# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:36 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 30

Average Utilization: 80.4% 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	79.7%	1,251	1,701	99.0%	60.2%	Improvemen t Needed
Distribution Dallas, TX	60.7%	1,919	1,567	96.1%	86.6%	Optimized
Center B Distribution Atlanta, GA	38.3%	1,810	2,680	97.2%	89.1%	Optimized
Center C Distribution Los	96.0%	1,372	2,513	98.8%	84.9%	Optimized
Center D Angeles, C Center E	<sup>A</sup> 37.7%	1,923	3,066	99.3%	81.0%	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