## **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: 43

Average Utilization: 76.5% 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	n Status
Distribution Chicago, IL Center A	66.7%	1,919	2,147	97.5%	79.8%	Improvemen t Needed
Distribution Dallas, TX	42.6%	1,446	1,727	97.9%	80.6%	Optimized
Center B Distribution Atlanta, GA Center C	117.2%	1,467	3,610	98.0%	72.0%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	50.4%	2,355	3,165	98.1%	83.5%	Optimized
	<sup>4</sup> 40.0%	2,736	3,692	96.6%	66.8%	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