# **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: 42

Average Utilization: 76.4% 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 Status Level	
Distribution Center A	Chicago, IL	96.8%	2,347	3,776	95.0%	75.4%	Improvemen t Needed
Distribution Center B Distribution Center C Distribution Center D	•	69.3%	2,311	1,790	99.0%	88.4%	Optimized
	Atlanta, GA	33.3%	2,545	3,932	96.4%	85.2%	Optimized
	Los Angeles, CA	69.4% \	1,481	2,022	97.9%	68.0%	Improvemen t Needed
Distribution Center E	Newark, NJ	121.9%	1,630	2,593	95.8%	65.0%	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