# **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: 42

Average Utilization: 77.8% 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	81.9%	1,608	3,008	99.4%	87.3%	Optimized
Center A Distribution Dallas, TX Center B	59.4%	1,835	3,832	96.4%	68.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	46.9%	2,248	2,583	97.4%	79.0%	Improvemen t Needed
Distribution Los	76.0%	1,477	1,671	95.9%	83.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 81.2%	2,794	3,429	99.5%	71.2%	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