

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:05:20 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 77.4%
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%	2,877	2,800	97.0%	90.2%	Optimized
	Dallas, TX	85.2%	1,620	3,240	96.6%	73.1%	Improvement Needed
Distribution Center B	Atlanta, GA	65.4%	2,808	3,434	98.6%	90.1%	Optimized
Distribution Center C	Los Angeles, CA	47.2%	1,380	2,197	97.3%	66.9%	Improvement Needed
	Newark, NJ	76.4%	2,865	2,109	98.0%	66.9%	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