Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:39 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 31

Average Utilization: 74.4% 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	91.4%	1,556	2,519	96.2%	62.8%	Improvemen t Needed
Distribution Dallas, TX Center B	86.4%	2,497	2,030	97.6%	75.1%	Improvemen t Needed
Distribution Atlanta, GA	88.4%	1,094	2,394	99.0%	83.6%	Optimized
Center C Distribution Los	63.8%	1,287	2,894	98.8%	81.3%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 33.7%	1,982	1,955	97.0%	69.0%	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