

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:06:21 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 77.9%
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	32.3%	2,724	2,752	97.5%	72.0%	Improvement Needed
Distribution Center B	Dallas, TX	116.6%	1,556	2,593	98.3%	75.2%	Improvement Needed
Distribution Center C	Atlanta, GA	113.3%	1,018	1,606	98.5%	65.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	51.6%	1,956	3,645	96.2%	94.4%	Optimized
Distribution Center E	Newark, NJ	66.0%	2,837	2,078	98.5%	82.4%	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