## **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: 74.2% 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	114.3%	1,752	1,696	98.4%	71.3%	Improvemen t Needed
Distribution Dallas, TX Center B	67.7%	2,903	1,627	96.9%	60.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	107.6%	2,383	2,613	96.1%	67.0%	Improvemen t Needed
Distribution Los	43.5%	1,150	2,131	97.1%	87.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 92.5%	2,515	2,855	98.4%	84.4%	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