# **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: 43

Average Utilization: 79.9% 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	42.8%	1,740	1,838	95.3%	83.5%	Optimized
Center A Distribution Dallas, TX Center B	71.6%	2,730	3,792	98.6%	78.0%	Improvemen t Needed
Distribution Atlanta, GA	52.6%	2,017	2,325	95.9%	81.9%	Optimized
Center C Distribution Los	65.3%	2,499	3,343	98.5%	82.9%	Optimized
Center E  Angeles, Content E	<sup>4</sup> 48.6%	1,091	2,329	98.2%	73.4%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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