

Inventory tracking and warehouse management

Automatically tracks raw material inventory levels and manages warehouse operations by monitoring stock movements, triggering reorders, and optimizing storage locations. Reduces material shortages and excess inventory while improving warehouse efficiency.

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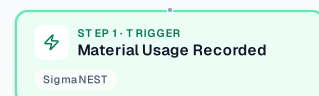


WORKFLOW TRIGGER

Material consumption recorded from production cutting operations

Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Material Usage Recorded

Production cutting operation in SigmaNEST completes and reports actual material consumption. System captures material type, quantity used, and

remaining stock from cutting patterns.

AI Business OS

SigmaNEST

2

 ACTION

Update Inventory Database

JobBOSS inventory system automatically updates current stock levels and calculates remaining quantities. System logs transaction history and updates material location tracking.

JobBOSS

3

 DECISION

Check Reorder Thresholds

System evaluates if current inventory levels fall below predefined minimum thresholds for each material type. Considers lead times and upcoming production schedules from active projects.

JobBOSS

4

 ACTION

Generate Purchase Orders

Automatically creates purchase orders for materials below threshold levels and routes to approved suppliers. Calculates optimal order quantities based on usage patterns and storage capacity.

JobBOSS

5

 ACTION

Optimize Warehouse Layout

AI Business OS

AI system analyzes material usage frequency and upcoming project requirements to recommend optimal storage locations. Updates warehouse management system with new location assignments.

JobBOSS

6

 ACTION

Update Project Availability

System checks all active projects in SolidWorks and Tekla Structures against current inventory to identify potential material shortages. Flags projects that may face delays due to material availability.

SolidWorks

Tekla Structures

JobBOSS

7

 OUTPUT

Distribute Inventory Reports

Generates and sends real-time inventory status reports to production managers, purchasing team, and warehouse staff. Includes reorder notifications, location changes, and project impact assessments.

JobBOSS



Outputs

- Updated inventory levels in real-time

AI Business OS

- Automated purchase orders for low-stock materials
- Optimized warehouse storage location assignments
- Project material availability status reports



Key Metrics

- Inventory turnover rate
- Stockout frequency
- Warehouse space utilization
- Material waste percentage



Tools & Integrations

- SigmaNEST
- JobBOSS
- SolidWorks
- Tekla Structures

AI Business OS

Actionable AI implementation strategies for business leaders ready to transform their operations.

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