# **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: 56

Average Utilization: 79.5% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Location		Capacity Inbound/ Outbound/ P Used Day Day A		Picking Accuracy	Automation Status Level		
	Distribution Chicago, IL Center A	41.2%	1,498	1,570	95.7%	71.1%	Improvemen t Needed
	Distribution Dallas, TX	62.8%	2,607	3,824	96.2%	92.7%	Optimized
	Center B Distribution Atlanta, GA	40.9%	1,161	1,904	97.0%	89.7%	Optimized
	Center C Distribution Los Center D Angeles, CA	100.5% \	2,181	2,793	99.0%	74.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	85.0%	1,122	2,762	98.6%	70.0%	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