# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:58 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 26

Average Utilization: 79.8% 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	n Status
Distribution Chicago, IL Center A	41.2%	1,126	2,887	97.1%	67.6%	Improvemen t Needed
Distribution Dallas, TX	64.1%	2,875	2,522	96.0%	91.7%	Optimized
Center B Distribution Atlanta, GA Center C	66.0%	2,494	1,600	95.6%	73.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	78.6%	1,270	2,459	98.9%	94.2%	Optimized
	<sup>1</sup> 71.2%	1,023	1,893	97.7%	72.4%	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