# **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: 36

Average Utilization: 82.3% 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 Status Level	
Distribution Chicago, II Center A	- 63.3%	1,539	1,941	98.5%	68.6%	Improvemen t Needed
Distribution Dallas, TX		2,522	3,560	96.7%	94.8%	Optimized
Center B Distribution Atlanta, GA	4 62.2%	1,278	1,778	99.5%	82.9%	Optimized
Center C Distribution Los Center D Angeles, C	89.9% A	1,406	3,606	96.7%	79.6%	Improvemen t Needed
Distribution Newark, N. Center E	J 100.8%	2,327	2,067	95.5%	85.7%	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