# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:35 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 53

Average Utilization: 85.5% 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	67.2%	1,326	3,643	97.7%	88.3%	Optimized
Center A Distribution Dallas, TX		2,419	3,754	97.8%	85.1%	Optimized
Center B Distribution Atlanta, GA	59.5%	1,921	1,791	97.2%	90.9%	Optimized
Center C Distribution Los Center D Angeles, CA	55.9% A	2,595	1,534	98.6%	77.3%	Improvemen t Needed
Distribution Newark, NJ Center E	61.0%	1,352	3,987	99.4%	86.2%	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