Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:45 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 57

Average Utilization: 78.2% 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	71.8%	1,521	3,417	95.2%	86.9%	Optimized
Center A Distribution Dallas, TX Center B	50.0%	1,456	3,984	96.7%	67.3%	Improvemen t Needed
Distribution Atlanta, GA	71.6%	2,952	3,704	98.7%	84.8%	Optimized
Center C Distribution Los	41.4%	1,554	2,727	98.2%	81.9%	Optimized
Center E Angeles, Content E	⁴ 40.1%	2,479	3,969	95.5%	70.1%	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