# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:22 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 53

Average Utilization: 75.7% 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	57.0%	1,948	2,447	97.4%	93.5%	Optimized
Center A Distribution Dallas, TX Center B	48.0%	1,091	2,084	97.9%	79.6%	Improvemen t Needed
Distribution Atlanta, GA	60.4%	1,914	3,487	97.4%	81.1%	Optimized
Center C Distribution Los Center D Angeles, CA	63.9% \	1,717	3,541	98.8%	63.9%	Improvemen t Needed
Distribution Newark, NJ Center E	53.2%	2,485	3,353	96.6%	60.2%	Improvemen t Needed

# 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