

## Automated ECR & ECO Approval Process

Manage version control and updates to bills of material (BOM) and routings while controlling effectivity dates that impact material planning, costing, and scheduling. Gain insights into pending changes with full audit capabilities for historical changes.

Engineering Change Control (ECC) is an essential requirement for maintaining control of manufacturing master data in a rapidly changing world. In an ever-changing or heavily regulated manufacturing company, ECC monitors the process of changing a bill of material and routing with built-in approvals workflow.

### Engineering Change Control Features:

- Complete control from Engineering Change Request (ECR) to Engineering Change Order (ECO) to updating the BOM. Merge multiple ECRs to a single ECO for like parts.
- Automates, controls, and organizes all change requests, plans, and actual changes to a BOM and routing. The BOM Compare screen allows you to see changes between ECR, ECO, and BOM quickly.
- Use Acumatica Approval and Assignment Maps to control the approval process for both requests and change orders. You can choose if approvals are required for either or both ECR and ECO.

### KEY BENEFITS

#### COORDINATION

- Manage ECR requests through the entire ECO process.
- Utilize approvals workflow.

#### VERSATILE

- Adapt the software as you grow.
- Leverage powerful features and functions for:
  - Make-to-Stock
  - Make-to-Order
  - Engineer-to-Order
  - Project Centric
  - Job Shop
  - Batch
  - Repetitive Manufacturing

#### SECURE

- Control which users can access ECC for BOM and routing changes.
- An audit log provides the history of changes with database-level audit with user name and date/time stamp.

#### INSIGHTFUL

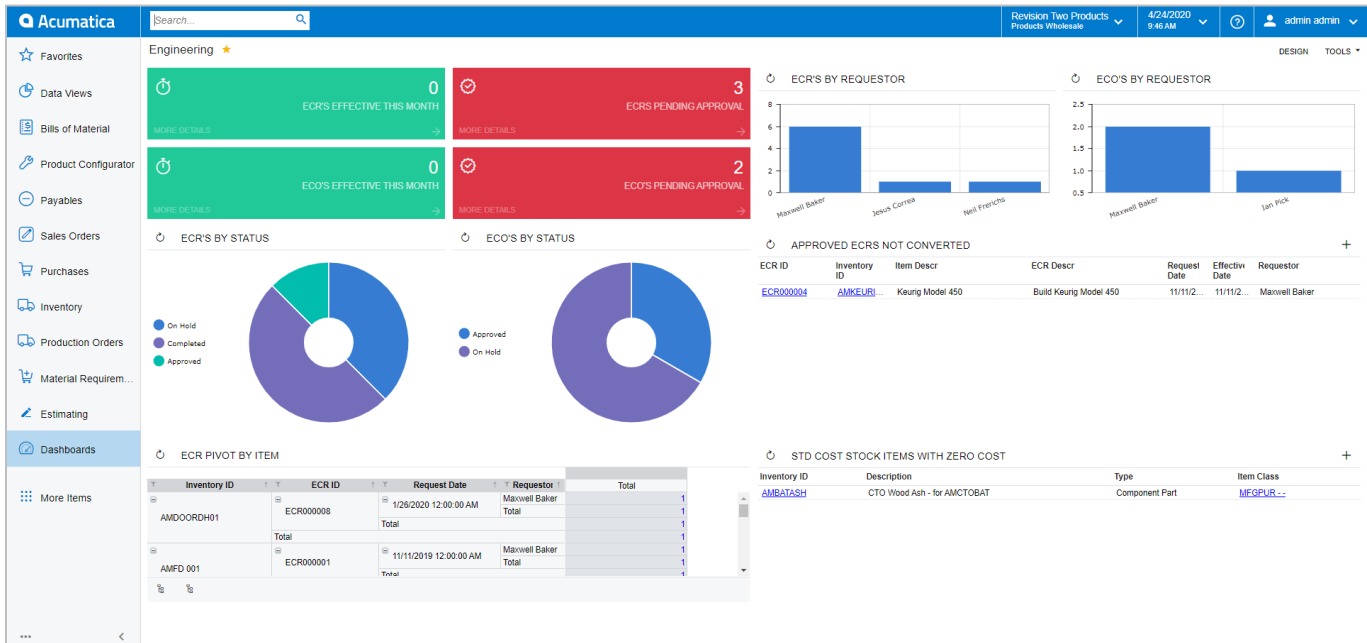
- BOM Compare shows a side-by-side view of changes.
- Dashboards and reports provide key analysis for engineering changes.

ID	Revision	Inventory ID	Description	Qty * UOM	Unit Cost	Planned Material Cost Type	Phantom Routing
0000025	A	125 MUSIC	125 Music Wire	0.015840 POUND	0.4600	0.01 Regular	Before

*Engineering Change Control provides a BOM Compare screen highlighting changes between bill of material and routings.*

## ENGINEERING CHANGE CONTROL FEATURES AND CAPABILITIES

- Engineering Change Requests** Manage engineering change requests by BOM and revision with requested dates, effective dates, requester names, priority codes, and additional information.
- Engineering Change Orders** Tie multiple ECRs to a single ECO for the same item or skip the ECR process and manage changes directly from the new ECO.
- Approval Process** Setup an automated process to route ECRs and ECOs internally for approval.
- BOM Compare** View BOM revisions side-by-side to identify changes between versions quickly.
- Security / Audit Log** Control user access to ECR and ECO processes with database logs for changes.
- Optional Acumatica for Arena Native Connector** Manufacturers with complex engineering and product release processes may be interested in the [Acumatica for Arena Native Connector](#) application for connectivity with advanced product lifecycle management (PLM) features.



The Engineering Dashboard provides insights into engineering changes effective this month or pending approval. Analyze your data using built-in Pivot Tables with charts and graphs and drill-down to view source transactions.

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