

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 56  
Average Utilization: 68.3%  
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	72.1%	2,237	1,721	96.6%	66.9%	Improvement Needed
Distribution Center B	Dallas, TX	41.8%	1,909	3,465	98.3%	61.5%	Improvement Needed
Distribution Center C	Atlanta, GA	39.5%	1,951	1,610	98.4%	69.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	67.4%	1,122	3,173	96.6%	64.5%	Improvement Needed
Distribution Center E	Newark, NJ	35.2%	1,452	2,101	97.4%	79.2%	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