

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 71
Average Utilization: 71.5%
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	64.4%	1,675	3,206	98.0%	86.8%	Optimized
	Dallas, TX	66.2%	2,388	1,807	97.7%	75.5%	Improvement Needed
Distribution Center B	Atlanta, GA	34.5%	1,149	2,229	98.3%	61.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	61.8%	1,000	3,229	97.9%	73.0%	Improvement Needed
Distribution Center E	Newark, NJ	83.9%	1,875	2,052	97.6%	60.7%	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