# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:23 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 57

Average Utilization: 80.8% 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	60.9%	2,480	3,267	98.3%	64.7%	Improvemen t Needed
Distribution Dallas, TX	44.0%	2,972	3,662	95.1%	85.8%	Optimized
Center B Distribution Atlanta, GA	57.0%	1,766	1,585	98.4%	93.6%	Optimized
Center C Distribution Los	44.8%	2,324	3,805	95.4%	90.4%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>A</sup> 55.5%	1,941	1,577	96.2%	69.3%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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