Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:06 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44

Average Utilization: 81.0% 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	50.9%	2,877	2,696	97.2%	76.3%	Improvemen t Needed
Distribution Dallas, TX Center B	70.5%	2,650	3,412	99.3%	79.1%	Improvemen t Needed
Distribution Atlanta, GA	137.6%	2,466	1,504	95.9%	87.6%	Optimized
Center C Distribution Los	76.5%	1,065	3,626	97.3%	85.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 67.1%	1,317	1,903	96.2%	76.6%	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