# **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: 20

Average Utilization: 80.8% 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	Status
Distribution Chicago, IL	44.5%	2,399	2,696	96.2%	80.6%	Optimized
Center A Distribution Dallas, TX		1,074	2,871	96.2%	85.3%	Optimized
Center B Distribution Atlanta, GA Center C	99.6%	2,646	1,616	97.9%	77.7%	Improvemen t Needed
Distribution Los	82.0%	2,214	1,546	98.7%	84.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 97.7%	2,455	1,618	95.5%	75.9%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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