

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 71.2%
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	62.1%	2,901	2,547	96.9%	75.3%	Improvement Needed
Distribution Center B	Dallas, TX	98.8%	2,049	3,591	98.1%	68.7%	Improvement Needed
Distribution Center C	Atlanta, GA	77.1%	1,629	2,321	95.4%	64.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	96.2%	1,379	3,148	95.6%	75.7%	Improvement Needed
Distribution Center E	Newark, NJ	99.0%	2,316	3,496	97.5%	72.3%	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