

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:07:19 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 25
Average Utilization: 78.2%
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	43.3%	1,939	1,599	97.3%	90.1%	Optimized
	Dallas, TX	40.4%	1,058	3,909	97.7%	68.3%	Improvement Needed
Distribution Center B	Atlanta, GA	103.6%	1,820	2,167	95.4%	72.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	70.5%	1,921	3,899	99.1%	87.4%	Optimized
Distribution Center E	Newark, NJ	71.4%	1,804	1,688	97.2%	72.4%	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