

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 34  
Average Utilization: 80.7%  
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	81.2%	2,445	2,177	98.4%	75.9%	Improvement Needed
Distribution Center B	Dallas, TX	62.6%	1,329	2,052	97.8%	80.2%	Optimized
Distribution Center C	Atlanta, GA	81.7%	2,583	2,179	98.7%	74.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	109.0%	1,598	1,707	98.7%	85.8%	Optimized
Distribution Center E	Newark, NJ	77.0%	2,939	3,016	98.9%	86.9%	Optimized

## 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