

# Warehouse Automation Analytics

## Performance metrics and automation optimization insights

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Use Case: warehouse-automation

### Automation Overview

Total Warehouses: 5  
Total Robots: 60  
Average Utilization: 73.4%  
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	79.3%	2,386	3,103	98.6%	85.2%	Optimized
	Dallas, TX	50.9%	1,452	1,763	96.5%	68.8%	Improvement Needed
Distribution Center B	Atlanta, GA	85.4%	1,379	1,850	99.5%	65.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	82.7%	2,695	2,557	99.1%	78.0%	Improvement Needed
Distribution Center E	Newark, NJ	59.7%	2,201	2,850	98.2%	69.7%	Improvement Needed

### 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