# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:51 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 36

Average Utilization: 80.8% 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	56.5%	1,037	3,884	95.5%	82.1%	Optimized
Center A Distribution Dallas, TX Center B	83.4%	2,947	2,980	96.4%	70.2%	Improvemen t Needed
Distribution Atlanta, GA	59.6%	2,091	1,554	96.1%	90.8%	Optimized
Center C Distribution Los	65.8%	2,366	1,882	98.8%	94.0%	Optimized
Center D Distribution Newark, NJ Center E	72.3%	1,857	1,727	96.9%	67.1%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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