# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:10 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 60

Average Utilization: 83.4% 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	60.0%	1,689	3,016	97.4%	92.9%	Optimized
Center A Distribution Dallas, TX Center B	80.3%	1,046	2,206	95.1%	61.2%	Improvemen t Needed
Distribution Atlanta, GA	60.3%	2,347	2,203	96.9%	86.5%	Optimized
Center C Distribution Los	59.4%	1,908	2,182	96.2%	91.4%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>A</sup> 113.3%	1,893	3,250	95.8%	84.8%	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