# **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: 62

Average Utilization: 81.5% 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	68.7%	2,385	3,720	97.1%	68.5%	Improvemen t Needed
Distribution Dallas, TX	70.0%	1,927	2,793	95.3%	81.8%	Optimized
Center B Distribution Atlanta, GA	92.7%	1,935	3,506	97.9%	87.4%	Optimized
Center C Distribution Los	38.0%	2,889	3,111	98.8%	81.7%	Optimized
Center D Distribution Newark, NJ Center E	<sup>A</sup> 74.9%	1,929	3,648	96.7%	88.0%	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