

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 26  
Average Utilization: 79.7%  
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	89.0%	2,433	2,600	99.1%	83.7%	Optimized
	Dallas, TX	102.0%	1,002	2,493	98.6%	74.6%	Improvement Needed
Distribution Center B	Atlanta, GA	77.4%	1,731	2,452	95.4%	66.3%	Improvement Needed
Distribution Center C	Los Angeles, CA	60.8%	2,665	2,988	95.7%	81.4%	Optimized
Distribution Center D	Newark, NJ	86.6%	1,627	1,728	97.9%	92.6%	Optimized
Distribution Center E							

## 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