# **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: 36

Average Utilization: 81.8% 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	93.0%	2,552	3,410	97.9%	62.3%	Improvemen t Needed
Distribution Dallas, TX	51.3%	2,102	3,578	99.2%	80.2%	Optimized
Center B Distribution Atlanta, GA	122.3%	2,756	3,061	96.5%	90.4%	Optimized
Center C Distribution Los	67.8%	2,009	3,253	95.6%	82.3%	Optimized
Center D Distribution Newark, NJ Center E	<sup>A</sup> 40.9%	1,634	3,938	96.9%	93.4%	Optimized

# 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