# **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: 37

Average Utilization: 82.5% 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		2,071	2,335	97.1%	81.5%	Optimized
Center A Distribution Dallas, TX		2,474	3,833	99.1%	90.2%	Optimized
Center B Distribution Atlanta, GA Center C	44.0%	1,941	3,478	97.8%	62.3%	Improvemen t Needed
Distribution Los	69.1%	2,560	3,815	96.0%	88.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 63.9%	1,199	3,609	97.0%	90.1%	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