

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:02:57 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 78.9%
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 Level	Status
Distribution Center A	Chicago, IL	58.8%	1,361	2,275	99.2%	93.7%	Optimized
	Dallas, TX	94.4%	2,474	2,225	97.4%	79.9%	Improvement Needed
Distribution Center B	Atlanta, GA	56.5%	1,881	2,129	96.7%	80.0%	Optimized
Distribution Center C	Los Angeles, CA	42.7%	2,218	2,247	96.3%	69.0%	Improvement Needed
Distribution Center D	Newark, NJ	55.0%	2,795	2,830	95.9%	71.7%	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