# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:25 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 41

Average Utilization: 84.1% 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	85.8%	1,667	2,917	97.8%	92.9%	Optimized
Center A Distribution Dallas, TX		1,753	2,076	97.8%	86.8%	Optimized
Center B Distribution Atlanta, GA	60.3%	2,355	2,907	97.5%	88.8%	Optimized
Center C Distribution Los Center D Angeles, CA	79.1% \	1,844	2,458	97.8%	64.7%	Improvemen t Needed
Distribution Newark, NJ Center E	72.1%	2,830	2,087	95.4%	87.4%	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