

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:35 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 79.8%
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	84.8%	1,722	2,028	95.3%	74.8%	Improvement Needed
Distribution Center B	Dallas, TX	130.9%	1,626	2,370	95.0%	62.7%	Improvement Needed
Distribution Center C	Atlanta, GA	39.7%	2,638	3,016	95.2%	93.8%	Optimized
Distribution Center D	Los Angeles, CA	61.5%	1,254	2,024	95.4%	73.4%	Improvement Needed
Distribution Center E	Newark, NJ	66.9%	1,747	3,325	98.5%	94.3%	Optimized

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