Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:40 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 67

Average Utilization: 80.4% 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	43.3%	2,146	2,464	97.7%	64.8%	Improvemen t Needed
Distribution Dallas, TX	96.5%	2,362	2,674	99.0%	92.8%	Optimized
Center B Distribution Atlanta, GA	63.5%	2,134	2,210	98.6%	81.3%	Optimized
Center C Distribution Los	92.3%	2,316	3,515	96.8%	93.6%	Optimized
Center E Angeles, CA Center E	^A 67.8%	2,424	2,945	99.2%	69.6%	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