# **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: 64

Average Utilization: 75.8% 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 Center A	54.1%	2,760	3,112	96.6%	69.7%	Improvemen t Needed
Distribution Dallas, TX Center B	52.9%	1,815	2,360	99.4%	72.4%	Improvemen t Needed
Distribution Atlanta, GA	88.7%	2,759	2,893	98.8%	81.6%	Optimized
Center C Distribution Los Center D Angeles, CA	44.3% \	2,912	3,287	97.5%	65.3%	Improvemen t Needed
Distribution Newark, NJ Center E	53.6%	2,312	2,049	96.4%	90.2%	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