# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:26 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 37

Average Utilization: 70.5% 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 Center A	38.6%	2,378	2,022	96.4%	62.4%	Improvemen t Needed
Distribution Dallas, TX Center B	46.5%	1,800	2,495	95.6%	63.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	59.8%	2,692	2,385	98.0%	71.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA	42.2% \	2,858	3,594	98.6%	66.6%	Improvemen t Needed
Distribution Newark, NJ Center E	68.6%	1,257	3,789	97.3%	88.8%	Optimized

# 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