

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 44  
Average Utilization: 72.7%  
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	38.8%	1,194	3,394	97.5%	64.8%	Improvement Needed
Distribution Center B	Dallas, TX	94.5%	2,634	1,508	97.0%	91.5%	Optimized
Distribution Center C	Atlanta, GA	60.8%	1,338	2,826	97.0%	77.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	81.7%	1,798	1,714	95.9%	66.2%	Improvement Needed
Distribution Center E	Newark, NJ	47.5%	2,115	3,349	95.2%	63.4%	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