# **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: 76.5% 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		2,859	3,143	98.0%	93.8%	Optimized
Center A Distribution Dallas, TX		1,274	3,608	95.7%	81.0%	Optimized
Center B Distribution Atlanta, GA Center C	60.1%	1,832	2,867	96.0%	60.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA	96.5% \	2,668	3,004	96.8%	70.8%	Improvemen t Needed
Distribution Newark, NJ Center E	44.2%	2,922	2,912	97.8%	75.8%	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