

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 47  
Average Utilization: 75.6%  
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	78.1%	2,907	3,698	98.9%	85.9%	Optimized
	Dallas, TX	57.0%	2,609	1,814	95.5%	61.2%	Improvement Needed
Distribution Center B	Atlanta, GA	46.4%	2,825	3,139	98.2%	72.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	76.2%	2,848	3,630	98.8%	68.1%	Improvement Needed
Distribution Center E	Newark, NJ	121.8%	1,638	2,794	95.5%	90.6%	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