# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:22 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 39

Average Utilization: 73.8% 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	90.8%	2,367	2,457	96.6%	77.5%	Improvemen t Needed
Distribution Dallas, TX Center B	91.5%	1,433	1,958	98.2%	66.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	40.0%	2,983	1,607	98.1%	66.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	85.5% \	1,859	1,953	98.9%	76.1%	Improvemen t Needed
Distribution Newark, NJ Center E	102.1%	2,685	3,611	96.8%	81.9%	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