# **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: 36

Average Utilization: 74.7% 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	47.5%	1,435	2,361	97.7%	66.1%	Improvemen t Needed
Distribution Dallas, TX Center B	80.1%	2,312	1,818	99.0%	70.3%	Improvemen t Needed
Distribution Atlanta, GA	66.0%	2,779	3,330	98.5%	80.2%	Optimized
Center C Distribution Los Center D Angeles, CA	71.7% A	1,273	1,578	98.8%	76.5%	Improvemen t Needed
Distribution Newark, NJ Center E	73.0%	1,083	2,804	96.3%	80.2%	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