# **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: 44

Average Utilization: 76.9% 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	66.1%	2,268	2,120	96.8%	68.0%	Improvemen t Needed
Distribution Dallas, TX Center B	101.6%	2,698	3,141	95.2%	71.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	86.7%	2,252	2,007	96.1%	71.3%	Improvemen t Needed
Distribution Los	116.5%	2,903	2,681	95.2%	80.4%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>A</sup> 61.4%	1,204	3,478	99.5%	93.7%	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