Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:27 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 41

Average Utilization: 75.7% 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	n Status
Distribution Chicago, IL Center A	69.9%	1,068	2,088	99.1%	78.7%	Improvemen t Needed
Distribution Dallas, TX Center B	49.3%	1,330	2,595	97.3%	79.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	40.5%	2,975	3,595	97.7%	70.0%	Improvemen t Needed
Distribution Los	67.2%	1,316	3,159	97.2%	84.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 44.3%	1,689	3,440	99.1%	66.5%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%

- Imple ment voicepicking 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 highvelocity SKUs