# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:13 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 43

Average Utilization: 72.2% 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 Center A	54.2%	2,423	1,699	95.2%	79.1%	Improvemen t Needed
Distribution Dallas, TX Center B	79.6%	1,649	2,568	96.2%	63.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	86.2%	1,827	2,080	98.4%	69.0%	Improvemen t Needed
Distribution Los Center D Angeles, CA	76.1% \	1,067	1,815	98.9%	68.2%	Improvemen t Needed
Distribution Newark, NJ Center E	50.0%	1,247	2,380	95.5%	81.3%	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