Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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

Automation Overview

Total Warehouses: 5
Total Robots: 68

Average Utilization: 75.6% 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 Chica Center A	go, IL	59.5%	2,678	3,800	96.1%	64.6%	Improvemen t Needed
	Distribution Dallas	,	105.0%	2,587	3,514	96.2%	81.7%	Optimized
	Center B Distribution Atlant	a, GA	94.7%	2,949	3,881	95.4%	80.4%	Optimized
	Center C Distribution Los Center D Angel	es, CA	37.9% \	2,852	3,793	95.1%	61.2%	Improvemen t Needed
	Distribution Newa Center E	rk, NJ	55.2%	1,567	3,240	95.1%	90.2%	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