## **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: 47

Average Utilization: 76.8% 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	59.3%	1,870	3,433	96.7%	67.4%	Improvemen t Needed
Distribution Dallas, TX Center B	83.0%	2,307	2,898	98.6%	67.7%	Improvemen t Needed
Distribution Atlanta, GA	65.2%	1,774	3,938	98.8%	81.1%	Optimized
Center C Distribution Los	68.0%	1,762	3,597	96.6%	93.3%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 91.7%	2,816	3,894	98.4%	74.5%	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