

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 82.5%
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	129.2%	1,408	3,822	97.7%	74.0%	Improvement Needed
	Dallas, TX	79.1%	2,214	3,513	96.4%	92.1%	Optimized
	Atlanta, GA	35.8%	2,185	2,378	97.2%	83.2%	Optimized
	Los Angeles, CA	74.8%	2,366	2,466	97.6%	89.8%	Optimized
	Newark, NJ	66.0%	2,846	2,022	96.7%	73.2%	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