# **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: 49

Average Utilization: 79.6% 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	44.2%	2,178	2,977	96.1%	62.5%	Improvemen t Needed
Distribution Dallas, TX	87.0%	2,793	3,407	95.6%	81.4%	Optimized
Center B Distribution Atlanta, GA	54.7%	1,679	2,288	97.1%	93.1%	Optimized
Center C Distribution Los	116.9%	1,121	3,627	95.7%	89.6%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>A</sup> 31.9%	2,713	1,800	97.3%	71.3%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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