# **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: 35

Average Utilization: 85.2% 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	Status
Distribution Chicago, IL		1,418	2,449	96.3%	94.9%	Optimized
Center A Distribution Dallas, TX Center B	50.0%	2,808	1,938	98.9%	70.1%	Improvemen t Needed
Distribution Atlanta, GA	116.8%	2,099	2,519	96.4%	94.6%	Optimized
Center C Distribution Los Center D Angeles, CA	46.5% \	2,238	3,615	98.7%	72.3%	Improvemen t Needed
Distribution Newark, NJ Center E	63.1%	2,650	2,838	96.5%	94.1%	Optimized

# 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