

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:06:42 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 75.5%
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	63.7%	1,022	2,641	95.6%	64.5%	Improvement Needed
Distribution Center B	Dallas, TX	107.3%	2,805	1,666	99.0%	91.1%	Optimized
Distribution Center C	Atlanta, GA	46.6%	2,532	1,788	95.6%	76.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	66.6%	2,319	3,437	96.2%	80.4%	Optimized
Distribution Center E	Newark, NJ	49.6%	2,448	2,978	99.4%	65.4%	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