

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:41 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 78.5%
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	69.8%	1,042	1,737	99.5%	73.0%	Improvement Needed
Distribution Center B	Dallas, TX	90.0%	1,131	3,274	98.5%	72.8%	Improvement Needed
Distribution Center C	Atlanta, GA	78.9%	2,200	3,945	97.1%	91.3%	Optimized
Distribution Center D	Los Angeles, CA	62.7%	1,209	2,267	98.4%	67.7%	Improvement Needed
Distribution Center E	Newark, NJ	85.5%	1,403	3,655	97.7%	87.8%	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