Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:31 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 41

Average Utilization: 72.6% 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	78.5%	1,240	1,779	95.0%	66.5%	Improvemen t Needed
Distribution Dallas, TX Center B	99.6%	2,588	1,579	96.5%	68.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	108.2%	1,968	2,933	97.7%	66.1%	Improvemen t Needed
Distribution Los	68.0%	1,417	3,807	95.4%	93.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 70.7%	2,448	3,418	96.1%	68.4%	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