

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:05 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 28
Average Utilization: 76.7%
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	58.2%	2,408	3,408	98.7%	88.8%	Optimized
	Dallas, TX	110.9%	2,529	1,539	95.3%	68.6%	Improvement Needed
Distribution Center B	Atlanta, GA	93.2%	2,193	3,783	96.9%	76.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	38.7%	2,939	2,855	95.6%	66.2%	Improvement Needed
Distribution Center E	Newark, NJ	42.6%	2,386	3,436	95.3%	83.3%	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