# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:29 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 34

Average Utilization: 76.8% 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	n Status
Distribution Chicago, IL Center A	104.5%	2,556	3,270	95.7%	71.9%	Improvemen t Needed
Distribution Dallas, TX Center B	87.1%	2,305	2,296	97.8%	64.1%	Improvemen t Needed
Distribution Atlanta, GA	60.3%	1,180	3,976	99.3%	83.0%	Optimized
Center C Distribution Los	48.2%	2,224	2,620	98.5%	85.7%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 97.3%	2,818	1,890	99.3%	79.1%	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