# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:59 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 47

Average Utilization: 74.9% 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		2,072	1,869	97.7%	84.2%	Optimized
	Center A Distribution Dallas, TX		2,808	2,811	97.8%	94.8%	Optimized
	Center B Distribution Atlanta, GA Center C	80.9%	2,806	1,911	96.0%	62.1%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	65.0% A	2,023	1,702	98.4%	69.7%	Improvemen t Needed
	Distribution Newark, NJ Center E	48.4%	1,905	3,961	98.5%	63.9%	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