

## Microsoft Dynamics 365 for Discrete Industries

### Benefits

**SUPPORT FOR DIFFERENT OPERATIONAL MODES.** Handles multiple types of production strategies, including configure-to-order, assemble-to-order, make-to-stock, and make-to-order.

**GAIN INSIGHT INTO COSTS AND PROCESS EFFICIENCY.** Understand and manage production schedules, capacity loadings, shop floor activities, and production costs. View up-to-the-minute client, contract, and project details for an accurate accounting of profitability.

**IMPROVE INVENTORY MANAGEMENT.** Create accurate inventory records and track items throughout the supply chain

**RESPOND QUICKLY TO CHANGING MARKET CONDITIONS.** Capitalize on new opportunities as they arise by modelling production capabilities, quickly sharing engineering information, and adjusting product mix for changes in demand.

**MAXIMIZE YOUR IT INVESTMENTS.** Tight integration with other Microsoft products extends Microsoft Dynamics 365 capabilities to help ensure a fast return on investment.

MICROSOFT DYNAMICS 365 FOR FINANCE AND OPERATIONS OFFERS A FLEXIBLE, ROBUST SOLUTION TO MEET THE LOW-VOLUME/HIGHCOMPLEXITY AND HIGH-VOLUME/LOW COMPLEXITY PRODUCTION NEED OF MANY DISCRETE MANUFACTURERS.

By integrating information and capabilities throughout the design and manufacturing life cycle, Microsoft Dynamics 365 can help you get better control of inventory, lead time and materials costs.

With Dynamics 365 you can tailor your production management system to fit the needs of your business. Flexible and adaptable processes and tools help you take advantage of changing market conditions so you can expand into new product lines and global markets. By modeling your production capabilities and providing accurate capacity planning and production costing, you can gain valuable insight into your business to effectively manage manufacturing resources and increase profitability.

If you have a legacy ERP system that no longer meets your needs, or if you are considering an upgrade to the latest version of your current system, take this opportunity and explore Microsoft Dynamics 365, a solution that can meet your discrete (and process) requirements. Migration tools and services are available to evaluate and move to a new solution with as little disruption as possible to your business.

For SAP users, the Microsoft Dynamics ERP Two-Tier Connector for SAP Business Scenarios enables IT organizations to use Microsoft Dynamics 365 across subsidiaries, divisions or branch entities to facilitate cost-effective business process integration and easily connect with SAP installations at the corporate headquarters location.



Microsoft Dynamics 365 Bill of Materials (BOM) interface showing a Bill of Materials for 'Standard HighEndSpeaker'.

Item number	Product name	Color	Version	Warehouse	Resource code	Quantity	Per unit cost	Configuration group
M0000	High End Speaker Unit		11			10000	1 ea	
M0001	Tweeter Speaker Unit		11			10000	1 ea	
M0004	Crossover		11			10000	1 ea	
M0008	High End Cabinet / High End Cas.	Black	11			10000	1 ea	
M0009	Protective Covers		11			40000	1 ea	
M0022	Front Grill - Metal		11			10000	1 ea	

Manage Bills of Material (BOM) with various item dimensionality and configurations.

# Features

<b>APPROVED VENDOR CAPABILITY</b>	Manage the vendor approval process per item with effective and expiration dates per item to ensure proper screening and compliance, and establish multi-level pricing for approved vendors.
<b>CUSTOM BILL OF MATERIAL AND PACKAGING CAPABILITIES</b>	Manage multi-level bill of materials and support flexible product configuration and packaging options. Enable customers to request multiple quality specifications per product while combining similar products in production to improve machine utilization.
<b>CUSTOM ITEM AND INVENTORY DIMENSIONALITY STRUCTURE</b>	Define multiple inventory dimensions and gain insight into the dynamics of your stocking practices, including packaging codes, variations to the main item, lot management, and inventory status. Conduct comprehensive "where-used" analysis for efficient product utilization.
<b>DETAILED PRODUCTION COST ANALYSIS</b>	Analyze and monitor production cost and requirements for each component of a sales order using graphical representations of multi-level bill of materials.
<b>ENHANCED PICKING</b>	Reduce inventory costs and eliminate waste by pulling inventory in optimal sequence.
<b>FAST RFQ DEVELOPMENT TIME</b>	Decrease development time for requests for quotations (RFQs), streamline quoting and estimating processes, and reduce risk with accurate costing and capacity information.
<b>FAST-PATH ORDER ENTRY</b>	Track order status using real-time updates on net purchasing, production and capacity.
<b>IMPROVED CUSTOMER SERVICE</b>	Have better planning and scheduling, enabling reduced cycle time of custom orders and increased customer satisfaction. Helps reduce keystrokes and look-up time, both of which can help improve customer service levels.
<b>IMPROVED SCHEDULING</b>	Quickly schedule/reschedule jobs and simulate alternatives by dragging Gantt chart items. Resolve scheduling overloads by reassigning operations to alternate work centers. Optimize scheduling across the organization with a unified resource model and scheduling engine.
<b>INTEGRATED QUALITY CONTROL (QC) CAPABILITIES</b>	Know the correct inventory status for any given item, including designations for QC testing, QC and failed, and downgrade of product. Manage quarantined products throughout the QC process and track their release from quarantine.
<b>ITEM DIMENSIONS</b>	Define the dimensions of each item, and define characteristics of other tools used in the manufacturing process.
<b>LOT INHERITANCE</b>	Configure items in a manner where their products qualitative and quantitative characteristics and shelf life information can be inherited by the manufactured items from their ingredients.
<b>LOW TOTAL COST OF OWNERSHIP (TCO)</b>	Tight integration with Microsoft® Office system applications, Microsoft SQL Server®, and Microsoft Windows® SharePoint® Services helps maximize your IT investments. With the look and feel of familiar Microsoft products, people can become productive quickly with minimal training.
<b>MULTIPLE DISCOUNT STRUCTURES</b>	Define and maintain an unlimited number of discounts that can apply to individual products or product families.
<b>PRODUCTION ORDER MANAGEMENT</b>	Create, schedule, view, track, split, roll back, or categorize production orders.
<b>RFID COMPLIANCE</b>	Attach radio frequency identification (RFID) chips to pallet ID tags and track them throughout the supply chain using any RFID-compliant hardware.
<b>ROBUST PLANNING OPTIONS</b>	Optimize production and materials planning, forecasting, and scheduling. Simultaneously schedule materials and capacity. Calculate available-to-promise (ATP) and capable-to-promise (CTP) deliveries.
<b>ROUTINGS</b>	Plan simple, sequential, and complex networks; use simultaneous routes in the same network. Use rough-cut capacity and detailed scheduling capabilities. Organize the shop floor into logical production units at individual sites.
<b>SUPPORT FOR DIFFERENT OPERATIONAL PROCESSES</b>	Execute multiple production strategies, including configure-to-order, assemble-to-order, make-to-stock, and make-to-order. Use both push and pull production control mechanisms.
<b>WEB-BASED, WORKFLOW-ENABLED COMMUNICATION</b>	Share information with your employees and trading partners via the Internet to maximize productivity and enhance collaboration. Enable customers to order in their preferred unit of measure (UOM), and provide critical product and order information to customers and suppliers through Enterprise Portal in Microsoft Dynamics 365.
<b>WORK-IN-PROGRESS (WIP) TRACKING AND VISIBILITY</b>	Understand WIP and actual cost through production tracking and reporting. Track detailed resource and throughput costs, including work center costs. Report production variances to standard costs.