

# Material ordering and inventory management

Automates material ordering and inventory tracking for concrete jobs by monitoring stock levels, calculating material needs from project specs, and generating purchase orders to maintain optimal inventory while preventing costly delays.

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## WORKFLOW TRIGGER

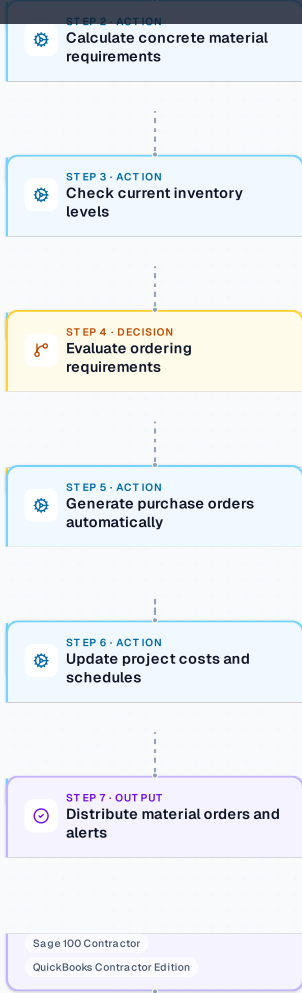


New concrete project is scheduled in project management system or existing inventory drops below reorder point

## Visual Flow

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

**STEP 1 - TRIGGER**  
 Project scheduled or low



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## Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Project scheduled or low inventory

System detects a new concrete project added to schedule or material inventory falling below predetermined reorder thresholds. Triggers automated material planning process.

Sage 100 Contractor

Foundation Software

2

 ACTION

## Calculate concrete material requirements

Extracts project specifications and automatically calculates required quantities of cement, aggregate, rebar, and other materials based on job scope. References historical usage data for accuracy.

PlanSwift

ProEst

3

 ACTION

## Check current inventory levels

Queries real-time inventory system to determine available material quantities on hand and materials already committed to other scheduled projects. Updates material needs accordingly.

Sage 100 Contractor

Foundation Software

4

 DECISION

## Evaluate ordering requirements

Compares calculated material needs against available inventory to determine if new orders are required. Routes to immediate ordering for urgent needs or scheduled ordering for future projects.

Foundation Software

5

### Generate purchase orders automatically

Creates purchase orders for required materials, selecting preferred suppliers based on pricing, delivery schedules, and quality ratings. Includes job-specific delivery instructions and timing requirements.

Sage 100 Contractor

QuickBooks Contractor Edition

6

ACTION

### Update project costs and schedules

Records material costs against specific job codes and updates project schedules based on supplier delivery commitments. Notifies project managers of any potential delays or cost overruns.

ProEst

Foundation Software

7

OUTPUT

### Distribute material orders and alerts

Sends purchase orders to suppliers, updates crew schedules with material delivery times, and provides project managers with cost tracking reports and inventory status updates.

Sage 100 Contractor

QuickBooks Contractor Edition



## Outputs

- Automated purchase orders sent to suppliers
- Updated project cost estimates with material pricing
- Crew notifications with material delivery schedules
- Real-time inventory status reports



## Key Metrics

- Material cost variance per project
- Inventory turnover rate
- Project delay incidents due to material shortages
- Purchase order processing time



## Tools & Integrations

- Sage 100 Contractor
- Foundation Software
- PlanSwift
- ProEst
- QuickBooks Contractor Edition

## AI Business OS

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