# **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: 45

Average Utilization: 79.0% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Location		Capacity Used	nbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
	Distribution Chicago, IL	69.1%	2,032	3,057	96.3%	88.2%	Optimized
	Center A Distribution Dallas, TX Center B	81.7%	1,751	3,670	97.1%	75.3%	Improvemen t Needed
	Distribution Atlanta, GA Center C	78.3%	2,221	3,827	99.3%	75.7%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	73.6% \	2,223	3,889	95.6%	68.6%	Improvemen t Needed
	Distribution Newark, NJ Center E	97.9%	1,794	2,725	98.4%	87.1%	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