# **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: 40

Average Utilization: 85.6% 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	63.8%	2,078	2,629	98.7%	93.7%	Optimized
Center A Distribution Dallas, TX		2,482	1,698	98.0%	81.3%	Optimized
Center B Distribution Atlanta, GA Center C	65.8%	1,486	3,355	98.9%	73.6%	Improvemen t Needed
Distribution Los	39.5%	1,317	2,581	96.9%	88.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 42.8%	2,407	3,343	97.0%	91.7%	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