# **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: 48

Average Utilization: 88.2% 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	62.8%	1,988	1,672	96.9%	77.9%	Improvemen t Needed
Distribution Dallas, TX	40.3%	1,370	3,555	95.0%	94.9%	Optimized
Center B Distribution Atlanta, GA	56.8%	1,415	3,134	95.4%	85.3%	Optimized
Center C Distribution Los	83.4%	1,824	2,184	97.9%	91.7%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	<sup>A</sup> 54.1%	2,918	2,185	98.5%	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