# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:08 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 61

Average Utilization: 79.1% 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	86.8%	2,108	3,692	96.8%	83.7%	Optimized
Center A Distribution Dallas, TX		2,633	3,825	98.8%	88.8%	Optimized
Center B Distribution Atlanta, GA Center C	49.2%	1,458	3,240	96.9%	65.0%	Improvemen t Needed
Distribution Los	109.9%	1,442	2,680	95.3%	81.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	74.6%	2,929	2,550	95.8%	76.8%	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