

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 14
Average Utilization: 79.8%
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	90.7%	1,825	3,910	99.4%	68.0%	Improvement Needed
Distribution Center B	Dallas, TX	132.7%	2,787	2,621	99.1%	67.8%	Improvement Needed
Distribution Center C	Atlanta, GA	58.6%	2,026	2,089	95.1%	85.4%	Optimized
Distribution Center D	Los Angeles, CA	62.0%	1,542	2,887	95.5%	92.5%	Optimized
Distribution Center E	Newark, NJ	111.9%	2,016	1,575	95.0%	85.1%	Optimized

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