# **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: 51

Average Utilization: 73.7% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Location		•		Outbound/ Picking Day Accuracy	Automation Status Level		
	Distribution Chicago, IL Center A	80.3%	1,218	3,937	98.2%	69.1%	Improvemen t Needed
	Distribution Dallas, TX Center B	44.2%	2,642	3,386	95.9%	70.9%	Improvemen t Needed
	Distribution Atlanta, GA	101.4%	1,643	2,380	97.2%	93.3%	Optimized
	Center C Distribution Los Center D Angeles, CA	75.3% \	1,074	3,768	99.4%	63.6%	Improvemen t Needed
	Distribution Newark, NJ Center E	65.9%	1,895	2,746	96.8%	71.7%	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