## **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: 58

Average Utilization: 76.3% 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	69.6%	1,801	3,951	97.3%	71.3%	Improvemen t Needed
Distribution Dallas, TX Center B	44.7%	1,179	1,963	95.2%	63.0%	Improvemen t Needed
Distribution Atlanta, GA	77.0%	2,409	2,643	95.6%	90.3%	Optimized
Center C Distribution Los	72.6%	1,841	2,793	96.5%	93.4%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>4</sup> 58.6%	2,608	3,129	97.5%	63.8%	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