



DuoCron ERP for Discrete Manufacturing

From Design to Dispatch – The Smarter ERP for
Precision Manufacturing!



Introduction

Discrete manufacturing is complex, component-driven, and unforgiving to error. From BOM versioning and production sequencing to quality checkpoints and traceability—every step must be exact. Manufacturers dealing in automobile components, electrical assemblies, control panels, precision tools, or consumer electronics face challenges like volatile demand, engineering revisions, and high rejection costs.

DuoCron ERP—built on ERPNext but customized specifically for discrete manufacturing—offers a powerful, process-mapped solution. It brings together everything you need: engineering BOMs, supplier coordination, workstation routing, QC logs, costing, inventory, and after-sales tracking, all in a single cloud platform.

Whether you're a make-to-stock, make-to-order, or engineer-to-order business, DuoCron ERP ensures every part is tracked, every job is costed, and every deadline is met—with no need for external plugins or workaround spreadsheets.

What Makes DuoCron ERP Sets Apart?

✓ ERP is free, pay only for services.

✓ Fully optimized, yet easily customizable.

✓ Built-in Custom Industry Specific Features

✓ Seamlessly integrates with AI and other tools.

10+ Years of
Experience

24*7 Customer
Support

Worldwide
Presence

We Understand Your Challenges

■ **Complex, Versioned BOMs with Engineering Changes**

Managing 3-level or 4-level BOMs, alternates, variants, and engineering change orders (ECOs) is difficult without a dynamic system. Manual tracking leads to incorrect builds or excess inventory.

■ **Fragmented Procurement & Long Lead Times**

When raw material and part orders are reactive, vendors can't deliver on time. Poor purchase planning causes stockouts or excesses, hurting production stability and working capital.

■ **Lack of End-to-End Traceability**

Tracking where a component came from, which batch it was used in, or where a fault originated becomes impossible without serial/batch tracking linked to BOMs.

■ **Shop Floor Scheduling & Machine Downtime**

Without capacity-based planning, machine hours are wasted or overloaded. Inability to sequence work orders by resource availability delays entire production runs.

■ **High Rejection Rates Due to Delayed Quality Checks**

Without in-process QC, non-conformities are detected post-assembly—wasting effort, materials, and time. Rework rates surge due to missed checkpoints.

■ **Paper-Based Work Instructions & Job Cards**

Manual job orders lack routing steps, part lists, or SOPs—causing errors, confusion, and non-standard builds.

We Understand Your Challenges

■ Hidden Production Costs & Margins Guesswork

When you can't track labor time, energy usage, material waste, or rework costs per order, margin leakage goes unnoticed.

■ Disconnected Sales, Production & Support

Customer orders don't trigger accurate planning. Post-sales issues (like replacements or RMAs) aren't linked to the original job or QC notes—hurting service quality.



Key Features

Multi-Level BOM & Engineering Change Management



Define unlimited-level BOMs with nested assemblies, by-products, alternate items, and routing operations. Track engineering revisions with approval workflows.

Capacity-Aware Workstation & Routing Setup



Create detailed production routings with operation sequences, estimated times, and workstation-specific load planning. Prevent bottlenecks and optimize machine utilization.

Material Requirement Planning (MRP) Engine



Automatically plan raw material procurement based on open production orders, lead times, minimum stock levels, and safety buffers—across multi-location warehouses.

Job Card & Shop Floor Execution Module



Generate job cards linked to each operation with QR/barcode tracking. Log real-time progress, material consumption, machine hours, and labor time at each step.

Key Features

In-Process & Final Quality Control Integration



Set inspection templates per operation. Capture dimensions, tolerances, fitment accuracy, etc., and block/rework non-conforming parts before assembly.

Serial & Batch Traceability



Every component and product is tracked through serial numbers or batch IDs—allowing complete backward and forward traceability across suppliers, production, and sales.

Automated Costing per Production Order



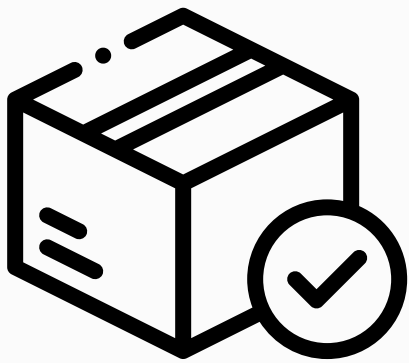
Track actual vs standard cost on every job—covering raw material, labor time, machine hours, subcontracting, rework, and overheads. Get margin reports by product line.

Sales, Delivery & Post-Sales Sync



Customer orders link directly to production planning. Dispatches auto-sync with invoices, and service tickets (like RMAs or warranty claims) connect to job history and QC logs.

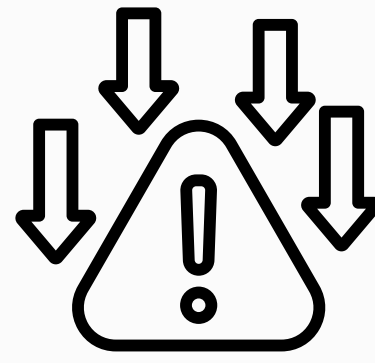
Real Benefits, Real Success



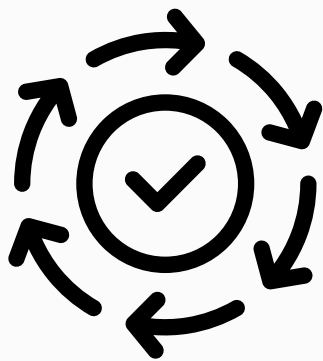
Accelerates market
readiness



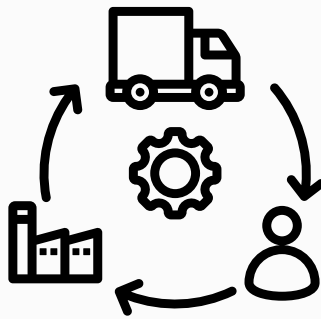
Reduces operational
costs



Mitigates
compliance risks



Boosts product
consistency



Optimizes inventory
turnover



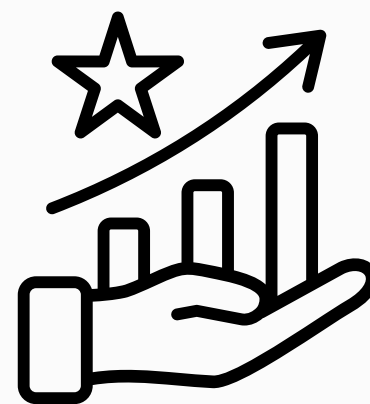
Strengthens supplier
partnerships



Enhances financial
transparency



Expedites sales
cycles



Protects brand
reputation



Contact Us for more
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