

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 43  
Average Utilization: 72.5%  
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	42.8%	2,624	3,505	97.6%	67.8%	Improvement Needed
Distribution Center B	Dallas, TX	57.3%	1,285	3,328	96.2%	69.0%	Improvement Needed
Distribution Center C	Atlanta, GA	54.4%	1,874	2,246	98.4%	87.4%	Optimized
Distribution Center D	Los Angeles, CA	94.0%	2,981	2,758	95.8%	74.1%	Improvement Needed
Distribution Center E	Newark, NJ	51.7%	1,082	3,410	99.0%	64.4%	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