# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:49 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 50

Average Utilization: 84.1% 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	100.7%	1,956	2,154	97.3%	72.6%	Improvemen t Needed
Distribution Dallas, TX Center B	82.8%	2,912	2,281	99.5%	73.3%	Improvemen t Needed
Distribution Atlanta, GA	70.6%	2,883	3,357	97.7%	89.1%	Optimized
Center C Distribution Los	60.8%	2,700	2,854	98.2%	93.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 74.7%	1,940	2,641	99.4%	92.2%	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