# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:10 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 42

Average Utilization: 68.9% 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	Status
Distribution Chicago, IL Center A	104.4%	2,131	1,617	97.9%	62.8%	Improvemen t Needed
,,	71.4%	1,275	2,969	96.5%	81.2%	Optimized
Center B Distribution Atlanta, GA Center C	103.8%	1,399	2,212	97.1%	71.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	52.2% A	2,239	2,991	95.8%	63.5%	Improvemen t Needed
Distribution Newark, NJ Center E	51.2%	1,249	3,701	98.5%	66.0%	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