## **Warehouse Automation Analytics**

#### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:49 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 44

Average Utilization: 76.9% 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 Status Level	
Distribution Chicago, IL Center A	69.1%	2,454	2,881	96.2%	66.8%	Improvemen t Needed
Distribution Dallas, TX	117.5%	1,089	2,686	97.7%	90.2%	Optimized
Center B Distribution Atlanta, GA Center C	97.9%	1,717	3,235	99.0%	67.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	62.3% A	2,945	2,188	99.2%	72.0%	Improvemen t Needed
Distribution Newark, NJ Center E	98.5%	1,050	1,587	98.0%	88.1%	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