

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 49  
Average Utilization: 70.8%  
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	64.1%	2,132	3,751	97.9%	71.2%	Improvement Needed
Distribution Center B	Dallas, TX	33.9%	1,443	2,524	98.5%	65.7%	Improvement Needed
Distribution Center C	Atlanta, GA	53.3%	2,700	2,760	99.5%	71.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	69.7%	2,675	3,066	98.5%	72.3%	Improvement Needed
Distribution Center E	Newark, NJ	63.1%	2,542	1,944	97.3%	72.8%	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