

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:05:24 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 78.0%
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	73.2%	2,895	1,856	95.1%	77.7%	Improvement Needed
Distribution Center B	Dallas, TX	96.1%	1,116	3,658	98.4%	64.0%	Improvement Needed
Distribution Center C	Atlanta, GA	100.0%	2,025	1,692	98.4%	64.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.4%	1,804	1,661	99.5%	89.7%	Optimized
Distribution Center E	Newark, NJ	93.2%	1,048	3,989	96.1%	93.9%	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