# **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: 50

Average Utilization: 78.1% 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 Level	Status
Distribution Chicago, IL	111.8%	2,067	2,434	96.2%	90.5%	Optimized
Center A Distribution Dallas, TX Center B	70.0%	2,951	2,584	99.4%	79.7%	Improvemen t Needed
Distribution Atlanta, GA	120.4%	1,401	2,664	98.2%	88.4%	Optimized
Center C Distribution Los Center D Angeles, CA	61.5% \	1,357	2,196	95.2%	64.6%	Improvemen t Needed
Distribution Newark, NJ Center E	72.8%	1,151	2,147	98.1%	67.3%	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