# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:47 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 50

Average Utilization: 79.0% 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	58.4%	1,051	2,974	98.8%	68.1%	Improvemen t Needed
Distribution Dallas, TX Center B	117.8%	2,419	2,338	99.1%	67.3%	Improvemen t Needed
Distribution Atlanta, GA	81.7%	1,771	3,180	96.9%	86.6%	Optimized
Center C Distribution Los	48.1%	1,075	3,163	96.0%	93.4%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>1</sup> 110.4%	2,996	1,786	99.2%	79.7%	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