# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:00 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 58

Average Utilization: 75.1% 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	46.4%	1,067	3,778	95.6%	69.7%	Improvemen t Needed
Distribution Dallas, TX Center B	93.6%	1,337	2,984	95.1%	62.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	106.2%	2,696	1,516	97.1%	71.6%	Improvemen t Needed
Distribution Los	60.3%	2,482	2,032	96.4%	91.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 119.1%	1,973	2,973	95.6%	79.7%	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