

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 38  
Average Utilization: 70.7%  
Throughput Increase: 34.2%  
Labor Cost Reduction: 28.5%  
ROI Period: 2.3 years

## Warehouse Performance

Warehouse Location		Capacity Used	Inbound/Day	Outbound/Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	74.1%	2,017	3,614	98.9%	79.4%	Improvement Needed
Distribution Center B	Dallas, TX	84.1%	2,038	3,571	96.9%	66.3%	Improvement Needed
Distribution Center C	Atlanta, GA	32.0%	1,377	2,357	98.1%	79.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.3%	2,989	1,832	99.5%	64.5%	Improvement Needed
Distribution Center E	Newark, NJ	41.2%	2,086	2,918	96.4%	64.1%	Improvement Needed

## Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput

by 20%

- Implement voice-picking system to improve accuracy to 99.8%

- Upgrade WMS integration for real-time inventory visibility

- Add automated sortation system for small package handling

- Implement predictive analytics for demand-based staffing

- Consider AS/RS system for high-velocity SKUs