# **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: 27

Average Utilization: 77.3% 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	83.8%	1,097	2,767	97.8%	86.0%	Optimized
	Center A Distribution Dallas, TX Center B	68.5%	2,828	2,813	99.3%	65.0%	Improvemen t Needed
	Distribution Atlanta, GA Center C	86.7%	2,119	2,004	95.6%	68.9%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	75.6% \	1,556	1,858	97.4%	71.9%	Improvemen t Needed
	Distribution Newark, NJ Center E	71.8%	2,597	2,183	96.0%	94.9%	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