

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 67  
Average Utilization: 82.8%  
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	84.1%	2,542	3,087	98.0%	86.3%	Optimized
	Dallas, TX	50.5%	2,245	2,431	97.9%	72.8%	Improvement Needed
Distribution Center B	Atlanta, GA	46.4%	1,035	2,775	98.4%	94.2%	Optimized
Distribution Center C	Los Angeles, CA	48.9%	1,426	1,949	98.5%	93.0%	Optimized
Distribution Center D	Newark, NJ	83.9%	2,333	3,788	98.8%	67.9%	Improvement Needed
Distribution Center E							

## 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