

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:44 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 79.4%
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	63.6%	2,970	3,513	96.5%	88.9%	Optimized
	Dallas, TX	36.8%	1,634	3,963	97.5%	67.5%	Improvement Needed
Distribution Center B	Atlanta, GA	43.3%	1,713	3,014	96.1%	73.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	96.5%	1,810	3,181	95.0%	73.6%	Improvement Needed
Distribution Center E	Newark, NJ	77.7%	2,477	1,692	98.1%	94.1%	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