Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:31 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 54

Average Utilization: 75.1% 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	80.6%	1,653	3,464	97.7%	76.7%	Improvemen t Needed
Distribution Dallas, TX Center B	64.9%	2,499	2,316	98.7%	66.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	50.6%	1,146	3,043	99.2%	60.7%	Improvemen t Needed
Distribution Los	77.3%	1,502	3,611	96.3%	80.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 48.4%	2,936	3,992	97.4%	91.3%	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