# **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: 51

Average Utilization: 75.1% 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	70.7%	2,850	2,809	99.2%	61.5%	Improvemen t Needed
Distribution Dallas, TX Center B	59.6%	2,395	2,542	96.1%	77.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	60.5%	1,802	2,746	96.2%	64.5%	Improvemen t Needed
Distribution Los	52.8%	2,153	3,085	98.7%	90.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 54.8%	2,497	2,256	97.8%	82.1%	Optimized

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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