

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 54  
Average Utilization: 65.7%  
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	110.2%	1,341	3,003	98.1%	60.9%	Improvement Needed
Distribution Center B	Dallas, TX	67.3%	1,710	3,154	95.0%	70.0%	Improvement Needed
Distribution Center C	Atlanta, GA	102.3%	1,505	2,843	97.6%	61.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	111.4%	1,897	1,583	97.0%	73.7%	Improvement Needed
Distribution Center E	Newark, NJ	39.3%	2,298	3,171	95.9%	61.8%	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