

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 52  
Average Utilization: 79.8%  
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	72.2%	2,887	2,381	95.5%	83.6%	Optimized
	Dallas, TX	87.8%	2,832	3,829	99.5%	93.7%	Optimized
Distribution Center B	Atlanta, GA	59.8%	2,728	3,690	95.3%	75.1%	Improvement Needed
Distribution Center C	Los Angeles, CA	84.0%	1,015	1,729	99.5%	82.4%	Optimized
Distribution Center D	Newark, NJ	50.6%	2,529	1,913	98.2%	64.2%	Improvement Needed
Distribution Center E							

## 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