Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:12 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44

Average Utilization: 86.0% 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 Level	n Status
Distribution Chicago, IL	111.8%	1,780	3,773	96.4%	87.8%	Optimized
Center A Distribution Dallas, TX	106.2%	2,592	2,763	97.0%	82.0%	Optimized
Center B Distribution Atlanta, GA	56.0%	2,568	1,546	99.1%	89.7%	Optimized
Center C Distribution Los	66.3%	1,447	1,574	96.9%	90.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 54.3%	2,720	2,940	98.9%	80.2%	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