## **Warehouse Automation Analytics**

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:42 AM Use Case: warehouse-automation

## **Automation Overview**

Total Warehouses: 5 Total Robots: 53

Average Utilization: 81.1% 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	Status
Distribution Chicago, IL Center A	55.3%	1,431	1,731	97.9%	71.5%	Improvemen t Needed
Distribution Dallas, TX Center B	60.4%	1,501	3,100	97.9%	69.9%	Improvemen t Needed
Distribution Atlanta, GA	117.7%	1,012	2,223	95.4%	91.1%	Optimized
Center C Distribution Los	109.7%	1,936	2,874	98.7%	94.7%	Optimized
Center E  Angeles, CA Newark, NJ Center E	44.8%	1,991	1,972	99.0%	78.3%	Improvemen t Needed

## 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