# **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: 83.9% 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		1,142	3,146	98.7%	91.7%	Optimized
Center A Distribution Dallas, TX		1,761	2,392	97.6%	82.8%	Optimized
Center B Distribution Atlanta, GA Center C	73.8%	2,332	2,050	99.0%	78.0%	Improvemen t Needed
Distribution Los	41.9%	1,719	2,089	97.6%	85.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 48.7%	2,609	2,019	97.1%	81.8%	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