain purchase orders in the system.

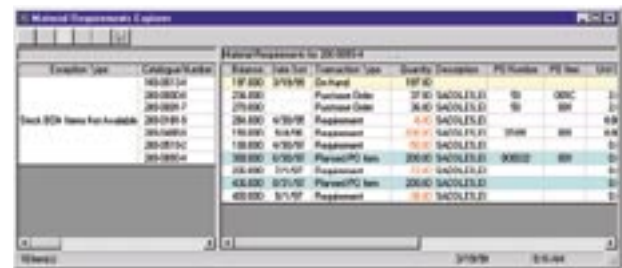


The Material Requirements Query allows you to filter your views and selections of materials.

Features

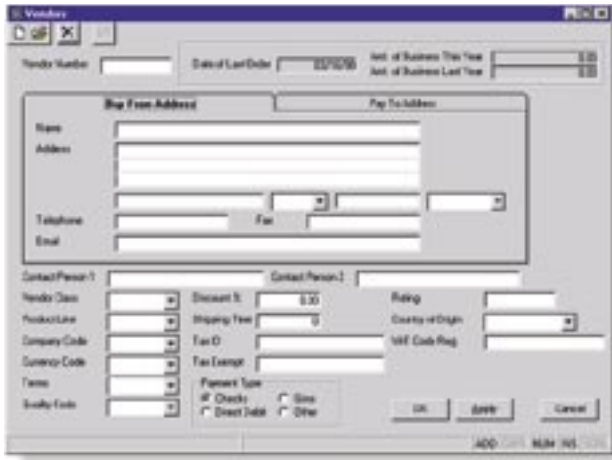
- Separate "buy from" and "remit to" names and addresses
- Automatic updating of vendor history data
- Tracks vendor price quotations
- Purchasing for job, account, stock, and lot inventory on a single purchase order
- Create planned purchase orders (manually and automatically)
- Create purchase orders
- View and manage planned purchase orders
- Create purchase orders from planned purchase orders
- Mass create planned purchase orders
- Prints purchase orders on request; reprinting available
- PO Browse
- Free-format contract specifications text printed on the purchase order
- Prints change orders
- Computes all extensions at time of PO entry
- Removal of permanent shortages/overages from expediting lists without altering record for discrepancy
- Interfaces with MRP

The Material Requirements Explorer provides a list of catalogue numbers that meet the view and filters selected by the Material Requirements Query. The user can select a catalogue number from the list, and the Material Requirements Explorer will then display the material planning information for that catalogue number. Users have the ability to access the *Vendor Worksheet* and the *Quote Worksheet* for this screen.

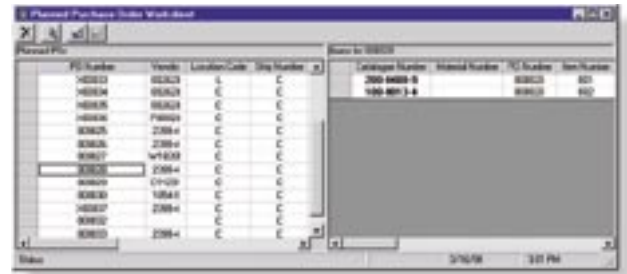


The Material Requirements Explorer displays the view selected in the Material Requirements Query.

The Vendor Master file is extremely comprehensive in nature and is a major source of input data for the purchase order creation process. For items to be procured from "one-time" vendors with no vendor master record, JOBSCOPE supports the entry of "skeleton" vendor information directly



The Vendor Master maintains vendor data and transfers it to the purchase order.

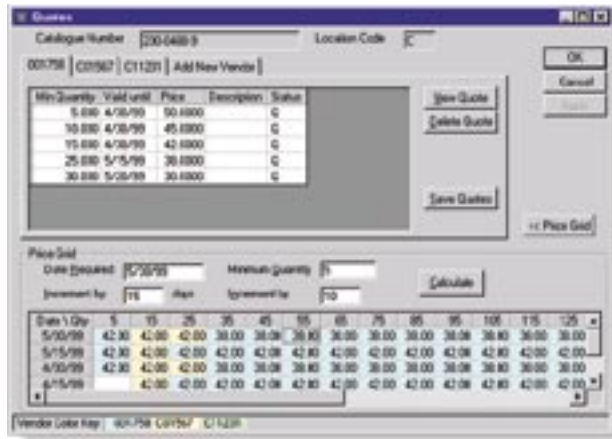


The Planned Purchase Order Worksheet allows you to view, update, and delete planned purchase orders.

from the purchase order creation module. All vendor master records display the amount of total purchases from each vendor for the last complete fiscal year and for the present fiscal year. Each vendor's performance history is also available on the Vendor Analysis Report.

Vendor Quotes

The Vendor Quotes screen allows the user to add, update, and review quotes for a selected catalogue number and vendor. A pricing grid will assist the user in choosing the best price that meets the dates and quantity required.



The Vendor Quotes screen provides a pricing grid to assist in choosing the best price for the required date.

Planned Purchase Orders

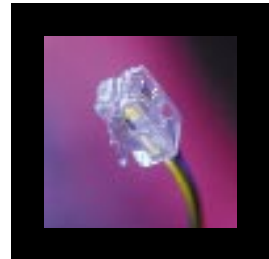
Planned Purchase Orders have the ability to determine the impact of a new purchase order on a material requirement scenario without actually creating the purchase order. This option gives you the ability to select one requirement at a time and manually create a planned purchase order for that requirement, or you can allow the system to "mass create" the planned purchase orders based on all of the unsatisfied requirements in the current view. The Planned Purchase Order Worksheet will allow users to view, update and delete planned purchase orders. It allows planned purchase orders to be combined into groups and assigns a purchase order number when creating the purchase order.

Purchasing is fully integrated with JOBSCOPE's Material Requirements Planning system. In fact, for those items requiring procurement that are required on contract work

orders, only the contract number, work order number, and bill of material item number need to be entered to affect the purchase of the item; the quantity, requirement date, and correct general ledger account number are automatically retrieved and transferred directly to the purchase order. Special, long lead times required for certain contracts may be ordered at the outset of the contract without fear of double-ordering the item once the requirement is fully detailed. JOBSCOPE incorporates a special function called Advance Purchase Requirements that manages this entire process.

Reports

- Expediting List — prints a listing of outstanding purchase order line items projected to arrive after their current requirement date. The report provides a description of the item, the quantity outstanding, and the contract or account to which each item is charged.
- Vendors Report — provides selective display and printing of vendors.
- Unfilled Purchase Requirements — lists all non-stock inventory items that are required on selected or all contracts.
- Purchase Order List — displays or prints useful information concerning selected or all purchase orders.
- Purchase Order Items — provides detail information about selected or all purchase order line items.
- Vendor Quotes — allows items to be selected or displayed for which purchasing has entered valid price quotations.
- Vendor Business YTD — provides the dollar amount of year-to-date business for all or selected vendors.
- Variance from Requirement — computes and lists contract items being purchased in quantities that differ from that designated on the contract's bill of material.
- Purchasing Worksheet — provides important ordering information for all items that require replenishment within a specified time period. Preferred vendors, vendor quotations, economic order quantities, and up to ninety-nine previous purchase records per item may be displayed or printed for use by purchasing.
- Vendor Worksheet — displays vendor information for a selected catalogue number.



Receiving

JOBSCOPE provides three separate receiving functions which may be used separately or in conjunction with each other. JOBSCOPE's standard receiving screen provides for the receipt of a single purchase order line item per screen. The

The Receiving screen is used to record delivery of items on a purchase order.

system tracks which shipment is presently being received and alerts the user as to whether each item being received was purchased for stock, lot, contract, or an account. If the item was purchased for a contract, the contract, work order, and bill of material number relating to the item being received is displayed. If the contract is not yet ready to have the material issued to it, the user may enter a character in the "Hold in Inventory" field indicating that a special contract-specific inventory record is to be created for this item; the dollar value of the item or items is not to be charged to work-in-process at this time. The receiving screen alerts the user when incoming items require inspection, as previously noted on the purchase order associated with that item. The material cannot be issued to an open contract until

the inspection requirement is satisfied.

Receiving Kitting

Receiving Kitting is a highly functional enhancement that has the potential to affect significant productivity gains for those personnel involved in receiving and stocking materials. Receiving Kitting allows the display and receipt of multiple purchase order line items on a single screen, with only two keystrokes, if so desired. This set of programs allows the system manager, by simple table entries, to enable the Receiving Kitting screen to display the expected quantities of each item and provide for the receipt of all items on a purchase order by simply inputting a "Y" in the "Receive All?" field. The ability to restrict these functions also exists. If enabled, Quantity Received is displayed in an amount equal to Quantity Expected and the user may edit the Quantity Received or Quantity Complete entries for exceptions.

The Receiving Kitting screen displays one purchase order line item per line, but detailed information about each on-order item may be displayed in its own window. After each receiving transaction, receiving tags may be printed for items received. Each tag contains explicit instructions as to the destination of the item. The bin location where the item is to be placed also prints on the ticket. Receiving Kitting is a hallmark of efficiency, productivity, and ease-of-use when it comes to getting goods from dock to stock or dock to plant floor.

Lot Receiving

Lot Receiving is the facility provided within JOBSCOPE for accepting delivery of raw material items that require full traceability even after they have been consumed in a finished product. Lot Receiving provides for the creation of special records, or Lots, relating to the receipt of these materials. Each lot is assigned a unique "Lot Number", piece count, purchase order, account number, etc. that provide a detailed history of the item that travels with it at each transaction.

Reports

- Receiving Report — lists receiving transactions by debit account and job number.
- Receiving Held for Inspection — displays all items that have been received but are unavailable for issue because they are currently awaiting inspection.
- Rejected Receiving — lists items having been rejected at inspection time and displays the reason for the rejection.
- Expected Receiving — lists all shipments expected to arrive at the receiving dock.

Inventory

JOBSCOPE's Inventory Control programs form the hub of JOBSCOPE's comprehensive materials management system for contract manufacturers, service contractors and materials processors. The system is designed to maintain optimum inventory balances to avoid stock-outs, while at the same time promote the implementation of just-in-time philosophies and techniques to reduce excess inventories and minimize the amount of capital dedicated to raw material, stock, work-in-process, and finished goods inventories. In summary, the objective of JOBSCOPE's Inventory control function is to maximize the availability of bill-of-material items for orders ready to be released to the plant while at the same time minimize the amount of capital invested in raw material and stock inventory.

JOBSCOPE provides for four different classifications of material inventories — Stock, Lot (raw material), Job, and Work-in-Process.

Features

- On-line master file maintenance
- Multiple stocking locations/Multiple bins
- Inventory receipts and issues tracking
- Shipment tracking
- Standard and average/actual cost
- On-line monitoring of inventory levels
- Issues Kitting
- Interface with Purchasing and Plant MRP
- Optional LIFO valuations
- Physical inventory processing
- Physical count worksheets
- Major/minor product codes to group and subgroup inventory
- Automatic general ledger journal entry
- A-B-C inventory analysis
- Cycle counting
- Monthly inventory usage

Stock and Material Inventory

JOBSCOPE's Stock Inventory Master allows you to maintain stock items. Stock Inventory Item master records are created for all items for which on-hand balances are desired. Stock Inventory typically includes those purchased items and manufactured subassemblies that are utilized across multiple orders and contracts and for which repetitive demands exist. Stock Inventory is also used to manage the procurement, availability, and issue of supplies, expendables, and maintenance items.

The screenshot shows the 'Stock Inventory Master' window. It contains numerous input fields for item details, including Stock Number, Location Code, Category, Description, Account Number, Unit of Measure (UOM), Unit Cost, Bin Location, and various cost calculation options like 'IF Std Cost' and 'Avg Act Cost'. There are also fields for Vendor 1, Vendor 2, and Lead Time. The bottom of the window has 'OK', 'Save', and 'Cancel' buttons.

The Stock Inventory Master maintains on-hand balances, bin locations, and costing information for stock room items.

The Material Master allows you to define material numbers. A material number is used to link together lots that are similar in the type of material or some other criteria. A material number can have an unlimited number of lots associated with it. Much of the data entered on the Material Master can be automatically transferred to the Lot Inventory screen for a lot that you associated with the material number.

Each inventory item may be costed in one of two ways. An item may be costed at a standard cost which is manually maintained and is displayed in the Unit Cost field in the Stock Inventory master record. As an alternative, any Stock Inventory item may be designated as having its cost calculated using an average/actual method. Under this scheme, the average cost of a single stocking unit of inventory is recomputed each time a quantity of the item is received into inventory. The cost of the units being received is added to the total current inventory value of the appropriate item. The resulting aggregate inventory value for that item is then divided by the new total item quantity to arrive at an updated unit cost. This figure is automatically calculated and displays in the Unit Cost field.

JOBSCOPE also provides a complete inventory classification system. Each item may be assigned to a material Category, a 10-character, alpha-numeric designation validated by a system-maintained, user-created table. Further material classification subdivisions are provided by Class and Subclass designations. These fields may be used as search fields to identify needed parts and assemblies when the exact item numbers are not known.

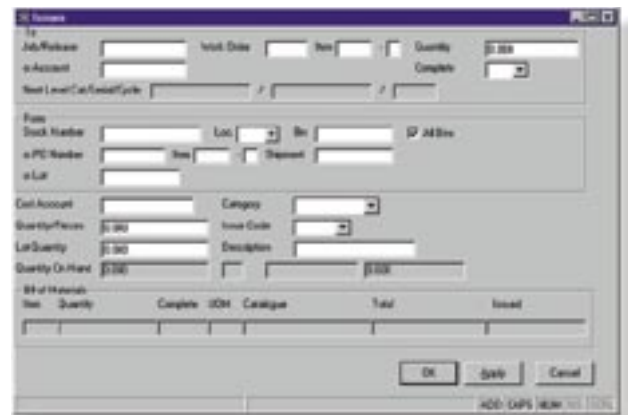
Any Stock Inventory item may be purchased in one unit of measure and stocked in an alternate unit of measure. Fixed unit-of-measure conversion equations (such as "16 ounces = 1 pound") may be entered and maintained in a table and assigned a two-character identifying designation. Dynamic



unit-of-measure conversion calculations (1 pound = "X" inches of material) may be entered directly on the Stock Inventory record screen.

The Stock Source field in the Stock Inventory Master record indicates whether an item is usually purchased for Stock Inventory or manufactured for Stock Inventory. A "blank" entry in this field indicates that the item is usually purchased; if the item is usually manufactured, the user will input an "M" in the Stock Source field. These "M" items are known as "Make-for-Stock" assemblies and are produced on special production orders known as "Make-for-Stock" jobs. "Make-for-Stock" jobs accumulate all costs associated with the manufacture of the assembly being produced. If average/actual costing is selected for a "make-for-stock" item, its unit cost is updated upon the receipt of the manufactured units into inventory.

The inventory system allows issuance of these items to other jobs, contracts and orders, or they may be sold, shipped and invoiced directly from stock.

The screenshot shows the 'Issues' window. It has fields for Job/Release, Issue Date, Item, and Quantity. Below these are fields for Account, Stock Number, Bin, and IP Address. There are also fields for Cost Account, Category, Issue Code, and Description. At the bottom, there is a table with columns for 'Bin of Material', 'Qty', 'Complete', 'IDN', 'Catalogue', 'Total', and 'Issued'. The window has 'OK', 'Save', and 'Cancel' buttons.

The Issues screen allows you to issue material to a job or an expense account.

JOBSCOPE is a true multi-location inventory control system. Each inventory item is associated with a location designated by an entry in the Location Code field. Within each location, items may be assigned to specific Bin Location(s). A single part number may be designated as being stocked in an unlimited number of locations and bins. To facilitate entry of the same item being stored in multiple locations, the Stock Inventory screen is not refreshed after the entry of a new stock inventory record. Instead, the user need only change the Location Code to enter the same item number as a valid stock item in an additional location. Each location can maintain its own unique stocking and reorder parameters for each item. Safety stock levels and Recommended Order Quantities are maintained by location and item number, not simply by item number alone.

If the proper security authority is granted, Stock Inventory items may be issued by the user from other stocking locations, and items may be transferred on-line from one location or bin to another. A Material Analysis screen makes the identification and location of available inventory a simple task. The user has visibility into the appropriate item balances

and existing obligations for multiple locations so that well-informed decisions may be made regarding the assignment of available material to orders or other company facilities.

Two preferred vendors and the last vendor from which an item was purchased display on the Stock Inventory screen. However, many items may

be available from more than two vendors, some of whom may have their own unique part number designations and part descriptions.

In this case, the user may elect to access the Multiple Manufacturers screen to enter these additional vendors and the part numbers and

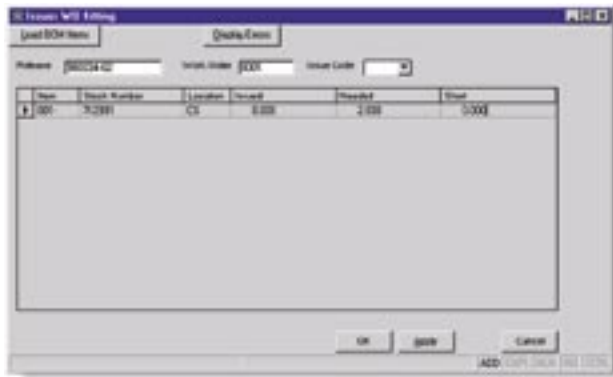


The Lot Inventory system can also be used for alternative purposes. Through material master numbers, lot inventory can be used to track serial numbers associated with a particular item. The material master number is used to represent the part number, with each individual lot representing a serial number associated with the part.

Another use for lot inventory is to record shipments received offsite. These materials may be grouped under an easily distinguishable material number, such as 9999999999. Each lot (offsite shipment) is still assigned its own lot number, but is linked to the common material number.

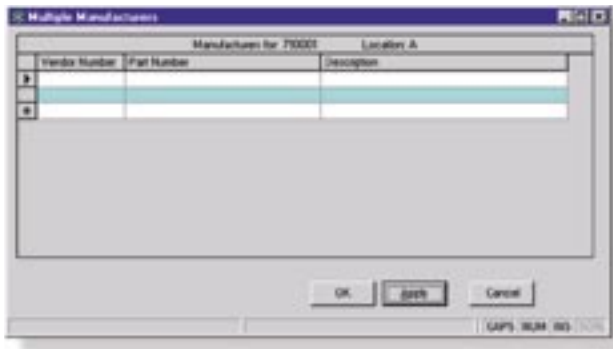
Master lots can be defined in Lot Inventory. Typical uses of the master lot are as follows:

- Separate shipments that were produced in the same run can be identified by having the same master lot number.
- Some portion of a lot is used (issued to a job), and the remainder is restocked. The remaining material can be entered as a new lot with the appropriate quantity, and the original lot entered as the master lot.



Work Order Kitting allows all stock inventory items on a work order to be issued in a single transaction.

descriptions used by those vendors. When a purchase order is issued for a Stock Inventory item, and the vendor is one listed on the associated Multiple Manufacturers screen, the purchase order will reflect the vendor's part number and description in addition to your own. This facilitates the correct filling of your orders by your vendors.

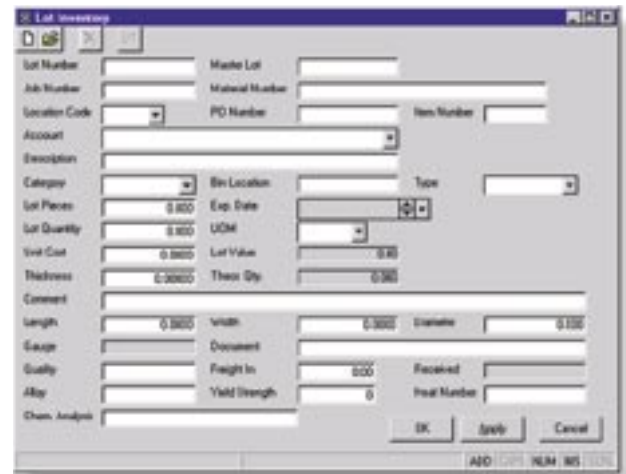


The Multiple Manufacturers screen allows you to define an unlimited number of vendors associated with a stock item.

Stock Inventory items are issued to contracts or job orders via the Issues program. The Issues program provides for the display of all Stock Inventory items required on a job, or it may optionally display all Stock Inventory items required on a specific Work Order on a particular job. These items may be individually issued to the job or work order on the same screen on which they are displayed. In addition, all items required on a Work Order may be issued with a single keystroke via a function called Work Order Kitting. A real time-saver, Work Order Kitting provides an easy, efficient means of issuing significant numbers of parts and assemblies to the floor in a single transaction.

Lot Inventory

Lot Inventory is used to maintain data about raw materials that are issued and received in bulk amounts. Each receipt of lot inventory is assigned a unique lot number, which identifies the shipment, vendor, quantity, and other information about the material. New lot inventory numbers may be entered through the Lot Inventory option or the Lot Receiving option accessed from the Purchasing menu.



The Lot Inventory screen allows you to record and maintain data about raw materials that are issued and received in bulk amounts.

Job Inventory

Order-driven businesses typically have requirements to procure certain materials for specific contracts rather than for stock inventory. These may be expensive items that would require the commitment of excessive amounts of capital to be maintained in inventory, or they may simply be unique parts that are used only sporadically or in very small quantities. These items may also be one-of-a-kind items required to satisfy a particular customer or manufacturing order requirement. Regardless, it is sometimes beneficial to buy material directly to a contract and receive and issue that material to a contract, completely bypassing Stock Inventory. JOBSCOPE's Job Inventory system contains the tools necessary to effectively manage the procurement, inspection, and costing of materials directly to contracts or jobs.

Items in the Parts master file for which Stock Inventory records do not exist are assumed to be items that are normally purchased only when an open order or job requires them. These items may be ordered directly to the contract by entering the contract number, work order number, and appropriate bill-of-material number on a purchase order. The Purchase Order Line Item entry screen will display "Purchased by Job" at the bottom, left-hand corner of the

screen when material is procured in this manner. Stock Inventory items that are being purchased to satisfy a specific contract requirement may be entered on purchase orders in the same fashion, resulting in the same “Purchased for Job” message at the bottom of the screen.



Job Inventory Browse allows you to view receivings held in job inventory that may be issued to another job requiring the same material.

Purchased for Job items may be received and sent to Incoming Inspection (if so designated on the purchase order), received and issued to the contract directly from the Receiving screen, or, if the Hold in Inventory field is flagged on the Receiving screen, held in a specially created Job Inventory. When this latter path is selected, no dollars flow to work-in-process at this time.

This is especially helpful when material ordered for a contract is received, but because of a change in schedules or job priorities the material is not immediately needed on the production floor. This allows material to be provided a physical location while still being earmarked for a specific contract. In addition, because the material has not yet actually been charged to the job, but instead is being held in job inventory, it may be issued to another job requiring the same material that has an earlier production date or higher priority. A resulting material shortage is noted for the job for which the material was originally ordered.

There are many job inventory reports available to facilitate the identification and issue of “Purchased-for-Job” materials. All items being held in job inventory may be viewed either on-line via the Job Inventory Browse or off-line on the Job Accounting Report.

When materials are procured for and issued to a specific contract as described in the above paragraphs, the JOBSCOPE system charges the actual cost of the materials to the contract. An actual cost system is mandatory for many types of manufacturers, such as government contractors, and is usually of great importance to any manufacturer wanting to know what it really costs to manufacture or process a product. JOBSCOPE’s Job Inventory subsystem provides an important piece of an effective, comprehensive, cost management system.

Other Inventory Control Features

Material Analysis/Browse

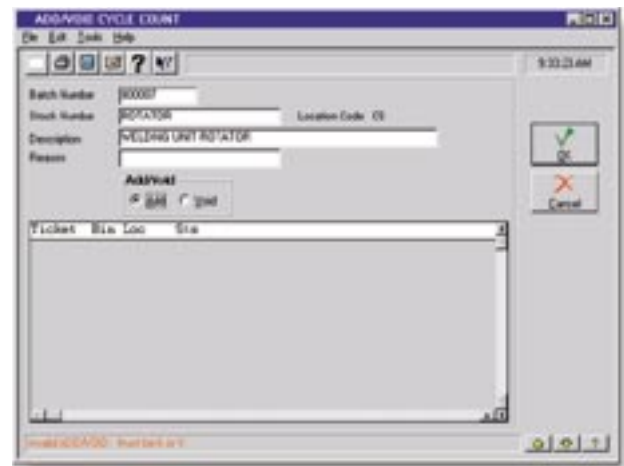
JOBSCOPE’s Material Browse feature allows the user to view information for selected Stock Inventory items, Material Master items, and BOM parts and assemblies. Items may be

selected by searching for a specific Category, Class, or Subclass, or the system will conduct a “wild card” search for valid characters identified as being part of the part number, description, etc. This allows the user to identify items without having to know the correct part number.

Cycle Counting

The JOBSCOPE Cycle Counting System provides a means of reconciling on-hand quantities as calculated by the system and actual quantities counted during a physical inventory. On a periodic basis, the frequency of which is determined by the user, the system generates cycle count batches and counting tickets for particular Stock Inventory items. The items to be counted may be selected based on certain predefined criteria, such as elapsed time since last counted, “ABC” code, minimum on-hand quantities, etc. Inventory records associated with items selected to be counted are locked until the actual physical count is entered. Hang Tags are generated for those items selected for counting so that any transactions taking place while the inventory records are locked may be manually recorded and later entered into JOBSCOPE after the physical count is completed. The Update Inventory Balances function then reconciles the on-hand balance with the physical count quantity and posts the variance to the inventory gain/loss account.

JOBSCOPE’s Cycle Count system is also responsible for the assignment of “ABC” codes to all Stock Inventory items. The system ranks each inventory item in descending order beginning with the item with the greatest annual usage in terms of dollars. The user determines what percentages of annual Stock Inventory usage (dollars) should be associated with A, B, and C items. The user may then determine that those items whose usage equals 70% of the total annual Stock Inventory usage be classified as “A” items, the next 20% in terms of dollar usage be classified as “B” items, and the remaining 10% by “C” items. The system may then be instructed to count high usage items at a greater frequency than lower usage ones.



The Add/Void screen allows you to add or delete an item on an existing batch.

Reports

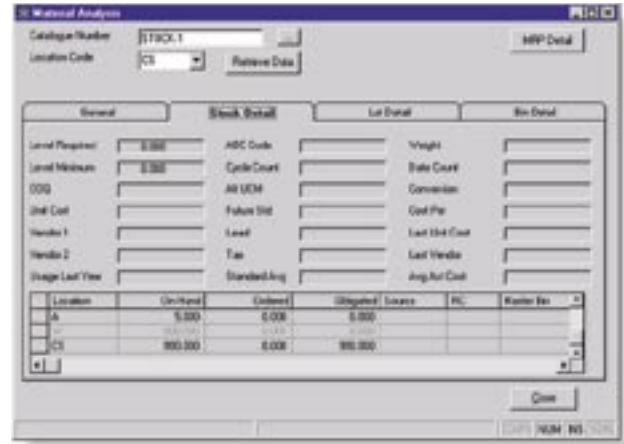
- Issues — displays or prints details for material issues to jobs and/or accounts.
- Inventory by Account — prints the total dollar amount of inventory associated with each inventory account.
- LIFO Stock Inventory Analysis — calculates and prints the inventory value based on LIFO.
- Job Inventory — prints information for materials currently being held in job inventory.
- Lot Inventory — prints or displays information about selected lots.
- Inventory by Lot Number — prints a listing of lots sorted by lot number.
- Stock Inventory — displays or prints data for selected stock numbers.
- YTD Stock Usage — displays or prints by stock number all issues this year.
- Stock Pick Tickets — prints pick tickets for items being shipped from stock or sent to fabrication.
- Advance Picking List — prints information for selected items that are to be pulled from inventory and issued to job during a specified date range.
- Cycle Count Selection — prints a form that can be used for inventory counting.
- Cycle Count Analysis — prints a report that compares the quantity on hand against the physical count for selected inventory items.
- Usage Variance — prints a detailed description of material usage compared to work order BOM requirements.
- Print Pallet Tags — prints identification tags that may be attached to pallets of received materials.
- Bin Locations — displays or prints information for bin locations of selected stock inventory items.
- Recalculate Average/Actual — recalculates and prints the average/actual cost for selected stock inventory items that use average/actual costing. An exception report presenting the old and new costs also prints.
- Monthly Material Usage — prints a report displaying the monthly usage for selected Stock Inventory items or purchased parts.

MRP

Material Requirements Planning is essential to the efficient operation of a contract-oriented manufacturing or repair/refurbishment firm. In fact, improvement in an organization's material management policies and procedures usually offers the greatest potential for plant throughput increases and cost reductions in this environment. Unlike material planning processes found in purely forecast-driven, build/repair-to-inventory environments, material requirements in an "order driven" environment are primarily impacted by customer orders and specifications. JOBSCOPE's "Contract-Oriented MRP" is MRP with an emphasis on the early capture and communication to the material control, purchasing, and production planning subsystems of all known material requirements for each order. If desired, all material requirements and transactions can be directly related to specific customer or internal orders. In today's economy, with



material costs constantly on the rise, this capability is more important than ever. No one wants to be stuck with obsolete...or too much...or too little inventory. JOBSCOPE's Material Requirements Planning subsystem provides a means of efficiently managing overall while at the same time providing for the reduction and elimination of material shortages and "stock out" situations.



The Material Analysis Stock Detail View provides detailed information on stock items.

Features

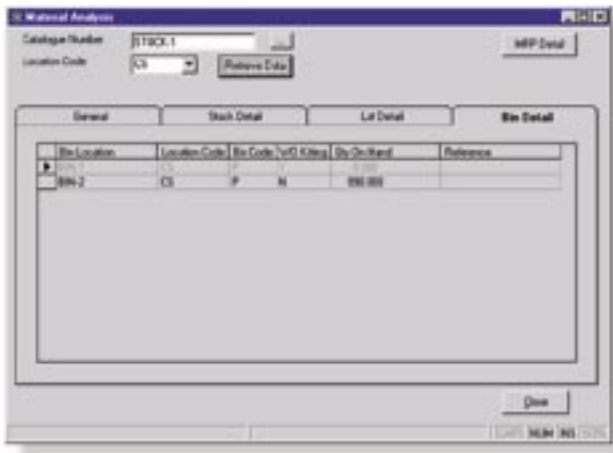
- On-line MRP updating and reporting
- Contract/job-specific material requisitions
- Traditional stock inventory and raw materials requisitions
- Inventory reservations by contract/job and requirement date
- Full integration among MRP, Inventory Control, Production Planning, and Purchasing subsystems
- Contract/job-specific bill-of-material status reporting

Update Material Requirements

The major function of JOBSCOPE's Material Requirements Planning subsystem is to maintain accurate, up-to-date material requirements which permit the initiation of appropriate procurement and production actions. JOBSCOPE's "Update Material Requirements" program calculates and clearly displays the current material status for all jobs and work orders. For stock inventory items, a chronological projection of quantity on hand is calculated by considering date-sensitive requirements and expected replenishments. The factors of lead time and required safety stock levels are considered as this program determines which items should be reordered and in what quantity. For purchase-for-job items, each quantity and date required is compared to the quantities currently on order and expected delivery dates to determine if a shortage of any items will occur that will affect the production schedule. For manufactured stock items, the outstanding requirements and safety stock levels are used to compute the replenishment quantities which must be produced and the dates they are required. The Update Material Requirements program also considers and displays with unique designations items being held in Inspection as well as in Job Inventory.

The MRP status for any material item may be updated on-line within JOBSCOPE. The inventory status for all material items may be updated by selecting the Update Material

Requirements option from the MRP menu. Update Material Requirements revises the totals for materials obligated to releases/work orders and the materials that are currently outstanding on purchase orders. This program updates the Quantity Obligated and the Quantity On Order fields on the Stock Inventory and Material Master screens.



The Material Analysis Bin Detail View provides information for a specified stock number and location code.

The Update Material Requirements program is normally run daily as a precursor to the printing of all material exception reports. The program considers on-hand balances, on-order quantities, and expected delivery dates and compares the resulting chronologically-projected on-hand balances with the quantities required for releases and work orders on specific dates. If more items are required than are on hand and on order, the program automatically sets the reorder code to “Y”. This provides for the display of this item on the appropriate MRP action or exception report.

Advance Purchase Requirements

JOBSCOPE’s Advance Purchase Requirements function allows users to effectively deal with extended material lead times, future price changes, and other situations which sometime necessitate the procurements of certain materials required for a job before the job’s bill-of-material is finalized. As a job progresses from Estimate to Order, a significant amount of time can elapse while Engineering fully defines the materials and routings required to manufacture or repair the item or items.

Within JOBSCOPE, the Advance Purchase Requirements (APR) allows the designation of all known “early buy” items and communicates them directly to the materials management subsystems. This allows items with significant purchasing or manufacturing lead time to be ordered or produced as early in the order process as possible. As purchase orders and manufacturing orders are written to satisfy these “APR” requests, the Advance Purchase Requirement is automatically updated with the purchase or production order number and delivery date information. In addition, for required stock items already on hand, reservations may be placed on them to ensure their availability when needed.

For each job or sub-job which requires advance purchases, the system designates a special work order, work order “0000”, on which to enter demands for advance requirements.

This advance purchase “vehicle” allows the purchasing department to order known critical

materials well in advance of work order creation and material requirements dates. When the advanced purchased items eventually appear on the bill of material section of work orders which are created, the system matched the advance purchase items on work order “0000” with the actual bill-of-material requirements of the production work orders. The system knows not to require an order be placed for any material that was specified on the advance purchase work order, thereby eliminating the opportunity for “double ordering” these materials.

Requisition Purchase Orders

Another feature of MRP is the display of Requisition Purchase Orders. Requisition Purchase Orders are created by entering an “R” in the status field on the Purchase Order master screen. Typically, Requisition Purchase Orders are used by Material Control departments to alert Purchasing of the necessity to replenish expense or bulk items and certain stock items. No purchase order will be printed for these items until an individual with the proper authority removes the “R” from the status field.

Reports

Update Material Requirements generates the following reports:

- Stock Reorder Items Report — displays all stock inventory items whose reorder code has been set to “Y”. This report may be used to alert Purchasing that purchase orders need to be entered for the purchased items. Production is notified that shop orders to be entered for make-for-stock items.
- Stock Items Not Available Report — prints information for each stock inventory item whose work order requirements and/or release line item requirements have their short flag set to “SS”. This indicates the outstanding requirements will cause the on-hand balance to fall below zero within the lead time period. Any item appearing on this report needs immediate attention because the item’s projected on-hand balance will not satisfy the present production plan.
- Purchased Items Not Available Report — lists each purchase-for-job item for which the outstanding work order BOM requirements have caused the item’s short flag to be set to “SS”. In essence, the requirements cause the projected on-hand balance of the item to fall below zero within the lead time horizon.
- Lot Reorder Items Report — lists each “lot controlled” item whose reorder code has been set to “Y”.
- Lot Items Not Available Report — lists each “lot controlled” item whose short flag has been set to “SS”. In other words, the on-hand balance of the material is projected to fall below zero within the lead time horizon.

These reports may be run from the MRP Menu:

- MRP Summary/Detail — the MRP Summary Report lists balances on requirements and expected purchase order receipts. The MRP Detail Report displays the balances for selected items and transactions that result in that balance.
 - BOM Listing By Release — lists all bill of material items for selected releases along with any outstanding requirements and purchases for each item.
 - Material Requirements — displays information for selected material requirements by release and work order.





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