

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 58  
Average Utilization: 72.0%  
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	112.2%	1,455	3,997	95.8%	71.7%	Improvement Needed
Distribution Center B	Dallas, TX	71.5%	2,848	3,308	99.5%	71.1%	Improvement Needed
Distribution Center C	Atlanta, GA	93.7%	2,701	1,762	97.0%	76.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	69.7%	1,463	3,957	98.0%	63.8%	Improvement Needed
Distribution Center E	Newark, NJ	103.7%	2,961	3,545	95.9%	77.4%	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