

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:00:54 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 26
Average Utilization: 78.7%
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	63.2%	2,236	1,865	95.6%	80.0%	Improvement Needed
Distribution Center B	Dallas, TX	53.9%	1,472	2,014	96.6%	63.6%	Improvement Needed
Distribution Center C	Atlanta, GA	39.9%	2,349	3,964	95.9%	65.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	111.8%	1,017	2,798	96.4%	92.0%	Optimized
Distribution Center E	Newark, NJ	60.7%	1,226	2,336	97.2%	92.9%	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