## **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: 48

Average Utilization: 76.2% 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	107.6%	1,438	3,549	98.7%	64.8%	Improvemen t Needed
Distribution Dallas, TX	63.4%	1,769	3,890	95.2%	83.3%	Optimized
Center B Distribution Atlanta, GA Center C	62.2%	2,906	2,368	97.2%	69.1%	Improvemen t Needed
Distribution Los	64.7%	1,587	2,827	98.5%	85.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 80.3%	2,416	3,612	98.5%	78.7%	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