

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 81.7%
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	70.6%	1,144	3,704	98.9%	89.6%	Optimized
	Dallas, TX	55.8%	2,865	3,601	96.1%	73.3%	Improvement Needed
Distribution Center B	Atlanta, GA	65.6%	1,443	1,553	96.2%	86.5%	Optimized
Distribution Center C	Los Angeles, CA	70.0%	2,970	2,851	99.1%	68.9%	Improvement Needed
	Newark, NJ	50.4%	2,791	2,384	95.3%	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