

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:00:45 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 79.1%
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	48.6%	2,773	1,655	97.7%	74.4%	Improvement Needed
Distribution Center B	Dallas, TX	89.3%	1,224	3,896	95.7%	92.9%	Optimized
Distribution Center C	Atlanta, GA	43.4%	1,661	2,982	96.4%	76.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	48.9%	2,744	2,705	97.8%	61.7%	Improvement Needed
Distribution Center E	Newark, NJ	55.4%	1,232	2,906	96.9%	90.6%	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