Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:36 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 79

Average Utilization: 75.7% 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 Chicago, IL	87.0%	1,427	2,161	95.8%	80.4%	Optimized
	Center A Distribution Dallas, TX Center B	61.0%	1,625	1,528	99.2%	75.2%	Improvemen t Needed
	Distribution Atlanta, GA	65.4%	1,416	3,848	95.1%	86.0%	Optimized
	Center C Distribution Los Center D Angeles, CA	61.4% \	1,535	3,687	99.4%	70.3%	Improvemen t Needed
	Distribution Newark, NJ Center E	75.9%	2,903	2,272	96.7%	66.7%	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