

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 30  
Average Utilization: 68.5%  
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	58.5%	2,952	2,198	96.4%	67.4%	Improvement Needed
Distribution Center B	Dallas, TX	53.5%	2,834	1,783	95.5%	70.9%	Improvement Needed
Distribution Center C	Atlanta, GA	131.4%	1,140	1,713	97.2%	63.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.4%	2,388	1,731	97.0%	65.0%	Improvement Needed
Distribution Center E	Newark, NJ	100.8%	1,650	3,323	98.7%	76.2%	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