# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:09:29 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 27

Average Utilization: 72.0% 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, Center A	IL 66.1%	1,256	3,048	97.6%	70.3%	Improvemen t Needed
	Distribution Dallas, TX	65.0%	2,855	3,492	95.4%	91.5%	Optimized
	Center B Distribution Atlanta, G Center C	6A 115.5%	2,791	2,042	98.8%	69.0%	Improvemen t Needed
	Distribution Los Center D Angeles,	95.3% CA	1,197	2,127	98.8%	63.6%	Improvemen t Needed
	Distribution Newark, N	NJ 62.6%	1,398	2,759	96.3%	65.5%	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