# **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: 53

Average Utilization: 81.7% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Location	on Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
Distribution Chicago	•	2,747	2,277	95.7%	86.9%	Optimized
Center A Distribution Dallas, Center B	TX 57.8%	2,857	2,769	97.0%	75.5%	Improvemen t Needed
Distribution Atlanta,	GA 66.9%	2,543	2,429	97.8%	82.6%	Optimized
Center C Distribution Los Center D Angeles	76.7% s, CA	2,328	1,858	99.4%	76.8%	Improvemen t Needed
Distribution Newark Center E	, NJ 71.6%	2,249	2,702	99.4%	86.8%	Optimized

# 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