# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:04 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 37

Average Utilization: 77.8% 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	Status
Distribution Chicago, IL		1,554	3,280	95.7%	87.1%	Optimized
Center A Distribution Dallas, TX Center B	75.0%	1,342	2,512	99.3%	69.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	83.4%	1,961	3,812	98.8%	63.4%	Improvemen t Needed
Distribution Los	66.4%	2,990	3,163	98.9%	83.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 77.3%	2,344	1,970	95.9%	85.8%	Optimized

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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