# **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: 45

Average Utilization: 80.1% 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 Center A	62.6%	1,431	2,101	96.8%	78.2%	Improvemen t Needed
Distribution Dallas, TX Center B	56.7%	2,617	1,828	95.6%	73.1%	Improvemen t Needed
Distribution Atlanta, GA	47.3%	1,622	3,420	98.3%	83.1%	Optimized
Center C Distribution Los Center D Angeles, CA	103.6% \	1,843	3,780	96.1%	71.8%	Improvemen t Needed
Distribution Newark, NJ Center E	61.8%	1,977	2,949	98.8%	94.4%	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