

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 36  
Average Utilization: 68.8%  
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	72.7%	1,262	1,918	99.1%	80.5%	Optimized
	Dallas, TX	82.6%	1,980	3,575	96.1%	62.1%	Improvement Needed
Distribution Center B	Atlanta, GA	58.1%	2,001	2,796	96.6%	72.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.7%	2,650	3,568	98.9%	62.3%	Improvement Needed
Distribution Center E	Newark, NJ	65.8%	2,828	1,736	98.6%	66.9%	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