# **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: 77.5% 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 Status Level	
Distribution Chicago, IL Center A	49.1%	2,248	1,933	97.7%	61.8%	Improvemen t Needed
Distribution Dallas, TX	44.9%	2,248	2,999	97.2%	91.7%	Optimized
Center B Distribution Atlanta, GA Center C	87.2%	2,574	2,283	98.8%	63.4%	Improvemen t Needed
Distribution Los Center D Angeles, CA	78.3% A	1,891	2,488	97.7%	77.3%	Improvemen t Needed
Distribution Newark, NJ Center E	99.7%	1,021	3,857	95.3%	93.1%	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