

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 52  
Average Utilization: 77.5%  
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	58.5%	1,591	2,769	96.5%	85.6%	Optimized
	Dallas, TX	72.5%	2,868	3,165	97.0%	80.9%	Optimized
Distribution Center B	Atlanta, GA	95.6%	2,083	1,792	95.8%	71.5%	Improvement Needed
Distribution Center C	Los Angeles, CA	92.2%	2,384	1,597	95.7%	70.1%	Improvement Needed
Distribution Center D	Newark, NJ	78.9%	2,184	3,588	95.5%	79.5%	Improvement Needed

## Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

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