# **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: 31

Average Utilization: 78.1% 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	
	Distribution Chicago, IL	67.5%	1,303	2,138	96.2%	83.9%	Optimized
	,	99.8%	1,013	3,718	95.8%	82.3%	Optimized
	Center B Distribution Atlanta, GA Center C	59.6%	2,134	2,873	97.1%	72.5%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	59.4% \	1,916	1,925	96.3%	78.2%	Improvemen t Needed
	Distribution Newark, NJ Center E	74.3%	1,444	1,574	99.0%	73.8%	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