# **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: 32

Average Utilization: 84.1% 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		1,802	3,655	99.5%	90.7%	Optimized
Center A Distribution Dallas, TX	105.3%	2,292	3,704	96.4%	87.6%	Optimized
Center B Distribution Atlanta, GA	55.7%	2,283	3,424	95.4%	87.1%	Optimized
Center C Distribution Los	69.7%	1,700	3,030	98.2%	89.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 64.3%	2,793	2,898	97.1%	65.8%	Improvemen t Needed

# 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