# **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: 41

Average Utilization: 75.9% 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	77.2%	2,008	3,062	98.7%	64.3%	Improvemen t Needed
Distribution Dallas, TX Center B	62.4%	1,268	3,958	97.8%	72.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	86.0%	1,461	3,390	96.4%	76.9%	Improvemen t Needed
Distribution Los	36.9%	2,623	2,246	98.3%	82.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 88.3%	1,911	2,376	97.9%	83.1%	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