# **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: 35

Average Utilization: 83.8% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Locatio	n Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automatio Level	n Status
Distribution Chicago	, IL 77.2%	2,651	3,558	98.6%	93.1%	Optimized
Center A Distribution Dallas, 7		1,242	2,430	96.5%	86.1%	Optimized
Center B Distribution Atlanta,	GA 84.2%	1,021	2,924	95.4%	86.4%	Optimized
Center C Distribution Los Center D Angeles	61.4% , CA	2,529	2,785	95.6%	66.7%	Improvemen t Needed
Distribution Newark, Center E	NJ 117.5%	1,598	3,249	99.4%	86.6%	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