

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:02:11 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 73.2%
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	74.4%	1,826	3,447	97.6%	85.0%	Optimized
	Dallas, TX	69.4%	2,813	1,827	95.0%	64.2%	Improvement Needed
Distribution Center B	Atlanta, GA	90.6%	2,735	3,410	95.4%	88.3%	Optimized
Distribution Center C	Los Angeles, CA	90.2%	1,739	1,759	98.9%	67.7%	Improvement Needed
	Newark, NJ	70.0%	2,948	3,623	96.7%	60.5%	Improvement Needed

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