# **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: 66

Average Utilization: 82.7% 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	63.7%	2,015	2,087	96.4%	69.8%	Improvemen t Needed
Distribution Dallas, TX Center B	60.5%	2,570	2,137	95.0%	74.0%	Improvemen t Needed
Distribution Atlanta, GA	122.2%	1,750	2,408	99.3%	84.1%	Optimized
Center C Distribution Los	114.7%	1,795	3,834	97.5%	92.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 70.3%	2,834	3,380	97.2%	92.9%	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