# **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: 30

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	87.9%	2,120	2,240	99.1%	61.4%	Improvemen t Needed
Distribution Dallas, TX	38.3%	2,082	2,163	96.6%	81.9%	Optimized
Center B Distribution Atlanta, GA	49.2%	2,195	2,316	95.8%	89.9%	Optimized
Center C Distribution Los	60.0%	2,744	3,886	96.4%	85.7%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>4</sup> 67.4%	2,777	3,720	98.4%	77.9%	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