# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:09 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 34

Average Utilization: 70.9% 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	61.2%	1,693	3,336	96.7%	82.0%	Optimized
Center A Distribution Dallas, TX Center B	95.1%	1,258	2,982	98.4%	74.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	81.4%	2,339	1,891	97.9%	65.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	100.3% A	1,336	2,757	98.6%	62.9%	Improvemen t Needed
Distribution Newark, NJ Center E	48.9%	1,353	1,875	97.3%	69.8%	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