# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:53 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 40

Average Utilization: 77.0% 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	50.8%	2,892	3,950	97.3%	93.4%	Optimized
Center A Distribution Dallas, TX Center B	74.8%	2,075	2,621	96.9%	67.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	65.0%	2,920	1,556	96.1%	73.8%	Improvemen t Needed
Distribution Los	86.4%	1,169	2,570	96.1%	89.5%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>A</sup> 57.9%	2,039	1,597	98.1%	60.6%	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