

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 72
Average Utilization: 79.4%
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 Status	
Distribution Center A	Chicago, IL	68.0%	2,443	1,616	99.0%	91.0%	Optimized
	Dallas, TX	56.4%	2,504	2,220	98.0%	71.8%	Improvement Needed
Distribution Center B	Atlanta, GA	45.5%	1,384	2,789	97.3%	61.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	54.5%	2,062	3,157	98.2%	82.1%	Optimized
Distribution Center E	Newark, NJ	61.7%	2,150	2,233	96.6%	90.3%	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