Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:26 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53

Average Utilization: 79.9% 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	66.9%	1,467	1,578	96.4%	68.3%	Improvemen t Needed
Distribution Dallas, TX	80.3%	2,792	3,553	97.4%	85.2%	Optimized
Center B Distribution Atlanta, GA	47.6%	1,285	2,324	99.0%	85.0%	Optimized
Center C Distribution Los	76.6%	1,757	3,913	98.5%	94.1%	Optimized
Center E Angeles, CA Center E	^A 56.0%	1,125	2,561	99.4%	66.9%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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