Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:07 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 50

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	Status
Distribution Chicago, IL	39.7%	2,405	3,448	98.2%	94.9%	Optimized
Center A Distribution Dallas, TX Center B	99.9%	2,203	2,686	95.1%	63.1%	Improvemen t Needed
Distribution Atlanta, GA	119.3%	2,559	3,953	98.3%	82.4%	Optimized
Center C Distribution Los	73.7%	2,591	2,434	96.6%	92.9%	Optimized
Center E Angeles, CA Center E	64.9%	2,004	1,735	98.8%	75.0%	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