

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:03:41 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 82.0%
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	55.4%	1,661	2,108	96.5%	87.6%	Optimized
	Dallas, TX	55.6%	2,381	3,046	97.7%	94.7%	Optimized
Distribution Center B	Atlanta, GA	32.7%	2,599	1,928	97.3%	79.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	78.6%	2,956	2,147	95.3%	78.7%	Improvement Needed
Distribution Center E	Newark, NJ	43.8%	2,669	2,263	96.9%	69.4%	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