Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:43 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52

Average Utilization: 76.2% 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	35.1%	2,426	2,417	97.0%	89.4%	Optimized
	Center A Distribution Dallas, TX Center B	88.5%	2,858	1,551	96.3%	68.1%	Improvemen t Needed
	Distribution Atlanta, GA Center C	109.2%	1,446	2,193	98.0%	77.8%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	60.1% A	2,136	2,172	98.3%	63.4%	Improvemen t Needed
	Distribution Newark, NJ Center E	64.9%	2,161	1,673	96.6%	82.2%	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