

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 62  
Average Utilization: 65.6%  
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	54.3%	1,599	3,641	97.8%	77.1%	Improvement Needed
Distribution Center B	Dallas, TX	81.4%	2,640	2,532	95.0%	61.1%	Improvement Needed
Distribution Center C	Atlanta, GA	80.0%	2,909	3,104	96.3%	61.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	56.9%	2,454	1,826	99.5%	63.2%	Improvement Needed
Distribution Center E	Newark, NJ	95.9%	1,972	1,786	97.2%	65.5%	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