# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:44 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 87

Average Utilization: 74.0% 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 Level	n Status
Distribution Chicago, IL Center A	107.1%	2,469	1,561	99.3%	63.9%	Improvemen t Needed
Distribution Dallas, TX Center B	32.6%	2,630	2,960	97.7%	73.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	69.0%	1,046	1,663	98.9%	66.9%	Improvemen t Needed
Distribution Los	74.4%	2,412	3,113	98.5%	93.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 99.0%	2,280	2,684	97.5%	72.9%	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