Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:16 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 49

Average Utilization: 73.9% 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 Status Level	
Distribution Chicago, Center A	L 59.8%	2,482	3,000	96.3%	62.2%	Improvemen t Needed
Distribution Dallas, TX Center B	52.8%	2,639	1,580	96.3%	73.9%	Improvemen t Needed
Distribution Atlanta, G	A 38.7%	1,031	2,556	97.9%	88.3%	Optimized
Center C Distribution Los Center D Angeles, (62.8% CA	2,828	1,933	97.3%	79.4%	Improvemen t Needed
Distribution Newark, N Center E	IJ 71.0%	1,751	2,131	98.0%	65.9%	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