# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:34 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 53

Average Utilization: 78.3% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Location		Capacity Used			Picking Accuracy	Automation Status Level	
	Distribution Chicago, IL	78.0%	2,946	3,004	97.0%	87.8%	Optimized
	Center A Distribution Dallas, TX Center B	60.0%	2,103	3,991	95.0%	79.4%	Improvemen t Needed
	Distribution Atlanta, GA Center C	97.3%	2,777	2,084	96.6%	74.6%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	72.0% A	2,984	3,140	96.2%	63.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	55.4%	2,340	3,799	97.7%	86.7%	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