Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:17 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 61

Average Utilization: 75.7% 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	58.7%	1,862	3,809	98.3%	60.5%	Improvemen t Needed
Distribution Dallas, TX Center B	49.3%	2,892	2,211	98.6%	79.2%	Improvemen t Needed
Distribution Atlanta, GA	47.2%	1,654	2,040	96.8%	81.0%	Optimized
Center C Distribution Los	108.0%	2,958	3,922	98.4%	85.1%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 63.7%	1,821	3,807	97.7%	72.9%	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