Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:49 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 31

Average Utilization: 79.5% 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	47.7%	1,096	3,266	95.8%	81.8%	Optimized
	Center A Distribution Dallas, TX Center B	39.2%	2,809	2,384	96.3%	74.1%	Improvemen t Needed
	Distribution Atlanta, GA Center C	77.3%	2,741	3,163	97.0%	77.7%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	34.5% \	1,380	3,017	98.0%	71.6%	Improvemen t Needed
	Distribution Newark, NJ Center E	66.6%	2,144	1,533	97.6%	92.2%	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