## **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: 78.6% 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 Chicago, IL Center A	54.4%	1,990	3,192	99.1%	77.1%	Improvemen t Needed
	Distribution Dallas, TX	56.5%	1,095	2,393	97.3%	85.8%	Optimized
	Center B Distribution Atlanta, GA Center C	108.1%	1,761	2,298	96.5%	73.8%	Improvemen t Needed
	Distribution Los	70.9%	1,132	1,713	98.8%	94.9%	Optimized
	Center E  Angeles, CA Newark, NJ Center E	44.4%	2,260	2,792	96.6%	61.4%	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