

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:05:40 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 75.0%
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	57.3%	1,776	3,243	96.5%	83.5%	Optimized
	Dallas, TX	48.0%	2,867	1,529	98.0%	86.0%	Optimized
Distribution Center B	Atlanta, GA	60.6%	1,684	2,918	98.6%	62.7%	Improvement Needed
Distribution Center C	Los Angeles, CA	56.8%	2,347	3,328	95.3%	75.4%	Improvement Needed
Distribution Center D	Newark, NJ	94.5%	2,660	2,844	99.1%	67.6%	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