# **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: 47

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	54.5%	2,696	2,377	98.4%	93.0%	Optimized
Center A Distribution Dallas, TX Center B	84.9%	2,211	2,606	96.8%	72.6%	Improvemen t Needed
Distribution Atlanta, GA	126.1%	2,711	1,674	96.9%	89.1%	Optimized
Center C Distribution Los	63.0%	2,344	2,934	98.2%	80.2%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>4</sup> 41.8%	2,309	1,645	99.1%	63.4%	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