# **Warehouse Automation Analytics**

### Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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#### **Automation Overview**

Total Warehouses: 5
Total Robots: 54

Average Utilization: 75.4% 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	Status
Distribution Chicago, IL	98.2%	1,442	1,809	98.7%	83.7%	Optimized
Center A Distribution Dallas, TX Center B	56.3%	1,732	2,368	95.7%	76.4%	Improvemen t Needed
Distribution Atlanta, GA	55.2%	2,531	1,861	95.1%	83.1%	Optimized
Center C Distribution Los Center D Angeles, CA	71.8% \	2,159	2,154	97.8%	66.6%	Improvemen t Needed
Distribution Newark, NJ Center E	40.4%	1,314	1,988	95.4%	67.2%	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