# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:04 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 44

Average Utilization: 73.0% 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	Status
Distribution Chicago, IL	70.5%	2,590	1,662	97.6%	80.2%	Optimized
Center A Distribution Dallas, TX Center B	73.9%	2,987	2,654	95.0%	70.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	77.9%	1,540	2,780	95.3%	63.9%	Improvemen t Needed
Distribution Los	88.4%	2,646	3,884	96.5%	83.7%	Optimized
Center D Angeles, CA Center E Angeles, CA Newark, NJ	<sup>1</sup> 57.2%	2,564	3,949	96.7%	66.4%	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