

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 33  
Average Utilization: 69.2%  
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	45.8%	2,670	2,753	97.0%	69.1%	Improvement Needed
Distribution Center B	Dallas, TX	59.6%	1,484	3,362	97.0%	63.8%	Improvement Needed
Distribution Center C	Atlanta, GA	50.6%	2,930	2,668	98.2%	68.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.9%	2,805	1,689	99.3%	74.2%	Improvement Needed
Distribution Center E	Newark, NJ	64.0%	2,331	2,220	96.4%	70.6%	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