

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 57  
Average Utilization: 69.0%  
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	69.4%	2,328	3,036	98.1%	78.6%	Improvement Needed
Distribution Center B	Dallas, TX	57.7%	1,424	3,199	99.3%	76.7%	Improvement Needed
Distribution Center C	Atlanta, GA	108.5%	2,411	2,072	96.9%	60.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.2%	1,777	1,986	95.3%	68.3%	Improvement Needed
Distribution Center E	Newark, NJ	65.0%	2,134	3,036	97.9%	61.1%	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