

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:02:53 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 74.5%
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	55.0%	1,488	3,817	96.9%	80.9%	Optimized
	Dallas, TX	48.0%	1,166	1,859	97.5%	61.3%	Improvement Needed
Distribution Center B	Atlanta, GA	52.9%	2,091	2,025	96.3%	77.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	45.4%	1,850	1,752	95.6%	68.1%	Improvement Needed
Distribution Center E	Newark, NJ	62.0%	2,095	3,814	96.5%	84.3%	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