

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 69.8%
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	96.1%	1,853	3,113	98.3%	67.1%	Improvement Needed
Distribution Center B	Dallas, TX	35.6%	1,306	1,895	95.2%	75.2%	Improvement Needed
Distribution Center C	Atlanta, GA	62.5%	2,422	3,894	95.4%	61.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	81.7%	2,037	2,961	97.4%	78.9%	Improvement Needed
Distribution Center E	Newark, NJ	97.0%	1,566	2,547	97.9%	66.0%	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