# **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: 45

Average Utilization: 81.3% 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	53.4%	2,426	1,572	96.0%	63.8%	Improvemen t Needed
Distribution Dallas, TX	77.7%	2,462	2,902	98.1%	90.4%	Optimized
Center B Distribution Atlanta, GA	80.2%	1,341	3,359	98.2%	88.9%	Optimized
Center C Distribution Los	42.8%	2,850	1,754	98.5%	86.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 40.5%	1,491	3,223	97.8%	76.6%	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