Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:14 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 23

Average Utilization: 71.1% 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	64.2%	2,073	1,557	97.6%	61.4%	Improvemen t Needed
Distribution Dallas, TX Center B	71.1%	1,935	3,711	98.0%	65.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	79.5%	2,589	2,705	96.9%	68.9%	Improvemen t Needed
Distribution Los	91.3%	2,463	2,961	96.9%	89.6%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	¹ 102.5%	2,819	3,321	98.1%	70.7%	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