

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 79.8%
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	43.2%	1,997	3,491	96.3%	82.3%	Optimized
	Dallas, TX	60.8%	2,506	3,849	95.5%	75.7%	Improvement Needed
Distribution Center B	Atlanta, GA	76.0%	1,992	1,822	96.9%	61.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.2%	2,023	2,301	99.0%	92.5%	Optimized
Distribution Center E	Newark, NJ	72.0%	2,516	3,149	96.2%	87.1%	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