# **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: 37

Average Utilization: 73.1% 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 Center A	61.1%	1,038	1,551	97.7%	65.9%	Improvemen t Needed
Distribution Dallas, TX	51.0%	2,890	3,843	97.2%	87.1%	Optimized
Center B Distribution Atlanta, GA Center C	62.7%	2,928	2,310	95.0%	62.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	37.0% \	1,815	2,741	98.4%	60.4%	Improvemen t Needed
Distribution Newark, NJ Center E	67.0%	1,579	2,803	98.0%	89.3%	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