

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:08:06 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 74.3%
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	42.6%	2,315	3,376	97.4%	84.9%	Optimized
	Dallas, TX	48.9%	2,247	2,787	96.4%	60.7%	Improvement Needed
Distribution Center B	Atlanta, GA	65.8%	2,373	2,142	95.8%	76.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	46.2%	2,160	2,852	95.5%	82.8%	Optimized
Distribution Center E	Newark, NJ	72.5%	2,693	1,635	96.5%	67.3%	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