

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:04:12 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 79.0%
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	35.9%	2,974	2,686	99.2%	69.6%	Improvement Needed
Distribution Center B	Dallas, TX	78.4%	1,318	3,229	97.6%	94.9%	Optimized
Distribution Center C	Atlanta, GA	98.2%	2,615	2,907	97.6%	77.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	44.9%	1,016	1,740	99.3%	82.4%	Optimized
Distribution Center E	Newark, NJ	112.9%	1,658	3,543	98.9%	70.2%	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