# **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: 53

Average Utilization: 81.0% 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	Status
Distribution Chicago, IL		2,704	2,357	96.7%	85.8%	Optimized
Center A Distribution Dallas, TX		1,596	1,869	95.4%	92.0%	Optimized
Center B Distribution Atlanta, GA Center C	57.2%	1,770	3,789	96.3%	74.6%	Improvemen t Needed
Distribution Los	60.5%	1,224	3,839	97.4%	81.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 53.6%	1,753	2,704	96.1%	71.4%	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