# **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: 29

Average Utilization: 80.7% 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	Status
Distribution Chicago, IL Center A	61.1%	1,373	3,376	98.8%	76.5%	Improvemen t Needed
Distribution Dallas, TX	97.9%	2,803	1,906	98.0%	94.9%	Optimized
Center B Distribution Atlanta, GA	71.2%	1,860	1,716	95.7%	94.1%	Optimized
Center C Distribution Los Center D Angeles, CA	71.5% \	2,783	1,810	95.1%	71.3%	Improvemen t Needed
Distribution Newark, NJ Center E	62.7%	1,037	3,930	98.4%	66.6%	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