# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:32 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 51

Average Utilization: 82.7% 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	57.8%	1,912	2,116	96.8%	69.8%	Improvemen t Needed
Distribution Dallas, TX	81.9%	2,213	2,441	96.4%	93.6%	Optimized
Center B Distribution Atlanta, GA	41.2%	2,670	1,865	97.6%	83.9%	Optimized
Center C Distribution Los	76.3%	2,205	3,036	99.1%	84.1%	Optimized
Center E  Angeles, Conter E	<sup>A</sup> 123.1%	1,384	1,753	97.4%	82.0%	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