

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 68.2%
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	70.3%	1,034	2,834	96.8%	67.4%	Improvement Needed
Distribution Center B	Dallas, TX	44.2%	1,843	2,715	95.9%	61.2%	Improvement Needed
Distribution Center C	Atlanta, GA	83.7%	1,484	1,686	95.9%	66.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.0%	2,938	1,917	97.2%	68.3%	Improvement Needed
Distribution Center E	Newark, NJ	79.4%	2,449	2,973	97.3%	77.2%	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