

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 79.7%
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	48.7%	1,735	1,732	99.2%	94.6%	Optimized
	Dallas, TX	60.5%	2,086	2,127	97.4%	91.9%	Optimized
	Atlanta, GA	84.2%	2,683	2,103	98.3%	61.7%	Improvement Needed
Distribution Center B	Los Angeles, CA	58.1%	1,505	3,390	96.0%	69.1%	Improvement Needed
Distribution Center C	Newark, NJ	34.6%	2,336	1,586	95.8%	81.5%	Optimized

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