# **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: 38

Average Utilization: 77.0% 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	57.9%	2,435	3,105	97.8%	74.9%	Improvemen t Needed
Distribution Dallas, TX Center B	94.6%	1,183	3,653	99.3%	69.5%	Improvemen t Needed
Distribution Atlanta, GA	54.7%	1,709	3,705	96.1%	80.4%	Optimized
Center C Distribution Los Center D Angeles, CA	92.9% A	1,336	1,753	96.9%	68.2%	Improvemen t Needed
Distribution Newark, NJ Center E	62.8%	1,700	2,047	98.8%	92.0%	Optimized

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%

• Imple

ment voicepicking 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