# **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: 46

Average Utilization: 79.4% 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	37.8%	2,442	1,989	95.3%	73.0%	Improvemen t Needed
Distribution Dallas, TX Center B	55.5%	2,703	2,350	96.8%	75.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	71.8%	2,771	2,768	98.5%	73.5%	Improvemen t Needed
Distribution Los	80.1%	2,272	3,520	96.5%	83.4%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 62.8%	1,647	1,513	99.3%	91.5%	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