

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:00:45 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 77.0%
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	68.9%	2,105	1,666	95.9%	88.9%	Optimized
	Dallas, TX	105.0%	2,600	3,746	98.9%	74.7%	Improvement Needed
Distribution Center B	Atlanta, GA	60.5%	2,908	2,082	97.1%	80.1%	Optimized
Distribution Center C	Los Angeles, CA	66.6%	2,967	1,534	95.6%	72.5%	Improvement Needed
Distribution Center D	Newark, NJ	100.4%	2,945	2,493	98.3%	68.9%	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