# **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: 75

Average Utilization: 83.2% 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	n Status
Distribution Chicago, IL	46.4%	2,654	3,168	95.2%	82.4%	Optimized
Center A Distribution Dallas, TX		1,969	3,612	96.8%	90.2%	Optimized
Center B Distribution Atlanta, GA	89.3%	2,385	2,533	96.3%	90.9%	Optimized
Center C Distribution Los	63.2%	1,543	2,687	98.9%	82.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 134.3%	1,789	3,112	95.1%	70.4%	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