

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:28 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 75.7%
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	83.8%	2,475	2,288	96.0%	90.8%	Optimized
	Dallas, TX	135.6%	2,210	3,123	97.3%	84.8%	Optimized
	Atlanta, GA	39.9%	1,919	1,526	98.7%	69.0%	Improvement Needed
Distribution Center B	Los Angeles, CA	85.3%	2,286	2,654	95.1%	61.0%	Improvement Needed
Distribution Center C	Newark, NJ	55.0%	2,939	2,495	95.6%	72.7%	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