

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 26
Average Utilization: 91.4%
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	101.5%	2,229	2,695	97.5%	90.8%	Optimized
	Dallas, TX	49.9%	1,845	3,085	97.4%	89.4%	Optimized
	Atlanta, GA	71.4%	2,522	3,480	99.1%	92.4%	Optimized
	Los Angeles, CA	104.0%	1,586	2,362	95.1%	89.8%	Optimized
	Newark, NJ	48.8%	2,189	3,295	95.1%	94.6%	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