# **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: 80.7% 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	128.3%	2,549	1,834	95.0%	65.2%	Improvemen t Needed
Distribution Dallas, TX	89.5%	1,309	3,563	95.5%	90.4%	Optimized
Center B Distribution Atlanta, GA	72.0%	2,203	2,505	95.9%	90.6%	Optimized
Center C Distribution Los	74.5%	2,403	2,158	95.7%	93.6%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>1</sup> 104.2%	1,617	1,798	96.8%	63.8%	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