# **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: 56

Average Utilization: 74.7% 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	65.5%	2,174	2,604	99.1%	60.9%	Improvemen t Needed
Distribution Dallas, TX Center B	73.6%	1,481	2,508	95.4%	62.4%	Improvemen t Needed
Distribution Atlanta, GA	81.2%	2,823	3,501	99.5%	83.9%	Optimized
Center C Distribution Los	79.1%	1,848	2,798	96.2%	88.2%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 53.9%	2,483	2,818	98.9%	78.1%	Improvemen t Needed

# 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