# **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: 52

Average Utilization: 80.5% 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		2,329	3,942	98.1%	85.7%	Optimized
Center A Distribution Dallas, TX		2,226	3,311	98.3%	82.6%	Optimized
Center B Distribution Atlanta, GA Center C	75.6%	2,647	2,400	98.5%	64.9%	Improvemen t Needed
Distribution Los	103.8%	1,081	2,237	98.6%	86.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	64.6%	1,936	3,768	96.5%	83.0%	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