# **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: 57

Average Utilization: 77.5% 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	62.8%	1,179	1,949	95.3%	65.6%	Improvemen t Needed
	81.9%	2,016	1,744	99.2%	86.5%	Optimized
Center B Distribution Atlanta, GA Center C	107.1%	1,282	1,615	96.7%	75.8%	Improvemen t Needed
Distribution Los Center D Distribution Newark, NJ Center E	81.8%	2,250	1,554	98.4%	86.4%	Optimized
	<sup>1</sup> 121.6%	1,280	3,807	98.0%	73.2%	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