

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:04:16 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 75.6%
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	65.9%	2,802	2,285	99.3%	67.5%	Improvement Needed
Distribution Center B	Dallas, TX	78.9%	2,981	3,132	99.1%	75.9%	Improvement Needed
Distribution Center C	Atlanta, GA	39.4%	2,773	1,673	99.2%	92.4%	Optimized
Distribution Center D	Los Angeles, CA	68.7%	1,536	1,729	96.5%	61.5%	Improvement Needed
Distribution Center E	Newark, NJ	117.8%	2,811	1,798	96.0%	80.9%	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