

OSTENDO

One system • Complete operations

Bill of Materials

Features & Capabilities Paper

The Bill of Materials is the foundation of manufacturing operations—defining what components are needed, how they're assembled, and what the finished product costs. This guide explores Ostendo's BOM capabilities for both standard products and custom-configured items.

BOM Structure & Components

Manufactured items can be pre-defined in standard Bills of Materials or custom configured on-the-fly for one-off manufacturing. This flexibility supports both repetitive manufacturing of standard products and engineer-to-order environments where each item is unique.

Bills of Materials support unlimited levels of sub-assemblies, accommodating complex product structures where components are themselves manufactured items. A BOM can contain combinations of Materials, Non-Inventory Costs, and Labour with both Fixed and Variable Overheads.

Phantom BOMs represent sub-assemblies that are never stocked as separate items. When used in a parent BOM and an Assembly Order is created, Ostendo automatically explodes the phantom and uses its components directly in the parent order.

Multiple Manufacturing Outputs can be defined as Co-Products or By-Products beyond the base output—essential for process industries where production runs yield multiple items from shared inputs.

Product Configuration

Multiple forms of configuration are available for custom products. Feature & Options allows users to select from predefined choices that automatically adjust the BOM. Manual configuration gives complete flexibility for one-off specifications.

Pre-developed scripts can semi-automate the configuration process, guiding users step-by-step through complex product specifications. This Q&A approach ensures all necessary decisions are captured while reducing errors.

Auto-Created BOMs for custom configured items make one-off specifications reusable. Once configured, the resulting BOM can be saved and retrieved for future orders of the same specification.

Routing & Operations

Routing steps logically construct a manufacturing sequence within a BOM. Each step can define the operations required, the work centre or resource, and the time needed to complete that portion of production.

Setup and Run times can be defined separately against a BOM. This allows scheduling to treat setup time as a constant regardless of quantity, while run time varies based on the production batch size.

Hazards can be defined at routing step level to alert staff before initiating specific manufacturing operations. This ensures safety information is presented to operators exactly when they need it.

Version Control & Management

Version control of BOM Revisions maintains a complete history of changes. Each manufacturing order records which BOM version was used, providing traceability essential for quality management and regulatory compliance.

The 'Where Used' Inquiry quickly identifies any component across all BOMs—invaluable when a component is discontinued or when investigating the impact of specification changes.

Mass Replacement enables quick and easy swap-out of components across multiple BOMs. When a component is superseded or a supplier changes, this feature updates all affected BOMs efficiently.

BOM contents can be copied to speed up setup of new master records. When creating similar products, start from an existing BOM and modify rather than building from scratch.

Documentation & Attachments

Any form of electronic document or image can be linked to a BOM or Manufacturing Order—engineering drawings, specifications, work instructions, quality documents, or reference photos. This centralises all product information.

Documents can also be linked to individual components within a BOM, ensuring operators have access to component-specific information such as handling instructions or inspection criteria.

Configuration from Orders allows custom products to be specified directly within Sales or Job Quotes and Orders. This integrates the configuration process with the sales workflow, ensuring accurate quotations and seamless order processing.

Ready to structure your product information?

Contact your local Ostendo Consultant to discuss how these capabilities can be configured for your specific business requirements.

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