

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 25  
Average Utilization: 75.9%  
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	94.4%	1,496	3,779	99.3%	92.0%	Optimized
	Dallas, TX	63.8%	1,873	3,261	98.3%	60.6%	Improvement Needed
Distribution Center B	Atlanta, GA	72.5%	1,259	3,166	97.9%	67.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	97.3%	2,416	2,398	95.1%	64.8%	Improvement Needed
Distribution Center E	Newark, NJ	36.3%	1,126	3,856	97.6%	94.8%	Optimized

## 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