

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 69.0%
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	104.0%	2,672	2,044	96.9%	69.3%	Improvement Needed
Distribution Center B	Dallas, TX	92.9%	2,122	1,815	95.2%	67.7%	Improvement Needed
Distribution Center C	Atlanta, GA	72.2%	2,365	1,708	98.5%	65.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	80.4%	2,862	3,041	96.5%	75.7%	Improvement Needed
Distribution Center E	Newark, NJ	53.5%	1,308	3,216	99.0%	66.8%	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