# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:28 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 45

Average Utilization: 80.1% 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 Status Level	
	Distribution Chicago, IL Center A	86.0%	1,409	2,381	98.8%	71.3%	Improvemen t Needed
	Distribution Dallas, TX	89.2%	1,262	3,949	97.7%	91.8%	Optimized
	Center B Distribution Atlanta, GA Center C	87.9%	2,212	2,633	95.8%	72.4%	Improvemen t Needed
	Distribution Los	73.4%	1,058	1,922	97.1%	90.3%	Optimized
	Center D Angeles, CA Distribution Newark, NJ Center E	<b>`</b> 36.0%	1,612	2,526	98.3%	74.7%	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