Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:22 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 29

Average Utilization: 80.1% 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 Status Level	
	Distribution Center A	Chicago, IL	57.8%	2,952	2,425	96.0%	78.9%	Improvemen t Needed
	Distribution	•	69.4%	1,614	2,187	96.1%	90.4%	Optimized
	Center B Distribution	Atlanta, GA	54.9%	2,421	3,397	99.1%	94.6%	Optimized
	Center C Distribution Center D	Los Angeles, CA	64.9% \	2,094	2,619	96.1%	74.8%	Improvemen t Needed
	Distribution Center E	Newark, NJ	79.0%	2,686	2,058	96.1%	61.8%	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