

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:05:02 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 76
Average Utilization: 75.0%
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	56.8%	1,034	3,004	96.2%	65.9%	Improvement Needed
Distribution Center B	Dallas, TX	104.7%	1,543	3,908	98.0%	92.3%	Optimized
Distribution Center C	Atlanta, GA	62.0%	1,168	1,844	97.1%	94.1%	Optimized
Distribution Center D	Los Angeles, CA	46.6%	1,573	2,189	95.7%	62.0%	Improvement Needed
Distribution Center E	Newark, NJ	55.8%	2,262	2,136	98.8%	60.7%	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