

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 79.1%
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	50.0%	2,196	2,244	96.1%	83.5%	Optimized
	Dallas, TX	57.9%	2,286	2,753	95.9%	60.6%	Improvement Needed
Distribution Center B	Atlanta, GA	86.4%	1,245	2,233	97.0%	93.1%	Optimized
Distribution Center C	Los Angeles, CA	53.4%	1,842	1,780	97.9%	73.7%	Improvement Needed
	Newark, NJ	35.4%	1,270	2,751	99.2%	84.5%	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