# **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: 51

Average Utilization: 76.1% 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	111.7%	2,259	1,916	97.1%	76.9%	Improvemen t Needed
Distribution Dallas, TX Center B	115.6%	2,247	3,862	99.0%	69.7%	Improvemen t Needed
Distribution Atlanta, GA	78.5%	1,713	3,273	98.2%	83.6%	Optimized
Center C Distribution Los	60.8%	1,096	2,827	98.5%	88.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 52.7%	2,985	3,473	98.0%	61.9%	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