

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 78.4%
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 Level	Status
Distribution Center A	Chicago, IL	113.6%	1,355	3,874	95.2%	86.0%	Optimized
	Dallas, TX	68.1%	2,747	3,677	95.8%	84.3%	Optimized
Distribution Center B	Atlanta, GA	124.2%	1,079	2,127	96.1%	68.1%	Improvement Needed
Distribution Center C	Los Angeles, CA	58.5%	2,413	1,833	95.3%	88.4%	Optimized
Distribution Center D	Newark, NJ	64.0%	1,174	2,529	98.8%	65.4%	Improvement Needed
Distribution Center E							

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