

# Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

## Automation Overview

Total Warehouses: 5  
Total Robots: 55  
Average Utilization: 80.6%  
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	35.7%	2,074	2,688	96.2%	63.1%	Improvement Needed
Distribution Center B	Dallas, TX	90.3%	1,149	2,548	98.0%	87.7%	Optimized
Distribution Center C	Atlanta, GA	86.3%	1,789	3,813	97.1%	63.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	38.7%	2,955	3,304	95.2%	94.5%	Optimized
Distribution Center E	Newark, NJ	69.4%	2,257	3,762	99.3%	93.7%	Optimized

## Optimization Opportunities

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

picking  
system to  
improve  
accuracy to  
99.8%

- Upgrade WMS integration for real-time inventory visibility

- Add automated sortation system for small package handling

- Implement predictive analytics for demand-based staffing

- Consider AS/RS system for high-velocity SKUs