

OmegaCube ERP

Manufacturing

Data Sheet



Manufacturing

OmegaCube ERP's Manufacturing capabilities enable manufacturing enterprises to stay on top of their shop floor operations.

Production supervisors, machine operators and material handlers have real-time visibility across the entire production processes helping them perform their duties efficiently and take quick decisions.



Key Benefits

- Improve response to delays & quality issues early in the manufacturing process.
- Improve operator productivity through access to work instructions, drawings, non-conformance & dispatch data.
- Improve proactive response to breakdowns by monitoring job allocation, machine utilization & performance.
- Reduce repair & maintenance costs by continuously tracking tool assets, planning repair/maintenance schedule in advance.
- Improve product quality and compliance standards at each production phase.
- Track costs in real-time across all manufacturing stages.
- Go paperless with complete documentation & revision control along with auto-approvals and auto-updates.



Comprehensive Product Data

- Comprehensive product categories & classifications.
- Advanced Bill of Materials (BOM) management with multi-level BOM & routings.
- Definition for serial/lot control, non-inventory items, stocked inventory and purchased items.
- Master list of inventory locations such as, shipping, receiving, quality hold, warehouse, work center & vendor locations.
- Create Material Requirement Planning (MRP) profiles for speedy planning and procurement.
- Multiple Unit of Measurements (UOM) for enhanced flexibility.
- Maintain a master list of tools, tool sets, dies, and fixtures.
- Customer and vendor part number cross reference.
- Integrated document management to store part drawings & photographs.

Product & Job Costing

- User-configurable costing methods - Standard,
- Actual with or without WIP scrap.
Analyze purchase price & manufacturing variance
- per item.
Track detailed breakdown for material, fixed/variable
- overhead, labor, sub-contract, outside process
- costs.
- Factor in rent, utilities cost, employee & contract wages.

Job Tracking

- Job classifications based on Make-to-order, make-to-stock, engineer-to-order.
- Parent and child job-linking with tracking.
- Capture job completions from machine controller through an XML interface.
- Real-time job updates through machine notifications at each stage of parts cutting.
- Track jobs throughout the shop floor with bar-code capability.
- Edit default routings & Bill of Materials (BoM).
- Track material lists, cut-lists and its usage.
- Trigger jobs through JIT and Kanban.
- Track work-in-progress jobs.
- Report scrap quantity & re-work jobs.
- Track sub-contracted operations.

Tooling Database & Management

- Maintain a master list of tools, tool sets, dies, and fixtures.
- Tool production and maintenance history logs
- Define tool maintenance schedules or usage based automatic maintenance.
- Maintain detailed logs of tool procurement, repair and maintenance.
- Utilize tool issue/returns to specify what parts where made when using a specific tool or die.
- Maintain detailed digital documentation of tool and fixture usage, SOPs, safety instructions etc.

Document Management

- Integrated document management with job card, product and quality control
- Maintain all quality non-conformance data and documentation at a central location.
- Go paperless with complete documentation and revision control management along with auto-approvals and auto-updates.
- With revision control, manage overall documentation (product designs, work-flow documents etc.)
- Gain complete visibility to document lifecycle along with time stamps and personnel details.

Engineering Change

- Revision tracking for finished products, BOM items and routing changes.
- Ability to track revision numbers at every level of BOM.
- Full history of previous revisions.
- Recalculation of finished product cost based on change of BOM or routings.
- Track status of changes in operation and Work Centers upon changes approval.
- Where used search and analysis of revision change.
- Track disposition information for existing material stock.
- Information on the list of affected documents linked to the given item & revisions.
- Specify documents affected by the change with pre and post change revision details.
- Get summary of the changes with description, expected & completion date for ECN changes.

Maintenance Management

- Auto-generate repair & maintenance work orders and dispatch to personnel.
- Create & maintain machine/equipment information, associated repair bill of materials.
- Create user-defined preventive maintenance plans (PM), repair procedures, check lists, spare parts list; link them to specific equipment.
- Allocate personnel and material inventory against the work order.
- Link drawings, instruction manuals & electronic documentation to equipment and PM plans.
- Link maintenance to scheduling & capacity planning.
- Trigger maintenance alerts and reminders based on equipment usage directly from shop floor data collection.
- Maintain comprehensive maintenance logs & repair history.
- Collect labor-time reported against maintenance work orders.
- Access maintenance work orders & create new ones from any mobile or tablet device.

Quality Management

- Support TS 16949 and AS9100 based quality metrics.
- User-defined quality attributes for item or for each operation in routing.
- Print certifications, Material Safety Data Sheet (MSDS) and inspection sheets.
- Document corrective and preventive action using 8 Discipline (8D) methodology in Quality Management.
- Use analytical tools to drill down into details of quality metrics of parts, machine, & employees.
- Gain powerful insights using quality dashboards.
- User-defined list of specifications a part should meet, their target values and tolerances.
- Allow operators to put work in process and/or inventory on QA hold.
- Centralized database to store all non-conformance data.
- Integrated into Return Merchandise Authorization (RMA), receiving, shop floor transactions and inventory.

Part Specifications & Inspection Sheets

- Maintain a list of specifications for a part.
- User-defined list of specifications a part should meet, their target values and tolerances.
- Enter inspections results at the operator terminal or import from an external system.
- Warn the operator for out of tolerance results.
- Trigger QA hold for failed inspections.

Data Collection & Time Reporting

- Bar-codes to tag incoming goods during goods receiving & track its movement.
- RFID based input & real-time update of shift login and logout by personnel.
- Track time, attendance and maintain cost by jobs, operations & departments.
- Automatic lot number assignment & bar code label generation.
- Automated shop data collection through RFID with minimal employee interference.
- Backflushing and manual issues with or without lot control.
- Integrate and receive data from machines using Modbus serial or TCP/IP protocols.
- Automated customer specific shipping labels.
- Capture nesting job completions, part weight, labor & drop information from machine controller through XML interface.

Decision Making Tools & Enquiries

- Shortage lists.
- Late order analysis.
- Cost comparisons.
- Work-in process reporting.
- Production status reporting.
- Allocation details.
- Profitability analysis.
- Web-based operational dashboard.
- Employee/Work center efficiencies.

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.