

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:02:35 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 73.6%
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	36.3%	2,681	2,182	95.1%	63.5%	Improvement Needed
Distribution Center B	Dallas, TX	125.2%	1,264	2,243	98.7%	69.9%	Improvement Needed
Distribution Center C	Atlanta, GA	73.7%	2,572	2,701	97.0%	61.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	77.9%	2,538	3,115	96.5%	84.2%	Optimized
Distribution Center E	Newark, NJ	84.3%	2,322	2,446	98.1%	89.3%	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