# **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: 76.9% 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		1,153	2,212	95.3%	86.0%	Optimized
Center A Distribution Dallas, TX Center B	65.6%	1,950	2,563	95.8%	71.4%	Improvemen t Needed
Distribution Atlanta, GA	78.7%	2,072	2,450	95.9%	80.9%	Optimized
Center C Distribution Los Center D Angeles, CA	81.5% \	2,168	2,542	98.1%	64.8%	Improvemen t Needed
Distribution Newark, NJ Center E	64.1%	1,525	1,632	97.7%	81.5%	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