# **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: 33

Average Utilization: 76.5% 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	64.9%	2,040	3,391	96.6%	74.5%	Improvemen t Needed
Distribution Dallas, TX Center B	84.9%	2,756	3,061	96.0%	61.2%	Improvemen t Needed
Distribution Atlanta, GA	58.2%	1,934	3,286	96.3%	81.8%	Optimized
Center C Distribution Los	51.5%	1,330	2,810	99.0%	83.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 42.6%	2,921	1,940	95.5%	81.9%	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