Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:14 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 38

Average Utilization: 80.2% 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	45.2%	1,773	2,076	96.0%	82.8%	Optimized
Center A Distribution Dallas, TX Center B	81.0%	1,040	1,786	95.5%	68.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	54.4%	2,307	1,930	96.7%	72.8%	Improvemen t Needed
Distribution Los	43.5%	2,998	1,863	98.4%	87.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 61.7%	2,458	2,004	98.1%	89.9%	Optimized

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