## **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: 45

Average Utilization: 76.6% 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 Level	n Status
Distribution Chicago, IL Center A	109.6%	2,487	3,598	98.8%	74.7%	Improvemen t Needed
Distribution Dallas, TX Center B	71.0%	2,245	2,882	98.1%	69.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	114.2%	2,746	3,276	97.2%	76.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	79.7%	2,963	2,243	95.2%	81.8%	Optimized
	<sup>A</sup> 59.8%	1,744	3,835	96.5%	81.1%	Optimized

## 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