

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 82.7%
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	97.7%	2,068	3,540	97.6%	94.9%	Optimized
	Dallas, TX	54.1%	2,518	2,092	96.6%	63.1%	Improvement Needed
Distribution Center B	Atlanta, GA	71.4%	2,922	1,601	95.2%	90.2%	Optimized
Distribution Center C	Los Angeles, CA	63.5%	1,512	3,270	99.4%	94.1%	Optimized
Distribution Center D	Newark, NJ	48.2%	2,744	1,537	97.0%	71.4%	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