## **Warehouse Automation Analytics**

#### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:57 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 27

Average Utilization: 75.1% 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	n Status
Distribution Chicago, IL Center A	112.3%	2,145	2,614	96.5%	72.8%	Improvemen t Needed
Distribution Dallas, TX Center B	55.1%	1,108	3,543	99.0%	60.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	46.0%	2,110	2,242	96.6%	71.2%	Improvemen t Needed
Distribution Los	45.9%	1,409	3,261	99.0%	80.7%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	<sup>A</sup> 77.5%	1,959	1,709	95.8%	90.0%	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