Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:44 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63

Average Utilization: 76.6% 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 Chicago, IL		1,277	2,066	95.9%	93.1%	Optimized
	Center A Distribution Dallas, TX		2,436	2,894	98.6%	92.6%	Optimized
	Center B Distribution Atlanta, GA Center C	92.2%	1,582	2,870	96.1%	60.2%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	86.4% \	2,545	3,116	96.7%	67.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	75.7%	2,991	3,500	98.3%	70.2%	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