

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 48  
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	61.9%	2,652	2,688	99.0%	91.7%	Optimized
	Dallas, TX	73.8%	1,998	2,387	99.3%	93.4%	Optimized
Distribution Center B	Atlanta, GA	40.5%	2,241	2,005	96.5%	86.4%	Optimized
Distribution Center C	Los Angeles, CA	56.7%	2,177	3,920	99.3%	65.8%	Improvement Needed
Distribution Center D	Newark, NJ	67.4%	1,340	2,237	95.0%	61.2%	Improvement Needed
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