Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:01 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 56

Average Utilization: 73.3% 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 Center A	94.0%	2,083	1,988	98.7%	61.3%	Improvemen t Needed
Distribution Dallas, TX Center B	73.5%	2,027	2,682	98.5%	69.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	69.8%	1,104	3,290	95.3%	66.1%	Improvemen t Needed
Distribution Los	69.6%	1,835	3,421	99.0%	81.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 73.8%	1,992	3,997	99.2%	88.5%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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