# **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: 39

Average Utilization: 81.0% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Location		Capacity Used	Inbound/ Outbound/ Picking Day Day Accuracy		Picking Accuracy	Automation Status Level	
	Distribution Chicago, IL	75.4%	1,128	2,756	95.8%	91.0%	Optimized
	Center A Distribution Dallas, TX Center B	48.7%	2,329	2,263	97.2%	72.2%	Improvemen t Needed
	Distribution Atlanta, GA Center C	47.6%	2,233	2,375	98.4%	75.1%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	101.9% \	2,590	3,077	95.0%	72.4%	Improvemen t Needed
	Distribution Newark, NJ Center E	64.0%	2,859	3,542	99.3%	94.1%	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