# **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: 14

Average Utilization: 74.7% 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	
	Distribution Chicago, IL	45.6%	1,204	1,764	97.3%	82.6%	Optimized
	Center A Distribution Dallas, TX	77.9%	1,422	2,651	98.4%	86.1%	Optimized
	Center B Distribution Atlanta, GA Center C	45.6%	1,899	2,716	96.2%	71.7%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	78.7% A	1,119	3,936	95.9%	61.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	45.9%	1,739	2,661	96.7%	72.0%	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