

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 56  
Average Utilization: 71.1%  
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	44.2%	2,884	3,429	98.9%	60.3%	Improvement Needed
Distribution Center B	Dallas, TX	73.0%	1,237	1,602	95.8%	77.2%	Improvement Needed
Distribution Center C	Atlanta, GA	64.9%	1,082	3,307	95.5%	77.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	91.0%	1,187	2,205	95.3%	65.4%	Improvement Needed
Distribution Center E	Newark, NJ	93.2%	2,886	3,567	97.6%	75.2%	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