Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:35 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 64

Average Utilization: 78.8% 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	76.1%	2,938	3,280	98.3%	62.7%	Improvemen t Needed
Distribution Dallas, TX Center B	76.2%	1,693	2,923	99.1%	71.0%	Improvemen t Needed
Distribution Atlanta, GA	62.4%	2,661	3,051	99.4%	89.5%	Optimized
Center C Distribution Los	113.3%	2,173	2,724	95.0%	93.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 43.7%	2,858	2,424	99.1%	77.5%	Improvemen t Needed

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