

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 32  
Average Utilization: 79.2%  
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	70.7%	2,334	2,263	98.0%	80.4%	Optimized
	Dallas, TX	54.1%	2,298	2,570	95.0%	91.9%	Optimized
Distribution Center B	Atlanta, GA	45.6%	2,263	1,680	98.5%	70.5%	Improvement Needed
Distribution Center C	Los Angeles, CA	40.9%	1,370	1,839	98.0%	72.1%	Improvement Needed
Distribution Center D	Newark, NJ	77.0%	1,638	3,900	96.5%	81.3%	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