# **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: 63

Average Utilization: 81.9% 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	n Status
Distribution Chicago, IL Center A	120.0%	2,878	3,451	96.1%	72.2%	Improvemen t Needed
Distribution Dallas, TX	64.7%	1,404	1,580	99.2%	81.2%	Optimized
Center B Distribution Atlanta, GA	48.7%	1,099	3,427	97.8%	90.0%	Optimized
Center C Distribution Los	68.7%	2,524	3,213	95.6%	90.5%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>A</sup> 73.7%	2,466	1,980	99.4%	75.5%	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