

# Warehouse Automation Analytics

## Performance metrics and automation optimization insights

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Use Case: warehouse-automation

### Automation Overview

Total Warehouses: 5  
Total Robots: 37  
Average Utilization: 81.5%  
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	37.7%	2,706	2,033	95.9%	82.7%	Optimized
	Dallas, TX	64.1%	2,788	2,963	95.1%	89.7%	Optimized
	Atlanta, GA	64.1%	1,526	2,453	96.0%	66.2%	Improvement Needed
Distribution Center B							
Distribution Center C	Los Angeles, CA	38.1%	2,172	3,251	96.2%	83.7%	Optimized
	Newark, NJ	73.8%	1,414	2,582	97.0%	85.3%	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