# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:09:04 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 37

Average Utilization: 74.0% 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	49.2%	1,052	3,191	96.7%	61.7%	Improvemen t Needed
Distribution Dallas, TX Center B	39.6%	2,994	3,168	96.6%	77.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	45.3%	2,317	1,546	98.4%	61.9%	Improvemen t Needed
Distribution Los	82.2%	1,800	2,275	99.5%	84.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 127.9%	2,389	3,095	98.4%	84.9%	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