# **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: 66

Average Utilization: 88.1% 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 Status Level	
Distribut	ion Chicago, IL	56.4%	2,986	3,949	99.0%	86.9%	Optimized
	ion Dallas, TX		2,704	1,729	99.0%	94.8%	Optimized
	on Atlanta, GA	80.9%	1,855	3,786	99.1%	95.0%	Optimized
Center C Distribut Center D		97.0% A	2,693	3,881	95.9%	73.6%	Improvemen t Needed
Distribut Center E	ion Newark, NJ	83.7%	1,175	2,581	99.1%	90.3%	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