# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:19 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 50

Average Utilization: 78.9% 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	42.5%	1,491	2,048	96.0%	79.4%	Improvemen t Needed
Distribution Dallas, TX Center B	66.0%	1,765	3,408	96.9%	66.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	52.9%	2,677	3,515	96.0%	68.9%	Improvemen t Needed
Distribution Los	50.3%	2,323	3,226	96.7%	91.9%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 68.0%	2,021	3,579	99.1%	87.6%	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