

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:00:32 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 66
Average Utilization: 71.7%
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	46.2%	1,719	3,605	98.5%	86.3%	Optimized
	Dallas, TX	61.5%	2,978	2,705	98.7%	65.1%	Improvement Needed
Distribution Center B	Atlanta, GA	55.3%	2,984	3,505	95.6%	81.9%	Optimized
Distribution Center C	Los Angeles, CA	48.9%	2,771	1,795	97.0%	60.9%	Improvement Needed
	Newark, NJ	79.3%	1,800	2,987	95.2%	64.5%	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