# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:20 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 40

Average Utilization: 74.1% 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	71.3%	1,433	2,011	96.3%	71.4%	Improvemen t Needed
Distribution Dallas, TX Center B	114.4%	2,129	2,303	97.5%	71.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	68.5%	2,019	3,039	98.1%	71.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA	67.4% \	2,260	2,999	99.4%	68.3%	Improvemen t Needed
Distribution Newark, NJ Center E	109.5%	2,400	1,547	97.5%	87.7%	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