

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:08:45 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 75.5%
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	45.3%	1,413	2,457	96.0%	68.0%	Improvement Needed
Distribution Center B	Dallas, TX	39.3%	2,616	2,786	97.9%	94.3%	Optimized
Distribution Center C	Atlanta, GA	119.2%	2,319	3,733	97.7%	60.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	71.0%	2,352	2,474	96.5%	87.3%	Optimized
Distribution Center E	Newark, NJ	100.8%	1,504	2,243	98.0%	67.2%	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