# **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: 68

Average Utilization: 74.4% 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	115.0%	1,579	3,813	98.5%	64.4%	Improvemen t Needed
Distribution Dallas, TX Center B	103.2%	2,410	2,578	97.0%	61.8%	Improvemen t Needed
Distribution Atlanta, GA	58.3%	1,475	2,805	97.1%	84.3%	Optimized
Center C Distribution Los	94.3%	2,461	2,118	97.2%	88.3%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>4</sup> 62.0%	2,983	3,294	98.8%	72.9%	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