

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 22
Average Utilization: 73.5%
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	65.4%	1,663	2,689	99.5%	90.6%	Optimized
	Dallas, TX	77.3%	2,158	2,390	98.0%	68.5%	Improvement Needed
Distribution Center B	Atlanta, GA	66.8%	2,539	2,119	97.7%	85.6%	Optimized
Distribution Center C	Los Angeles, CA	120.6%	1,593	2,777	95.2%	60.9%	Improvement Needed
	Newark, NJ	67.8%	2,128	3,709	95.3%	61.8%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement AI-driven inventory tracking in Warehouse 1

ment voice-
picking
system to
improve
accuracy to
99.8%

- Upgra
de WMS
integration
for real-time
inventory
visibility

- Add au
tomated
sortation
system for
small
package
handling

- Imple
ment
predictive
analytics for
demand-
based
staffing

- Consid
er AS/RS
system for
high-
velocity
SKUs