Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:31 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 50

Average Utilization: 70.9% 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	nStatus
Distribution Chicago, IL Center A	59.9%	2,501	3,720	95.3%	75.1%	Improvemen t Needed
Distribution Dallas, TX Center B	69.1%	1,166	3,454	96.7%	67.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	48.6%	1,091	2,231	98.3%	61.6%	Improvemen t Needed
Distribution Los	59.8%	1,589	3,557	96.1%	81.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 47.3%	2,007	3,132	95.8%	68.2%	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