

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: 26
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 Level	Status
Distribution Center A	Chicago, IL	107.0%	2,299	1,923	97.5%	84.2%	Optimized
	Dallas, TX	71.2%	2,224	2,236	98.8%	88.3%	Optimized
Distribution Center B	Atlanta, GA	51.3%	1,376	1,822	95.0%	78.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.5%	1,079	2,878	98.4%	69.4%	Improvement Needed
Distribution Center E	Newark, NJ	73.2%	1,945	3,969	98.5%	71.2%	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