

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 21
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	119.9%	2,614	3,477	96.1%	84.4%	Optimized
	Dallas, TX	104.9%	2,409	3,738	97.9%	68.9%	Improvement Needed
Distribution Center B	Atlanta, GA	74.0%	1,101	1,775	99.0%	76.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	54.6%	1,229	3,087	96.5%	62.4%	Improvement Needed
Distribution Center E	Newark, NJ	83.1%	1,771	1,944	96.3%	63.8%	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