# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:59 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 61

Average Utilization: 85.4% 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	71.9%	1,349	2,040	98.5%	94.0%	Optimized
Center A Distribution Dallas, TX Center B	57.6%	1,694	2,225	99.1%	60.9%	Improvemen t Needed
Distribution Atlanta, GA	127.8%	1,279	3,135	96.5%	92.0%	Optimized
Center C Distribution Los	38.6%	2,094	2,260	97.2%	87.3%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>4</sup> 74.7%	2,658	1,718	95.8%	93.1%	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