# **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: 81

Average Utilization: 88.0% 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	n Status
Distribution Chicago, IL	99.5%	1,277	1,564	97.8%	82.4%	Optimized
Center A Distribution Dallas, TX	56.6%	1,025	3,863	99.0%	92.6%	Optimized
Center B Distribution Atlanta, GA	53.1%	2,670	1,881	95.1%	86.2%	Optimized
Center C Distribution Los	68.3%	1,786	2,005	96.1%	87.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ	<sup>1</sup> 53.3%	1,237	3,309	97.3%	91.6%	Optimized
Center E						

# 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