## **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: 40

Average Utilization: 81.6% 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	88.1%	1,872	3,745	97.3%	78.7%	Improvemen t Needed
	Distribution	•	43.2%	1,081	2,289	96.6%	92.6%	Optimized
	Center B Distribution	Atlanta, GA	50.8%	1,125	2,028	95.8%	94.5%	Optimized
		Los Angeles, CA	72.2% \	1,238	2,819	98.9%	68.8%	Improvemen t Needed
	Distribution Center E	Newark, NJ	41.8%	2,107	2,706	97.8%	73.4%	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