

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 43  
Average Utilization: 73.2%  
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	68.3%	2,599	1,852	95.2%	77.1%	Improvement Needed
Distribution Center B	Dallas, TX	46.8%	1,989	2,152	98.5%	65.9%	Improvement Needed
Distribution Center C	Atlanta, GA	52.9%	1,418	1,769	98.4%	79.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	49.5%	1,477	3,241	95.0%	67.4%	Improvement Needed
Distribution Center E	Newark, NJ	74.3%	2,697	2,884	99.2%	76.8%	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