Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:27 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 28

Average Utilization: 73.1% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Locati	ion Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
Distribution Chicag Center A	go, IL 64.9%	1,748	3,501	98.4%	62.4%	Improvemen t Needed
Distribution Dallas Center B	, TX 59.6%	2,973	1,831	95.2%	79.9%	Improvemen t Needed
Distribution Atlanta	a, GA 35.8%	2,959	3,010	95.9%	87.0%	Optimized
Center C Distribution Los Center D Angele	70.1% es, CA	1,708	2,144	96.0%	75.8%	Improvemen t Needed
Distribution Newar Center E	k, NJ 78.0%	2,669	2,161	96.4%	60.3%	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