Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:48 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58

Average Utilization: 80.9% 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, I	L 76.2%	1,395	1,628	97.0%	94.8%	Optimized
	Center A Distribution Dallas, TX Center B	39.2%	1,197	1,983	96.5%	69.3%	Improvemen t Needed
	Distribution Atlanta, G	A 60.3%	2,645	1,755	97.6%	94.0%	Optimized
	Center C Distribution Los Center D Angeles, (45.4% CA	2,488	2,966	97.1%	79.4%	Improvemen t Needed
	Distribution Newark, N Center E	IJ 65.7%	2,779	2,165	96.2%	67.1%	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