

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:08:14 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 80.1%
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	51.5%	2,646	3,631	95.7%	71.5%	Improvement Needed
Distribution Center B	Dallas, TX	60.9%	2,708	1,977	98.9%	94.9%	Optimized
Distribution Center C	Atlanta, GA	63.5%	2,690	2,429	95.8%	79.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.9%	1,597	2,398	98.0%	60.1%	Improvement Needed
Distribution Center E	Newark, NJ	67.3%	2,853	3,102	96.4%	94.8%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for automated systems

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