# **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: 33

Average Utilization: 75.5% 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 Level	Status
Distribution Chicago, IL		2,074	1,928	99.3%	90.7%	Optimized
Center A Distribution Dallas, TX		1,336	2,693	96.4%	80.1%	Optimized
Center B Distribution Atlanta, GA Center C	117.2%	1,391	1,765	95.1%	72.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA	55.8% \	2,602	1,936	95.6%	64.1%	Improvemen t Needed
Distribution Newark, NJ Center E	101.2%	1,908	2,644	98.9%	70.1%	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