

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:00:53 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 79.5%
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	66.6%	1,763	2,020	96.3%	72.7%	Improvement Needed
Distribution Center B	Dallas, TX	54.9%	2,979	3,312	99.3%	93.3%	Optimized
Distribution Center C	Atlanta, GA	52.7%	2,247	3,025	98.3%	69.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	102.0%	2,088	3,952	96.2%	79.3%	Improvement Needed
Distribution Center E	Newark, NJ	39.7%	1,651	1,688	95.5%	82.8%	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