

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 73.3%
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	87.4%	1,588	2,139	98.7%	94.8%	Optimized
	Dallas, TX	64.7%	2,338	1,990	98.9%	70.4%	Improvement Needed
Distribution Center B	Atlanta, GA	57.8%	2,407	3,847	97.1%	64.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	40.9%	2,262	1,580	95.6%	70.9%	Improvement Needed
Distribution Center E	Newark, NJ	127.8%	2,076	2,454	97.2%	65.8%	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