

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 31  
Average Utilization: 74.3%  
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	46.6%	2,286	2,843	99.5%	79.2%	Improvement Needed
Distribution Center B	Dallas, TX	63.2%	2,368	2,162	98.1%	81.2%	Optimized
Distribution Center C	Atlanta, GA	66.8%	1,577	1,638	99.4%	61.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.7%	2,296	3,440	97.0%	63.8%	Improvement Needed
Distribution Center E	Newark, NJ	63.7%	1,568	2,619	96.6%	86.2%	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