Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:45 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 24

Average Utilization: 72.9% 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, IL Center A	83.1%	2,610	2,106	97.7%	77.3%	Improvemen t Needed
Distribution Dallas, TX Center B	89.5%	1,758	3,166	98.7%	64.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	47.7%	1,777	1,677	97.6%	61.5%	Improvemen t Needed
Distribution Los	83.9%	2,335	3,329	96.2%	94.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 58.6%	1,131	1,578	95.9%	66.8%	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