# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:15 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 60

Average Utilization: 69.6% 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	94.4%	2,865	2,955	95.2%	66.4%	Improvemen t Needed
Distribution Dallas, TX Center B	104.2%	1,020	2,996	99.1%	70.7%	Improvemen t Needed
Distribution Atlanta, GA	54.1%	1,384	2,680	96.6%	84.4%	Optimized
Center C Distribution Los Center D Angeles, CA	57.3% A	1,625	3,095	96.7%	61.2%	Improvemen t Needed
Distribution Newark, NJ Center E	62.1%	1,450	3,261	96.4%	65.0%	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