# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:09 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 49

Average Utilization: 82.6% 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 Level	n Status
Distribution Chicago, IL Center A	71.4%	2,612	3,389	98.2%	74.5%	Improvemen t Needed
Distribution Dallas, TX Center B	71.3%	1,271	1,696	98.5%	76.3%	Improvemen t Needed
Distribution Atlanta, GA	88.4%	2,317	1,990	96.7%	87.0%	Optimized
Center C Distribution Los	52.0%	2,394	1,645	99.4%	91.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 92.6%	1,436	2,450	97.8%	83.7%	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