# **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: 52

Average Utilization: 72.0% 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	102.9%	1,804	2,233	99.2%	61.2%	Improvemen t Needed
Distribution Dallas, TX Center B	64.2%	1,359	1,948	96.5%	69.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	43.9%	1,323	3,726	96.0%	63.3%	Improvemen t Needed
Distribution Los	33.6%	1,564	1,685	97.2%	85.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 46.6%	1,418	1,554	96.8%	80.8%	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