

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 69  
Average Utilization: 77.0%  
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 Status	
Distribution Center A	Chicago, IL	78.9%	2,495	2,800	97.6%	90.8%	Optimized
	Dallas, TX	81.4%	1,272	1,753	96.8%	70.9%	Improvement Needed
Distribution Center B	Atlanta, GA	58.4%	1,665	3,978	97.0%	73.6%	Improvement Needed
Distribution Center C	Los Angeles, CA	55.7%	2,170	2,486	99.1%	86.1%	Optimized
Distribution Center D	Newark, NJ	43.9%	1,271	2,590	98.3%	63.4%	Improvement Needed
Distribution Center E							

## Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement AI-driven inventory tracking in Warehouse 1

ment voice-  
picking  
system to  
improve  
accuracy to  
99.8%

- Upgra  
de WMS  
integration  
for real-time  
inventory  
visibility

- Add au  
tomated  
sortation  
system for  
small  
package  
handling

- Imple  
ment  
predictive  
analytics for  
demand-  
based  
staffing

- Consid  
er AS/RS  
system for  
high-  
velocity  
SKUs