# **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: 51

Average Utilization: 81.3% 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		2,048	3,460	95.9%	81.5%	Optimized
Center A Distribution Dallas, TX		1,790	2,474	99.3%	82.2%	Optimized
Center B Distribution Atlanta, GA Center C	63.1%	1,621	2,345	96.8%	61.1%	Improvemen t Needed
Distribution Los	80.1%	2,335	3,928	95.3%	91.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 65.7%	2,840	3,053	95.4%	90.6%	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