# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:53 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 56

Average Utilization: 76.8% 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		2,078	2,367	98.7%	81.4%	Optimized
Center A Distribution Dallas, TX		2,220	3,671	95.7%	93.0%	Optimized
Center B Distribution Atlanta, GA Center C	61.3%	1,135	3,442	96.2%	78.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	68.2% \	2,982	2,898	99.0%	65.5%	Improvemen t Needed
Distribution Newark, NJ Center E	53.8%	1,911	2,608	97.3%	65.5%	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