

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 81.0%
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	66.3%	2,748	2,629	95.5%	92.9%	Optimized
	Dallas, TX	62.4%	1,057	3,118	96.4%	61.0%	Improvement Needed
Distribution Center B	Atlanta, GA	126.6%	1,566	3,995	96.4%	83.1%	Optimized
Distribution Center C	Los Angeles, CA	55.1%	1,588	2,877	99.1%	74.1%	Improvement Needed
	Newark, NJ	76.9%	2,585	3,322	98.3%	93.8%	Optimized
Distribution Center D							
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