

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: 68.1%
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	58.8%	1,776	3,077	96.3%	66.7%	Improvement Needed
Distribution Center B	Dallas, TX	78.8%	2,863	3,919	98.5%	75.5%	Improvement Needed
Distribution Center C	Atlanta, GA	91.5%	2,915	3,699	99.5%	68.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	107.2%	2,799	1,869	97.2%	68.6%	Improvement Needed
Distribution Center E	Newark, NJ	51.8%	2,940	2,282	96.2%	60.7%	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