

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:05:35 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 67
Average Utilization: 76.7%
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	88.1%	2,611	3,592	99.4%	62.1%	Improvement Needed
Distribution Center B	Dallas, TX	38.6%	1,500	1,731	96.5%	92.1%	Optimized
Distribution Center C	Atlanta, GA	65.9%	2,823	2,653	95.5%	68.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	44.3%	2,852	2,471	95.8%	72.3%	Improvement Needed
Distribution Center E	Newark, NJ	70.4%	2,849	3,826	95.2%	88.5%	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