# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:40 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 35

Average Utilization: 74.4% 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	112.5%	1,342	3,959	97.5%	79.5%	Improvemen t Needed
Distribution Dallas, TX Center B	90.9%	1,955	1,972	98.7%	60.1%	Improvemen t Needed
Distribution Atlanta, GA	50.3%	1,422	3,281	95.3%	80.5%	Optimized
Center C Distribution Los Center D Angeles, CA	44.6% A	2,049	3,448	98.9%	73.9%	Improvemen t Needed
Distribution Newark, NJ Center E	61.7%	1,659	3,190	97.7%	77.8%	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