

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 73.6%
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 Status		
Distribution Center A	Chicago, IL	57.6%	1,720	2,782	99.4%	82.1%	Optimized	
	Dallas, TX	79.4%	1,143	2,563	99.5%	68.9%	Improvement Needed	
Distribution Center B		Atlanta, GA	106.2%	1,074	2,672	97.0%	77.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	41.0%	1,106	3,102	96.2%	67.5%	Improvement Needed	
Distribution Center E	Newark, NJ	61.8%	1,806	1,736	97.6%	71.7%	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