Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:29 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 49

Average Utilization: 79.2% 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	63.9%	2,100	1,876	95.6%	82.9%	Optimized
Center A Distribution Dallas, TX Center B	58.0%	2,672	2,952	97.5%	70.3%	Improvemen t Needed
Distribution Atlanta, GA	113.5%	1,336	3,502	96.5%	83.4%	Optimized
Center C Distribution Los	96.7%	1,493	2,405	95.8%	81.9%	Optimized
Genter D Distribution Newark, NJ Center E	⁴ 46.9%	2,945	3,222	98.3%	77.3%	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