## **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: 61

Average Utilization: 75.4% 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	105.6%	2,223	2,392	98.2%	90.4%	Optimized
	Center A Distribution Dallas, TX Center B	69.3%	1,357	3,589	96.6%	62.7%	Improvemen t Needed
	Distribution Atlanta, GA Center C	47.0%	2,523	3,509	96.5%	66.0%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	57.7% A	2,607	2,499	97.4%	72.2%	Improvemen t Needed
	Distribution Newark, NJ Center E	59.1%	1,422	2,941	97.4%	85.5%	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