# **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: 61

Average Utilization: 79.1% 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	Status
Distribution Chicago, IL	79.8%	2,310	3,241	95.2%	90.4%	Optimized
Center A Distribution Dallas, TX		2,879	2,101	95.3%	83.3%	Optimized
Center B Distribution Atlanta, GA Center C	68.9%	2,933	2,463	95.1%	72.1%	Improvemen t Needed
Distribution Los	47.1%	2,010	2,512	98.7%	85.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 113.9%	1,355	2,258	97.3%	64.0%	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