

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 70.2%
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	47.3%	1,625	2,004	96.8%	62.3%	Improvement Needed
Distribution Center B	Dallas, TX	70.1%	1,185	1,504	97.0%	60.4%	Improvement Needed
Distribution Center C	Atlanta, GA	39.5%	2,273	3,268	99.3%	71.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	88.8%	1,943	3,254	95.7%	92.5%	Optimized
Distribution Center E	Newark, NJ	58.1%	2,848	1,707	96.1%	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