

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 82.3%
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	59.5%	1,238	1,868	96.9%	83.3%	Optimized
	Dallas, TX	59.8%	2,480	2,404	99.1%	78.1%	Improvement Needed
Distribution Center B	Atlanta, GA	59.6%	2,504	1,945	96.1%	84.4%	Optimized
Distribution Center C	Los Angeles, CA	51.0%	2,123	2,313	96.1%	88.8%	Optimized
Distribution Center D	Newark, NJ	59.9%	1,851	2,679	99.0%	76.9%	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