# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:09:23 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 40

Average Utilization: 78.0% 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	Status
Distribution Chicago, IL	39.4%	1,998	2,218	95.5%	82.6%	Optimized
Center A Distribution Dallas, TX		1,344	1,857	95.1%	85.3%	Optimized
Center B Distribution Atlanta, GA Center C	47.9%	2,796	3,784	99.4%	62.2%	Improvemen t Needed
Distribution Los	61.1%	2,592	3,356	95.8%	84.6%	Optimized
Center E  Angeles, CA  Newark, NJ  Center E	<sup>1</sup> 39.8%	2,934	3,865	96.5%	75.2%	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