## **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:45 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 58

Average Utilization: 84.3% 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	Status
Distribution Chicago, IL	113.6%	1,409	3,726	99.4%	90.2%	Optimized
Center A Distribution Dallas, TX Center B	46.0%	1,241	1,717	98.1%	68.6%	Improvemen t Needed
Distribution Atlanta, GA	67.1%	2,940	1,653	97.9%	82.7%	Optimized
Center C Distribution Los	76.0%	1,806	1,775	95.1%	92.9%	Optimized
Center F	100.1%	1,545	2,449	98.3%	86.8%	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