

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 81.9%
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	72.9%	1,124	3,743	96.7%	81.8%	Optimized
	Dallas, TX	92.9%	2,908	2,117	99.3%	81.8%	Optimized
Distribution Center B	Atlanta, GA	50.3%	2,103	3,295	97.4%	82.6%	Optimized
Distribution Center C	Los Angeles, CA	89.0%	1,470	2,530	96.7%	81.4%	Optimized
Distribution Center D	Newark, NJ	58.4%	2,539	3,388	95.1%	82.0%	Optimized
Center E							

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