## **Warehouse Automation Analytics**

#### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:16 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 49

Average Utilization: 77.8% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Location		• •		Outbound/ Picking Day Accuracy		Automation Status Level	
	Distribution Chicago, IL	62.1%	2,440	2,590	97.0%	94.1%	Optimized
	Center A Distribution Dallas, TX Center B	58.9%	2,826	3,777	98.1%	63.9%	Improvemen t Needed
	Distribution Atlanta, GA Center C	69.0%	1,705	3,599	95.6%	73.0%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	42.2% \	1,965	3,666	97.0%	70.7%	Improvemen t Needed
	Distribution Newark, NJ Center E	58.0%	1,617	2,101	96.6%	87.4%	Optimized

# 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