## **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: 28

Average Utilization: 81.1% 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	63.0%	2,782	2,190	97.2%	73.2%	Improvemen t Needed
	Distribution I	,	65.1%	1,655	2,568	96.3%	93.9%	Optimized
	Center B Distribution	Atlanta, GA	48.4%	1,911	2,341	97.4%	86.9%	Optimized
		Los Angeles, CA	88.0%	2,673	3,746	95.3%	74.0%	Improvemen t Needed
	Distribution I Center E	Newark, NJ	77.1%	2,957	3,507	98.9%	77.8%	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