

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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

Automation Overview

Total Warehouses: 5
Total Robots: 20
Average Utilization: 75.9%
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 Status	
Distribution Center A	Chicago, IL	93.5%	1,424	3,939	97.3%	81.6%	Optimized
	Dallas, TX	63.7%	2,532	2,301	96.0%	73.8%	Improvement Needed
Distribution Center B	Atlanta, GA	53.9%	2,258	2,869	98.0%	62.4%	Improvement Needed
Distribution Center C	Los Angeles, CA	67.0%	2,096	3,089	97.7%	90.1%	Optimized
Distribution Center D	Newark, NJ	69.6%	1,536	2,949	97.4%	71.7%	Improvement Needed
Distribution Center E							

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for robotic arms

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