# **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: 56

Average Utilization: 83.5% 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	50.1%	2,509	3,920	97.8%	85.4%	Optimized
Center A Distribution Dallas, TX		2,151	2,161	96.4%	83.8%	Optimized
Center B Distribution Atlanta, GA	59.0%	1,067	2,523	97.3%	93.5%	Optimized
Center C Distribution Los Center D Angeles, CA	42.3% A	1,825	2,468	98.7%	62.6%	Improvemen t Needed
Distribution Newark, NJ Center E	42.0%	1,588	2,423	95.4%	92.4%	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