Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:58 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 14

Average Utilization: 82.2% 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	Status
Distribution Chicago, IL	57.8%	1,606	1,622	96.5%	85.6%	Optimized
Center A Distribution Dallas, TX Center B	60.2%	2,221	2,961	96.1%	74.5%	Improvemen t Needed
Distribution Atlanta, GA	122.0%	2,408	2,936	95.1%	88.6%	Optimized
Center C Distribution Los	40.9%	2,008	3,394	99.0%	90.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	72.1%	2,586	3,569	96.0%	71.7%	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