Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:33 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 55

Average Utilization: 72.5% 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 Status Level	
	Distribution Chicago, IL	80.6%	1,078	2,878	98.2%	94.7%	Optimized
	Center A Distribution Dallas, TX Center B	39.4%	1,051	2,141	95.6%	61.4%	Improvemen t Needed
	Distribution Atlanta, GA Center C	65.4%	1,748	3,275	97.2%	72.9%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	82.4% \	1,274	2,454	97.8%	71.3%	Improvemen t Needed
	Distribution Newark, NJ Center E	71.5%	2,852	3,881	99.2%	61.9%	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