# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:30 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 74

Average Utilization: 80.5% 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	91.3%	2,002	2,239	97.6%	83.5%	Optimized
Center A Distribution Dallas, TX		2,138	2,524	99.1%	89.1%	Optimized
Center B Distribution Atlanta, GA	69.5%	1,261	3,699	98.9%	85.6%	Optimized
Center C Distribution Los Center D Angeles, CA	56.5% A	2,670	1,788	99.4%	72.4%	Improvemen t Needed
Distribution Newark, NJ Center E	77.7%	2,945	1,972	98.4%	71.8%	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