Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:47 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 21

Average Utilization: 79.0% 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 Status Level	
Distribution Chicago, IL Center A	92.0%	2,532	2,134	98.3%	71.3%	Improvemen t Needed
Distribution Dallas, TX	94.7%	2,489	3,073	98.7%	81.3%	Optimized
Center B Distribution Atlanta, GA Center C	58.2%	1,200	3,592	97.1%	75.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	95.8% \	1,407	3,667	98.1%	75.0%	Improvemen t Needed
Distribution Newark, NJ Center E	57.5%	2,154	2,561	98.6%	92.4%	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