Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:27 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 52

Average Utilization: 73.3% 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	81.4%	2,423	3,805	98.6%	66.6%	Improvemen t Needed
	Dallas, TX	52.5%	1,770	3,425	97.8%	89.5%	Optimized
Center B Distribution Center C	Atlanta, GA	70.9%	2,829	1,711	96.8%	61.7%	Improvemen t Needed
Distribution L Center D	Los Angeles, CA	81.5% \	1,300	2,800	97.1%	64.9%	Improvemen t Needed
Distribution Notes Center E	Newark, NJ	110.4%	2,601	3,707	95.6%	84.0%	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