Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:21 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53

Average Utilization: 75.0% 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	Status
Distribution Chicago, IL Center A	70.1%	1,991	2,747	95.7%	60.2%	Improvemen t Needed
Distribution Dallas, TX	55.7%	1,694	1,876	97.3%	91.1%	Optimized
Center B Distribution Atlanta, GA	52.7%	2,804	3,037	95.2%	88.2%	Optimized
Center C Distribution Los Center D Angeles, CA	43.3% A	2,404	2,169	97.4%	73.8%	Improvemen t Needed
Distribution Newark, NJ Center E	57.8%	2,631	3,495	96.7%	61.5%	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