# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:05 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 27

Average Utilization: 77.8% 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 Level	Status
Distribution Chicago, IL Center A	93.9%	1,023	1,513	97.7%	72.3%	Improvemen t Needed
Distribution Dallas, TX Center B	58.3%	1,766	3,762	98.1%	79.4%	Improvemen t Needed
Distribution Atlanta, GA	32.4%	2,486	1,883	97.4%	94.4%	Optimized
Center C Distribution Los Center D Angeles, CA	35.4% \	1,210	2,919	95.6%	77.0%	Improvemen t Needed
Distribution Newark, NJ Center E	58.3%	2,115	2,387	98.5%	66.1%	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