Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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

Automation Overview

Total Warehouses: 5
Total Robots: 44

Average Utilization: 81.7% 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		1,736	3,622	97.5%	93.1%	Optimized
Center A Distribution Dallas, TX	43.2%	2,782	3,138	97.1%	81.1%	Optimized
Center B Distribution Atlanta, GA Center C	112.3%	1,057	1,652	97.2%	66.3%	Improvemen t Needed
Distribution Los	70.0%	2,155	2,778	98.6%	93.4%	Optimized
Genter D Distribution Newark, NJ Center E	¹ 118.1%	1,374	3,141	99.3%	74.5%	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