

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:20 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 77.4%
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	66.2%	2,993	1,786	97.5%	65.5%	Improvement Needed
Distribution Center B	Dallas, TX	64.3%	1,939	2,434	97.8%	71.6%	Improvement Needed
Distribution Center C	Atlanta, GA	100.7%	1,631	3,438	98.8%	75.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	111.5%	2,694	3,837	96.7%	89.6%	Optimized
Distribution Center E	Newark, NJ	56.5%	1,795	3,766	99.0%	85.0%	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