# **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: 65

Average Utilization: 84.4% 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	74.2%	2,636	1,597	99.2%	81.7%	Optimized
Center A Distribution Dallas, TX		2,059	2,023	99.3%	94.1%	Optimized
Center B Distribution Atlanta, GA	32.0%	1,871	1,695	98.7%	90.5%	Optimized
Center C Distribution Los Center D Angeles, CA	72.9% A	2,458	3,744	95.7%	62.6%	Improvemen t Needed
Distribution Newark, NJ Center E	45.3%	2,205	2,601	98.2%	93.3%	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