

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 31  
Average Utilization: 68.1%  
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	52.8%	1,793	2,362	96.5%	67.3%	Improvement Needed
Distribution Center B	Dallas, TX	82.0%	1,289	1,860	97.9%	64.4%	Improvement Needed
Distribution Center C	Atlanta, GA	49.1%	1,028	3,047	96.3%	71.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	80.3%	1,718	2,032	99.0%	75.7%	Improvement Needed
Distribution Center E	Newark, NJ	44.5%	2,055	3,509	97.4%	62.0%	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