

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:19 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 71.7%
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 Status	
Distribution Center A	Chicago, IL	72.4%	1,737	2,794	99.4%	85.4%	Optimized
	Dallas, TX	51.8%	2,947	2,497	96.2%	64.0%	Improvement Needed
Distribution Center B	Atlanta, GA	56.7%	2,264	2,167	97.2%	62.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	88.8%	1,644	1,941	99.1%	63.4%	Improvement Needed
Distribution Center E	Newark, NJ	58.6%	1,199	2,572	96.5%	83.8%	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