Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:40 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 75

Average Utilization: 84.0% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Inbound/ Outbo Used Day Day		Outbound/ Day	Picking Automation Accuracy Level		Status
	Distribution Chicago, IL	61.7%	1,748	3,522	97.7%	85.1%	Optimized
	Center A Distribution Dallas, TX Center B	79.2%	2,954	2,618	96.9%	77.9%	Improvemen t Needed
	Distribution Atlanta, GA	34.4%	1,031	3,595	95.1%	89.0%	Optimized
	Center C Distribution Los Center D Angeles, CA	79.8% \	1,595	1,947	97.6%	77.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	78.4%	2,489	3,472	97.7%	90.7%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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