# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:30 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 47

Average Utilization: 78.3% 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 Level	n Status
Distribution Chicago, IL Center A	45.3%	1,129	3,082	96.8%	66.0%	Improvemen t Needed
Distribution Dallas, TX Center B	86.8%	1,040	3,808	97.6%	78.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	63.0%	2,859	2,976	95.1%	73.3%	Improvemen t Needed
Distribution Los	36.7%	1,338	3,580	96.6%	93.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 82.1%	2,651	2,556	97.4%	80.0%	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