# **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: 49

Average Utilization: 75.3% 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 Center A	43.5%	2,768	2,161	96.6%	63.7%	Improvemen t Needed
Distribution Dallas, TX	80.0%	2,805	1,789	99.4%	80.5%	Optimized
Center B Distribution Atlanta, GA Center C	43.4%	2,084	2,073	97.1%	74.8%	Improvemen t Needed
Distribution Los	74.0%	2,331	1,811	95.6%	88.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	100.9%	1,331	3,008	99.1%	68.9%	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