## **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: 51

Average Utilization: 74.9% 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	n Status
Distribution Chicago, IL Center A	74.3%	1,938	2,738	97.6%	65.6%	Improvemen t Needed
Distribution Dallas, TX Center B	83.9%	2,097	2,882	99.5%	70.8%	Improvemen t Needed
Distribution Atlanta, GA	64.2%	2,013	3,444	95.2%	80.4%	Optimized
Center C Distribution Los	69.2%	1,343	3,459	95.2%	90.1%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 75.9%	2,102	1,882	96.3%	67.5%	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