



SATOSHI SYSTEMS

MINERVA

Manufacturing Fact Sheet



Inventory Management

Improve Customer Service with Real-Time Access to Available Inventory, Inventory-In-Transit, and Inventory Costs

Control system-wide inventory to manage your distribution process efficiently and without losing track of costs. Receive inventory to a specific location and drill down to change item default lot/serial numbers, valuation methods, accounts, and more.

Expiration Dates	Deduct expired items from your list of available inventory by assigning an expiration date for each lot and serial number. Minerva can automatically issue items with the earliest expiration date to minimize losses.
Transaction Reason Codes	Measure trends and spot problems by assigning reason codes to inventory transactions. Reason codes can be linked to both general ledger (GL) accounts and inventory levels for financial and operational reporting.
Two-Step Transfers	Inventory transfers are performed in two steps so you can track goods in transit between locations with GL entries into and out of "in transit" accounts.
Inventory Bin/Location Control	Specify the types of items and transactions allowed, picking priority, and cost by bin and location.
Purchase Order Automation	Automatically generate purchase orders based on stock level and replenishment algorithms. Orders go to the vendor with the best price and delivery time.
Sales Order Discounts and Promotions	Manage complex pricing and discount policies, including volume discounts and multiple discounts per item. Maintain policies for price overrides.
CRM Integration	Convert CRM opportunities to sales orders without re-entering pricing and discount information. Customer service can locate orders to verify shipping and delivery status.
Inventory Sub-Items	Simplify reporting and tracking by separating items into sub-categories such as size, colour, and style. Associate separate cost and quality information with each sub-item.
Freight Costs	Automatically or manually allocate freight costs on sales orders, shipments, and invoices.



Bill of Material/Routing

Create, Maintain, and Control Master Data Definitions of Products and Processes with One Screen

The Bill of Material (BOM)/Routing module, part of the Minerva Manufacturing Edition, creates production specifications and is the framework for the planning functionality in all Minerva Manufacturing Edition modules. Maintenance of the BOM/Routing information is performed through a single screen.

Effectivity/Expiration Dates	Control material planning and usage according to effectivity dates for phase-in and phase-out of content changes.
Production Steps	Document the entire process using detailed work instructions and standard note capability for each process step.
Where Used	Allows for components on Bills of Material to be displayed where they are used on a single-level or multi-level basis.
Phantoms	Use phantom items to simplify structure maintenance for related groups of parts and materials to multiple products. If you create a planning bill of material, your planning and production teams can "skip over" phantoms to plan and allocate components.
Reference Designators	Relate BOM component parts to the drawing's part numbers to avoid confusion and duplicate entry in the bill of material.
Multiple Sites	Enables the support of multiple sites and have different or alternate BOM/Routing for each different site.
BOM Cost Roll	Use flexible cost roll for a single-level or multi-level BOM, by item or site. Costs of the lower-level item will "roll" into the costs of the higher-level items. In a standard cost operation, costs will update the pending standard cost for each item in inventory.
Flexible Copy BOM	Copy an existing BOM/routing to a different item as an alternate BOM/routing or for easy setup for a new, similar item.
Mass Change	Allows for the replacement of a component with a different component on individual or all Bills of Material.
Attributes	Used to display optional or required values when reporting production. These are available on the bill of material header and/or operations and can be copied onto a Production Order when the order is created.
Revision Control	Maintain a complete revision history of BOM/routing. Save and view multiple revisions – past, present, and future – as well as the reason for the revision.



Production Management

Support Multiple Types of Manufacturing with Confidence Using Minerva Manufacturing Edition Production Management

The Production Management module, part of Minerva's Manufacturing Edition, allows for the ability to track material and labour costs, schedule production on the shop floor, and allows the user to compare the estimated/planned/standard production costs to the actual costs of the production order.

Critical Materials	View production order shortages. Create purchase orders and production orders for the parts that are short from a single screen.
Labour Tracking	Capture direct production labour to production orders by employee. Enter and track non-production time using indirect codes.
Backflushing	Eliminate reporting by backflushing labour or material when reporting the production quantity completed, useful when a company only wishes to record the production quantity.
Material Tracking	Issue stock and non-stock materials and parts to a production order. Capture lot and serial numbers on controlled items.
Production Performance	Monitor and manage performance with detailed reports, including actual vs. standard/planned costs by detailed element, including labour, material, machine, tools, fixed, and variable overheads.
Event Audit Trail	Trace all production activities (events) against a production order including description, date and time, and ID of the user.
Production Order Changes	Manufacture to prior or alternate bills of material revisions, substitute operations and materials as desired.
Multi-Site	Support multiple sites and have the flexibility to have different or alternate BOM/Routing for each different site.
Lot and Serial Tracking	Maintain full lot and serial traceability throughout the lifecycle of the item. Capture lot and serial numbers at purchase receipt, inventory issues, and shop activity transactions.
Barcode Integration	Use barcode data collection to record labour and material transactions as well as inventory transactions including issues, receipts, cycle counting, and physical inventory.



Material Requirements Planning (MRP)

Satisfy Customer Requirements While Maintaining Optimal Inventory Levels Using the Powerful Minerva Manufacturing Edition MRP Planning Tool

Generate time-phased manufacturing and purchasing plans for optimal inventory availability tied to forecast and customer demands. Reduce inventory while improving customer service and avoiding shortages.

Forecasting	Forecasts can be calculated or entered manually. These forecasts can be dependent and consumed by sales orders, or they can be independent. Input forecasts as one-time, weekly, monthly, or yearly.
MRP Detail	Review and execute the complete material plan through MRP screens that show all activity, orders, requirements, balances, and recommendations for an inventory item.
Bucketless System	Enhance your manufacturing resource planning by planning every requirement for every item. Minerva MRP does not ignore detail by grouping requirements together.
Multi-Site Planning	Controls whether MRP will plan requirements by site or by a combination of sites.

Warehouse Management System (WMS)

Streamline Fulfilment to Reduce Errors, Generate More Transactions, and Increase Productivity

Warehouse Management is part of Minerva Distribution Edition and integrates with the Minerva Commerce Edition to help you accurately and efficiently manage your advanced warehouse needs in wholesale, manufacturing, retail, and other industries.

Pick	<ul style="list-style-type: none"> • Generate pick lists and packing slips. • Use barcodes to speed up the picking process. • Barcodes on pick lists prevent picking items not included in the order.
Pack	<ul style="list-style-type: none"> • Provide adequate package size and packing material to ensure safe transport. • Support barcodes and lot/serial numbers for accurate order completion. • Easily correct errors in amount, weight, items, and more. • Integrate with digital scales and printers to automatically weigh and print labels and packing slips.
Ship	<ul style="list-style-type: none"> • Select shipping provider: UPS, USPS, FedEx. • Ensure prompt pickup through your preferred carrier. • Automate shipment label generation. • Set up automatic tracking on all shipments. • Notify customers of shipment progress through each stage of order fulfilment.



Advanced Planning and Scheduling

Manage and Monitor your Shop Floor Schedule and Work Centre Capacity

Minerva Manufacturing Edition's Advanced Planning and Scheduling allows manufacturers to consistently and cost effectively meet customer demands by setting accurate and reliable delivery dates based on actual availability of resources.

Optimize manufacturing productions by integrating key elements, including materials, production capacity, process sequence, and facility schedules, into a powerful, real-time planning and execution application.

Advanced Planning and Scheduling software provides users what-if planning capability, real-time available-to-promise, as well as the ability to accurately schedule employee and/or machine resources. It allows you to more accurately determine requirements for materials and capacity while providing efficient use of production assets.

Work Centre Capacity Planning	Enables the system to plan, monitor, and provide details regarding the work centre.
What-if Scenarios	Provides the user the ability to set custom parameters and use those to forecast other, usually unrelated, parameters.
Machine Scheduling	Allows the user to schedule certain machines only at times when both the machine and the employee running it are available.
Tool Scheduling	The ability to schedule tooling required in a production process.

Product Configurator

Enhance Quality and Accuracy as You Manufacture Complex Products

The Product Configurator, part of Minerva's Manufacturing Edition, is a powerful tool that enhances quality and accuracy in the manufacturing of complex products.

Configure to Order	Configure any item using predetermined features and options. The results of the configuration can carry forward to a production order.
Dimensional Capability	Use multiple dimensional calculations and formulas to calculate the material requirements for the specific components of configuration.
Order History and Look-Up	Easily look up a customer's previous configuration to create the order or make adjustments from the prior configuration.
Multi-Level Configuration	Support multi-level configurations of regular, non-phantom, items by creating multiple production orders for each regular configured item.
Formula Validation	Validate formula calculation based upon minimum and maximum attribute values or quantities for selected features and options.



Order Management

Centrally Manage Sales Activities, Streamline Procurement Processes, and Automate the Way You Fulfill Orders for Internal or External Clients

Companies that don't carry an inventory can use Minerva Order Management as an alternative to Minerva Distribution Management. This integrated suite gives you the tools to deliver better customer service, improve vendor relationships, and eliminate paperwork while providing all stakeholders with greater visibility into order management processes.

Automated Requisitioning	Automate the entire requisitioning process, including collecting orders, collecting supplier bids, sending and approving quotes, issuing purchase orders, and receiving goods. Authorize users to select from your catalogue, limit requests to specific goods, or enter descriptions.
Landed Cost Functionality	Include additional shipping and handling costs with purchased goods. Allocate costs using custom allocation methods. Directly enter landed cost bills in Accounts Payable and associate them with received goods.
Multilevel Approval	Create approval rules for order types, vendor information, order amount, and other order-specific information. Control release through a pre-set approval process.
Vendor Selection and Performance Analysis	Upload vendor price lists with product descriptions, prices, and delivery times. Update costs, quantities, and lead times each time you receive goods. Retain statistical information on vendor performance.
Invoice Consolidation	Consolidate multiple shipment orders onto a single invoice—automatically or manually. Update price and discount information on review before printing the invoice and updating accounts receivable.
Reporting and Drill-Down	Analyse and manage your purchasing experience through a complete set of inquiry screens and auditing reports with drill down to the original transactions.
Collect and Organize Requests	Bundle requests from multiple sources in a single requisition. Create approval rules based on quantity, request amount, and more.
Sales Order Integration	Turn an approved quote into a sales order with one click. Sales orders are managed by the rules within the sales order module and linked to the requisition for easy access.
Audit Trail	Automatically create a complete audit trail of all transactions, including IDs of users who entered and approved the transactions or modified the records. Optional notes and attached electronic documents remain with the activity records.
Integrated Workflow	Automate order processing and eliminate unnecessary steps. Configure order status, status changes, actions, notifications, and alerts to trigger automatically during order processing.



Estimating

Begin Every Manufacturing Process with a Fast, Accurate Estimate

Gain the flexibility to create detailed manufacturing estimates quickly. With the Estimating module, part of the Minerva Manufacturing Edition, you can improve the accuracy and turnaround times of all your manufacturing estimates. This solution takes into account every aspect of estimating, including material, overhead, labour, and other miscellaneous costs.

Estimate Non-Inventory Items	Estimate items not currently in your inventory. Attach notes, files, and item attributes to the estimate.
Create New Inventory Items	Easily convert non-inventory items to inventory stock or non-stock items. Create inventory items and generate a bill of material from an estimate.
Create Production Order	Create a production order directly from an estimate.
Sales Integration	Attach an estimate directly to, or against, a sales order or an opportunity in Minerva Customer Management. Create a sales order directly from the estimate.
Multiple Sites	Easily create estimates from all your company locations.



Intercompany Accounting

Automate Financial Reporting, Vendor Payments, Cash Management, and Intercompany Goods Transfers Across Multiple, Related Companies

Track financials and create reports for an unlimited number of related companies within your organization. Related companies with the same charts of accounts, financial periods, and currencies benefit from real-time consolidation reports. Intercompany transactions are automatically calculated between related companies for both financial and inventory related transactions. This allows you to seamlessly manage centralized bill payment, shared customers, intercompany journal transactions, intercompany goods transfers, and more.

Account-Based Controls	Reduce potential errors by allowing intercompany transactions only for specific accounts.
Centralized Purchasing and Invoicing	Centralize purchasing and invoicing through integrated AP, AR, and Sales Order Management. Purchase items and create sales orders in other companies with appropriate approvals.
Company Bank Accounts	Link bank accounts to specific companies for their exclusive use. Assign cash accounts to specific companies in the Cash Management module.
Asset Transfers	Assign and track fixed assets to specific companies in the Fixed Asset Management module. Transfer assets and bring depreciation and purchase history to the receiving company.
Account Allocations	Allocate accounting transactions among companies for shared activities. You can perform allocations automatically according to your pre-set definitions.
Role-Based Access	Create roles and groups of users that have access to specific companies and the associated transactions. Add users in seconds and maintain an audit trail of user activities.
Close Financial Periods by Company	Manage financial periods separately for each company. Activate and deactivate financial periods for posting for a particular company, and close books separately in each company within the tenant.
Company and Branch Selection	Navigate between companies and branches that represent separate legal entities, as well as companies with branches that exist within the same legal entity.
Different Financial Calendars	Companies having multiple legal entities within the same tenant can have different fiscal year-end dates. Accelerate implementation, simplify maintenance for companies that share vendors and employees, and facilitate the preparation of consolidated financial statements.