

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:04:59 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 78.1%
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	56.6%	2,316	3,533	98.8%	66.3%	Improvement Needed
Distribution Center B	Dallas, TX	66.5%	1,316	3,851	98.3%	73.3%	Improvement Needed
Distribution Center C	Atlanta, GA	88.8%	1,902	1,541	99.1%	69.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	51.4%	1,096	2,007	96.2%	88.4%	Optimized
Distribution Center E	Newark, NJ	55.6%	2,785	3,190	98.3%	92.9%	Optimized

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