

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 24
Average Utilization: 68.9%
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	64.9%	2,899	2,358	97.5%	63.2%	Improvement Needed
Distribution Center B	Dallas, TX	95.4%	1,696	2,911	98.2%	63.8%	Improvement Needed
Distribution Center C	Atlanta, GA	64.8%	1,897	3,208	96.4%	76.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	61.4%	2,883	1,629	98.0%	61.5%	Improvement Needed
Distribution Center E	Newark, NJ	122.6%	2,288	2,066	99.0%	79.5%	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