# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:30 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 47

Average Utilization: 78.8% 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	64.4%	1,632	3,658	98.1%	61.2%	Improvemen t Needed
Distribution Dallas, TX Center B	46.2%	1,242	3,023	98.7%	65.9%	Improvemen t Needed
Distribution Atlanta, GA	79.6%	1,657	3,605	96.6%	91.5%	Optimized
Center C Distribution Los	51.3%	2,580	3,424	99.2%	85.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 94.7%	2,137	3,465	95.6%	90.1%	Optimized

# 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