# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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#### **Automation Overview**

Total Warehouses: 5 Total Robots: 29

Average Utilization: 76.6% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Loc	ation Capacity Used	/ Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
Distribution Chic Center A	eago, IL 75.8%	2,970	1,918	99.0%	67.5%	Improvemen t Needed
	as, TX 63.6%	2,671	2,094	97.9%	93.7%	Optimized
Center B Distribution Atlan Center C	nta, GA 68.9%	1,448	3,693	95.6%	71.0%	Improvemen t Needed
Distribution Los	107.9%	1,888	3,585	96.4%	88.5%	Optimized
Center D Ang Distribution New Center E	eles, CA ark, NJ 82.2%	1,141	3,096	95.4%	62.0%	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