# **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: 19

Average Utilization: 81.1% 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	48.9%	2,200	3,810	99.2%	66.9%	Improvemen t Needed
Distribution Dallas, TX Center B	57.0%	1,639	2,577	96.8%	65.9%	Improvemen t Needed
Distribution Atlanta, GA	42.4%	2,615	3,697	96.2%	94.1%	Optimized
Center C Distribution Los	82.1%	2,061	2,213	97.9%	85.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 48.5%	2,235	3,118	95.9%	93.0%	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