

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 40  
Average Utilization: 70.3%  
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	80.0%	2,720	3,191	96.9%	82.5%	Optimized
	Dallas, TX	39.1%	2,319	3,587	98.3%	76.6%	Improvement Needed
Distribution Center B	Atlanta, GA	36.2%	1,836	3,987	97.5%	65.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	95.0%	2,773	1,759	95.6%	63.5%	Improvement Needed
Distribution Center E	Newark, NJ	52.8%	2,245	2,081	95.7%	63.1%	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