

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:03:46 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 16
Average Utilization: 73.6%
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	84.1%	1,366	3,404	99.0%	68.6%	Improvement Needed
Distribution Center B	Dallas, TX	45.1%	1,488	1,957	95.7%	63.2%	Improvement Needed
Distribution Center C	Atlanta, GA	69.4%	1,327	3,786	96.5%	63.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.5%	2,586	3,622	97.0%	84.8%	Optimized
Distribution Center E	Newark, NJ	55.6%	1,637	2,694	95.1%	88.0%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for all automated systems

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