Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:59 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 67

Average Utilization: 83.0% 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		2,279	2,118	97.4%	81.7%	Optimized
Center A Distribution Dallas, TX Center B	106.1%	2,381	3,504	96.8%	77.9%	Improvemen t Needed
Distribution Atlanta, GA	93.7%	1,656	2,930	96.5%	92.1%	Optimized
Center C Distribution Los	64.5%	1,814	1,910	99.3%	88.7%	Optimized
Center E Angeles, CA Center E	^A 82.1%	2,528	3,088	97.8%	74.6%	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