# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:21 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 55

Average Utilization: 76.0% 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		2,350	3,325	98.8%	91.8%	Optimized
Center A Distribution Dallas, TX Center B	79.5%	2,841	1,992	98.8%	67.8%	Improvemen t Needed
Distribution Atlanta, GA	52.3%	1,220	2,229	97.2%	87.6%	Optimized
Center C Distribution Los Center D Angeles, CA	87.0% \	1,980	1,685	96.8%	62.9%	Improvemen t Needed
Distribution Newark, NJ Center E	61.1%	2,240	1,883	95.4%	70.1%	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