Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:13 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 37

Average Utilization: 77.1% 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	Status
Distribution Chicago, IL Center A	66.7%	2,145	1,531	95.3%	73.6%	Improvemen t Needed
Distribution Dallas, TX Center B	52.1%	2,180	3,767	95.7%	77.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	78.7%	2,142	3,427	97.1%	60.8%	Improvemen t Needed
Distribution Los	57.7%	2,331	2,443	98.7%	89.6%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	¹ 119.4%	2,198	3,013	97.2%	83.9%	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