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Packaging Industry

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The drive for operational efficiency and the increasing competitive pressure of the global economy are pushing companies throughout the Packaging industry to strategically focus on digital transformation as a foundation for sustainable growth.

These challenges have brought packaging operations to the center stage of industrial innovation, where digitalization is fast becoming the key driver of productivity, sustainability, and profitability.

As customer expectations evolve, product lifecycles shorten, and regulatory compliance increasingly shapes production processes and supply chains, the need for flexibility, traceability, and transparency has never been greater.

In this challenging environment, there is significant room for improvement in reducing downtime, optimizing production runs, minimizing material waste, and ensuring end-to-end compliance that directly impact customer trust, margins, and growth opportunities.

Today, successful packaging companies are those who combine real-time operational visibility with agile, data-driven decision-making to achieve faster response times, greater accountability, and higher overall equipment efficiency.

More and more packaging executives realize that there is a pressing need to integrate teams, systems, and processes across the value chain—from design and production lines to quality labs, supply chain operations, and management offices. Seamless digital integration is rapidly becoming a basic business requirement.

Trends and challenges in the Packaging Manufacturing Industry

**Food Safety
Compliance**



**Product
Innovation Cycles**



**Quality &
Traceability**



**Rising Input
Costs**



**Sustainability
Goals**



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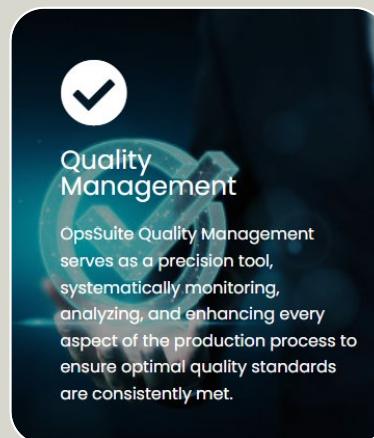
OpsSuite, built on the Mendix low-code platform, understands these challenges and offers a Packaging Operations Solution designed to enable efficient digital transformation.

The solution digitizes critical processes such as line changeover management, material usage tracking, quality inspections, and maintenance workflows.

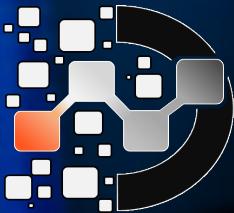
It enables real-time communication and integration between production lines, quality teams, engineering, supply chain, and management, ensuring faster decision-making, improved accountability, and reduced downtime.

Live dashboards provide actionable insights on machine utilization, OEE, production output, and material waste, while automated workflows reduce errors and improve traceability across packaging processes.

Designed to scale, OpsSuite allows additional modules and integrations such as inventory management, sustainability tracking, predictive maintenance, ERP/MES/LIMS connectivity, and IoT monitoring to be seamlessly added as operations mature.



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Key Capabilities



Production & Batch Orchestration: Manage, schedule, and coordinate multiple production lines and batches (including recipe/formulation control, versioning, and changeovers) all within a unified platform. This ensures consistency, reduces lead times, and handles product variants and scale-ups.



Quality, Compliance & Audit Management: Digitize quality inspections, checklists, nonconformance tracking, and audit workflows. Enable full traceability and fast recall capabilities by linking quality data with production and batch records.



Real-Time Monitoring & KPIs Dashboards: Provide live dashboards and visual reporting for metrics such as OEE (overall equipment effectiveness), yield, downtime, quality yield, throughput, and waste. This gives management and production teams timely insight to act and improve.



Digital Workflows & Task Automation: Automate operator tasks, shift handovers, maintenance requests, approvals, notifications, and escalations. Eliminate paper forms, reduce human error, and ensure standard processes are consistently followed.



Scalable Integrations & Extensibility: Seamlessly integrate with ERP, MES, LIMS, IoT sensors, SCADA systems, and other digital systems. Enable modular add-ons like predictive maintenance, inventory and supply chain visibility, energy / sustainability analytics, and advanced analytics as operations mature.

The screenshot displays several windows of the OPS SUITE platform:

- Plant Model:** Shows a hierarchical tree view of a plant model following ISA-95 standards, with sections for Dry Area, Wet Area, and Coastal Blend Facility.
- Documents:** Displays Standard Operating Procedure and Maintenance Procedure documents.
- SS-WHS-SAF-000 1.0.0:** Shows a document for 'SOP (SS-MACHINE)' with sections for 'RISK ASSESSMENT', 'RISK CONTROL', and 'RISK MONITORING'.
- Plant Model:** Shows a timeline for 'Operating Time' with sections for 'Scheduled Time', 'Available Time', 'Manufacturing Time', 'Breakdown', 'Setup', 'Service', and 'Idle Time'.
- QC Inspection:** A form for 'QC Inspection' with fields for 'QC Inspector', 'QC Inspector Date/Time', 'Reason', 'Pass/Fail', 'Comments', and 'Attachments'.
- QC Inspection:** A summary table showing inspection results for 'Surface Finish'.
- Production Line:** A detailed view of a production line with components like 'Can Filling', 'Sealing & Sterilization', and 'Labeling'.
- Production Line:** A Gantt chart showing the timeline for 'Component Assembly' and 'Labeling'.
- Production Line:** A pie chart showing the distribution of time by activity: 58.1% (Setup), 23.3% (Idle Time), 11.6% (Service), and 4.0% (Breakdown).

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