

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 75.1%
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	53.4%	2,523	3,463	99.2%	84.0%	Optimized
	Dallas, TX	79.8%	1,253	3,586	95.0%	64.0%	Improvement Needed
Distribution Center B	Atlanta, GA	40.4%	2,682	2,139	96.6%	62.5%	Improvement Needed
Distribution Center C	Los Angeles, CA	63.1%	2,229	3,152	97.6%	83.3%	Optimized
Distribution Center D	Newark, NJ	111.0%	1,772	3,709	99.1%	81.9%	Optimized
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