

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:06:17 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 72.4%
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	81.4%	2,275	3,532	96.6%	86.5%	Optimized
	Dallas, TX	56.2%	1,150	2,364	97.2%	60.1%	Improvement Needed
Distribution Center B	Atlanta, GA	69.9%	1,624	3,781	96.5%	80.6%	Optimized
Distribution Center C	Los Angeles, CA	102.1%	2,783	1,562	96.3%	62.4%	Improvement Needed
	Newark, NJ	38.6%	2,096	3,428	99.0%	72.2%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

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