## **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: 35

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	n Status
Distribution Chicago, IL Center A	97.7%	2,492	1,880	97.5%	75.8%	Improvemen t Needed
Distribution Dallas, TX Center B	46.5%	1,999	1,554	97.3%	64.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	56.8%	1,858	3,806	98.1%	64.9%	Improvemen t Needed
Distribution Los	51.0%	1,884	3,482	97.0%	80.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 48.9%	2,911	3,458	97.5%	91.3%	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