# **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: 81.3% 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	62.3%	2,577	1,813	98.9%	83.7%	Optimized
Center A Distribution Dallas, TX	72.3%	2,830	3,813	97.4%	83.9%	Optimized
Center B Distribution Atlanta, GA	43.5%	1,365	3,934	95.7%	85.5%	Optimized
Center C Distribution Los	36.5%	2,256	1,820	97.0%	85.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 83.8%	1,963	2,884	97.7%	68.1%	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