Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:43 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 26

Average Utilization: 78.1% 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	137.5%	2,570	3,211	98.3%	63.0%	Improvemen t Needed
Distribution Dallas, TX Center B	95.3%	2,976	1,999	98.9%	75.2%	Improvemen t Needed
Distribution Atlanta, GA	70.4%	1,521	2,885	95.1%	88.3%	Optimized
Center C Distribution Los	58.4%	2,213	3,538	95.4%	87.9%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 56.2%	2,062	2,382	97.4%	75.8%	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