# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:09:20 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 49

Average Utilization: 80.0% 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 Status Level	
	Distribution Chicago, IL Center A	86.3%	2,710	3,373	99.3%	78.6%	Improvemen t Needed
	Distribution Dallas, TX	106.5%	2,193	3,638	98.7%	91.4%	Optimized
	Center B Distribution Atlanta, GA Center C	46.2%	1,140	1,627	99.2%	71.3%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	43.0% A	1,955	2,986	97.8%	76.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	75.1%	2,529	1,900	95.7%	82.9%	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