

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 65  
Average Utilization: 68.2%  
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 Status	
Distribution Center A	Chicago, IL	83.8%	2,786	3,833	96.5%	81.8%	Optimized
	Dallas, TX	77.1%	1,108	2,005	98.7%	69.6%	Improvement Needed
Distribution Center B	Atlanta, GA	103.5%	2,180	2,470	99.2%	61.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.2%	1,062	2,866	98.6%	67.4%	Improvement Needed
Distribution Center E	Newark, NJ	69.6%	2,422	2,297	95.3%	60.5%	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