Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:46 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 47

Average Utilization: 72.2% 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	70.0%	1,835	3,698	96.3%	62.1%	Improvemen t Needed
Distribution Dallas, TX Center B	80.3%	2,175	3,784	99.1%	75.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	70.8%	1,092	1,988	99.4%	72.0%	Improvemen t Needed
Distribution Los	57.5%	2,878	3,657	95.9%	83.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 53.4%	1,426	1,500	99.2%	67.2%	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