# **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: 64

Average Utilization: 79.4% 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 Center A	85.1%	2,162	3,408	98.1%	65.6%	Improvemen t Needed
Distribution Dallas, TX Center B	71.0%	1,973	3,885	96.9%	74.0%	Improvemen t Needed
Distribution Atlanta, GA	66.4%	2,443	2,074	98.2%	84.3%	Optimized
Center C Distribution Los	50.7%	1,795	3,453	97.9%	85.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 67.5%	1,830	3,241	97.5%	87.7%	Optimized

# 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