# **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: 48

Average Utilization: 81.2% 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	85.5%	1,146	2,004	97.9%	93.1%	Optimized
Center A Distribution Dallas, TX Center B	55.2%	1,228	3,125	97.5%	77.5%	Improvemen t Needed
Distribution Atlanta, GA	64.3%	2,728	3,646	97.8%	93.5%	Optimized
Center C Distribution Los	79.5%	1,769	2,512	96.5%	80.9%	Optimized
Center D Distribution Newark, NJ Center E	<sup>1</sup> 58.2%	1,699	1,900	99.3%	60.9%	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