Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:48 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44

Average Utilization: 71.9% 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	n Status
Distribution Chicago, IL Center A	126.9%	2,212	1,901	95.9%	62.7%	Improvemen t Needed
Distribution Dallas, TX Center B	57.8%	1,524	3,976	96.3%	62.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	83.5%	2,254	2,713	97.3%	72.0%	Improvemen t Needed
Distribution Los	52.5%	1,956	3,420	97.9%	88.0%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	72.3%	2,667	2,490	99.1%	74.1%	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