# **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: 48

Average Utilization: 79.4% 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	80.4%	2,756	3,644	96.6%	93.2%	Optimized
Center A Distribution Dallas, TX	86.5%	1,555	3,087	96.9%	87.2%	Optimized
Center B Distribution Atlanta, GA Center C	72.4%	1,850	3,957	97.8%	78.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA	34.0% \	1,356	3,144	97.4%	74.9%	Improvemen t Needed
Distribution Newark, NJ Center E	65.5%	1,182	2,507	97.0%	63.5%	Improvemen t Needed

# 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