# **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: 38

Average Utilization: 75.6% 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	70.4%	2,523	3,314	99.3%	70.0%	Improvemen t Needed
Distribution Dallas, TX Center B	70.9%	1,735	2,556	99.5%	68.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	67.1%	2,852	3,183	95.4%	66.8%	Improvemen t Needed
Distribution Los	58.4%	2,210	2,303	99.4%	82.5%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 64.6%	2,322	2,929	98.5%	90.7%	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