# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:32 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 33

Average Utilization: 70.4% 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	67.3%	2,283	3,863	97.7%	77.9%	Improvemen t Needed
	Distribution Dallas, TX Center B	102.7%	1,293	1,861	96.6%	69.2%	Improvemen t Needed
	Distribution Atlanta, GA Center C	83.3%	2,507	2,347	95.5%	68.5%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	73.5% \	2,329	2,825	95.1%	62.7%	Improvemen t Needed
	Distribution Newark, NJ Center E	88.2%	2,770	3,392	95.0%	73.8%	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