# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:51 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 46

Average Utilization: 83.9% 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	69.6%	1,092	2,324	97.4%	93.8%	Optimized
Center A Distribution Dallas, TX Center B	59.6%	1,314	3,504	99.2%	76.9%	Improvemen t Needed
Distribution Atlanta, GA	55.3%	2,506	3,871	95.8%	86.0%	Optimized
Center C Distribution Los	72.4%	2,114	3,843	99.4%	82.0%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>A</sup> 34.9%	2,855	2,735	97.0%	80.9%	Optimized

# 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