

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:05:48 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 76
Average Utilization: 79.6%
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	78.9%	2,953	3,760	95.4%	66.7%	Improvement Needed
Distribution Center B	Dallas, TX	46.8%	1,918	3,334	96.0%	76.3%	Improvement Needed
Distribution Center C	Atlanta, GA	64.4%	1,125	3,970	95.9%	77.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	49.0%	2,623	1,831	98.1%	88.2%	Optimized
Distribution Center E	Newark, NJ	55.1%	2,970	3,275	96.7%	89.0%	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