# **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: 49

Average Utilization: 82.3% 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	Status
Distribution Chicago, IL		2,949	2,203	95.9%	85.0%	Optimized
Center A Distribution Dallas, TX		2,055	2,183	95.9%	85.2%	Optimized
Center B Distribution Atlanta, GA Center C	107.6%	2,267	3,410	99.4%	61.6%	Improvemen t Needed
Distribution Los	31.7%	2,834	3,295	97.4%	94.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 62.3%	2,692	3,740	98.2%	84.8%	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