# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:42 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 62

Average Utilization: 82.4% 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	52.3%	2,568	1,992	96.8%	80.6%	Optimized
Center A Distribution Dallas, TX		2,529	2,840	95.8%	83.8%	Optimized
Center B Distribution Atlanta, GA	101.5%	1,919	1,765	98.3%	89.0%	Optimized
Center C Distribution Los	109.0%	1,688	2,692	95.8%	80.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 73.3%	2,819	1,832	98.9%	78.5%	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