

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:00:57 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 77.9%
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 Status	
Distribution Center A	Chicago, IL	59.5%	1,661	2,985	97.2%	83.3%	Optimized
	Dallas, TX	72.1%	2,480	1,944	97.9%	78.2%	Improvement Needed
Distribution Center B		Atlanta, GA	40.2%	1,287	2,593	97.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	76.5%	1,138	2,605	97.3%	90.7%	Optimized
	Newark, NJ	57.2%	2,317	3,693	99.1%	64.2%	Improvement Needed
Distribution Center E							

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