# **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: 41

Average Utilization: 78.3% 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		2,921	2,689	98.2%	91.6%	Optimized
Center A Distribution Dallas, TX		2,742	2,163	95.6%	80.8%	Optimized
Center B Distribution Atlanta, GA Center C	57.9%	2,596	2,401	99.0%	65.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA	105.3% \	2,224	2,890	98.4%	75.4%	Improvemen t Needed
Distribution Newark, NJ Center E	44.1%	2,829	1,650	97.0%	78.6%	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