

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:04:08 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 76.8%
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	71.8%	1,894	1,652	95.1%	84.7%	Optimized
	Dallas, TX	58.6%	1,980	1,510	95.3%	78.6%	Improvement Needed
Distribution Center B	Atlanta, GA	100.4%	1,628	2,093	95.6%	61.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	70.8%	2,569	2,977	96.9%	73.7%	Improvement Needed
Distribution Center E	Newark, NJ	85.6%	1,442	3,463	95.8%	85.3%	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